



YOU NEED
WE MAKE **IT**

GENERAL
CATALOGUE

GENERAL CATALOGUE

CATALOGO GENERALE

ATTREZZATURE MODULARI PSC SYSTEM ISO 26623-1	A 	MODULAR EQUIPMENT PSC SYSTEM ISO 26623-1
CARTUCCE - UNITÀ MICRO	B 	CARTRIDGES - MICRO UNITS
PUNTE SPEEDY DRILL	C 	SPEEDY DRILLS
UTENSILI A FISSAGGIO MECCANICO	D 	TURNING TOOLS
FILETTATURA	E 	THREADING
FRESE A FISSAGGIO MECCANICO	F 	INDEXABLE MILLS
UTENSILI IN METALLO DURO INTEGRALE	G 	HARD METAL TOOLS
INSERTI	H 	INSERTS
RICAMBI	I 	SPARE PARTS
SISTEMI PRESA PEZZO	L 	VICES



●●● RIECO TOOLING SOLUTIONS

ECCELLENZA ITALIANA NELL'UTENSILERIA DI PRECISIONE

Da oltre trent'anni, **Rieco** è sinonimo di **competenza e affidabilità** nel panorama dell'utensileria per l'asportazione del truciolo, operando come punto di riferimento nel nord-est dell'Italia.

La nostra **storia** è fondata su una solida **esperienza**, una costante spinta all'**innovazione** e una capacità unica di rispondere con tempestività alle evoluzioni del mercato.

La nostra **gamma prodotti** è ampia e diversificata, pensata per soddisfare le esigenze più specifiche e complesse dell'industria manifatturiera.

Offriamo **soluzioni standard complete**, tra cui:

Sistemi modulari e unità microregistrabili

Frese a fissaggio meccanico

Morse e sistemi di presa pezzo

Punte a inserti 3D con passo diametrale di 0,5 mm

Utensili e frese per filettatura

Cartucce registrabili

Inserti e utensili in metallo duro, sia standard che speciali

Utensili Saldobrasati ed in HSS

Offriamo inoltre, **UTENSILI SPECIALI SU MISURA** progettati in stretta collaborazione con il cliente.

A completare l'offerta, il nostro Sistema PSC una soluzione avanzata che garantisce massima rigidità, precisione costante e riduzione significativa dei tempi di set-up. Ideale per le officine moderne, dove efficienza e qualità sono requisiti imprescindibili.

Il nostro valore aggiunto risiede nell'attenzione meticolosa a ogni fase del processo produttivo. Selezioniamo con cura i nostri collabo-

ratori, utilizziamo esclusivamente materie prime certificate e investiamo nella ricerca dei rivestimenti più innovativi e performanti.

Il tutto è supportato da una digitalizzazione completa, con sistemi CAD-CAM di ultima generazione che ci permettono di realizzare anche i progetti più complessi con precisione e rapidità.

Grazie a un parco macchine costantemente aggiornato, siamo in grado di garantire elevata precisione, qualità superiore e tempi di esecuzione ridotti.

La nostra missione è fornire attrezzature affidabili in tempi brevi, perché sappiamo che la competitività oggi si gioca sulla capacità di coniugare efficienza produttiva e eccellenza qualitativa. ■

ITALIAN EXCELLENCE IN PRECISION TOOLING

For over thirty years, **Rieco** has been synonymous with **expertise and reliability** in the field of chip-removal tooling, serving as a key reference point in north-eastern Italy.

Our history is built on solid **experience**, a constant drive for **innovation**, and a unique ability to respond promptly to market developments.

Our product range is broad and diversified, designed to meet the most specific and complex needs of the manufacturing industry.

A complete range of standard solutions, including:

Modular systems and micro-adjustable units

Indexable milling cutters

Vises and workholding systems

3D insert drills with 0.5 mm diameter pitch

Threading tools and mills

Adjustable cartridges

Standard and special carbide inserts and tools

Brazed and HSS tools

We offer **CUSTOM-MADE SPECIAL TOOLS** designed in close collaboration with the customer.

To complete the offer, our PSC System provides an advanced solution that ensures maximum rigidity, consistent precision, and a significant reduction in setup times. It is ideal for modern workshops, where efficiency and quality are essential requirements.

Our added value lies in meticulous attention to every stage of the pro-

duction process. We carefully select our collaborators, use only certified raw materials, and invest in the research of the most innovative and high-performance coatings.

All this is supported by complete digitalization, with state-of-the-art CAD-CAM systems that allow us to execute even the most complex projects with accuracy and speed.

Thanks to a constantly updated machine fleet, we guarantee high precision, superior quality, and reduced lead times.

Our mission is to deliver reliable tooling in the shortest possible time, because we know that today's competitiveness depends on the ability to combine production efficiency with outstanding quality. ■

SINCE
1996

Da oltre 30 anni,
affidabilità, attrezzatura di
qualità e fornitura rapida

*For over 30 years: reliability,
quality equipment, and fast delivery*

PRODUZIONE

PROGETTAZIONE

ATTREZZATURE MODULARI E UTENSILI SPECIALI DI PROPRIA PROGETTAZIONE

Nel programma di produzione rientra la costruzione di attrezzature modulari e di utensili speciali di propria progettazione:

Allargatori e Alesatori Speciali a fissaggio meccanico, brasati e Integrali

Attacchi e Codoli speciali

Frese e Punte Speciali a fissaggio meccanico, brasate e Integrali

Utensili Speciali a fissaggio meccanico, brasati e Integrali

Bareni

Cartucce ISO e speciali

Ci poniamo come collaboratori dei nostri clienti, che desideriamo definire Partners, per ottimizzare insieme il processo produttivo alla luce di un mercato sempre più competitivo.

Presupposto del nostro successo è il pensiero innovativo, unito ad un accurato servizio clienti, in grado

di risolvere problemi specifici in modo sollecito ed efficace.

Il rapido sviluppo di idee innovative, la velocità nella risposta e, in generale, il servizio altamente qualificato, continueranno a rappresentare, anche in futuro, i nostri punti di forza.



PRODUCTION | DESIGN

MODULAR TOOLING SYSTEMS

AND SPECIAL TOOLS DESIGNED BY OUR TEAM OF ENGINEERS

Our production encompasses the construction of modular tooling systems and special tools designed by our team of engineers::

Special indexable, brazed and solid carbide counterbores and reamers

Special tool holders and pull studs

Special indexable, brazed and solid carbide milling cutters and drills

Special indexable, brazed and solid carbide tools

Boring bars

ISO and special cartridges

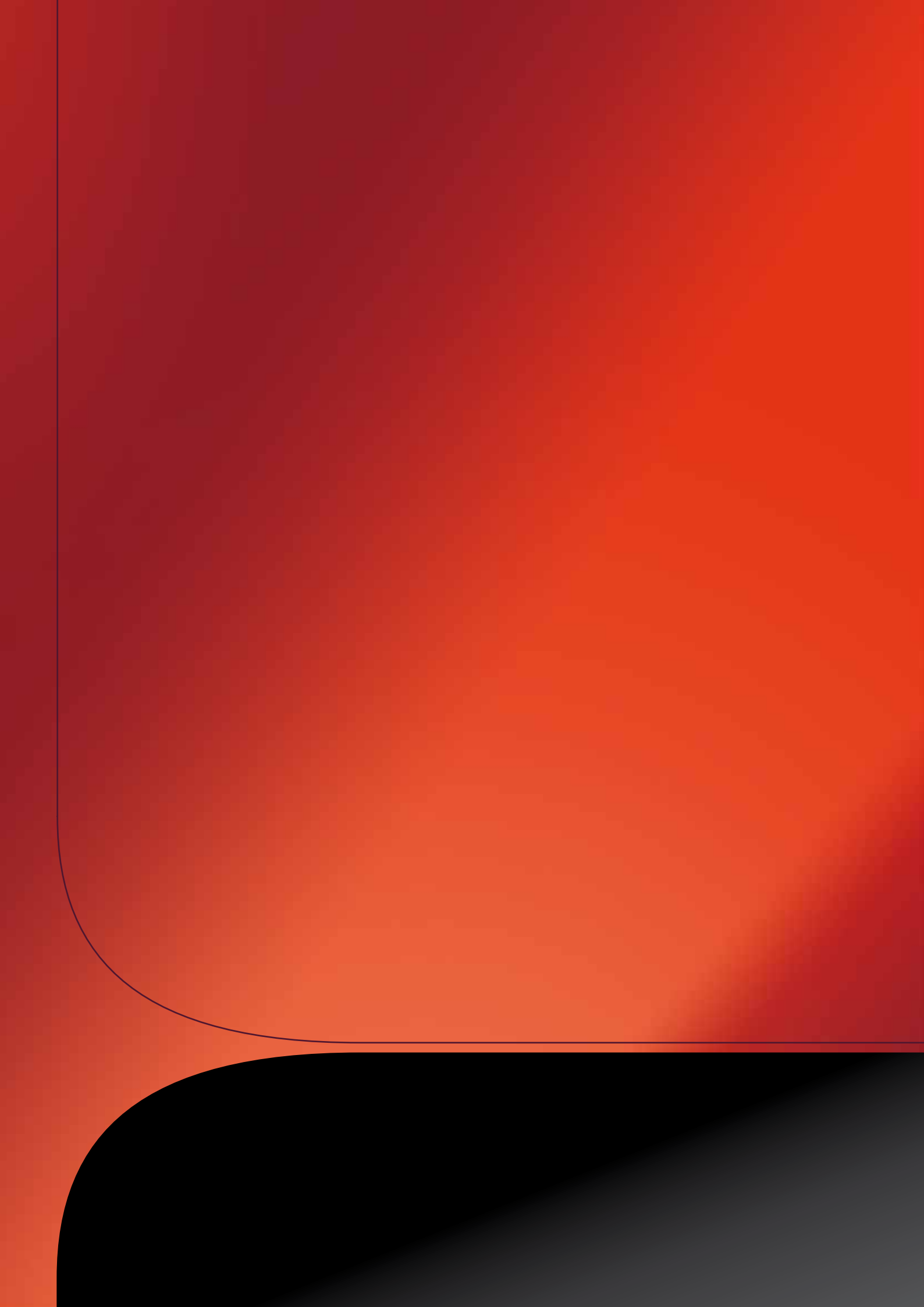
We think to our customers as partners. This is because we work closely together to optimize the manufacturing process in light of an increasingly demanding market.

We believe that combination of innovative thinking and first-rate customer service is the key to our

success. We can deliver specific solutions promptly and effectively.

Speedy development of ground-breaking ideas, quick response solutions and, in general, highly skilled service will continue to be our strong points long into the future.

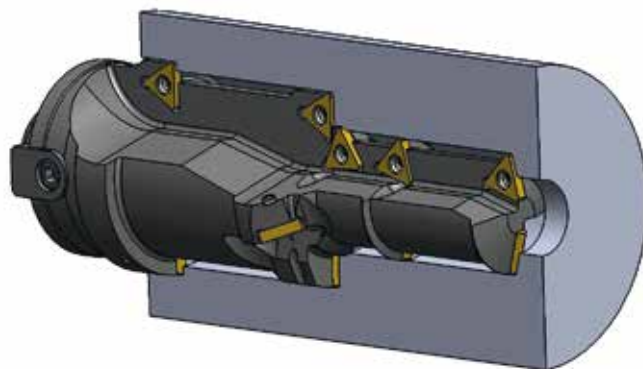




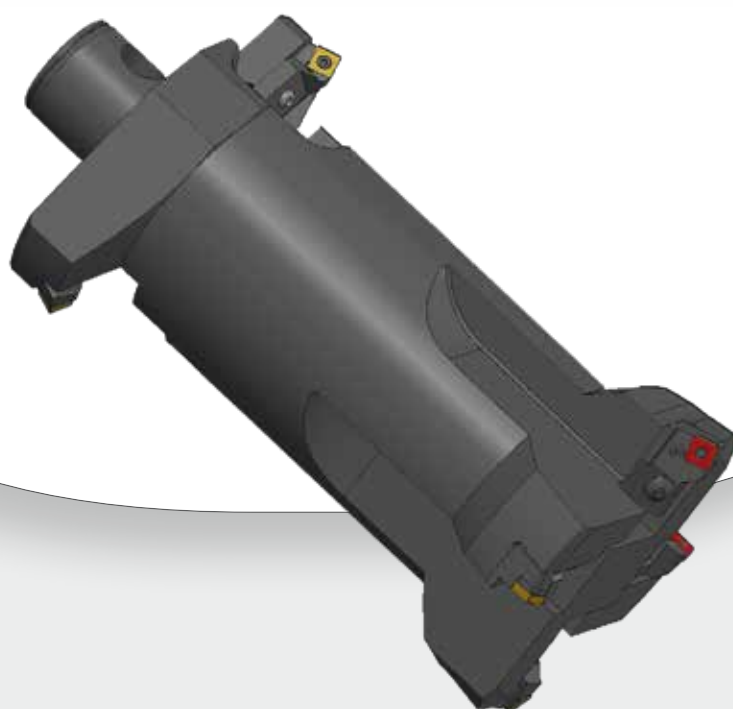
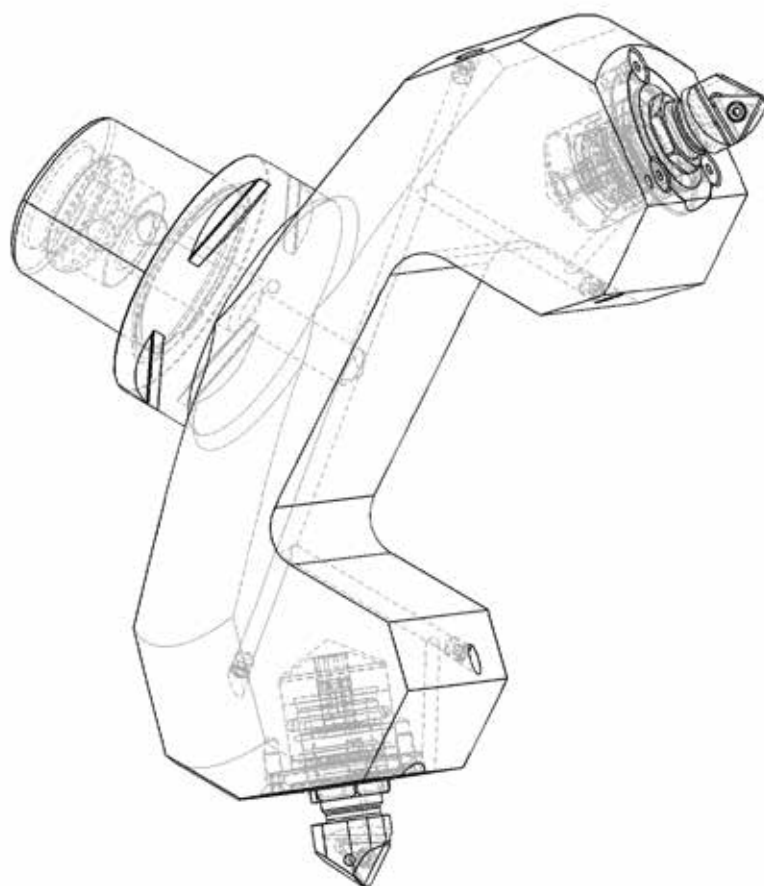
**PSC SYSTEM
ISO 26623-1**



SPECIALI
CUSTOMIZED

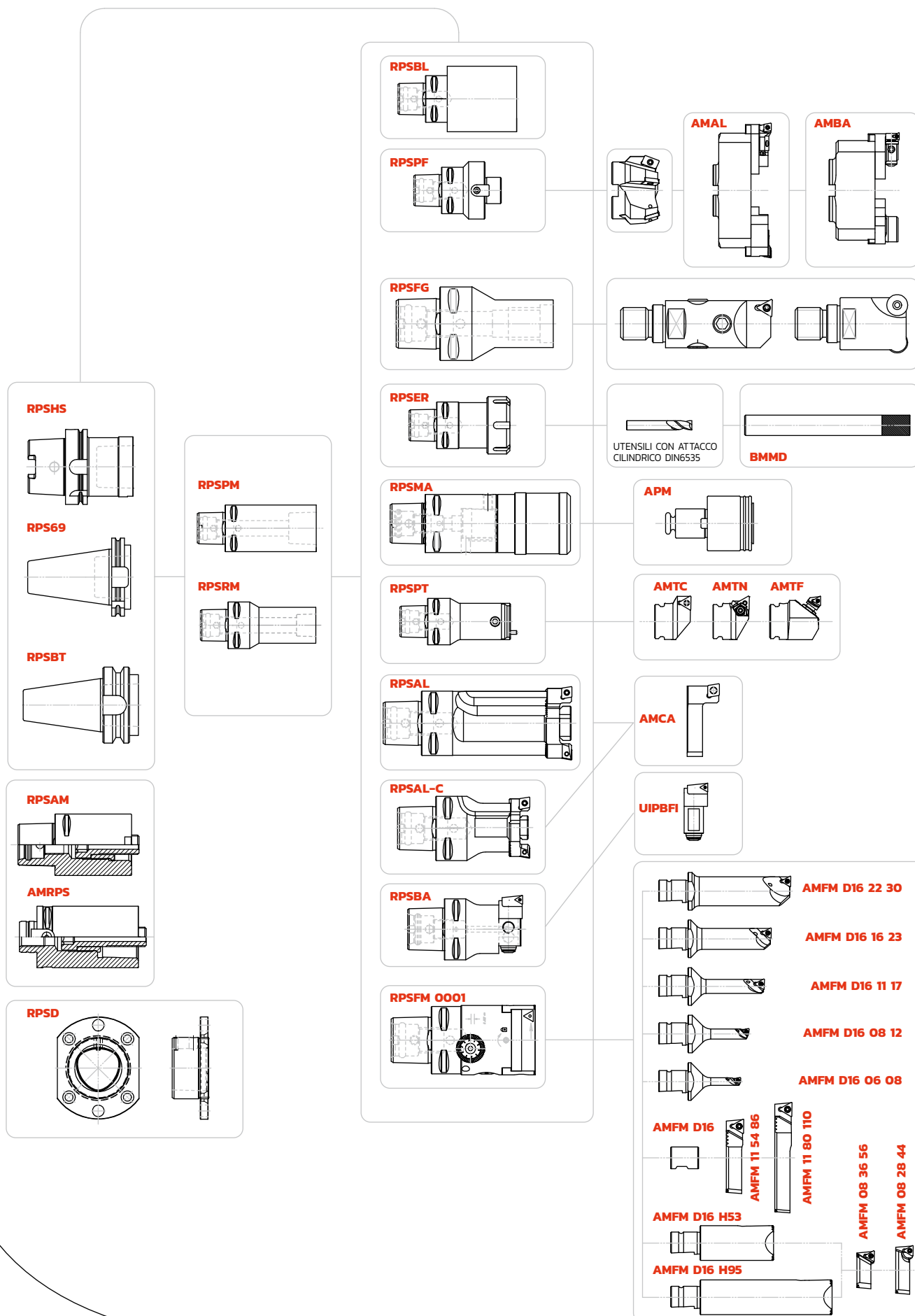


SPECIALI
CUSTOMIZED



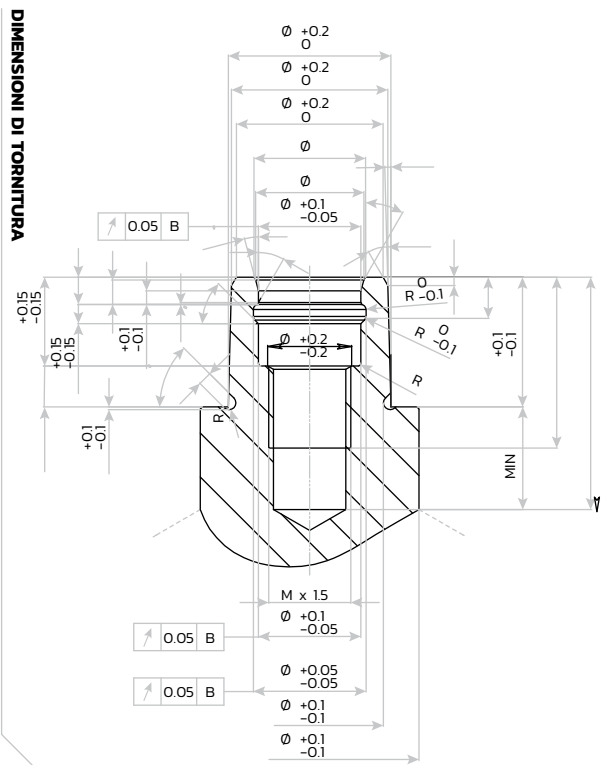
INDICE FIGURATO PSC

PSC FIGURATIVE INDEX

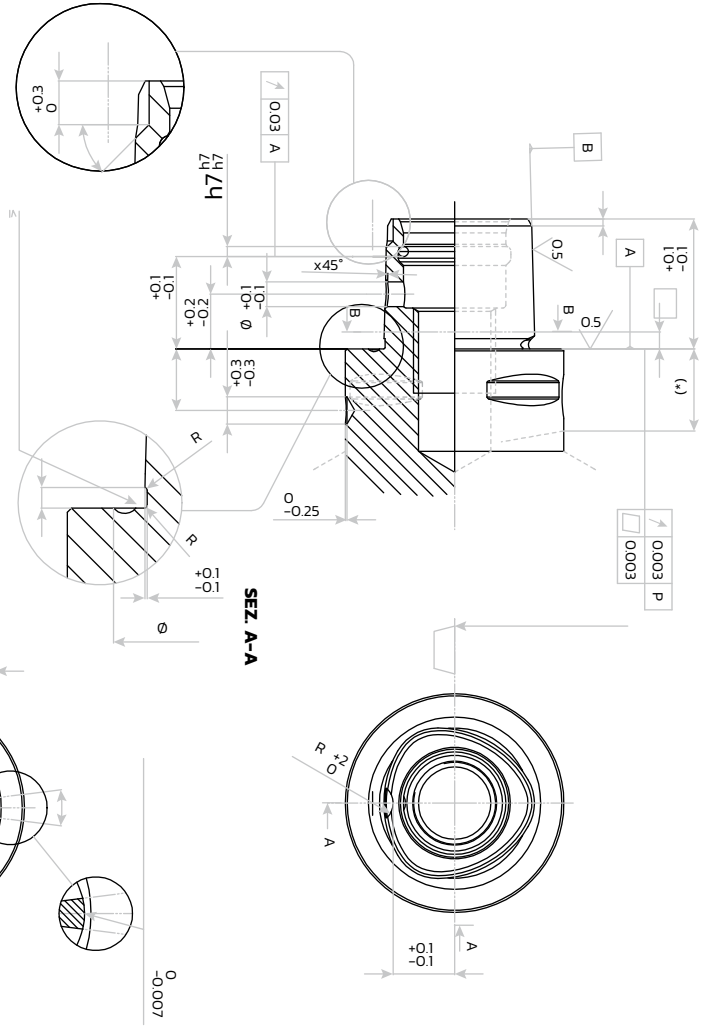
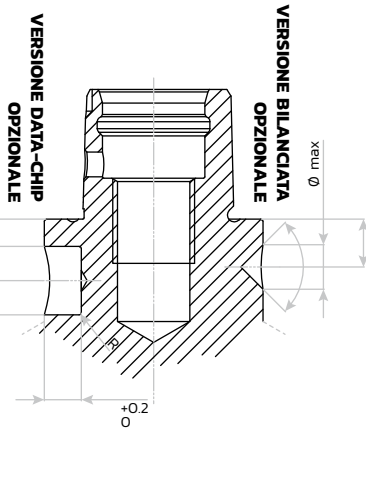
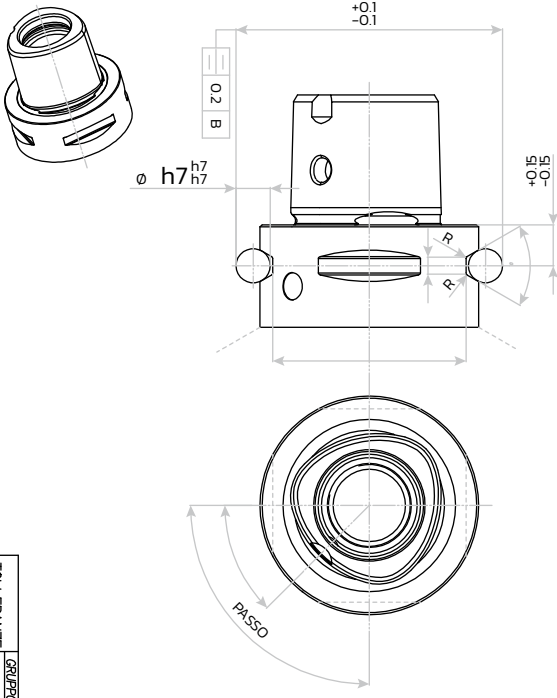


	RPSHS attacchi base HSK/A riduzione PSC modular basic holder HSK/A adaptor PSC	A 7
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	RPSBL attacco PSC adattatori barre tenere PSC holder adaptor blanks	A 10
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	RPSPM prolunghe PSC PSC extensions	A 12
	RPSRM riduzioni PSC PSC reductions	A 13
	RPSPF attacchi PSC adattatori portafrese PSC holder combined adaptor for side and face mills	A 14
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	RPSAL...C attacco PSC allargatori dal Ø51 al Ø165 - serie corta PSC holder boring tools for roughing from Ø51 to Ø165 - short version	A 21
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	RPSFM Testina micrometrica PSC PSC micrometric setting head	A 23



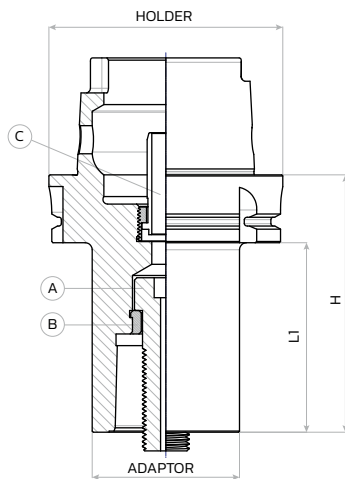
DIMENSIONI DI TORNTURA



(*) DIMENSIONE MINIMA PER LA VERSIONE FISSA

TOLLERANZE GENERALI	APPROXIMATIVE VALORI	SAESI: NON QUOTATI ALTRI: A5	RACCORDI: NON QUOTATI R6	CLASSE -M- LAVORAZIONE MEDIA
	GAPPO DI 2 DIMENSIONI (MM)	0 ± 6	> 6 -< 30	> 300 -< 2000
	PER QUOTE	± 0,2	> 30 -< 70	> 70 -< 400
		± 0,2	> 70 -< 100	> 400 -< 1000
		± 0,2	> 100 -< 150	> 1000 -< 2000
		± 0,2	> 150 -< 200	> 2000 -< 3000
		± 0,2	> 200 -< 250	> 3000 -< 4000
		± 0,2	> 250 -< 300	> 4000 -< 5000
		± 0,2	> 300 -< 350	> 5000 -< 6000
		± 0,2	> 350 -< 400	> 6000 -< 7000
		± 0,2	> 400 -< 450	> 7000 -< 8000
		± 0,2	> 450 -< 500	> 8000 -< 9000
		± 0,2	> 500 -< 550	> 9000 -< 10000
		± 0,2	> 550 -< 600	> 10000 -< 11000
		± 0,2	> 600 -< 650	> 11000 -< 12000
		± 0,2	> 650 -< 700	> 12000 -< 13000
		± 0,2	> 700 -< 750	> 13000 -< 14000
		± 0,2	> 750 -< 800	> 14000 -< 15000
		± 0,2	> 800 -< 850	> 15000 -< 16000
		± 0,2	> 850 -< 900	> 16000 -< 17000
		± 0,2	> 900 -< 950	> 17000 -< 18000
		± 0,2	> 950 -< 1000	> 18000 -< 19000
		± 0,2	> 1000 -< 1050	> 19000 -< 20000
		± 0,2	> 1050 -< 1100	> 20000 -< 21000
		± 0,2	> 1100 -< 1150	> 21000 -< 22000
		± 0,2	> 1150 -< 1200	> 22000 -< 23000
		± 0,2	> 1200 -< 1250	> 23000 -< 24000
		± 0,2	> 1250 -< 1300	> 24000 -< 25000
		± 0,2	> 1300 -< 1350	> 25000 -< 26000
		± 0,2	> 1350 -< 1400	> 26000 -< 27000
		± 0,2	> 1400 -< 1450	> 27000 -< 28000
		± 0,2	> 1450 -< 1500	> 28000 -< 29000
		± 0,2	> 1500 -< 1550	> 29000 -< 30000
		± 0,2	> 1550 -< 1600	> 30000 -< 31000
		± 0,2	> 1600 -< 1650	> 31000 -< 32000
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		± 0,2	> 1700 -< 1750	> 33000 -< 34000
		± 0,2	> 1750 -< 1800	> 34000 -< 35000
		± 0,2	> 1800 -< 1850	> 35000 -< 36000
		± 0,2	> 1850 -< 1900	> 36000 -< 37000
		± 0,2	> 1900 -< 1950	> 37000 -< 38000
		± 0,2	> 1950 -< 2000	> 38000 -< 39000
		± 0,2	> 2000 -< 2050	> 39000 -< 40000
		± 0,2	> 2050 -< 2100	> 40000 -< 41000
		± 0,2	> 2100 -< 2150	> 41000 -< 42000
		± 0,2	> 2150 -< 2200	> 42000 -< 43000
		± 0,2	> 2200 -< 2250	> 43000 -< 44000
		± 0,2	> 2250 -< 2300	> 44000 -< 45000
		± 0,2	> 2300 -< 2350	> 45000 -< 46000
		± 0,2	> 2350 -< 2400	> 46000 -< 47000
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		± 0,2	> 2500 -< 2550	> 49000 -< 50000
		± 0,2	> 2550 -< 2600	> 50000 -< 51000
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		± 0,2	> 2700 -< 2750	> 53000 -< 54000
		± 0,2	> 2750 -< 2800	> 54000 -< 55000
		± 0,2	> 2800 -< 2850	> 55000 -< 56000
		± 0,2	> 2850 -< 2900	> 56000 -< 57000
		± 0,2	> 2900 -< 2950	> 57000 -< 58000
		± 0,2	> 2950 -< 3000	> 58000 -< 59000
		± 0,2	> 3000 -< 3050	> 59000 -< 60000
		± 0,2	> 3050 -< 3100	> 60000 -< 61000
		± 0,2	> 3100 -< 3150	> 61000 -< 62000
		± 0,2	> 3150 -< 3200	> 62000 -< 63000
		± 0,2	> 3200 -< 3250	> 63000 -< 64000
		± 0,2	> 3250 -< 3300	> 64000 -< 65000
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		± 0,2	> 3350 -< 3400	> 66000 -< 67000
		± 0,2	> 3400 -< 3450	> 67000 -< 68000
		± 0,2	> 3450 -< 3500	> 68000 -< 69000
		± 0,2	> 3500 -< 3550	> 69000 -< 70000
		± 0,2	> 3550 -< 3600	> 70000 -< 71000
		± 0,2	> 3600 -< 3650	> 71000 -< 72000
		± 0,2	> 3650 -< 3700	> 72000 -< 73000
		± 0,2	> 3700 -< 3750	> 73000 -< 74000
		± 0,2	> 3750 -< 3800	> 74000 -< 75000
		± 0,2	> 3800 -< 3850	> 75000 -< 76000
		± 0,2	> 3850 -< 3900	> 76000 -< 77000
		± 0,2	> 3900 -< 3950	> 77000 -< 78000
		± 0,2	> 3950 -< 4000	> 78000 -< 79000
		± 0,2	> 4000 -< 4050	> 79000 -< 80000
		± 0,2	> 4050 -< 4100	> 80000 -< 81000
		± 0,2	> 4100 -< 4150	> 81000 -< 82000
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		± 0,2	> 4200 -< 4250	> 83000 -< 84000
		± 0,2	> 4250 -< 4300	> 84000 -< 85000
		± 0,2	> 4300 -< 4350	> 85000 -< 86000
		± 0,2	> 4350 -< 4400	> 86000 -< 87000
		± 0,2	> 4400 -< 4450	> 87000 -< 88000
		± 0,2	> 4450 -< 4500	> 88000 -< 89000
		± 0,2	> 4500 -< 4550	> 89000 -< 90000
		± 0,2	> 4550 -< 4600	> 90000 -< 91000
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		± 0,2	> 4750 -< 4800	> 94000 -< 95000
		± 0,2	> 4800 -< 4850	> 95000 -< 96000
		± 0,2	> 4850 -< 4900	> 96000 -< 97000
		± 0,2	> 4900 -< 4950	> 97000 -< 98000
		± 0,2	> 4950 -< 5000	> 98000 -< 99000
		± 0,2	> 5000 -< 5050	> 99000 -< 100000

		MISURE DI RISCONTRO		DUREZZA RICHIESTA 2 42 HRC	
				FORZA DI SERRAGGIO 15 KN	
5					
4					
3					
2					
1					
Pos	Descrizione	Quant	Intervista	Dim. Gruppo	Protezione di Gruppo/Note
1					
C.C.A.					
		posti da lavorare dis.		data TRILORATO 1502623-1 PSC32 CAL/1 D'isegno N.	
costruzione utensili		Denominazione UTENSILE MANUALE A AUTOMATICO		Data 21/11	
				PAU 43492	



SLOT FOR BALLUFF

HSK-A
DIN 69893

WITH COOLANT

RPSHS

attacchi base HSK/A riduzione PSC | modular basic holder HSK/A adaptor PSC

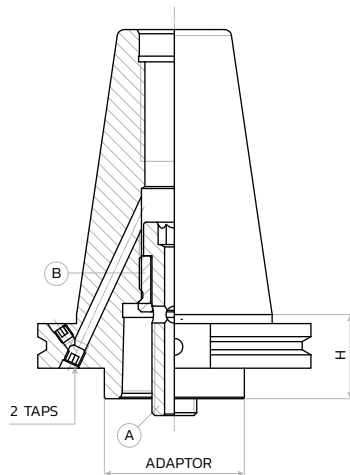
	DIMENSIONI - DIMENSIONS				PARTI DI RICAMBIO - SPARE PARTS				ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	L1	H	A 	B 	C 	RAP0004*		
RPSHS63P3275	HSK 63/A	PSC 32	49	75	RMV0031  8	RMG0008			RAF0017*	SRCOM57748*
RPSHS63P4080	HSK 63/A	PSC 40	54	80	RMV0030  8	RMG0007			RAF0017*	SRCOM57748*
RPSHS63P5090	HSK 63/A	PSC 50	64	90	RMV0029  10	RMG0001			RAF0017*	SRCOM3549*
RPSHS63P63110	HSK 63/A	PSC 63	84	110	RMV0032  10	RMG0006		RAF0017*	SRCOM3549*	
RPSHS100P50100	HSK 100/A	PSC 50	71	100	RMV0029  10	RMG0001	RAP0005*	RAF0018*	SRCOM3549*	
RPSHS100P63110	HSK 100/A	PSC 63	81	110	RMV0032  10	RMG0006		RAF0018*	SRCOM3549*	
RPSHS100P80120	HSK 100/A	PSC 80	91	120	RMV0032  10	RMG0006		RAF0018*	SRCOM3549*	

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



SLOT FOR BALLUFF

DIN69871 AD/B

WITH COOLANT

RPS69

Nota: Avvitando completamente i 2 tappi si trasforma in DIN69871/A | Note: with caps completely screwed, holder becomes DIN69871/A
Nota: Versione "doppio contatto" a richiesta - Note: double contact version on request

attacchi base DIN 69871 AD/B riduzione PSC | modular basic holder DIN 69871 AD/B adaptor PSC

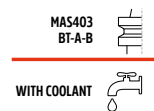
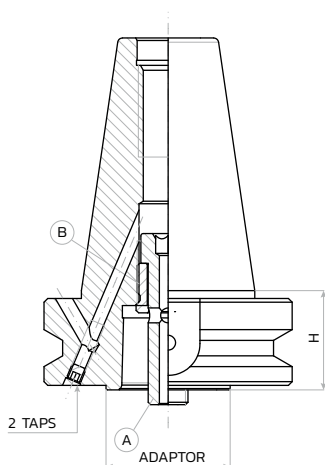
	DIMENSIONI - DIMENSIONS			PARTI DI RICAMBIO - SPARE PARTS				ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	H	A	B				
RPS6940P3230	ISO 40	PSC 32	30	RMV0031	8	RMG0008	-	-	SRCOM57748*
RPS6940P4030	ISO 40	PSC 40	30	RMV0030	8	RMG0007	-	-	SRCOM57748*
RPS6940P5030	ISO 40	PSC 50	30	RMV0029	10	RMG0001	-	-	SRCOM3549*
RPS6940P6385	ISO 40	PSC 63	85	RMV0033	10	RMG0002	-	-	SRCOM3549*
RPS6950P5030	ISO 50	PSC 50	30	RMV0029	10	RMG0001	-	-	SRCOM3549*
RPS6950P6330	ISO 50	PSC 63	30	RMV0027	14	RMG0002	-	-	SRCOM3549*
RPS6950P8070	ISO 50	PSC 80	70	RMV0027	14	RMG0002	-	-	SRCOM3549*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSBT

Nota: Avvitando completamente i 2 tappi si trasforma in MAS BT/A | Note: with caps completely screwed, holder becomes MAS BT/A
Nota: Versione "doppio contatto" a richiesta - Note: double contact version on request

attacchi base MAS BT AD/B riduzione PSC | modular basic holder MAS BT AD/B adaptor PSC

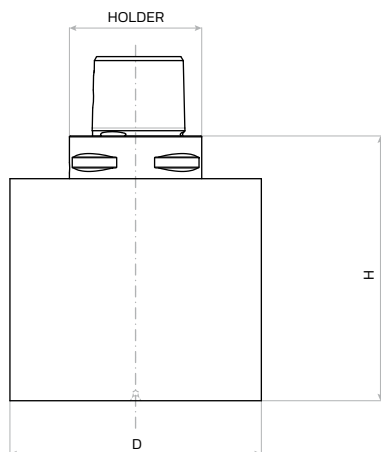
	DIMENSIONI - DIMENSIONS			PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	H	A	B			
RPSBT40P3230	BT 40	PSC 32	30	RMV0031	8	RMG0008	-	SRCOM57748*
RPSBT40P4030	BT 40	PSC 40	30	RMV0030	8	RMG0007	-	SRCOM57748*
RPSBT40P5030	BT 40	PSC 50	30	RMV0029	10	RMG0001	-	SRCOM3549*
RPSBT40P6375	BT 40	PSC 63	75	RMV0033	10	RMG0002	-	SRCOM3549*
RPSBT50P5040	BT 50	PSC 50	40	RMV0029	10	RMG0001	-	SRCOM3549*
RPSBT50P6340	BT 50	PSC 63	40	RMV0027	14	RMG0002	-	SRCOM3549*
RPSBT50P8070	BT 50	PSC 80	70	RMV0027	14	RMG0002	-	SRCOM3549*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSBL

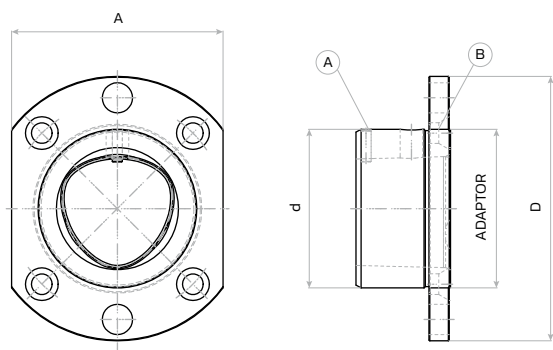
attacco PSC adattatori barre tenere | PSC holder adaptor blanks

	DIMENSIONI - DIMENSIONS			PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	D	H					
RPSBL3255100	PSC 32	55	100	-	-	-	-	-
RPSBL4055100	PSC 40	55	100	-	-	-	-	-
RPSBL5075175	PSC 50	75	175	-	-	-	-	-
RPSBL5095150	PSC 50	95	150	-	-	-	-	-
RPSBL6363180	PSC 63	63	180	-	-	-	-	-
RPSBL6388192	PSC 63	88	192	-	-	-	-	-
RPSBL80120160	PSC 80	120	160	-	-	-	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSD

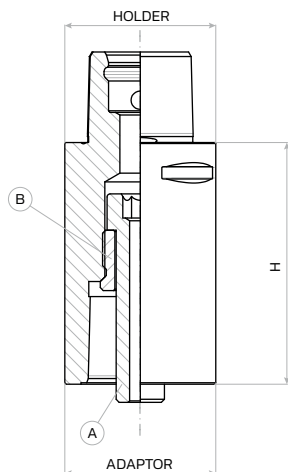
Flangia PSC | PSC adaptor

	DIMENSIONI - DIMENSIONS				PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	riduzione reduction	d	D	A	A 	B 		
RPSD40EPS40	PSC40	40	66,5	47,5	RQ00003	RUV0226	-	-
RPSD50EPS50	PSC50	50	81,5	63	RQ00004	RUV0075	-	-
RPSD63EPS63	PSC63	63	105	84	RQ00005	TSCE M8X20 60° D.13	-	-
RPSD80EPS80	PSC80	80	133	100	RQ00006	TSCE M10X20 60° D.15	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSPM

prolunghe PSC | PSC extensions

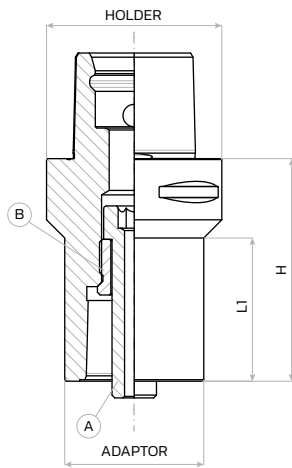
	DIMENSIONI - DIMENSIONS			PARTI DI RICAMBIO - SPARE PARTS				ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	H	A 	B 				
RPSPM323260	PSC 32	PSC 32	60	RMV0031 	8	RMG0008	-	-	SRCOM57748*
RPSPM404080	PSC 40	PSC 40	80	RMV0030 	8	RMG0007	-	-	SRCOM57748*
RPSPM505050	PSC 50	PSC 50	50	RMV0034* 	10	-	-	-	SRCOM3549*
RPSPM5050100	PSC 50	PSC 50	100	RMV0028 	10	RMG0001	-	-	SRCOM3549*
RPSPM636360	PSC 63	PSC 63	60	RMV0035* 	10	-	-	-	SRCOM3549*
RPSPM6363100	PSC 63	PSC 63	100	RMV0033 	10	RMG0002	-	-	SRCOM3549*
RPSPM6363140	PSC 63	PSC 63	140	RMV0033 	10	RMG0002	-	-	SRCOM3549*
RPSPM808065	PSC 80	PSC 80	65	RMV0036* 	10	-	-	-	SRCOM3549*
RPSPM8080100	PSC 80	PSC 80	100	RMV0033 	10	RMG0002	-	-	SRCOM3549*
RPSPM8080150	PSC 80	PSC 80	150	RMV0033 	10	RMG0002	-	-	SRCOM3549*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSRM

riduzioni PSC | PSC reductions

	DIMENSIONI - DIMENSIONS			
	attacco holder	riduzione adaptor	L1	H
RPSRM403255	PSC 40	PSC 32	31	55
RPSRM503260	PSC 50	PSC 32	34.8	60
RPSRM504065	PSC 50	PSC 40	40	65
RPSRM635080	PSC 63	PSC 50	51.5	80
RPSRM806380	PSC 80	PSC 63	53.1	80

* Forniti su richiesta - Supplied on request

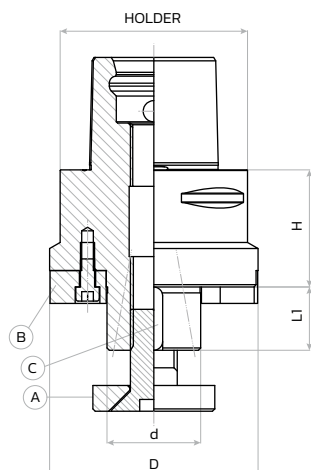
PARTI DI RICAMBIO - SPARE PARTS			
A		B	
RMV0031	8	RMG0008	
RMV0031	8	RMG0008	
RMV0030	8	RMG0007	
RMV0028	10	RMG0001	
RMV0027	14	RMG0002	

ACCESSORI - ACCESSORIES	
-	SRCOM57748*
-	SRCOM57748*
-	SRCOM57748*
-	SRCOM3549*
-	SRCOM3549*

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



DIN6357



WITH COOLANT



RPSPF

attacchi PSC adattatori portafrese | PSC holder combined adaptor for side and face mills

	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	d	D	L1	H	A	B	C		
RPSPF321632	PSC 32	16	32	17	32	RAV0009	RAT0005**	RMH0017	RAF0011*	-
RPSPF401632	PSC 40	16	32	17	32	RAV0009	RAT0005**	RMH0017	RAF0011*	-
RPSPF402225	PSC 40	22	40	19	25	RAV0008	RMH0004	RMH0018	RAF0014*	-
RPSPF502225	PSC 50	22	48	19	25	RAV0008	RMH0004	RMH0018	RAF0014*	-
RPSPF502725	PSC 50	27	58	21	25	RAV0004	RMH0001	RMH0019	RAF0007*	-
RPSPF503240	PSC 50	32	63	24	40	RAV0005	RMH0006	RMH0020	RAF0008*	-
RPSPF632240	PSC 63	22	55	19	40	RAV0008	RMH0004	RMH0018	RAF0014*	-
RPSPF632725	PSC 63	27	63	21	25	RAV0004	RMH0001	RMH0019	RAF0007*	-
RPSPF633225	PSC 63	32	63	24	25	RAV0005	RMH0006	RMH0020	RAF0008*	-
RPSPF802250	PSC 80	22	48	19	50	RAV0008	RMH0004	RMH0018	RAF0014*	-
RPSPF802750	PSC 80	27	65	21	50	RAV0004	RMH0001	RMH0019	RAF0007*	-
RPSPF803230	PSC 80	32	79	24	30	RAV0005	RMH0006	RMH0020	RAF0008*	-
RPSPF804030***	PSC 80	40	89	27	30	RAV0006	RMH0002	RMH0022	RAF0009*	-
RPSPF806065***	PSC 80	60	129	29	65	RAV0023	RMH0011	-	RAF0020*	-

* Forniti su richiesta - Supplied on request

**anello di trascinamento DIN6358 - face mill drive ring DIN6358

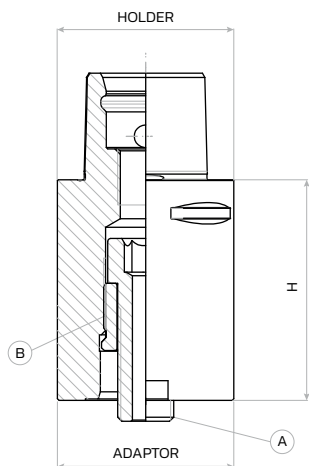
***con fissaggio 4 fori - 4 screws fixing

NOTA: versione con passaggio refrigerante a richiesta / NOTE: whit colant on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



NEW



RPSAM

Attacchi PSC riduzione modulare | PSC holder adaptor modular

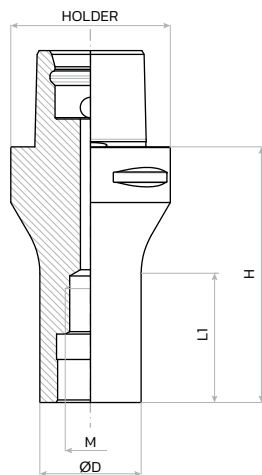
	DIMENSIONI - DIMENSIONS			PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	attacco holder	adattatore adaptor	H	A 	B 		
RPSAM50AM50100	PSC 50	AM 50	100	RMV0001  10	RMG0001	-	SRCOM3549*
RPSAM63AM63100	PSC 63	AM 63	100	RMV0002  14	RMG0002	-	SRCOM3549*
RPSAM80AM80100	PSC 80	AM 80	100	RMV0002  14	RMG0002	-	SRCOM3549*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSFG

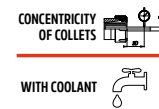
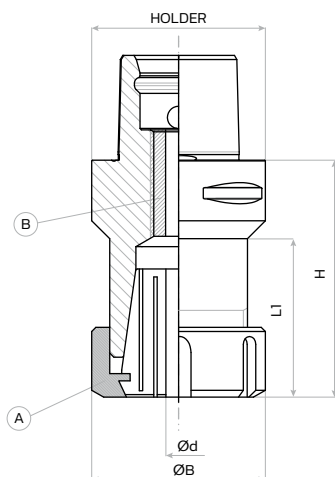
attacco PSC adattatori portafrese con attacco filettato |
PSC holder milling cutter holders with threaded shank adapters

	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	D	L1	H					
RPSFG32M0840	PSC 32	M8	12.8	13.5	40	-	-	-	-	-
RPSFG32M1040	PSC 32	M10	17.8	16	40	-	-	-	-	-
RPSFG32M1240	PSC 32	M12	20.8	17.5	40	-	-	-	-	-
RPSFG32M1640	PSC 32	M16	28.8	23	40	-	-	-	-	-
RPSFG40M1650	PSC 40	M16	28.8	23	50	-	-	-	-	-
RPSFG50M1650	PSC 50	M16	28.8	23	50	-	-	-	-	-
RPSFG63M1660	PSC 63	M16	28.8	25	60	-	-	-	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



Escluso pinza elastica - collets not included

RPSER

attacco PSC adattatori portapinze DIN 6499 | PSC holder chuck adaptors DIN 6499

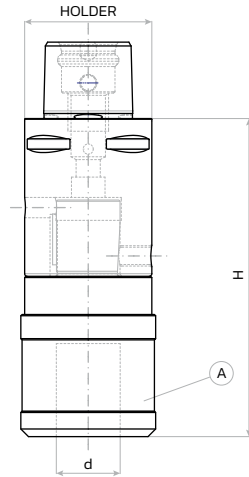
	DIMENSIONI - DIMENSIONS						PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	d	B	L1	H	A 	B 		
RPSE3220M60	PSC 32	ER MINI 20	1-13	28	39	60	EGM0004	-	ECM0004*	-
RPSE3225M65	PSC 32	ER MINI 25	1-16	35	44	65	EGM0005	-	ECM0009*	-
RPSE4025M70	PSC 40	ER MINI 25	1-16	35	32	70	EGM0005	-	ECM0009*	-
RPSE503260	PSC 50	ER 32	2-20	50	-	60	EGS0001	RAN0021  8	ECS0003*	-
RPSE633260	PSC 63	ER 32	2-20	50	40	60	EGS0001	RAN0021  8	ECS0003*	-
RPSE634070	PSC 63	ER 40	3-30	63	-	70	EGS0004	RAN0022  10	ECS0004*	-
RPSE803270	PSC 80	ER 32	2-20	50	45	70	EGS0001	RAN0021  8	ECS0003*	-
RPSE804070	PSC 80	ER 40	3-30	63	45	70	EGS0004	RAN0022  10	ECS0004*	-

*forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSMA

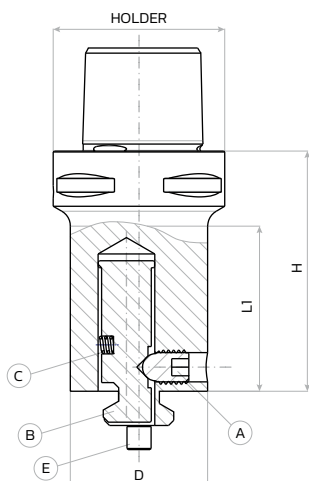
attacco PSC per maschiatura con compensazione | PSC holder tapping chuck adaptors with compensation

	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	attacco holder	H	d	capacità capacity	compensaz. compens.	A 			
RPSMA501983	PSC 50	83	19	M3 - M12	±7.5	APM0015	-	-	-
RPSMA5031125	PSC 50	125	31	M8 - M20	±12.5	APM0014	-	-	-
RPSMA631988	PSC 63	88	19	M3 - M12	±7.5	APM0015	-	-	-
RPSMA6331125	PSC 63	125	31	M8 - M20	±12.5	APM0014	-	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSPT

attacco PSC adattatori porta testine | PSC holder adaptor for boring heads

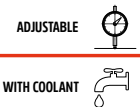
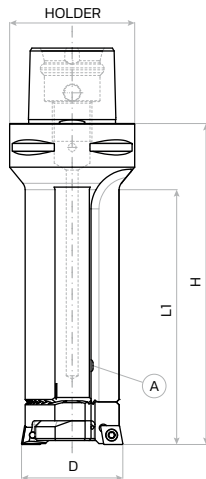
	DIMENSIONI - DIMENSIONS				PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES	
	attacco holder	porta testine (D) tool holder head (D)	L1	H	A	B	C	E		
RPSPT502582	PSC 50	25	55.5	82	CASA0034	RMCO001	RMCO009	RMCO007	-	-
RPSPT503276	PSC 50	32	51.5	76	CASA0034	RMCO002	RMCO010	RMCO007	-	-
RPSPT504070	PSC 50	40	48	70	CASA0010	RMCO003	RMCO010	RMCO008	-	-
RPSPT505060	PSC 50	50	-	60	CASA0025	RMCO004	RMCO011	RMCO008	-	-
RPSPT633276	PSC 63	32	45	76	CASA0034	RMCO002	RMCO010	RMCO007	-	-
RPSPT634070	PSC 63	40	41.5	70	CASA0010	RMCO003	RMCO010	RMCO008	-	-
RPSPT635060	PSC 63	50	34.5	60	CASA0025	RMCO004	RMCO011	RMCO008	-	-
RPSPT636387	PSC 63	63	-	87	CASA0026	RMCO005	RMCO011	RMCO008	-	-
RPSPT808070	PSC 80	80	-	70	CASA0026	RMCO012	RMCO011	RMCO008	-	-

Nota: per testine v. pag A 48-49 | for heads see pagg. A 48-49

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSAL

attacco PSC allargatori dal Ø18 al Ø165 | PSC holder boring tools for roughing from Ø18 to Ø165

Gli allargatori sono forniti completi di cartucce e piastra di fissaggio
Boring tools are supplied assembled with cartridges and clamping plate

	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	attacco holder	D min-max	L1	H		A			
RPSAL321822	PSC 32	18 - 22	49	70	CC..0602	-	AMCA061822	-	-
RPSAL322125	PSC 32	21 - 25	52	76	CC..0602	-	AMCA062125	-	-
RPSAL322432	PSC 32	24 - 32	61	82	CC..0602	-	AMCA062432	SRCOM7625	AMCA062432M*
RPSAL323041	PSC 32	30 - 41	60	81	CC..0602	-	AMCA063041	SRCOM7622	AMCA063041M*
RPSAL402432	PSC 40	24 - 32	62	88	CC..0602	-	AMCA062432	SRCOM7625	AMCA062432M*
RPSAL403041	PSC 40	30 - 41	74	100	CC..0602	-	AMCA063041	SRCOM7622	AMCA063041M*
RPSAL403953	PSC 40	39 - 53	80	120	CC..09T3	CAF0014	AMCA093953	SRCOM7619	AMCA093953M*
RPSAL502432	PSC 50	24 - 32	70	100	CC..0602	-	AMCA062432	SRCOM7625	AMCA062432M*
RPSAL503041	PSC 50	30 - 41	90	120	CC..0602	-	AMCA063041	SRCOM7622	AMCA063041M*
RPSAL503953	PSC 50	39 - 53	110	140	CC..09T3	CAF0014	AMCA093953	SRCOM7619	AMCA093953M*
RPSAL505171	PSC 50	51 - 71	-	100	CC..09T3	CAF0014	AMCA095171	SRCOM7614	AMCA095171M*
RPSAL635171	PSC 63	51 - 71	128	160	CC..09T3	CAF0014	AMCA095171	SRCOM7614	AMCA095171M*
RPSAL636491	PSC 63	64 - 91	-	170	CC..1204**	CAF0015	AMCA126491	SRCOM7602	AMCA126491M*
RPSAL8083124	PSC 80	83 - 124	-	170	CC..1204**	CAF0016	AMCA1283124	SRCOM7446	AMCA1283124M*
RPSAL80109165	PSC 80	109 - 165	-	175	CC..1204**	CAF0016	AMCA12109165	SRCOM7442	AMCA12109165M*

* A richiesta - On request

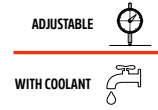
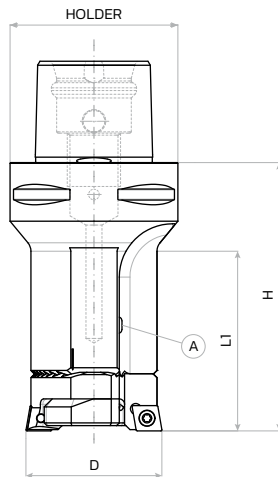
** Con sottoplachetta - With shim

Nota: per parti di ricambio v. pag A 54; per accessori v. pag. A 53 - for spare parts see pag. A 54; for accessories see pag. A 53

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSAL...C

attacco PSC allargatori dal Ø51 al Ø165 - serie corta |

PSC holder boring tools for roughing from Ø51 to Ø165 - short version

Gli allargatori sono forniti completi di cartucce e piastra di fissaggio
Boring tools are supplied assembled with cartridges and clamping plate

	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	attacco holder	D min-max	L1	H		A			
RPSAL635171C	PSC 63	51 - 71	67	100	CC..09T3	CAF0014	AMCA095171	SRCOM7614	AMCA095171M*
RPSAL636491C	PSC 63	64 - 91	-	100	CC..1204**	CAF0015	AMCA126491	SRCOM7602	AMCA126491M*
RPSAL8083124C	PSC 80	83 - 124	-	100	CC..1204**	CAF0016	AMCA1283124	SRCOM7446	AMCA1283124M*
RPSAL80109165C	PSC 80	109 - 165	-	100	CC..1204**	CAF0016	AMCA12109165	SRCOM7442	AMCA12109165M*

* A richiesta - On request

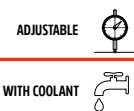
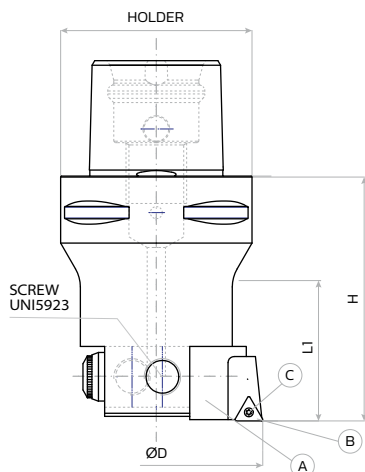
** Con sottoplachetta - With shim

Nota: per parti di ricambio v. pag A 54; per accessori v. pag. A 53 - for spare parts see pag. A 54; for accessories see pag. A 53

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSBA

attacco PSC bareni finitori dal Ø20 al Ø112 | PSC holder fine boring tools from Ø20 to Ø112

Attenzione: l'unità micro deve essere ordinata separatamente (vedi pag. B 35)
Please note: the micro bore must be ordered separately (see pag. B 35)

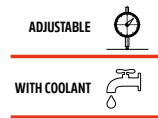
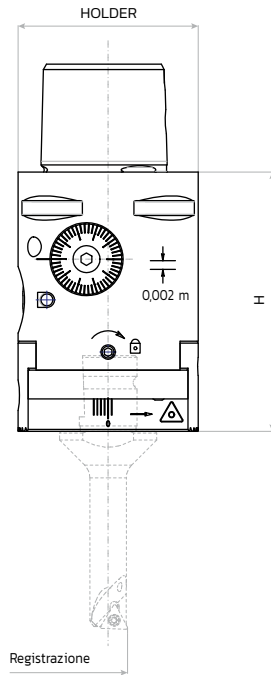
	DIMENSIONI - DIMENSIONS				INSERT	MICRO BORE	PARTI DI RICAMBIO - SPARE PARTS		ACCESSORIES
	attacco holder	D min-max	L1	H	B	A	C		
RPSBA322026*	PSC 32	20 - 26	55	76	TP..0802L	UIPBF10075	RUV0065	-	RFE0009
RPSBA322634*	PSC 32	26 - 34	70	91	TP..0802L	UIPBF10076	RUV0065	-	RFE0009
RPSBA323042	PSC 32	30 - 42	85	106	TB..0601L	UIPBF10073	RUV0005	-	RFE0009
RPSBA404152	PSC 40	41 - 52	-	50	TB..0601L	UIPBF10074	RUV0005	-	RFE0009
RPSBA505173	PSC 50	51 - 73	-	70	TP..0802L	UIPBF10015	RUV0065	-	RFE0009
RPSBA636489	PSC 63	64 - 89	-	70	TP..0802L	UIPBF10065	RUV0065	-	RFE0009
RPSBA8087112	PSC 80	87 - 112	-	100	TP..1103L	UIPBF10066	RFV0090	-	RFE0011

* Unità micro installata assialmente - The micro unit is installed axially

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



RPSFM

Testina micrometrica PSC | PSC micrometric setting head

	DIMENSIONI - DIMENSIONS					INSERT	MICRO BORE	SPARE PARTS		ACCESSORIES	
	attacco holder	registrazione setting	H	kg	L1						
RPSFM0001	PSC 50	+ 4 mm radiali	72.5	1.3	-	-	-	-	-	CAXCB0054	CAXCB0046

Nota: per accessori v. pag A 58-59 - for accessories see pag. A 58-59

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

BARENI SPECIALI

CUSTOMIZED BORING TOOLS



ATTREZZATURE MODULARI

MODULAR EQUIPMENT

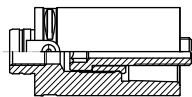


INDICE FIGURATO MODULARE

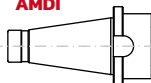
MODULAR FIGURATIVE INDEX

AMRPS

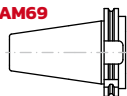
NEW



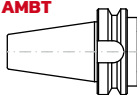
AMDI



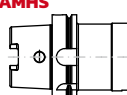
AM69



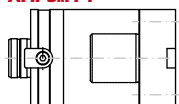
AMBT



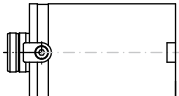
AMHS



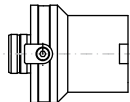
AMPS..M-F



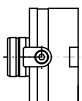
AMPM



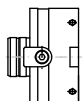
AMRM



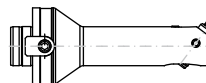
AMPM



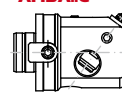
AMRR



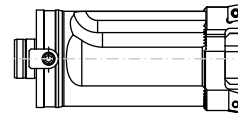
AMBA



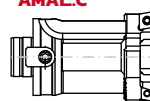
AMBA..C



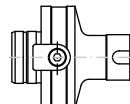
AMAL



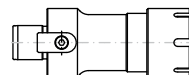
AMAL..C



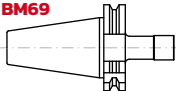
BMRM



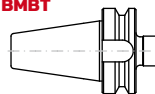
BMER



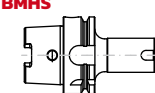
BM69



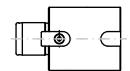
BMBT



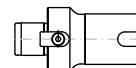
BMHS



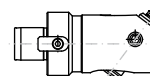
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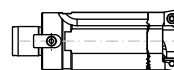
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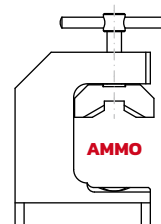
BMBA

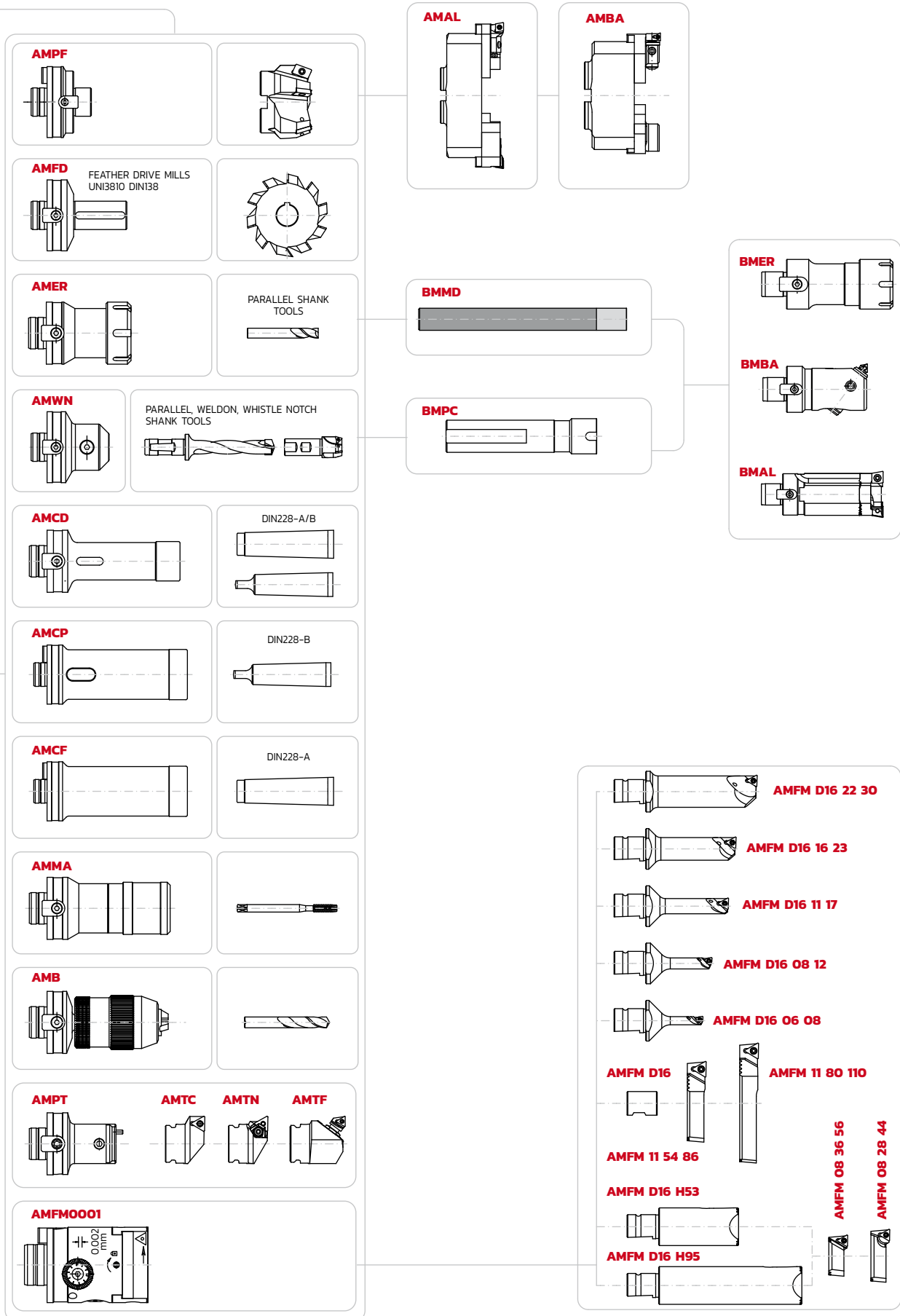


BMAL



AMMO





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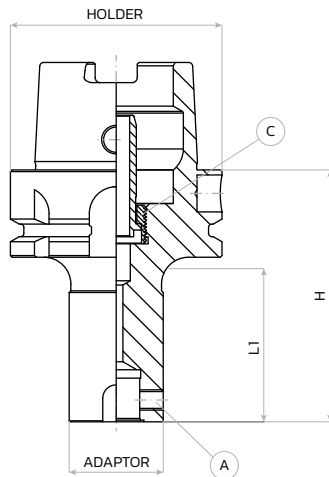
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SLOT FOR BALLUFF

HSK-A
DIN 69893

WITH COOLANT

BMHS

attacchi base HSK63/A riduzione modulare mini | modular basic holders HSK63/A - mini

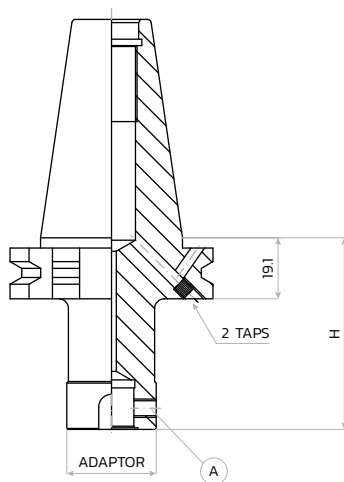
	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor	L1	H	kg
BMHS63M1870	HSK 63/A	Mini Ø18	44	70	0,90
BMHS63M2270	HSK 63/A	Mini Ø22	44	70	0,90
BMHS63M2875	HSK 63/A	Mini Ø28	49	75	1,00
BMHS63M3575	HSK 63/A	Mini Ø35	49	75	1,10

PARTI DI RICAMBIO - SPARE PARTS			
A			C
RMM0001	2,5	-	RAP0004*
RMM0002	2,5	-	RAP0004*
RMM0003	3	-	RAP0004*
RMM0004	4	-	RAP0004*

ACCESSORI - ACCESSORIES

RAF0017*	-
RAF0017*	-
RAF0017*	-
RAF0017*	-

* Forniti su richiesta - Supplied on request



DIN69871
AD/B

WITH COOLANT

BM69

Nota: avvitando completamente i 2 tappi si trasforma l'attacco in DIN 69871/A - Note: with caps completely screwed, holder becomes DIN69871/A
Nota: versione "doppio contatto" a richiesta - Note: double contact version on request

attacchi base DIN 69871/40 AD/B riduzione modulare mini | modular basic holders DIN 69871/40 AD/B - mini

	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor	H	kg	
BM6940M1855B	40	Mini Ø18	55	1,00	
BM6940M2250B	40	Mini Ø22	50	1,00	
BM6940M2860B	40	Mini Ø28	60	1,10	
BM6940M3560B	40	Mini Ø35	60	1,20	

PARTI DI RICAMBIO - SPARE PARTS			
A			
RMM0001	2,5	-	-
RMM0002	2,5	-	-
RMM0003	3	-	-
RMM0004	4	-	-

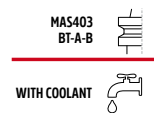
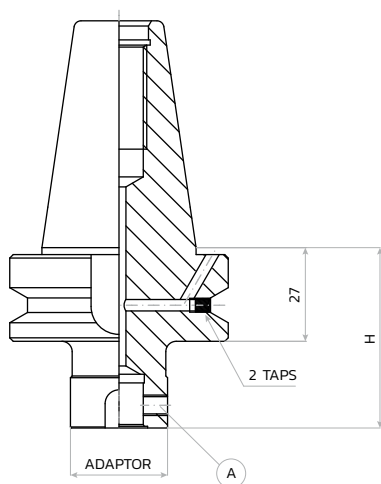
ACCESSORI - ACCESSORIES

-	-
-	-
-	-
-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

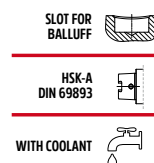
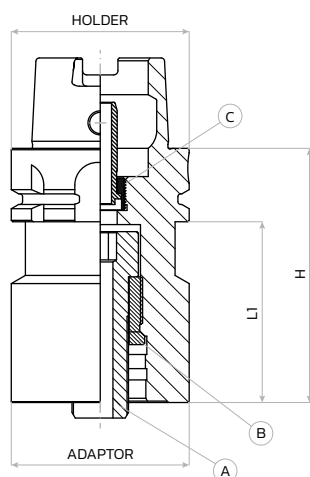


BMBT

attacchi base MAS BT/40 AD/B riduzione modulare mini | modular basic holders MAS BT/40 AD/B - mini

Nota: avvitando completamente i 2 tappi si trasforma l'attacco in BT/A - Note: with caps completely screwed, holder becomes BT/A
Nota: versione "doppio contatto" a richiesta - Note: double contact version on request

	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor		H	kg	A				
BMBT40M1847B	BT 40	Mini Ø18	-	47	1,10	RMM0001	2,5	-	-	-
BMBT40M2242B	BT 40	Mini Ø22	-	42	1,10	RMM0002	2,5	-	-	-
BMBT40M2852B	BT 40	Mini Ø28	-	52	1,20	RMM0003	3	-	-	-
BMBT40M3552B	BT 40	Mini Ø35	-	52	1,20	RMM0004	4	-	-	-



AMHS

attacchi base HSK/A riduzione modulare | modular basic holders HSK/A

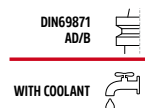
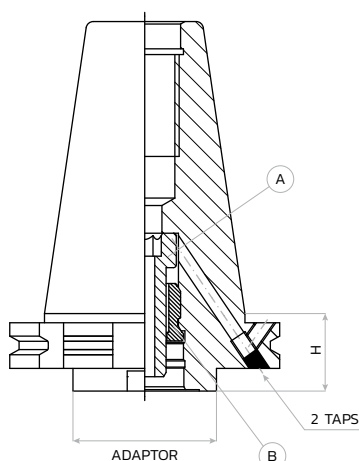
	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	L1	H	kg	A	B	C		
AMHS63M5075	HSK 63/A	Ø50	49	75	1,4	RMV0001	10	RMG0004	RAP0004*	RAF0017*
AMHS63M6390	HSK 63/A	Ø63	64	90	2,0	RMV0003	10	RMG0002	RAP0004*	RAF0017*
AMHS100M5080	HSK 100/A	Ø50	51	80	2,7	RMV0001	10	RMG0004	RAP0005*	RAF0018*
AMHS100M6390	HSK 100/A	Ø63	61	90	3,3	RMV0020	10	RMG0005	RAP0005*	RAF0018*
AMHS100M8090	HSK 100/A	Ø80	61	90	4,1	RMV0020	10	RMG0005	RAP0005*	RAF0018*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



AM69

attacchi base DIN 69871 AD/B | modular basic holders DIN 69871 AD/B

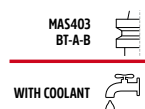
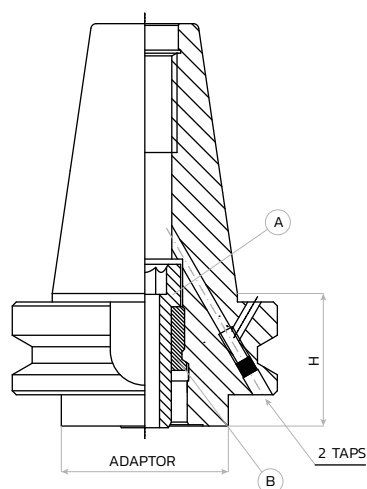
Nota: avvitando completamente i 2 tappi si trasforma l'attacco in DIN 69871/A - Note: with caps completely screwed, holder becomes DIN69871/A
Nota: versione "doppio contatto" a richiesta - Note: double contact version on request

	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor		H	kg
AM6940M5027B	40	Ø50	-	27	0,80
AM6940M6350B	40	Ø63	-	50	1,20
AM6950M5027B	50	Ø50	-	27	2,60
AM6950M6327B	50	Ø63	-	27	2,70
AM6950M8027B	50	Ø80	-	27	3,60

PARTI DI RICAMBIO - SPARE PARTS			
A		B	
RMV0001	10	RMG0001	-
RMV0003	10	RMG0002	-
RMV0001	10	RMG0001	-
RMV0002	14	RMG0002	-
RMV0002	14	RMG0002	-

ACCESSORI - ACCESSORIES	
	SRCOM3549*
	SRCOM3549*
	SRCOM3549*
	SRCOM3549*
	SRCOM3549*

* Forniti su richiesta - Supplied on request



AMBT

attacchi base MAS BT AD/B | modular basic holders MAS BT AD/B

Nota: avvitando completamente i 2 tappi si trasforma l'attacco in BT/A - Note: with caps completely screwed, holder becomes BT/A
Nota: versione "doppio contatto" a richiesta - Note: double contact version on request

	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor		H	kg
AMBT40M5050B	40	Ø50	-	50	1,30
AMBT40M6350B	40	Ø63	-	50	1,50
AMBT50M5050B	50	Ø50	-	50	3,80
AMBT50M6350B	50	Ø63	-	50	3,80
AMBT50M8050B	50	Ø80	-	50	3,80

PARTI DI RICAMBIO - SPARE PARTS			
A		B	
RMV0001	10	RMG0001	-
RMV0003	10	RMG0002	-
RMV0001	10	RMG0001	-
RMV0002	14	RMG0002	-
RMV0002	14	RMG0002	-

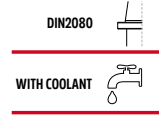
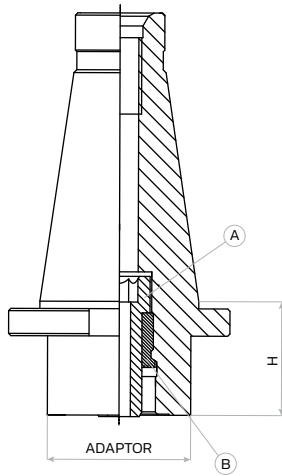
ACCESSORI - ACCESSORIES	
	SRCOM3549*
	SRCOM3549*
	SRCOM3549*
	SRCOM3549*
	SRCOM3549*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



AMDI

attacchi base DIN 2080 | modular basic holders DIN 2080

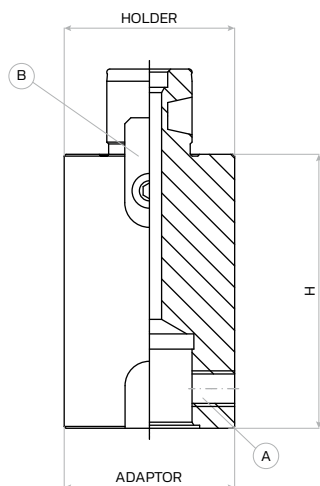
	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor		H	kg	A		B		
AMDI40M5050	40	Ø50	-	50	1,30	RMV0001	10	RMG0001	-	SRCOM3549*
AMDI40M6350	40	Ø63	-	50	1,60	RMV0003	10	RMG0002	-	SRCOM3549*
AMDI50M5050	50	Ø50	-	50	3,20	RMV0001	10	RMG0001	-	SRCOM3549*
AMDI50M6350	50	Ø63	-	50	3,40	RMV0002	14	RMG0002	-	SRCOM3549*
AMDI50M8050	50	Ø80	-	50	3,90	RMV0002	14	RMG0002	-	SRCOM3549*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



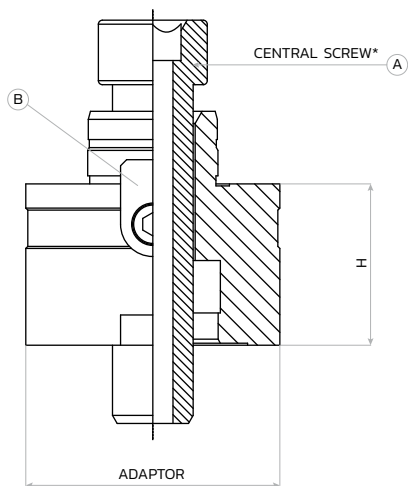
WITH COOLANT

BMPM

prolunghe modulari mini | modular mini extension adaptors

	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor		H	kg
BMPMM181825	mini Ø18	mini Ø18	-	25	0,10
BMPMM181835	mini Ø18	mini Ø18	-	35	0,10
BMPMM222225	mini Ø22	mini Ø22	-	25	0,10
BMPMM222235	mini Ø22	mini Ø22	-	35	0,15
BMPMM282830	mini Ø28	mini Ø28		30	0,20
BMPMM282845	mini Ø28	mini Ø28		45	0,25
BMPMM353540	mini Ø35	mini Ø35		40	0,30
BMPMM353560	mini Ø35	mini Ø35	-	60	0,40

PARTI DI RICAMBIO - SPARE PARTS				ACCESSORI - ACCESSORIES	
A		B			
RMM0001	Ø 2,5	-	-	-	-
RMM0001	Ø 2,5	-	-	-	-
RMM0002	Ø 2,5	-	-	-	-
RMM0002	Ø 2,5	-	-	-	-
RMM0003	Ø 3	RMH0012	-	-	-
RMM0003	Ø 3	RMH0012	-	-	-
RMM0004	Ø 4	RMH0013	-	-	-
RMM0004	Ø 4	RMH0013	-	-	-



WITH COOLANT

AMPM

estensioni modulari | modular extensions

Questi intermedi si possono montare su qualsiasi attacco base, parti intermedie o adattatori modulari. Sostituendo la vite centrale con la vite prolungata relativa.
These adaptors can be assembled with any others basic holder, extension or reduction by replacing the internal screw with the screw extended relative.

	DIMENSIONI-DIMENSIONS			
	attacco holder	riduzione adaptor	H	kg
AMPMM505030	50	Ø50	30	0,50
AMPMM636340	63	Ø63	40	1,00
AMPMM808040	80	Ø80	40	1,50

PARTI DI RICAMBIO-SPARE PARTS					ACCESSORIES
A	A	A	B		
RMV0004* Ø 10	-	-	RMH0001	-	SRCOM3549*
RMV0005* Ø 14	RMV0006** Ø 10	SRTAU38374*** Ø 10	RMH0002	-	SRCOM3549*
RMV0005* Ø 14	RMV0006** Ø 10	SRTAU38374*** Ø 10	RMH0003	-	SRCOM3549*

* Forniti su richiesta - Supplied on request

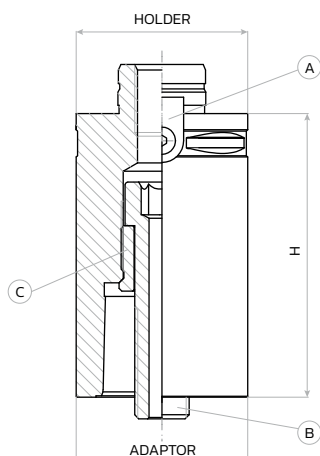
** Se utilizzato su ISO 40M63 a richiesta - If used on ISO 40M63 on request

*** Se utilizzato su HSK63 / HSK100 a richiesta - If used on HSK63 / HSK100 on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



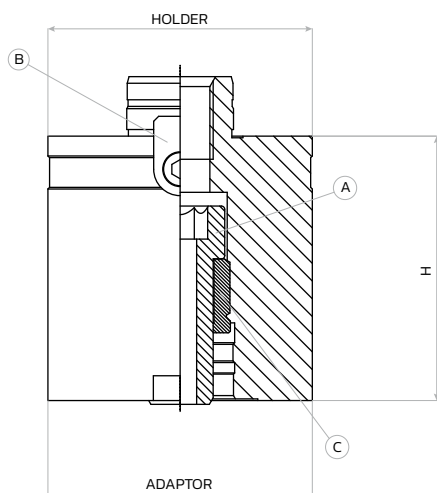
NEW

AMRPS

Attacchi modulare riduzione PSC | Modular holder adaptor PSC

	DIMENSIONI-DIMENSIONS			PARTI DI RICAMBIO-SPARE PARTS				ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	H	A 	B 	C 			
AMRPS50C50100	AM50	PSC50	100	RMH0001	RMV0028	 10	RMG0001	-	SRCOM3549*
AMRPS63C63100	AM63	PSC63	100	RMH0002	RMV0033	 10	RMG0002	-	SRCOM3549*
AMRPS80C80100	AM80	PSC80	100	RMH0003	RMV0033	 10	RMG0002	-	SRCOM3549*

* Forniti su richiesta - Supplied on request



WITH COOLANT

AMPM

estensioni modulari | modular extensions

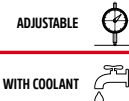
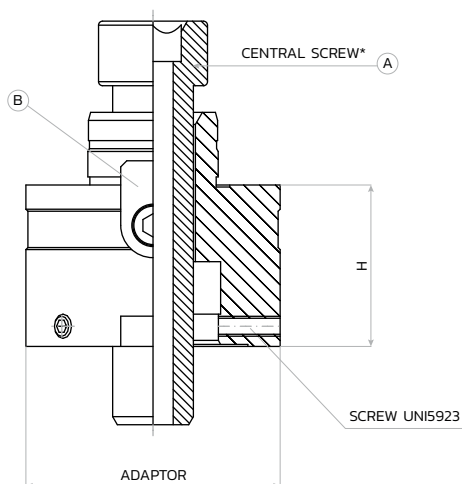
	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES		
	attacco holder	riduzione adaptor		H	kg	A 	B 	C 			
AMPMM505060	50	Ø50	-	60	1.10	RMV0001 	10	RMH0001	RMG0001	-	SRCOM3549*
AMPMM5050100	50	Ø50	-	100	1.50	RMV0001 	10	RMH0001	RMG0001	-	SRCOM3549*
AMPMM636380	63	Ø63	-	80	1.80	RMV0002 	14	RMH0002	RMG0002	-	SRCOM3549*
AMPMM6363120	63	Ø63	-	120	2.00	RMV0002 	14	RMH0002	RMG0002	-	SRCOM3549*
AMPMM808080	80	Ø80	-	80	3.20	RMV0002 	14	RMH0003	RMG0002	-	SRCOM3549*
AMPMM8080120	80	Ø80	-	120	4.50	RMV0002 	14	RMH0003	RMG0002	-	SRCOM3549*
AMPMM8080160	80	Ø80	-	160	6.30	RMV0002 	14	RMH0003	RMG0002	-	SRCOM3549*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



AMRR

intermedi per registrazione radiale | radial setting extensions

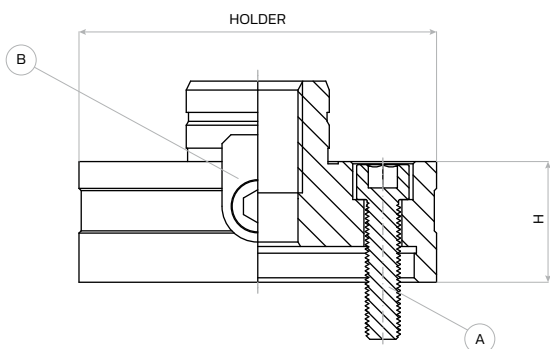
Questi intermedi si possono montare su qualsiasi attacco base, parti intermedie o adattatori modulari. Sostituendo la vite centrale con la vite prolungata relativa.
These adaptors can be assembled with any others basic holder, extension or reduction by replacing the internal screw with the screw extended relative.

	DIMENSIONI - DIMENSIONS				PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
	attacco holder	riduzione adaptor	H	kg	A	A	A	B	
AMRRM505030	50	Ø50	30	0,50	RMV0004*	-	-	RMH0001	SRCOM3549*
AMRRM636340	63	Ø63	40	0,90	RMV0005*	RMV0006**	SRTAU38374***	RMH0002	SRCOM3549*
AMRRM808040	80	Ø80	40	1,60	RMV0005*	RMV0006**	SRTAU38374***	RMH0003	SRCOM3549*

* Forniti su richiesta - Supplied on request

** Se utilizzato su ISO 40M63 a richiesta - If used on ISO 40M63 on request

*** Se utilizzato su HSK63 / HSK100 a richiesta - If used on HSK63 / HSK100 on request



AMPS.M

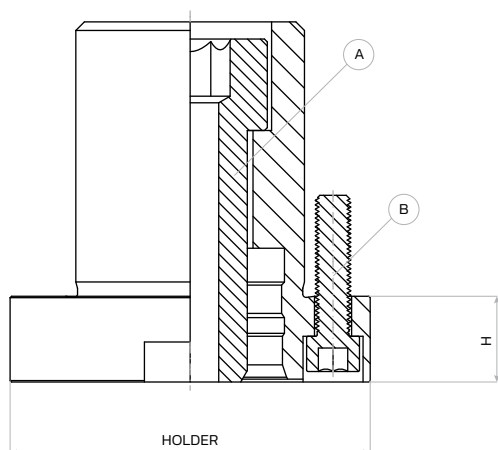
adattatori per prolunghe e baren in lega di alluminio-maschio
adaptors for aluminum alloy boring bars and extensions-male

	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	attacco holder	riduzione adaptor	H	kg		A	B		
AMPSM6327M	63	-	27	0,70		RMV0010	RMH0002	-	-
AMPSM8027M	80	-	27	0,90		RMV0011	RMH0003	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



AMPS..F

adattatori per prolunghe in lega di alluminio - femmina | adaptors for aluminum alloy extensions - female

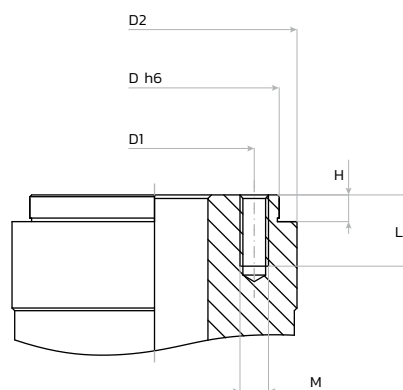
	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor		H	kg
AMPSM5015F	50	-	-	15	0,50
AMPSM6315F	63	-	-	15	0,80
AMPSM8030F	80	-	-	30	1,40

PARTI DI RICAMBIO - SPARE PARTS					
A			B		
RMV0001	10		RMV0009	4	
RMV0002	14		RMV0010	5	
RMV0002	14		RMV0012	6	

ACCESSORI - ACCESSORIES	
-	-
-	-
-	-

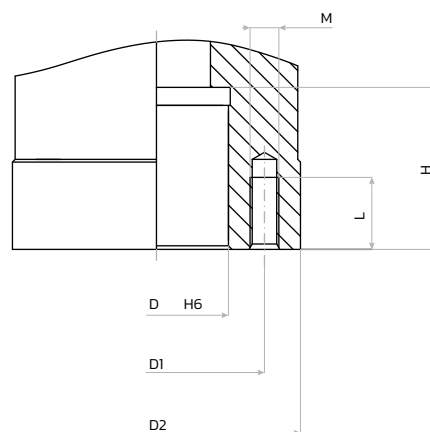
DIMENSIONI DI MONTAGGIO | MOUNTING SIZES

	DIMENSIONI - DIMENSIONS					
	D	D1	D2	L	M	H
AMPSM6327M	53	44	63	15	M6	7.5
AMPSM8027M	70	55	80	20	M8	7.5



DIMENSIONI DI MONTAGGIO | MOUNTING SIZES

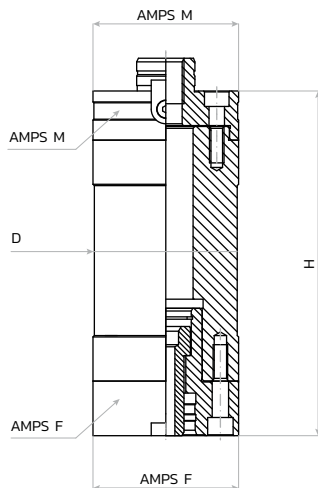
	DIMENSIONI - DIMENSIONS					
	D	D1	D2	L	M	H
AMPSM5015F	32	40	50	15	M5	45
AMPSM6315F	40	50	63	20	M6	55
AMPSM8030F	40	60	80	20	M8	45



NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



kg LOW WEIGHT!

WITH COOLANT

AMPS..H..

polunghe speciali in lega leggera Rm 550N/mm² | extensions in light alloy Rm 550N/mm²

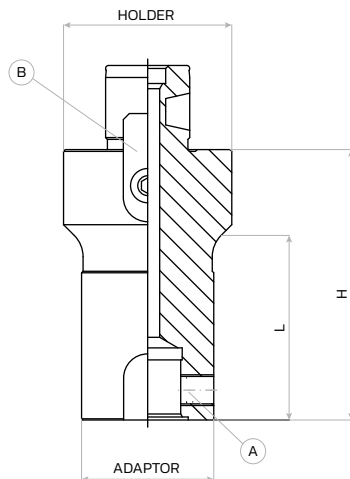
	DIMENSIONI - DIMENSIONS			
	H	D	attacco holder**	attacco holder**
AMPS8080H..	*	*	AMPSM80M	AMPSM80F
AMPS8063H..	*	*	AMPSM80M	AMPSM63F
AMPS8050H..	*	*	AMPSM80M	AMPSM50F
AMPS6363H..	*	*	AMPSM63M	AMPSM63F
AMPS6350H..	*	*	AMPSM63M	AMPSM50F

* Dimensioni a richiesta - Customized dimensions

** Esclusi adattatori AMPS..M - AMPS..F - Excluded adaptors AMPS..M - AMPS..F

PARTI DI RICAMBIO - SPARE PARTS					
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

ACCESSORI - ACCESSORIES	
-	-
-	-
-	-
-	-
-	-



WITH COOLANT

BMRM

riduzioni modulare mini | modular reductions - mini

	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor	L	H	kg
BMRMM221835	mini Ø22	mini Ø18	25	35	0,10
BMRMM282245	mini Ø28	mini Ø22	25	45	0,20
BMRMM352850	mini Ø35	mini Ø28	30	50	0,30

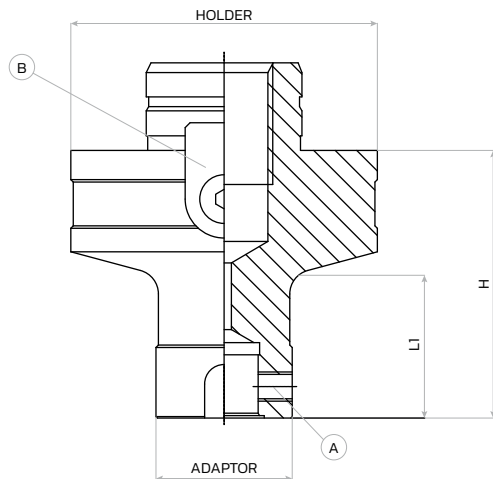
PARTI DI RICAMBIO - SPARE PARTS					
A		B			
RMM0001	2,5	-	-	-	-
RMM0002	2,5	RMH0012	-	-	-
RMM0003	3	RMH0013	-	-	-

ACCESSORI - ACCESSORIES	
-	-
-	-
-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



BMRM

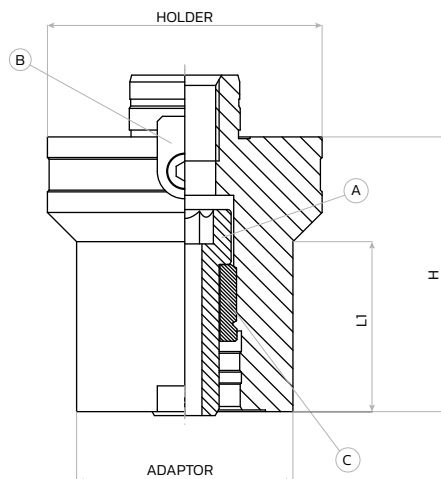
attacchi modulari per riduzioni modulare mini | modular reduction holders - mini

	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor	L1	H	kg
BMRMM501850	50	mini Ø18	23	50	0,50
BMRMM502250	50	mini Ø22	23	50	0,50
BMRMM502855	50	mini Ø28	29	55	0,60
BMRMM503560	50	mini Ø35	35	60	0,70
BMRMM631850	63	mini Ø18	23	50	0,70
BMRMM632250	63	mini Ø22	23	50	0,80
BMRMM632855	63	mini Ø28	29	55	0,90
BMRMM633560	63	mini Ø35	35	60	1,00

PARTI DI RICAMBIO - SPARE PARTS			
A		B	
RMM0001	2,5	RMH0001	-
RMM0002	2,5	RMH0001	-
RMM0003	3	RMH0001	-
RMM0004	4	RMH0001	-
RMM0001	2,5	RMH0002	-
RMM0002	2,5	RMH0002	-
RMM0003	3	RMH0002	-
RMM0004	4	RMH0002	-

ACCESSORI - ACCESSORIES

-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-



AMRM

estensioni modulari di riduzione | modular reduction extensions

	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor	L1	H	kg
AMRMM635060	63	Ø50	31.5	60	1,20
AMRMM806380	80	Ø63	49.5	80	2,40

PARTI DI RICAMBIO - SPARE PARTS			
A		B	C
RMV0001	10	RMH0002	RMG0001
RMV0002	14	RMH0003	RMG0002

ACCESSORI - ACCESSORIES

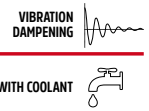
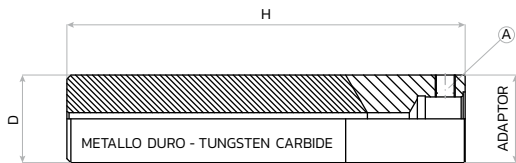
-	SRCOM3549*
-	SRCOM3549*

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

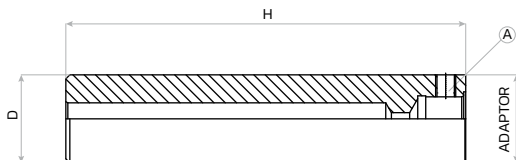
Specifications of spare parts in section I - spare parts.



BMMD

attacco cilindrico in MD a modulare mini | solid carbide cylindric holder to modular mini

	DIMENSIONI - DIMENSIONS				PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco D holder D	riduzione adaptor	H	kg	A				
BMMD18M18350	18	Mini Ø18	350	1,20	RMM0001	Ø 2,5	-	-	-
BMMD22M22350	22	Mini Ø22	350	1,90	RMM0002	Ø 2,5	-	-	-
BMMD25M28350	25	Mini Ø28	350	2,70	RMM0003	Ø 3			
BMMD32M35350	32	Mini Ø35	350	4,40	RMM0004	Ø 4			



BMPC

attacco cilindrico a modulare mini | cylindric holder to modular mini

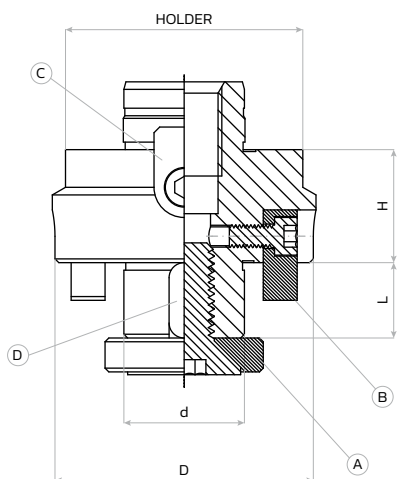
	DIMENSIONI - DIMENSIONS				PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco D holder D	riduzione adaptor	H	kg	A				
BMPC18M18100	18	Mini Ø18	100	0,20	RMM0001	Ø 2,5	-	-	-
BMPC22M22100	22	Mini Ø22	100	0,30	RMM0002	Ø 2,5	-	-	-
BMPC25M28120	25*	Mini Ø28	120	0,40	RMM0003	Ø 3	-	-	-
BMPC32M35150	32*	Mini Ø35	150	0,80	RMM0004	Ø 4	-	-	-

* Con piano di fissaggio - With clamping plate

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



DIN6357



WITH COOLANT
ON REQUEST



AMPF

adattatori portafrese | combined adaptor for side and face mills

	DIMENSIONI - DIMENSIONS						PARTI DI RICAMBIO - SPARE PARTS				ACCESSORI - ACCESSORIES	
	attacco holder	d	D	L	H	kg	A	B	C	D		
AMPFM501630	50	16	32	11	30	0,60	RAV0009	RAT0005*	RMH0001	RMH0017	RAF0011***	-
AMPFM502220	50	22	50	16	20	0,70	RAV0008	RMH0004	RMH0001	RMH0018	RAF0014***	-
AMPFM502720	50	27	60	18	20	0,80	RAV0004	RMH0001	RMH0001	RMH0019	RAF0007***	-
AMPFM503225	50	32	70	20	25	1,00	RAV0005	RMH0006	RMH0001	RMH0020	RAF0008***	-
AMPFM631640	63	16	32	11	40	0,90	RAV0009	RAT0005*	RMH0002	RMH0017	RAF0008***	-
AMPFM632230	63	22	50	16	30	0,90	RAV0008	RMH0004	RMH0002	RMH0018	RAF0008***	-
AMPFM632730	63	27	60	18	30	1,00	RAV0004	RMH0001	RMH0002	RMH0019	RAF0008***	-
AMPFM633230	63	32	70	20	30	1,20	RAV0005	RMH0006	RMH0002	RMH0020	RAF0008***	-
AMPFM634030**	63	40	89	23	30	1,70	RAV0006	RMH0002	RMH0002	RMH0022	RAF0008***	-
AMPFM802230	80	22	50	16	30	1,30	RAV0008	RMH0004	RMH0003	RMH0018	RAF0008***	-
AMPFM802730	80	27	60	18	30	1,40	RAV0004	RMH0001	RMH0003	RMH0019	RAF0008***	-
AMPFM803230	80	32	70	20	30	1,50	RAV0005	RMH0006	RMH0003	RMH0020	RAF0008***	-
AMPFM804030**	80	40	89	23	30	1,70	RAV0006	RMH0002	RMH0003	RMH0022	RAF0009***	-
AMPFM806030**	80	60	129	29	30	3,70	RAV0023	RMH0011	RMH0003	-	RAF0020***	-

* anello di trascinamento DIN6358 - face mill drive ring DIN6358

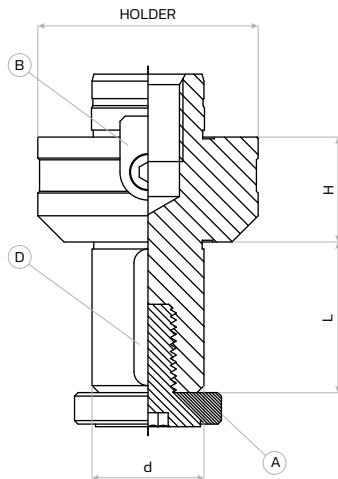
** con fissaggio 4 fori - 4 screws fixing

*** forniti su richiesta - supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



AMFD

adattatori portafrese a disco | adaptor for side mills

	DIMENSIONI - DIMENSIONS					
	attacco holder	d		L	H	kg
AMFDM501620	50	16	-	30	20	0,50
AMFDM502220	50	22	-	40	20	0,60
AMFDM502720	50	27	-	60	20	0,80
AMFDM503220	50	32	-	60	20	0,90
AMFDM631630	63	16	-	30	30	0,80
AMFDM632230	63	22	-	40	30	0,90
AMFDM632730	63	27	-	60	30	1,20
AMFDM633230	63	32	-	60	30	1,30
AMFDM634030	63	40	-	60	30	1,50
AMFDM635030	63	50	-	60	30	2,20
AMFDM802230	80	22	-	40	30	1,40
AMFDM802730	80	27	-	60	30	1,50
AMFDM803230	80	32	-	60	30	1,70
AMFDM804030	80	40	-	60	30	1,90
AMFDM805030	80	50	-	60	30	2,50

PARTI DI RICAMBIO - SPARE PARTS		
A	B	D
RAV0009	RMH0001	RMH0023
RAV0008	RMH0001	RMH0024
RAV0004	RMH0001	RMH0027
RAV0005	RMH0001	RMH0025
RAV0009	RMH0002	RMH0023
RAV0008	RMH0002	RMH0024
RAV0004	RMH0002	RMH0027
RAV0005	RMH0002	RMH0025
RAV0006	RMH0002	RMH0026
RAV0023	RMH0002	RMH0028
RAV0008	RMH0003	RMH0024
RAV0004	RMH0003	RMH0027
RAV0005	RMH0003	RMH0025
RAV0006	RMH0003	RMH0026
RAV0023	RMH0003	RMH0028

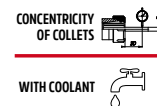
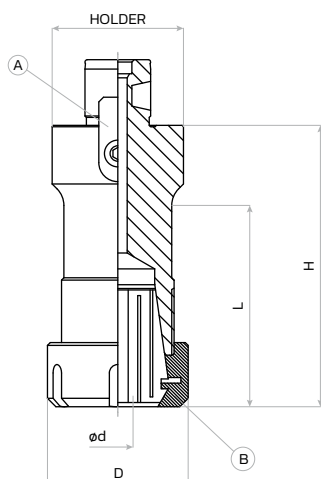
ACCESSORI - ACCESSORIES	
RAF0011*	-
RAF0014*	-
RAF0007*	-
RAF0008*	-
RAF0008*	-
RAF0008*	-
RAF0008*	-
RAF0008*	-
RAF0009*	-
RAF0020*	-
RAF0020*	-
RAF0020*	-
RAF0020*	-
RAF0020*	-
RAF0020*	-
RAF0020*	-

* Forniti su richiesta - Supplied on request

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



Escluso pinza elastica - Collets not included

BMER

adattatori portapinze DIN 6499 - mini | holder chuck adaptors DIN 6499 - mini

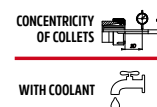
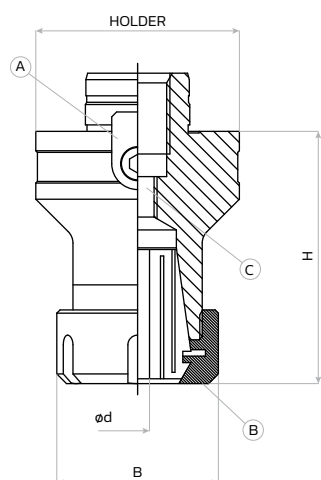
	DIMENSIONI - DIMENSIONS					
	attacco holder	riduzione adaptor	ød	D	L	H
BMERM181135	mini Ø18	ERR MINI 11	1-7	16	24	35
BMERM221650	mini Ø22	ERR MINI 16	1-10	22	40	50
BMERM282060	mini Ø28	ERR MINI 20	1-13	28	45	60
BMERM352565	mini Ø35	ERR MINI 25	1-16	35	48	65

* Forniti su richiesta - Supplied on request

PARTI DI RICAMBIO - SPARE PARTS		
A	B	
-	EGM0002	-
-	EGM0003	-
RMH0012	EGM0004	-
RMH0013	EGM0005	-

ACCESSORI - ACCESSORIES

ECM0006*	-
ECM0003*	-
ECM0004*	-
ECM0009*	-



Escluso pinza elastica - Collets not included

AMER

adattatori portapinze DIN 6499 | holder chuck adaptors DIN 6499

	DIMENSIONI - DIMENSIONS				
	attacco holder	riduzione adaptor	ød	B	H
AMERM503269	50	ERR 32	2-20	50	69
AMERM504080	50	ERR 40	3-30	63	80
AMERM633277	63	ERR 32	2-20	50	77
AMERM634086	63	ERR 40	3-30	63	86

* Forniti su richiesta - Supplied on request

PARTI DI RICAMBIO - SPARE PARTS		
A	B	C
RMH0001	EGS0001	RAN0021
RMH0001	EGS0004	RAN0021
RMH0002	EGS0001	RAN0022
RMH0002	EGS0004	RAN0022

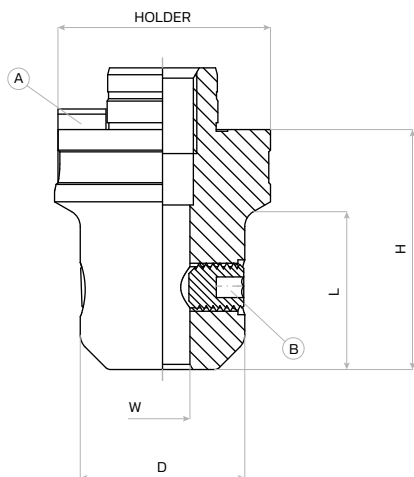
ACCESSORI - ACCESSORIES

ECS0003*	-
ECS0004*	-
ECS0003*	-
ECS0004*	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



AMWN

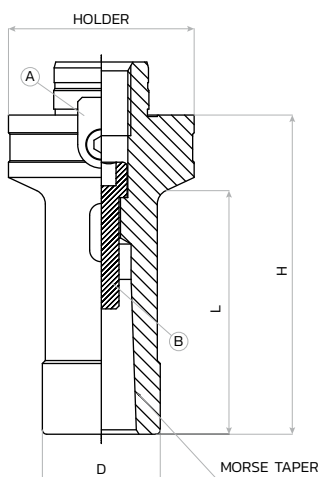
adattatori per attacchi Weldon/Whistle Notch DIN 1835B+DIN 1835E
Weldon/Whistle Notch shank adaptors DIN 1835B+DIN 1835E

	DIMENSIONI - DIMENSIONS											ACCESSORI - ACCESSORIES	
	attacco holder	W	H	L	D	kg	A	B					
AMWNM500650	50	6	50	24	25	0,60	RMH0001	RAN0011	3	-		-	-
AMWNM500850	50	8	50	25	28	0,60	RMH0001	RAN0013	4	-		-	-
AMWNM501050	50	10	50	27	35	0,70	RMH0001	RAN0014	5	-		-	-
AMWNM501260	50	12	60	39	42	0,80	RMH0001	RAN0012	6	-		-	-
AMWNM501660	50	16	60	40	48	0,90	RMH0001	RAN0023	6	-		-	-
AMWNM502060	50	20	60	41	52	1,00	RMH0001	RAN0006	8	-		-	-
AMWNM502580	50	25	80	61	65	1,70	RMH0001	RAN0024	8	-		-	-
AMWNM503280	50	32	80	63	72	1,80	RMH0001	RAN0010	10	-		-	-
AMWNM630660	63	6	60	27	25	0,90	RMH0002	RAN0011	3	-		-	-
AMWNM630860	63	8	60	28	28	0,90	RMH0002	RAN0013	4	-		-	-
AMWNM631070	63	10	70	40	35	1,00	RMH0002	RAN0014	5	-		-	-
AMWNM631270	63	12	70	42	42	1,20	RMH0002	RAN0012	6	-		-	-
AMWNM631670	63	16	70	44	48	1,30	RMH0002	RAN0023	6	-		-	-
AMWNM632070	63	20	70	45	52	1,30	RMH0002	RAN0006	8	-		-	-
AMWNM632580	63	25	80	48	65	1,80	RMH0002	RAN0024	8	-		-	-
AMWNM633280	63	32	80	-	72	1,90	RMH0002	RAN0010	10	-		-	-
AMWNM634090	63	40	90	-	83	3,00	RMH0002	RAN0010	10	-		-	-
AMWNM801270	80	12	70	37	42	1,60	RMH0003	RAN0012	6	-		-	-
AMWNM801670	80	16	70	39	48	1,80	RMH0003	RAN0023	6	-		-	-
AMWNM802070	80	20	70	40	52	1,90	RMH0003	RAN0006	8	-		-	-
AMWNM802580	80	25	80	50,5	65	2,30	RMH0003	RAN0024	8	-		-	-
AMWNM803280	80	32	80	54	72	2,70	RMH0003	RAN0010	10	-		-	-
AMWNM804090	80	40	90	-	83	3,10	RMH0003	RAN0010	10	-		-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.



AMCD

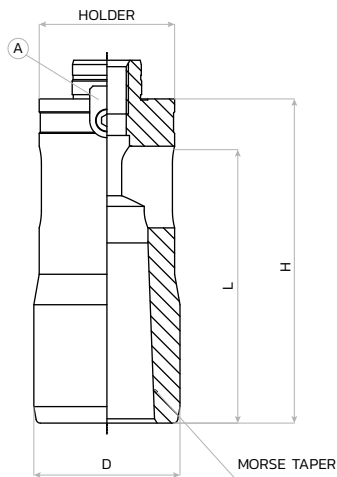
riduzioni cono morse doppia versione DIN 6383 | tang/threaded morse taper reductions DIN 6383

	DIMENSIONI - DIMENSIONS										ACCESSORI - ACCESSORIES	
	attacco holder	morse taper	H	L	D	kg	A	B				
AMCDM500195	50	1	95	72	25	0,70	RMH0001	RMV0013	5	-	-	-
AMCDM5002105	50	2	105	85	32	0,80	RMH0001	RMV0014	8	-	-	-
AMCDM5003130	50	3	130	108	40	1,20	RMH0001	RMV0015	10	-	-	-
AMCDM6301100	63	1	100	73	25	0,80	RMH0002	RMV0013	5	-	-	-
AMCDM6302110	63	2	110	85	32	1,10	RMH0002	RMV0014	8	-	-	-
AMCDM6303135	63	3	135	107	40	1,40	RMH0002	RMV0015	10	-	-	-
AMCDM6304160	63	4	160	137	52	2,50	RMH0002	RMV0016	14	-	-	-
AMCDM8001100	80	1	100	72	25	1,30	RMH0003	RMV0013	5	-	-	-
AMCDM8002110	80	2	110	85	32	1,50	RMH0003	RMV0014	8	-	-	-
AMCDM8003135	80	3	135	106	40	1,80	RMH0003	RMV0015	10	-	-	-
AMCDM8004160	80	4	160	132	52	2,10	RMH0003	RMV0016	14	-	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

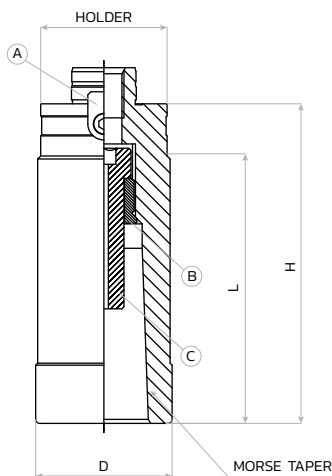
Specifications of spare parts in section I - spare parts.



AMCP

riduzioni cono morse per punte DIN 6383 | reductions for drills with tang morse taper DIN 6383

	DIMENSIONI - DIMENSIONS						ACCESSORI - ACCESSORIES	
	attacco holder	morse taper	H	L	D	kg		
AMCPM5004150	50	4	150	-	52	1,90	A 	
AMCPM6305185	63	5	185	120	68	3,60	RMH0001	- - - -
AMCPM8005190	80	5	190	162	68	4,30	RMH0002	- - - -
							RMH0003	- - - -



WITH COOLANT 

AMCF

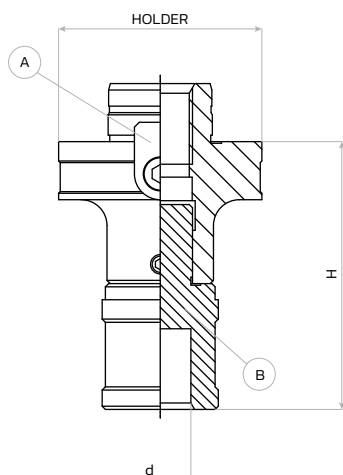
riduzioni cono morse per frese DIN 6364 | threaded morse taper reductions for mills DIN 6364

	DIMENSIONI - DIMENSIONS						ACCESSORI - ACCESSORIES		
	attacco holder	morse taper	H	L	D	kg	A 	B 	C 
AMCFM5004150	50	4	150	-	52	1,90	RMH0001	RMG0001	RMV0024  12
AMCFM6305190	63	5	190	164	68	3,60	RMH0002	TAU11320	RMV0017  12
AMCFM8005190	80	5	190	167	68	3,90	RMH0003	TAU11320	RMV0017  12

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

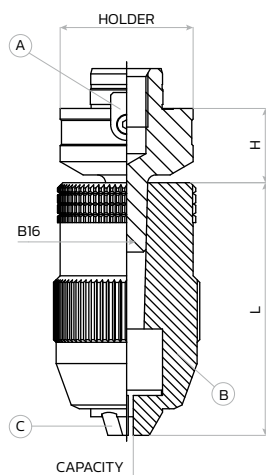


AMMA

riduzioni per maschiatura con compensazione | tapping chuck adaptors with compensation

Fornito completo di APM escluso bussola - Supplied complete with APM, tap adaptor not included

	DIMENSIONI - DIMENSIONS						PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	H	d	capacità capacity	compensaz. compens.	kg	A	B			
AMMAM501980	50	83	19	M3 - M12	± 7.5	0,90	RMH0001	APM0015	-	-	-
AMMAM5031125	50	125	31	M8 - M20	± 12.5	1,70	RMH0001	APM0014	-	-	-
AMMAM631980	63	83	19	M3 - M12	± 7.5	1,00	RMH0002	APM0015	-	-	-
AMMAM6331125	63	125	31	M8 - M20	± 12.5	2,00	RMH0002	APM0014	-	-	-



AMBM

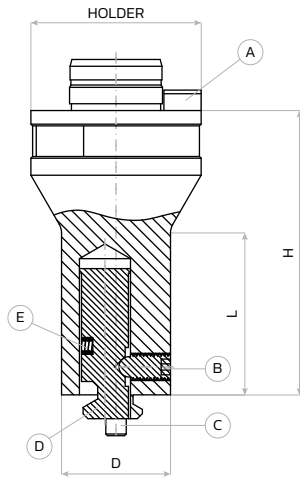
riduzioni porta mandrini DIN 238 | DIN 238 drill chuck reductions

	DIMENSIONI - DIMENSIONS					PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES	
	attacco holder	H	L	capacità capacity	kg	A	B	C		
AMBM50B160	50	30	92	1-13	1,90	RMH0001	CAI0007	RBG0010	-	-
AMBM50B163	50	30	95	3-16	1,90	RMH0001	CAI0006	RBG0005	-	-
AMBM63B160	63	35	92	1-13	2,10	RMH0002	CAI0007	RBG0010	-	-
AMBM63B163	63	35	95	3-16	2,10	RMH0002	CAI0006	RBG0005	-	-
AMBM50B16	50	30	Escluso Mandrino Spindle not included		0,70	RMH0001	-	-	-	-
AMBM63B16	63	35	Escluso Mandrino Spindle not included		0,90	RMH0002	-	-	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

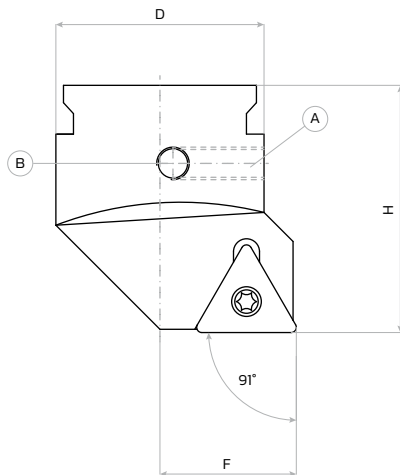


AMPT

adattatori porta testine | adaptors for boring heads

	DIMENSIONI - DIMENSIONS				
	attacco holder	porta testina D tool head holder D	L	H	kg
AMPTM502582	50	25	55.5	82	0.90
AMPTM503276	50	32	51.5	76	0.90
AMPTM504070	50	40	48	70	1.10
AMPTM505060	50	50	-	60	1.10
AMPTM633276	63	32	45	76	1.10
AMPTM634070	63	40	41.5	70	1.40
AMPTM635060	63	50	34.5	60	1.40
AMPTM636387	63	63	-	87	2.60
AMPTM808070	80	80	-	70	3.10

PARTI DI RICAMBIO - SPARE PARTS									
A	B	C	D	E					
RMH0001	CASA0034	6	2	RMH0001	RMH0001	RMH0001	RMH0001	RMH0001	RMH0001
RMH0001	CASA0034	6	2	RMH0001	RMH0001	RMH0001	RMH0001	RMH0001	RMH0001
RMH0001	CASA0010	5	2.5	RMH0001	RMH0001	RMH0001	RMH0001	RMH0001	RMH0001
RMH0001	CASA0025	5	2.5	RMH0001	RMH0001	RMH0001	RMH0001	RMH0001	RMH0001
RMH0002	CASA0034	6	2	RMH0002	RMH0002	RMH0002	RMH0002	RMH0002	RMH0002
RMH0002	CASA0010	5	2.5	RMH0002	RMH0002	RMH0002	RMH0002	RMH0002	RMH0002
RMH0002	CASA0025	5	2.5	RMH0002	RMH0002	RMH0002	RMH0002	RMH0002	RMH0002
RMH0002	CASA0026	6	2.5	RMH0002	RMH0002	RMH0002	RMH0002	RMH0002	RMH0002
RMH0003	CASA0026	6	2.5	RMH0003	RMH0003	RMH0003	RMH0003	RMH0003	RMH0003



AMTC

testine positive di barenatura | positive boring tool heads

	DIMENSIONI - DIMENSIONS					INSERT
	Ø min-max	F	D	H	kg	
AMTC253244	32 - 44	18	25	28	0.20	TC..1102..
AMTC324056	40 - 56	22	32	34	0.30	TC..16T3..
AMTC405072	50 - 72	28	40	40	0.40	TC..16T3..
AMTC506390	63 - 90	36	50	50	0.70	TC..16T3..

PARTI DI RICAMBIO - SPARE PARTS									
			B	A					
-	-	RFV0089	RAN0045	2.5	RAN0068	2			
RUA0029	RUB0009	RUV0021	RAN0046	2.5	RAN0068	2			
RUA0029	RUB0009	RUV0021	RAN0047	3	RAN0050	3			
RUA0029	RUB0009	RUV0021	RAN0048	3	RAN0050	3			

ACCESSORIES



RFE0010

RFE0014

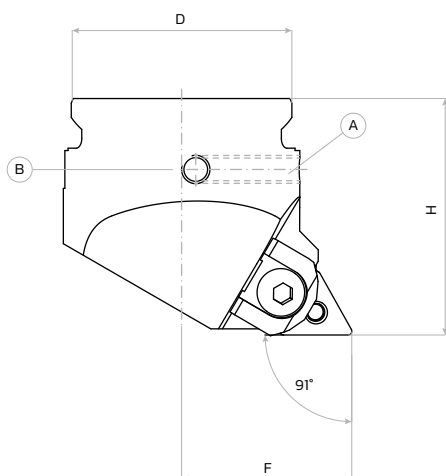
RFE0014

RFE0014

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

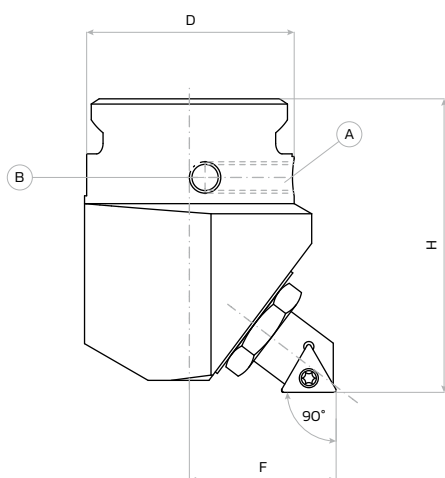


AMTN

testine negative di barenatura | negative boring tool heads

	DIMENSIONI - DIMENSIONS					INSERT	PARTI DI RICAMBIO - SPARE PARTS					
	Ø min-max	F	D	H	kg						B	A
AMTN405072	50 - 72	28	40	40	0,40	TN.1604..	RUA0002	RUP0001	RUS0002*	RUN0001	RAN0047	RAN0050
AMTN506390	63 - 90	36	50	50	0,70	TN.1604..	RUA0002	RUP0001	RUS0002*	RUN0001	RAN0048	RAN0050
AMTN6380112	80 - 112	45	63	63	1,20	TN.2204..	RUA0030	RUP0002	RUS0011*	RUN0002	RAN0051	RAN0050
AMTN80100142	100 - 142	56	80	80	2,20	TN.2204..	RUA0030	RUP0002	RUS0011*	RUN0002	RAN0052	RAN0050

* Usare chiave esagonale - Use allen wrench



AMTF

testine di finitura | fine boring heads

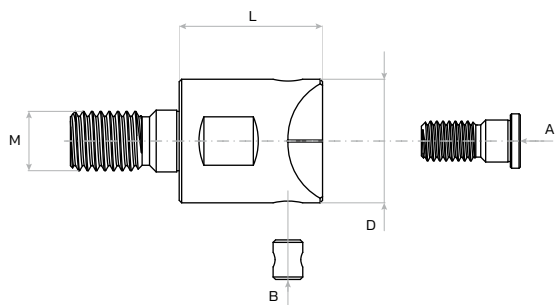
Attenzione: l'unità micro deve essere ordinata separatamente - Please note: the micro bore must be ordered separately.
Per specifiche unità micro vedi pag B 36 - See page B 36 for micro units' specifications.

	DIMENSIONI - DIMENSIONS					MICRO UNIT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
	Ø min-max	F	D	H	kg			B	A		
AMTF253244	32 - 44	18	25	36	0,20	UIPBF1...L	RFV0090	RAN0045	RAN0068	RFE0011	RUF0008
AMTF324056	40 - 56	22	32	45	0,30	UIPBF2...L	RFV0090	RAN0046	RAN0068	RFE0011	RUF0009
AMTF405072	50 - 72	28	40	56	0,50	UIPBF3...L	RUV0103	RAN0047	RAN0050	RFE0014	RUF0010
AMTF506390	63 - 90	36	50	56	0,80	UIPBF3...L	RUV0103	RAN0048	RAN0050	RFE0014	RUF0010
AMTF6380112	80 - 112	45	63	75	1,50	UIPBF4...L	RUV0281	RAN0051	RAN0050	CAXCB0045	RUF0011
AMTF80100142	100 - 142	56	80	80	2,40	UIPBF4...L	RUV0281	RAN0052	RAN0050	CAXCB0045	RUF0011

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



NEW

ADJUSTABLE

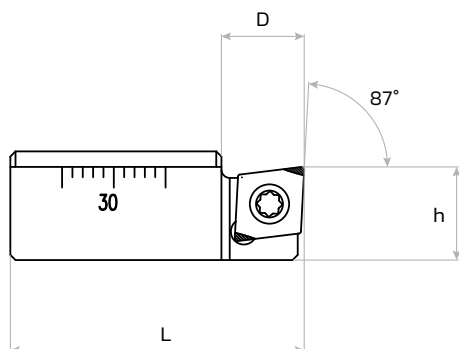
WITH COOLANT

Per le prolunghe vedi pagina F25
For the extension see page F25

AMVA

testina filettata per cartucce in tiro RAC | thread heads for cartridges RAC

	DIMENSIONI - DIMENSIONS			CARTUCCE - CARTRIDGE		PARTI DI RICAMBIO - SPARE PARTS		ACCESSORIES
	M	L	D	N°		A	B	
AMVA0002	M6	22	12	1	RAC0006	RUV0482	RAP0013	RFE0014
AMVA0003	M8	23	14	1	RAC0007-RAC0008	RUV0482	RAP0013	RFE0014
AMVA0001	M8	26	16	1	RAC0005-RAC0009-RAC0010-RAC0011-RAC0012	RUV0483	RAP0014	RFE0007
AMVA0004	M10	27	20	1	RAC0005-RAC0009-RAC0010-RAC0011-RAC0012	RUV0483	RAP0014	RFE0007
AMVA0005	M12	29	25	1	RAC0005-RAC0009-RAC0010-RAC0011-RAC0012	RUV0483	RAP0014	RFE0007



NEW

RAC

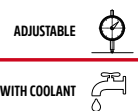
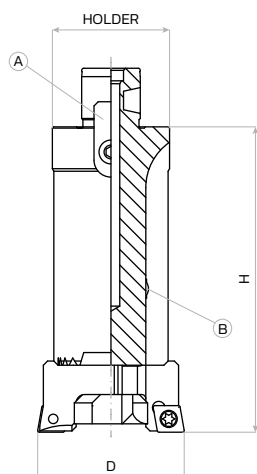
cartuccia in tiro | back cartridges

		DIMENSIONI - DIMENSIONS			INSERT	PARTI DI RICAMBIO - SPARE PARTS		ACCESSORIES
		h	L	D min-max				
RAC0006	RMK13	7	12,6	13-17	CC..0401	RUV0065	RAN0057	RFE0009
RAC0007	RMK15	7	14,4	15-22	CC..0401	RUV0065	RAN0057	RFE0009
RAC0008	RMK16	9	15,4	16-23	CC..0602	RUV0068		RFE0010
RAC0009	RMK17	9	16,6	17-23	CC..0602	RUV0068		RFE0010
RAC0005	RMK20	9	19,4	20-30	CC..0602	RUV0068		RFE0010
RAC0010	RMK23	9	22,4	23-33	CC..0602	RUV0068		RFE0010
RAC0011	RMK26	9	25,4	26-40	CC..0602	RUV0068		RFE0010
RAC0012	RMK29	9	28,4	29-43	CC..0602	RUV0068		RFE0010

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



BMAL

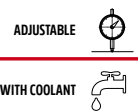
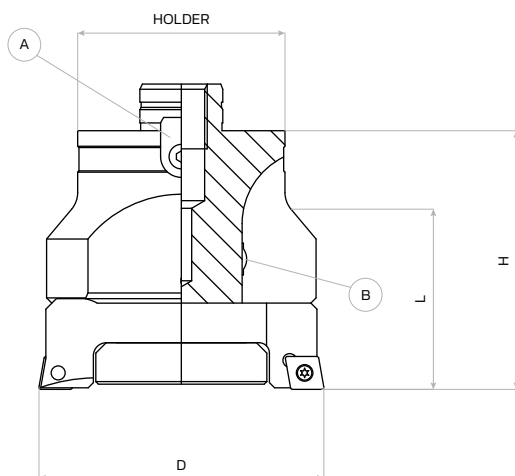
allargatori mini dal $\varnothing 18$ al $\varnothing 53$ | boring tools for roughing - mini

Gli allargatori sono forniti completi di cartucce.
Boring tools are supplied assembled with cartridges.

	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
	attacco holder	D min-max	H	kg		A	B			
BMALM181822*	mini $\varnothing 18$	18 - 22	40	0,10	CC.. 0602..	-	-	AMCA061822	-	-
BMALM182125*	mini $\varnothing 18$	21 - 25	50	0,10	CC.. 0602..	-	-	AMCA062125	-	-
BMALM222432	mini $\varnothing 22$	24 - 32	65	0,20	CC.. 0602..	-	-	AMCA062432	SRCOM7625	AMCA062432M**
BMALM283041	mini $\varnothing 28$	30 - 41	65	0,30	CC.. 0602..	RMH0012	-	AMCA063041	SRCOM7622	AMCA063041M**
BMALM353953	mini $\varnothing 35$	39 - 53	85	0,40	CC.. 09T3..	RMH0013	CAF0014	AMCA093953	SRCOM7619	AMCA093953M**

* Senza piastra di fissaggio frontale - Without clamping plate

** A richiesta - On request



AMAL..C

allargatori dal $\varnothing 51$ al $\varnothing 165$ - serie corta | boring tools for roughing - short version

Gli allargatori sono forniti completi di cartucce e piastra di fissaggio.
Boring tools are supplied assembled with cartridges and clamping plate.

	DIMENSIONI - DIMENSIONS					INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
	attacco holder	D min-max	L	H	kg		A	B			
AMALM635171C	63	51 - 71	70	100	1,40	CC.. 09T3..	RMH0002	CAF0014	AMCA095171	SRCOM7614	AMCA095171M**
AMALM636491C	63	64 - 91	70	100	1,80	CC.. 1204..*	RMH0002	CAF0015	AMCA126491	SRCOM7602	AMCA126491M**
AMALM8083124C	80	83 - 124	70	100	4,80	CC.. 1204..*	RMH0003	CAF0016	AMCA1283124	SRCOM7446	AMCA1283124M**
AMALM80109165C	80	109 - 165	70	100	6,40	CC.. 1204..*	RMH0003	CAF0016	AMCA12109165	SRCOM7442	AMCA12109165M**

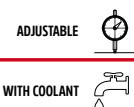
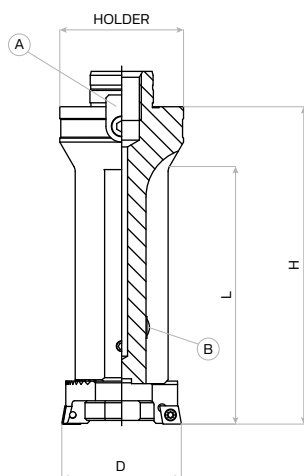
* Con sottopiacchetta - with shim

** A richiesta - On request

NOTE

Cartucce + piastra + vite di fissaggio vedi pagg. A 50-51
Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Cartridges + clamping plates/screws at pg. A 50-51
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



AMAL

allargatori dal $\varnothing$ 24 al $\varnothing$ 165 | boring tools for roughing

Gli allargatori sono forniti completi di cartucce e piastra di fissaggio
Boring tools are supplied assembled with cartridges and clamping plate.

	DIMENSIONI - DIMENSIONS					INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
	attacco holder	D min-max	L	H	kg		A	B			
AMALM502432	50	24 - 32	70	100	0,60	CC.. 0602..	RMH0001	-	AMCA062432	SRCOM7625	AMCA062432M**
AMALM503041	50	30 - 41	90	120	0,80	CC.. 0602..	RMH0001	-	AMCA063041	SRCOM7622	AMCA063041M**
AMALM503953	50	39 - 53	110	140	1,10	CC.. 09T3..	RMH0001	CAF0014	AMCA093953	SRCOM7619	AMCA093953M**
AMALM505171	50	51 - 71	82	100	1,30	CC.. 09T3..	RMH0001	CAF0014	AMCA095171	SRCOM7614	AMCA095171M**
AMALM635171	63	51 - 71	130	160	2,00	CC.. 09T3..	RMH0002	CAF0014	AMCA095171	SRCOM7614	AMCA095171M**
AMALM636491	63	64 - 91	-	170	3,00	CC.. 1204..*	RMH0002	CAF0015	AMCA126491	SRCOM7602	AMCA126491M**
AMALM8083124	80	83 - 124	-	170	4,80	CC.. 1204..*	RMH0003	CAF0016	AMCA1283124	SRCOM7446	AMCA1283124M**
AMALM80109165	80	109 - 165	-	175	6,40	CC.. 1204..*	RMH0003	CAF0016	AMCA12109165	SRCOM7442	AMCA12109165M**

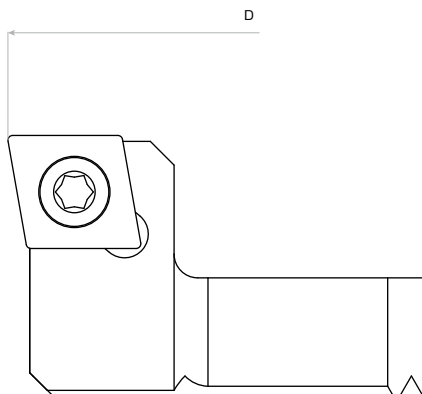
* Con sottopiacchetta - with shim

** A richiesta - On request

NOTE

Cartucce + piastra + vite di fissaggio vedi pagg. A 50-51
Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Cartridges + clamping plates/screws at pg. A 50-51
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



AMCA...M

cartuccia maggiorata | higher cartridge

CARTUCCIA FORNITA SINGOLARMENTE - INDIVIDUALLY SUPPLIED

	DIMENSIONS		INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORI - ACCESSORIES	
	allargatore counterbore	kg							
AMCA062432M	Ø 24-32	0,05	CC.. 0602..	-	-	-	RFV0089	RAN0066	1.5
AMCA063041M	Ø 30-41	0,05	CC.. 0602..	-	-	-	RFV0089	-	-
AMCA093953M	Ø 39-53	0,05	CC.. 09T3..	-	-	-	RUV0037	-	-
AMCA095171M	Ø 51-71	0,05	CC.. 09T3..	-	-	-	RUV0037	-	-
AMCA126491M	Ø 64-91	0,18	CC.. 1204..*	RUA0039	RUB0017	4	RUV0009	-	-
AMCA1283124M	Ø 83-124	0,25	CC.. 1204..*	RUA0039	RUB0017	4	RUV0009	-	-
AMCA12109165M	Ø 109-165	0,35	CC.. 1204..*	RUA0039	RUB0017	4	RUV0009	-	-
								CAXCB0044	RFE0010
								-	RFE0010
								-	RFE0014
								-	RFE0014
								CAXCB0046	RFE0014
								CAXCB0046	RFE0014
								CAXCB0046	RFE0014

*Con sottopiacchetta - with shim

IMPIEGO

L'impiego della cartuccia AMCA...M è consigliata nelle asportazioni dove il sovrametallo è superiore a 2/3 del lato inserto.

MODALITÀ DI UTILIZZO

Sostituire una delle due cartucce dall'allargatore con la serie corrispondente AMCA...M. La cartuccia maggiorata deve essere preasettata ad un diametro inferiore, all'incirca metà, tra il diametro di preforo e il lavoro finale.

ATTENZIONE

L'avanzamento deve essere dimezzato rispetto a quanto calcolato per l'utilizzo con cartucce AMCA.

USE

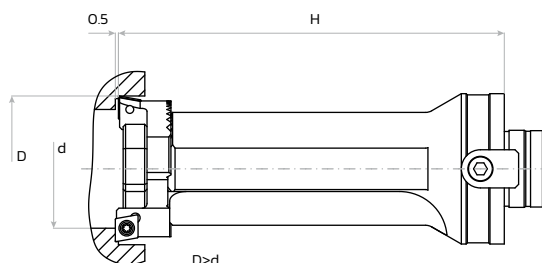
The AMCA cartridge is suggested to remove raw material more than 2/3 of the inserts size.

HOW TO USE

Substitute one of the 2 cartridges on the counterbore with the corresponding series AMCA...M. The increased cartridge must be preset at a smaller Ø, midway between the pre-hole and the final work.

ATTENTION

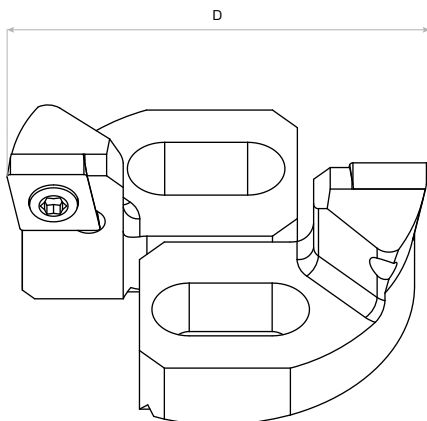
Feeding must be half the one applied with AMCA cartridges.



NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



AMCA

cartucce e ricambi per allargatori | cartridges and spare parts for boring tools

CARTUCCE FORNITE IN COPPIA - PAIR SUPPLIED

	DIMENSIONS		INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORI - ACCESSORIES	
	allargatore counterbore	kg							
AMCA061822	Ø 18-22	0,05	CC.. 0602..	-	-	-	RFV0089	-	RFE0010
AMCA062125	Ø 21-25	0,05	CC.. 0602..	-	-	-	RFV0089	-	RFE0010
AMCA062432	Ø 24-32	0,05	CC.. 0602..	-	-	-	RFV0089	RAN0066	Ø 1.5
AMCA063041	Ø 30-41	0,05	CC.. 0602..	-	-	-	RFV0089	-	RFE0010
AMCA093953	Ø 39-53	0,10	CC.. 09T3..	-	-	-	RUV0037	-	RFE0014
AMCA095171	Ø 51-71	0,10	CC.. 09T3..	-	-	-	RUV0037	-	RFE0014
AMCA126491	Ø 64-91	0,30	CC.. 1204..*	RUA0039	RUB0017	Ø 4	RUV0009	-	RFE0014
AMCA1283124	Ø 83-124	0,50	CC.. 1204..*	RUA0039	RUB0017	Ø 4	RUV0009	-	RFE0014
AMCA12109165	Ø 109-165	0,70	CC.. 1204..*	RUA0039	RUB0017	Ø 4	RUV0009	-	RFE0014

* Con sottopiacchetta - with shim

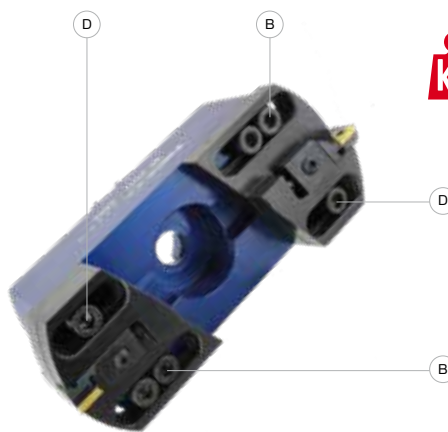
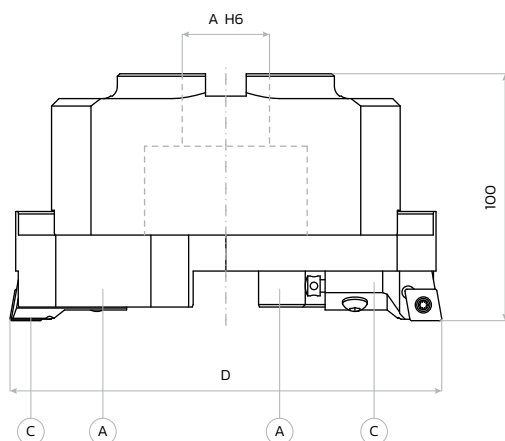
PARTI DI RICAMBIO AMAL AMAL SPARE PARTS

	allargatore counterbore	piastra di fissaggio fixing plate	vite di fissaggio fixing screw	chiave a brugola allen key	grano grub screw
AMCA061822	Ø 18-22	-	RAV0130	-	-
AMCA062125	Ø 21-25	-	RAV0130	-	-
AMCA062432	Ø 24-32	SRCOM7625	SRCOM8133/1	CAXCB0045	RAN0066
AMCA063041	Ø 30-41	SRCOM7622	SRCOM8133/2	CAXCB0046	RAN0054
AMCA093953	Ø 39-53	SRCOM7619	SRCOM8133/3	CAXCB0047	RAN0055
AMCA095171	Ø 51-71	SRCOM7614	SRCOM8133/4	CAXCB0075	RAN0056
AMCA126491	Ø 64-91	SRCOM7602	SRCOM8133/5	CAXCB0075	RAN0057
AMCA1283124	Ø 83-124	SRCOM7446	SRCOM8133/6	CAXCB0028	RAN0048
AMCA12109165	Ø 109-165	SRCOM7442	SRCOM8133/7	CAXCB0165	RAN0048

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



kg LOW WEIGHT!

ADJUSTABLE

AMAL

allargatori dal Ø 145 al Ø 655 in lega leggera | heavy duty boring tools in light alloy

Platello realizzato in lega leggera Rm 550 N/mm² - Basic body is made of light alloy Rm 550N/mm²
Gli allargatori sono forniti completi di slitte, escluse le cartucce - Counterborer are supplied with slides, cartridges are not included.

	DIMENSIONI - DIMENSIONS			INSERT	CARTRIDGE	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D min-max	A H6	kg			A	B	D	
AMALD40145205	Ø 145 - 205	40	3,50	CC..1204..	UIPBCI0059	SRALM7355	RAV0085	8	RAV0087
AMALD40200260	Ø 200 - 260	40	4,10	CC..1204..	UIPBCI0059	SRALM7355	RAV0085	8	RAV0087
AMALD40255355	Ø 255 - 355	40	6,20	CC..1204..	UIPBCI0059	SRALM23824	RAV0086	10	RAV0088
AMALD60355455	Ø 355 - 455	60	7,40	CC..1204..	UIPBCI0059	SRALM23824	RAV0086	10	RAV0088
AMALD60455555	Ø 455 - 555	60	9,70	CC..1204..	UIPBCI0059	SRALM23824	RAV0086	10	RAV0088
AMALD60555655	Ø 555 - 655	60	11,40	CC..1204..	UIPBCI0059	SRALM23824	RAV0086	10	RAV0088

ALLARGATORI COMPLETI DI VITI DI FISSAGGIO A PORTA FRESE*

Vite TCCE M20x40 per portafrese da Ø 40 gamma 145-205/200-260
Viti TCCE M12x60 per portafrese da Ø 40 gamma 255-355 (fissaggio a 4 fori)
Viti TCCE M16x60 per portafrese da Ø 60 gamma 355-455/455-555/555-655 (fissaggio a 4 fori)

* Lista porta frese a pagina A 17

COUNTERBORE PROVIDED WITH SCREWS FOR LOCKING TO SIDE AND FACE MILLS*

TCCE M20x40 screw for Ø 40 (mill) holders range 145-205/200-260
TCCE M12x60 screws for Ø 40 (mill) holders range 255-355 (4 holes fixing)
TCCE M16x60 screws for Ø 60 (mill) holders range 355-455/455-555/555-655 (4 holes fixing)

* List of adaptors for side and face mills at pg A 17

NOTE

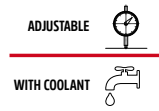
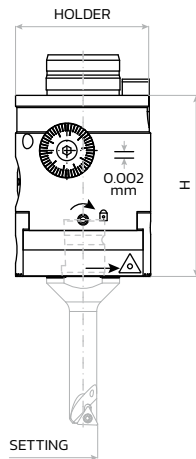
Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

ALLARGATORE SU MISURA

CUSTOMIZED BORING TOOLS





AMFM

testina micrometrica | micrometric setting head

	DIMENSIONI - DIMENSIONS			
	attacco holder	registrazione setting	H	kg
AMFM0001	50	+4 mm radiali	72.5	1,3

PARTI DI RICAMBIO - SPARE PARTS		
RMH0001	-	-

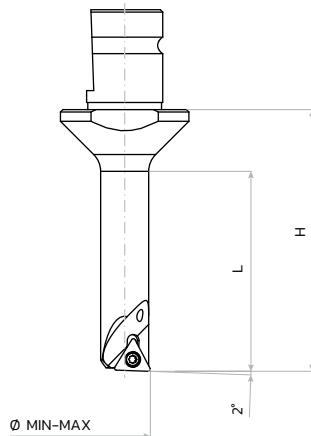
ACCESSORI - ACCESSORIES	
CAXCB0054	CAXCB0046

NOTA

Nella regolazione dell'unità ad ogni tacca sul nonio corrisponde una regolazione di 0.002 mm sul raggio.

NOTE

While regulating the micro unit, each notch on the graduated scale indicates a regulation of 0.002 mm on the ray.



AMFM..D

stelo per testina micrometrica | tool for micrometric head

	DIMENSIONI - DIMENSIONS			
	Ø min-max	L	H	kg
AMFMD160608	6-8	25	38	0,1
AMFMD160812	8-12	31	44	0,15
AMFMD161117	11-17	44	55	0,2
AMFMD161623	16-23	52	60	0,25
AMFMD162230	22-30	68	74	0,3

INSERTO - INSERT	
WC.020102	-
-	TP.080204
-	TP.080204
-	TP.080204

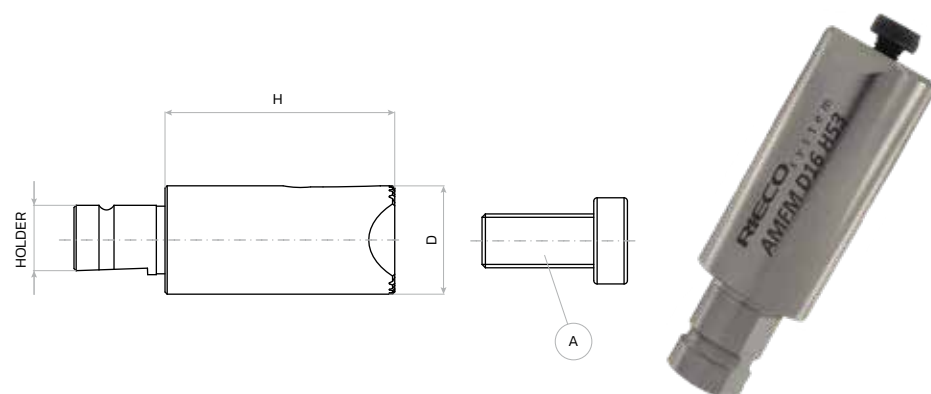
SPARE PARTS	
RUV0005	-
RUV0005	-
RUV0065	-
RUV0065	-
RUV0065	-

ACCESSORI - ACCESSORIES	
RFE0009	-
RFE0009	-
RFE0009	-
RFE0009	-
RFE0009	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



AMFM..D

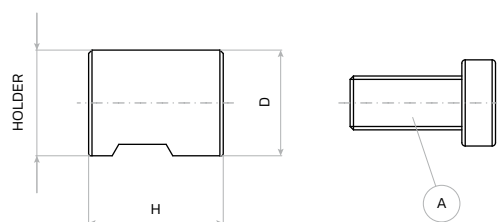
adattatori portacartucce per testina micrometrica | cartridge holder for micrometric head

	DIMENSIONI - DIMENSIONS			
	attacco holder	D	H	kg
AMFMD16H53	16	Ø 25	53	0,28
AMFMD16H95	16	Ø 25	95	0,45

PARTI DI RICAMBIO - SPARE PARTS				
A				
RAV0089	Ø 4	-	-	
RAV0089	Ø 4	-	-	

ACCESSORI - ACCESSORIES

CAXCB0046	-
CAXCB0046	-



AMFMD16

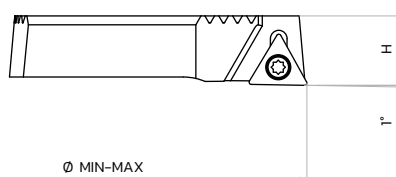
boccola adattatore D.16 per cartucce | cartridge adaptor bush D.16

	DIMENSIONI - DIMENSIONS			
	attacco holder	D	H	kg
AMFMD16	16	Ø 16	20	0,023

PARTI DI RICAMBIO - SPARE PARTS				
A				
RAV0095	Ø 5	-	-	

ACCESSORI - ACCESSORIES

CAXCB0047	-



AMFM

cartuccia per testina micrometrica | cartridge for micrometric head

	DIMENSIONI - DIMENSIONS			
	Ø min-max	H	kg	
AMFM082844	28-44	-	12,5	0,05
AMFM083656	36-56	-	12,5	0,05
AMFM115486	54-86	-	12,5	0,1
AMFM1180110	80-110	-	12,5	0,18

INSERTO - INSERT	
TP.080204	-
TP.080204	-
TP.110304	-
TP.110304	-

SPARE PARTS	
RUV0065	-
RUV0065	-
RFV0090	-
RFV0090	-

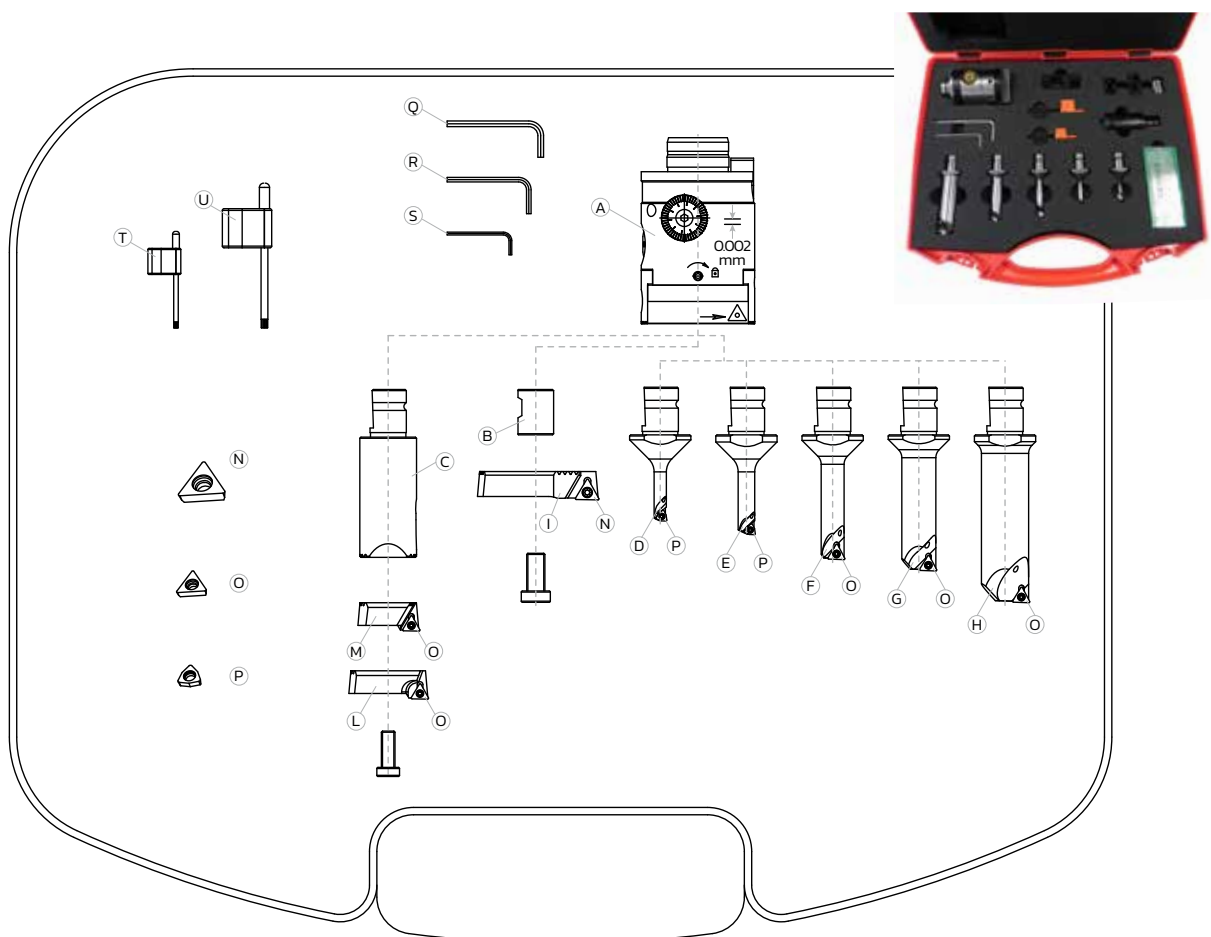
ACCESSORI - ACCESSORIES

RFE0009	-
RFE0009	-
RFE0011	-
RFE0011	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

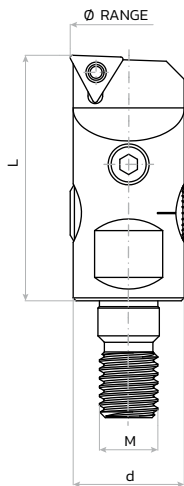
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



AMFM 0002

Kit testina micrometrica | Micrometric head kit

		DESCRIZIONE	DESCRIPTION	QUANTITÀ - AMOUNT
A	AMFM0001	Testina microregistrabile	Micrometric head	1
B	AMFMD16	Adattatore Ø 16	Adaptor Ø 16	1
C	AMFMD16H53	Adattatore Ø 16 H53	Adaptor Ø 16 H53	1
D	AMFMD160608	Stelo dal Ø 06 al 08	Shank from Ø 06 to 08	1
E	AMFMD160812	Stelo dal Ø 08 al 12	Shank from Ø 08 to 12	1
F	AMFMD161117	Stelo dal Ø 11 al 17	Shank from Ø 11 to 17	1
G	AMFMD161623	Stelo dal Ø 16 al 23	Shank from Ø 16 to 23	1
H	AMFMD162230	Stelo dal Ø 22 al 30	Shank from Ø 22 to 30	1
I	AMFM082844	Cartuccia dal Ø 28 al 44	Cartridge from Ø 28 to 44	1
L	AMFM083656	Cartuccia dal Ø 36 al 56	Cartridge from Ø 36 to 56	1
M	AMFM115486	Cartuccia dal Ø 54 al 86	Cartridge from Ø 54 to 86	1
N	ITPTC0140	Inserto TP..110304	Insert TP..110304	2
O	ITPTC0194	Inserto TP..080204	Insert TP..080204	6
P	ITPWC0009	Inserto WC..020102	Insert WC..020102	2
Q	CAXCB0047	Chiave a brugola da 5 mm	Allen key 5 mm	1
R	CAXCB0046	Chiave a brugola da 4 mm	Allen key 4 mm	1
S	CAXCB0054	Chiave a brugola da 2.5 mm	Allen key 2.5 mm	1
T	RFE0009	Chiave torx 6	Torx key 6	1
U	RFE0011	Chiave torx 9	Torx key 9	1



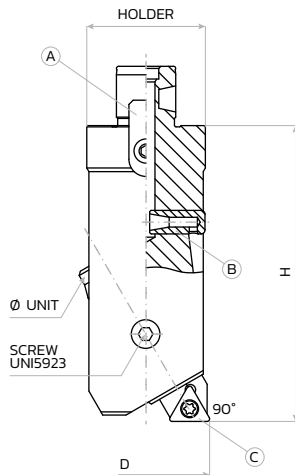
NEW

UIPBF1

testine filettate microregistrabili | thread head

Per le prolunghe vedi pagina F24
For the extension please see page F24

	DIMENSIONI - DIMENSIONS				INSERT	MICRO BORE	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	L	M	d						
UIPBF10068	10-12	29	5	9	TB..0601	-	RUV0005	-	-	RFE0009
UIPBF10069	12-14	35	6	11	TP..0902	-	RFV0089	-	-	RFE0010
UIPBF10070	14-17	35	6	11	TP..0902	-	RFV0089	-	-	RFE0010
UIPBF10071	16-21	38	8	13	TP..0902	-	RFV0089	-	-	RFE0010
UIPBF10072	20-28	42	10	19	TP..0902	-	RFV0089	-	-	RFE0010



ADJUSTABLE

WITH COOLANT

BMBAM

bareni finitori mini dal Ø 20 al Ø 55 | fine boring tools

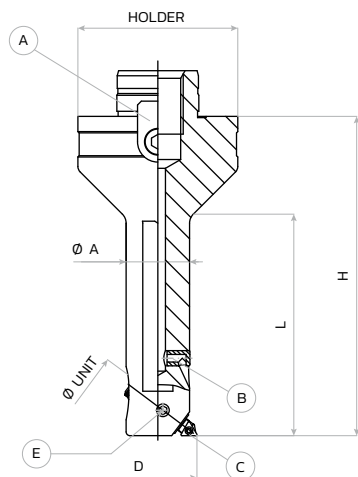
Attenzione: l'unità micro deve essere ordinata separatamente (vedi pag B 34)
Please note: the micro bore must be ordered separately (see pg B 34).

	DIMENSIONI - DIMENSIONS					INSERT	MICRO BORE	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	attacco holder	D min-max	H	Ø unit	kg			A	B		
BMBAM182026	mini Ø18	20 - 26	40	10	0,10	TB.. 0601..	UIPBF10011	-	RMA0001	-	-
BMBAM222633	mini Ø22	26 - 33	50	10	0,10	TB.. 0601..	UIPBF10018	-	RMA0001	-	-
BMBAM283244	mini Ø28	32 - 44	50	10	0,20	TB.. 0601..	UIPBF10006	RMH0012	RMA0001	-	-
BMBAM354055	mini Ø35	40 - 55	65	12	0,40	TB.. 0601..	UIPBF10007	RMH0013	RMA0001	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



AMBA

barani finitori dal $\varnothing$ 20 al $\varnothing$ 112 | fine boring tools

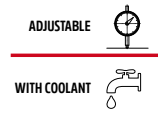
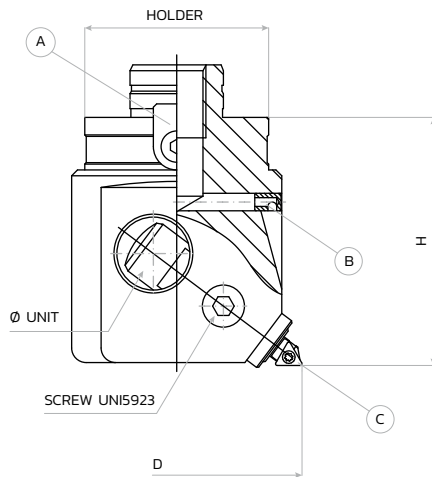
Attenzione: l'unità micro deve essere ordinata separatamente (vedi pag B 34)
Please note: the micro bore must be ordered separately (see pg B 34).

	DIMENSIONI - DIMENSIONS							INSERT	MICRO BORE	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
	attacco holder	D min-max	L	H	$\varnothing$ A	$\varnothing$ unit	kg			A	B	E		
AMBAM502026	50	20 - 26	55	90	18	10	0,70	TB.. 0601..	UIPBF10011	RMH0001	RMA0001	RAN0058	$\varnothing$ 2	CAXCB0058
AMBAM502633	50	26 - 33	70	105	20	10	0,80	TB.. 0601..	UIPBF10018	RMH0001	RMA0001	RAN0059	$\varnothing$ 2,5	CAXCB0054
AMBAM503244	50	32 - 44	87	118,5	25	10	0,90	TB.. 0601..	UIPBF10006	RMH0001	RMA0001	RAN0060	$\varnothing$ 3	CAXCB0045
AMBAM504055	50	40 - 55	108	135	32	12	1,20	TB.. 0601..	UIPBF10007	RMH0001	RMA0001	RAN0061	$\varnothing$ 4	CAXCB0046
AMBAM632026	63	20 - 26	55	90	18	10	0,80	TB.. 0601..	UIPBF10011	RMH0002	RMA0001	RAN0061	$\varnothing$ 4	CAXCB0046
AMBAM632633	63	26 - 33	70	105	20	10	0,90	TB.. 0601..	UIPBF10018	RMH0002	RMA0001	RAN0061	$\varnothing$ 4	CAXCB0046
AMBAM633244	63	32 - 44	87	125	25	10	1,20	TB.. 0601..	UIPBF10006	RMH0002	RMA0001	RAN0061	$\varnothing$ 4	CAXCB0046
AMBAM634055	63	40 - 55	108	150	32	12	1,50	TB.. 0601..	UIPBF10007	RMH0002	RMA0001	RAN0061	$\varnothing$ 4	CAXCB0046
AMBAM635068	63	50 - 68	135	175	40	16	2,30	TP.. 0802..	UIPBF10008	RMH0002	RMA0001	RAN0064	$\varnothing$ 5	CAXCB0047
AMBAM636886	63	68 - 86	200	200	58	16	3,00	TP.. 0802..	UIPBF10008	RMH0002	RMA0001	RAN0064	$\varnothing$ 5	CAXCB0047
AMBAM806886	80	68 - 86	120	200	58	16	4,00	TP.. 0802..	UIPBF10008	RMH0003	RMA0001	RAN0064	$\varnothing$ 5	CAXCB0047
AMBAM8086112	80	86 - 112	200	200	72	20	5,00	TP.. 0802..	UIPBF10019	RMH0003	RMA0001	RAN0063	$\varnothing$ 6	CAXCB0075

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



Attenzione: l'unità micro deve essere ordinata separatamente (vedi pag B 34)
Please note: the micro bore must be ordered separately (see pg B 34).

AMBA..C

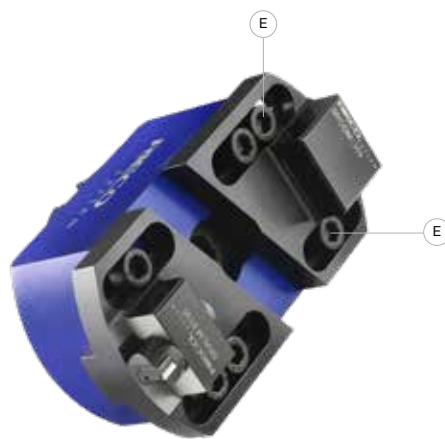
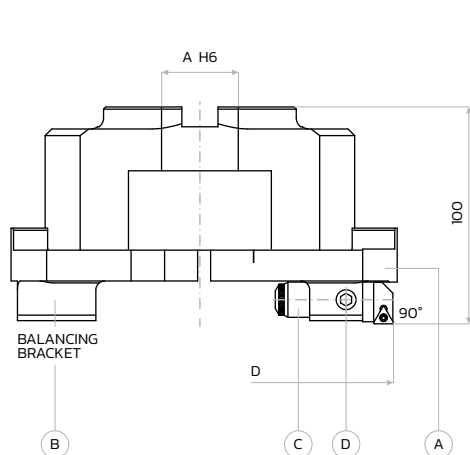
barani finitori dal $\varnothing$ 50 al $\varnothing$ 112 | fine boring tools

	DIMENSIONI - DIMENSIONS					INSERT	MICRO BORE	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	attacco holder	D min-max	H	Ø unit	kg			A	B		
AMBAM505068C	50	50 - 68	65	16	0,80	TP..0802..	UIPBF10008	RMH0001	RMA0001	-	-
AMBAM636886C	63	68 - 86	75	16	1,30	TP..0802..	UIPBF10008	RMH0002	RMA0001	-	-
AMBAM6386112C	63	86 - 112	85	20	1,90	TP..0802..	UIPBF10019	RMH0002	RMA0001	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



DIN6358

ADJUSTABLE

Attenzione: l'unità micro deve essere ordinata separatamente (vedi pag B 35) - Please note: the micro bore must be ordered separately (see pg B 35).
Platello realizzato in lega leggera Rm 550 N/mm² - pad made of light alloy Rm550 N/mm²
Gli allargatori sono forniti completi di slitte escluso unità - Counterbores are supplied with slides, cartridges are not included.

AMBA

barani finitori in lega leggera dal Ø 110 al Ø 655 serie corta | fine boring tools in light alloy - short version

	DIMENSIONI - DIMENSIONS			INSERT	MICRO BORE	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
	D min-max	A H6	kg			A	B	D	E	
AMBAD40110150	Ø 110 - 150	40	2,50	TP..0802..	UIPBFIO015	SRALM8134	SRCOM8358	RAN0064	8 RAV0090	6
AMBAD40145205	Ø 145 - 205	40	3,40	TP..0802..	UIPBFIO015	SRALM8135	SRCOM8359	RAN0064	8 RAV0087	8
AMBAD40200260	Ø 200 - 260	40	3,80	TP..0802..	UIPBFIO015	SRALM8135	SRCOM8359	RAN0064	8 RAV0087	8
AMBAD40255355	Ø 255 - 355	40	5,20	TP..0802..	UIPBFIO065	SRALM23822	SRCOM23823	RAN0065	6 RAV0088	10
AMBAD60355455	Ø 355 - 455	60	6,00	TP..0802..	UIPBFIO065	SRALM23822	SRCOM23823	RAN0065	6 RAV0088	10
AMBAD60455555	Ø 455 - 555	60	8,70	TP..0802..	UIPBFIO065	SRALM23822	SRCOM23823	RAN0065	6 RAV0088	10
AMBAD60555655	Ø 555 - 655	60	10,40	TP..0802..	UIPBFIO065	SRALM23822	SRCOM23823	RAN0065	6 RAV0088	10

ALLARGATORI COMPLETI DI VITI DI FISSAGGIO AL PORTA FRESE*

Vite TCCE M20x40 per portafrese da Ø 40 gamma 110-150/145-205/200-260
Viti TCCE M12x60 per portafrese da Ø 40 gamma 255-355 (fissaggio a 4 fori)
Viti TCCE M16x60 per portafrese da Ø 60 gamma 355-455/455-555/555-655 (fissaggio a 4 fori)

* Lista porta frese a pagina A 39

COUNTERBORE PROVIDED WITH SCREWS FOR LOCKING TO SIDE AND FACE MILLS*

TCCE M20x40 screw for Ø 40 (mill) holders range 110-150/145-205/200-260
TCCE M12x60 screws for Ø 40 (mill) holders range 255-355 (4 holes fixing)
TCCE M16x60 screws for Ø 60 (mill) holders range 355-455/455-555/555-655 (4 holes fixing)

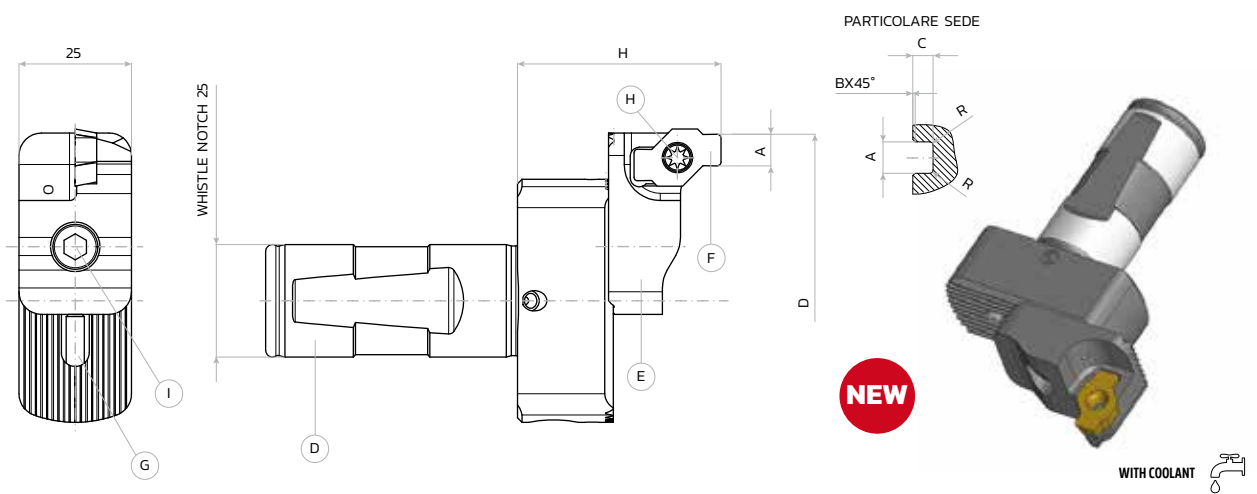
* List of adaptors for side and face mills at pg A 39

MATERIALI | MATERIALS

P-M rivestito per acciaio-acciaio inox
P-M coated for steel-stainless steel

P-K rivestito per ghisa e acciai duri
P-K coated for cast iron - hard steel

N nudo per alluminio e materiali non ferrosi
N uncoated for aluminum-non ferrous materials



AMOR

lavorazioni sedi OR | machining OR locations

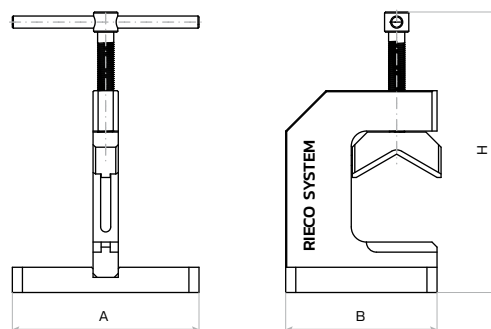
	DIMENSIONI - DIMENSIONS		INSERT	SPARE PARTS				ACCESSORI - ACCESSORIES	
	D min-max	H		F	G	H	I		
AMOR251256	12-56	40	XDOR 1503	AMCAOR1256	RAN0057	RUV0001	RAV0127	RFE0014	-
AMOR254878	48-78	45,2	XPOR 200470	AMCAOR4878	RAN0057	RUV0003	RAV0127	RFE0015	-

	ARTICOLO	DIMENSIONI - DIMENSIONS				HY2510	HN10	HK1006
		A	B	C	R			
	XDOR 150325	2,5	0,3	1,4	0,4			
	150335	3,5	0,3	2,2	0,4			
	150345	4,5	0,5	2,9	0,4			
	XPOR 200470	7	0,5	4,5	0,8			

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

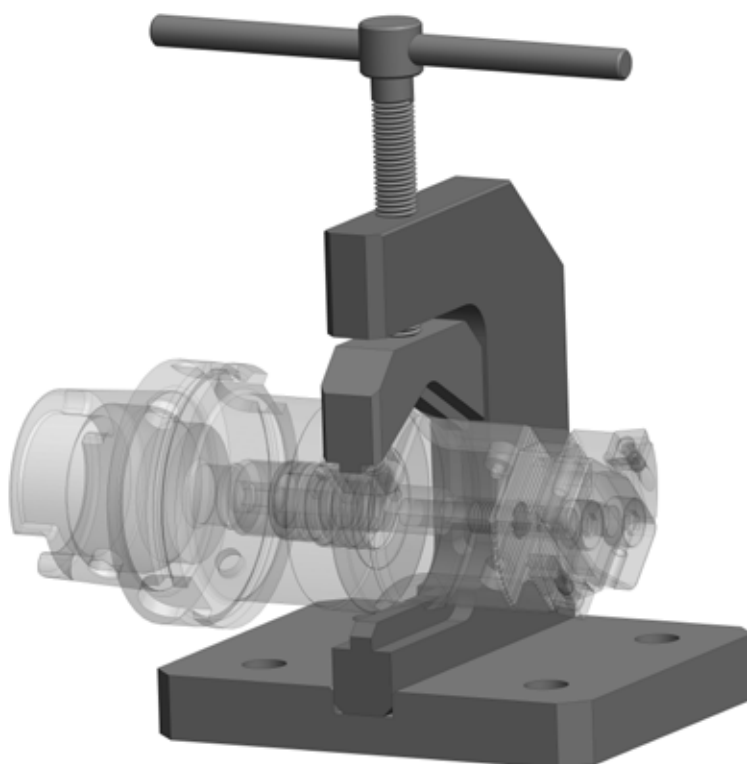
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



AMMO

morsa per modulari | modular system assembly vise

	DIMENSIONI - DIMENSIONS				PARTI DI RICAMBIO - SPARE PARTS			ACCESSORI - ACCESSORIES		
	A	B	H	kg						
AMM0506380	185	150	278	7,60	-	-	-	-	-	-



NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

ADATTATORI SPECIALI

CUSTOMIZED ADAPTORS



CARTUCCE SPECIALI

SPECIAL CARTRIDGES



MISURE FUORI STANDARD A RICHIESTA
CUSTOMIZED DIMENSIONS ON REQUEST

CARTUCCE

CARTRIDGES



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UIPBFI

unità micro
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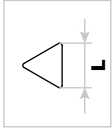
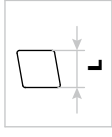
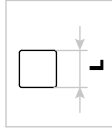
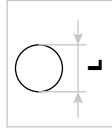
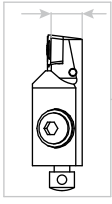
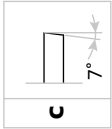
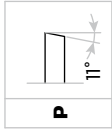
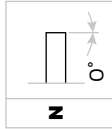
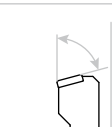
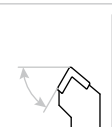
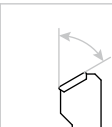
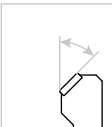
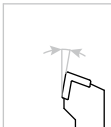
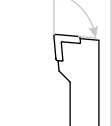
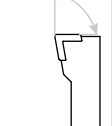
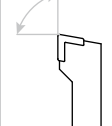
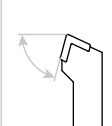
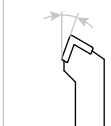
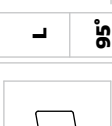
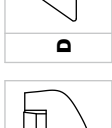
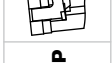
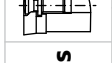


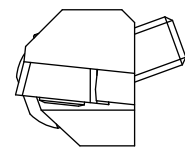
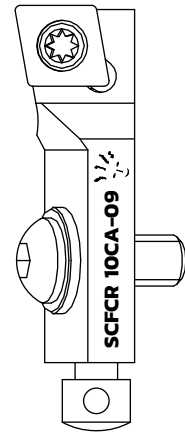
UIPBFI

unità micro
micro bore

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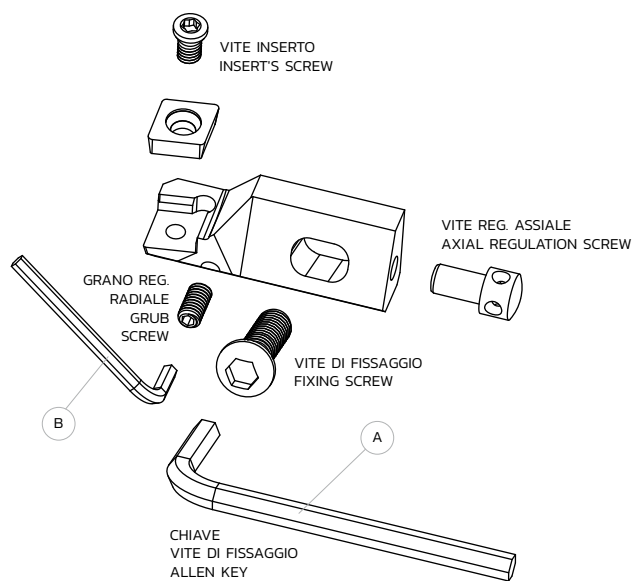
CHIAVI DEI CODICI CARTUCCE | CARTRIDGES CODES

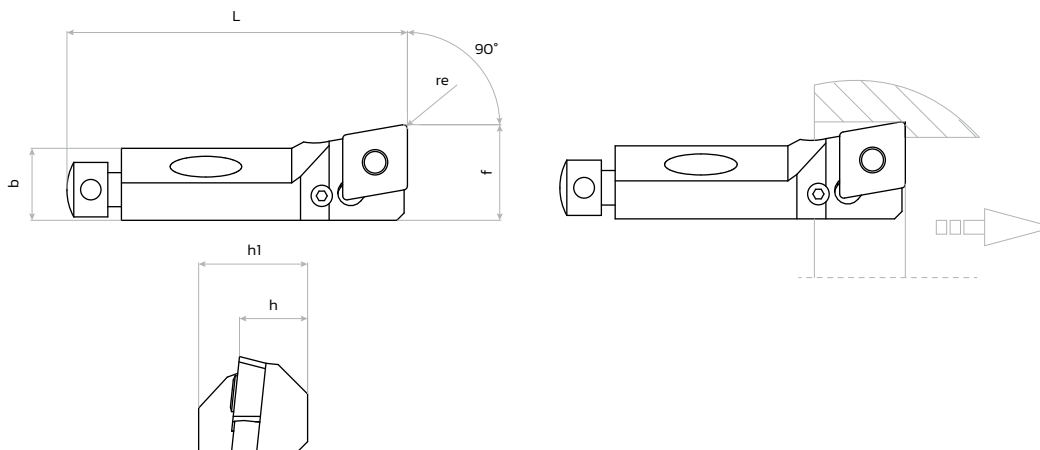
								09		LUNGHEZZA TAGLIANTE EDGE LENGTH				
INDICAZIONE CONFORMITÀ NORME ISO5611 INDICATIONS TO ISO5611								-		LUNGHEZZA UTENSILE SECOND ISO5611 TOOL LENGTH ACCORDING TO ISO5611				
PROGETTI ALTERNATIVI SECONDO LE NORMA ISO5611 ALTERNATIVE PROJECTS ACCORDING TO ISO5611								A		PROGETTO ISO5611 PROJECT ISO5611				
CARTUCCIA - CARTRIDGE								C		CARTUCCIA CARTRIDGE				
								10		ALTEZZA TAGLIANTE EDGE HEIGHT				
										R		ROTAZIONE UTENSILE TOOL DIRECTION		
												C		ANGOLO SPOGLIA INFERIORE INSERTO LOWER ANGLE
										F		ANGOLO DI LAVORAZIONE WORKING DIRECTION		
														
														
														
														
P		D		R		S		T		C		FORMA DELL'INSERTO INSERT'S SHAPE		
										S		SISTEMA DI BLOCCAGGIO FIXING SYSTEM		



RICAMBI PER CARTUCCE | CARTRIDGES SPARE PARTS

	VITE DI FISSAGGIO FIXING SCREW	CHIAVE VITE FISS. ALLEN KEY	GRANO REG RADIALE GRUB SCREW	CHIAVE VITE REG. ALLEN KEY	VITE REG. ASSIALE AXIAL REGUL. SCREW
					
06 CA	RUV0234	CAXCB0058	RAN0066	CAXCB0044	RUV0205
08 CA	RUV0235	CAXCB0045	RAN0067	CAXCB0058	RUV0203
10 CA	RUV0288	CAXCB0046	RAN0068	CAXCB0058	RUV0202
12 CA	RUV0283	CAXCB0047	RAN0068	CAXCB0058	RUV0202
16 CA	RUV0237	CAXCB0075	RAN0068	CAXCB0058	RUV0204



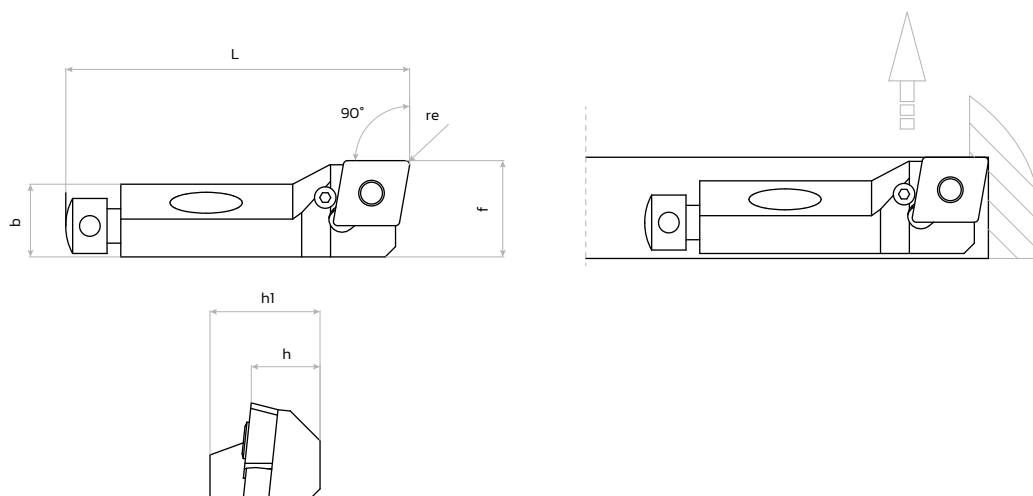


PCFNR/L

fissaggio a leva | lever lock

I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0025	PCFNR 12CA-12	12	20	15	55	20 (0.8)	50	CN..1204	-	RUL0010	RUV0139	-	CAXCB0054
UINBCI0026	PCFNL 12CA-12	12	20	15	55	20 (0.8)	50	CN..1204	-	RUL0010	RUV0139	-	CAXCB0054
UINBCI0010	PCFNR 16CA-12	16	25	20	63	25 (0.8)	55	CN..1204	RUA0017	RUL0002	RUV0041	RUB0002	CAXCB0045
UINBCI0055	PCFNL 16CA-12	16	25	20	63	25 (0.8)	55	CN..1204	RUA0017	RUL0002	RUV0041	RUB0002	CAXCB0045



PCGNR/L

fissaggio a leva | lever lock

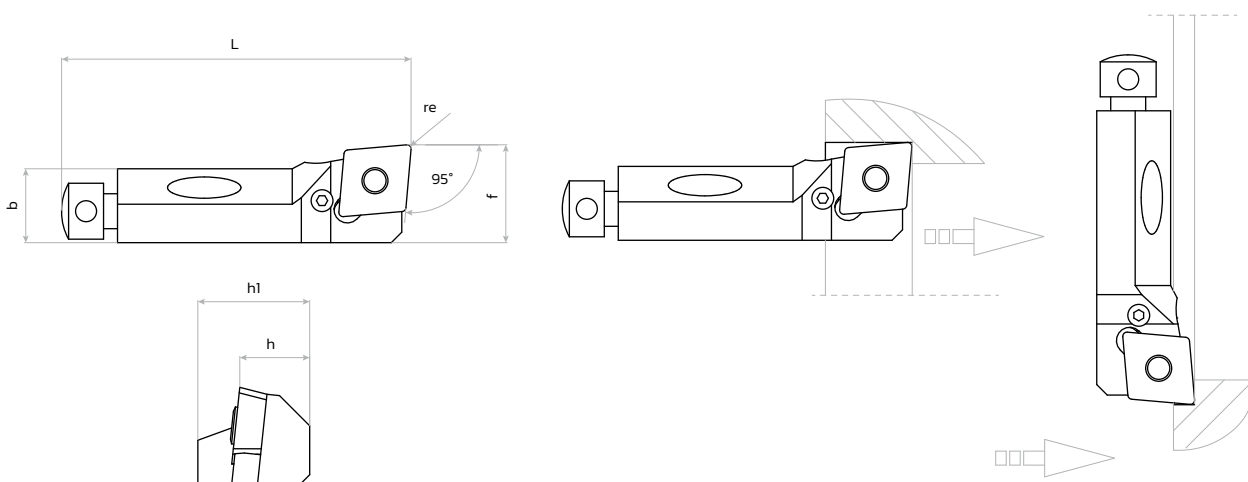
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0033	PCGNR 16CA-12	16	25	20	63	25 (0.8)	60	CN..1204	RUA0017	RUL0002	RUV0041	RUB0002	CAXCB0045
UINBCI0034	PCGNL 16CA-12	16	25	20	63	25 (0.8)	60	CN..1204	RUA0017	RUL0002	RUV0041	RUB0002	CAXCB0045

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

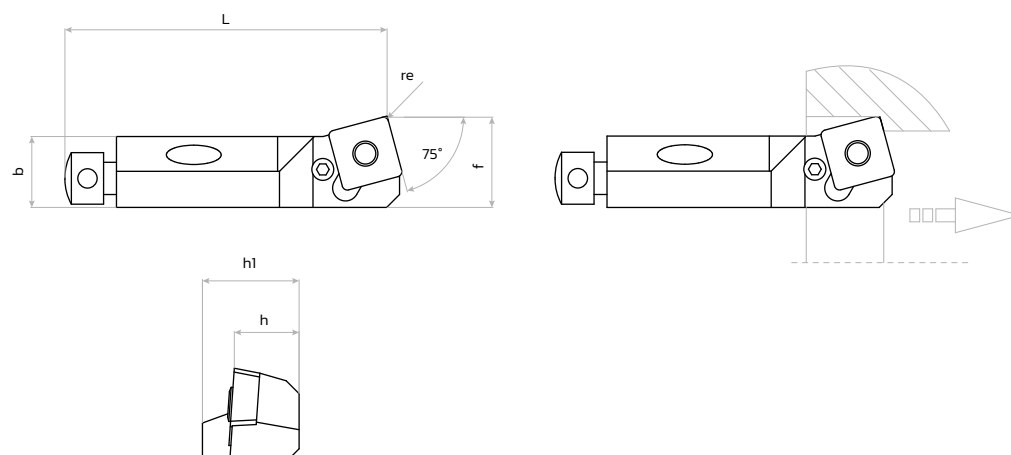


I disegni mostrano utensili destri - Right-hand shown.

PCLNR/L

fissaggio a leva | lever lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0035	PCLNR 12CA-12	12	20	15	55	20 (0.8)	50	CN..1204	-	RUL0010	RUV0139	-	CAXCB0054
UINBCI0036	PCLNL 12CA-12	12	20	15	55	20 (0.8)	50	CN..1204	-	RUL0010	RUV0139	-	CAXCB0054
UINBCI0015	PCLNR 16CA-12	16	25	20	63	25 (0.8)	55	CN..1204	RUA0017	RUL0002	RUV0041	RUB0002	CAXCB0045
UINBCI0007	PCLNL 16CA-12	16	25	20	63	25 (0.8)	55	CN..1204	RUA0017	RUL0002	RUV0041	RUB0002	CAXCB0045



I disegni mostrano utensili destri - Right-hand shown.

PSKNR/L

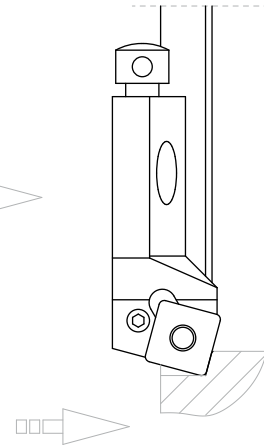
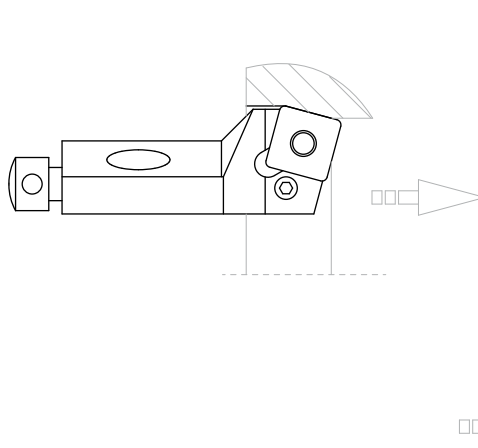
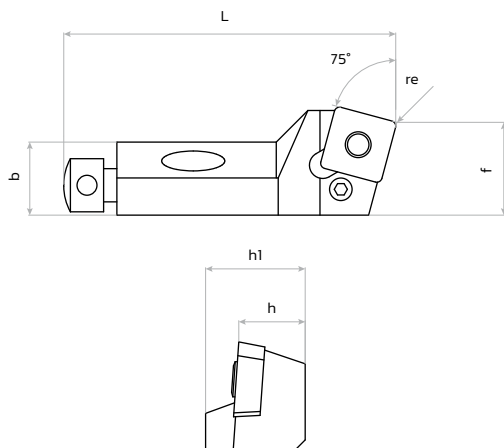
fissaggio a leva | lever lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0024	PSKNR 12CA-12	12	20	15	55	20 (0.8)	50	SN..1204	-	RUL0010	RUV0139	-	CAXCB0054
UINBCI0016	PSKNL 12CA-12	12	20	15	55	20 (0.8)	50	SN..1204	-	RUL0010	RUV0139	-	CAXCB0054
UINBCI0001	PSKNR 16CA-12	16	25	20	63	25 (0.8)	55	SN..1204	RUA0005	RUL0002	RUV0041	RUB0002	CAXCB0045
UINBCI0037	PSKNL 16CA-12	16	25	20	63	25 (0.8)	55	SN..1204	RUA0005	RUL0002	RUV0041	RUB0002	CAXCB0045

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

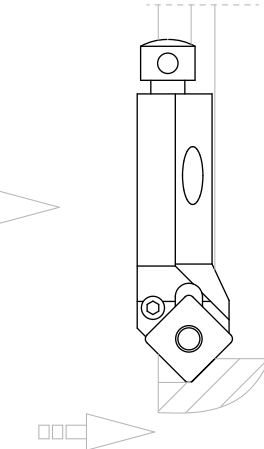
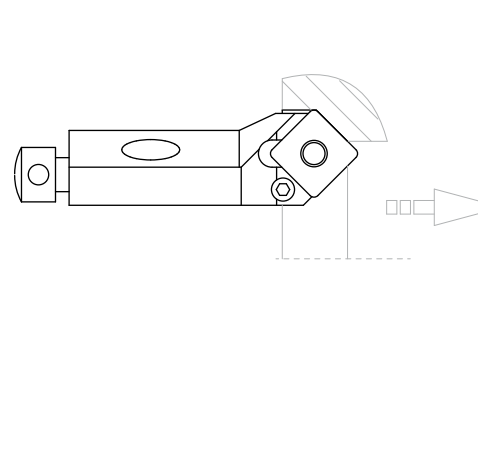
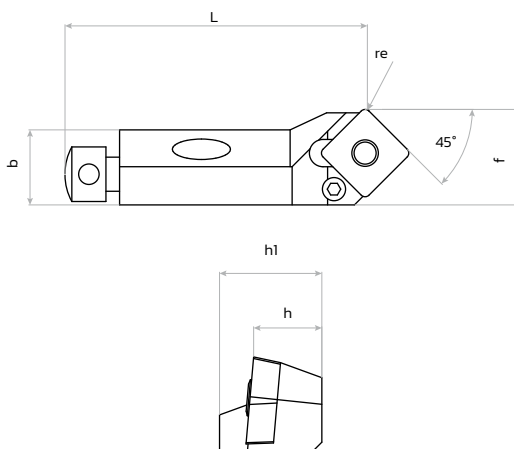


I disegni mostrano utensili destri - Right-hand shown.

PSRNR/L

fissaggio a leva | lever lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0038	PSRNR 16CA-12	16	25	20	63	25 (0.8)	60	SN..1204	RUA0005	RUL0002	RUUV0041	RUB0002	CAXCB0045
UINBCI0006	PSRNL 16CA-12	16	25	20	63	25 (0.8)	60	SN..1204	RUA0005	RUL0002	RUUV0041	RUB0002	CAXCB0045



I disegni mostrano utensili destri - Right-hand shown.

PSSNR/L

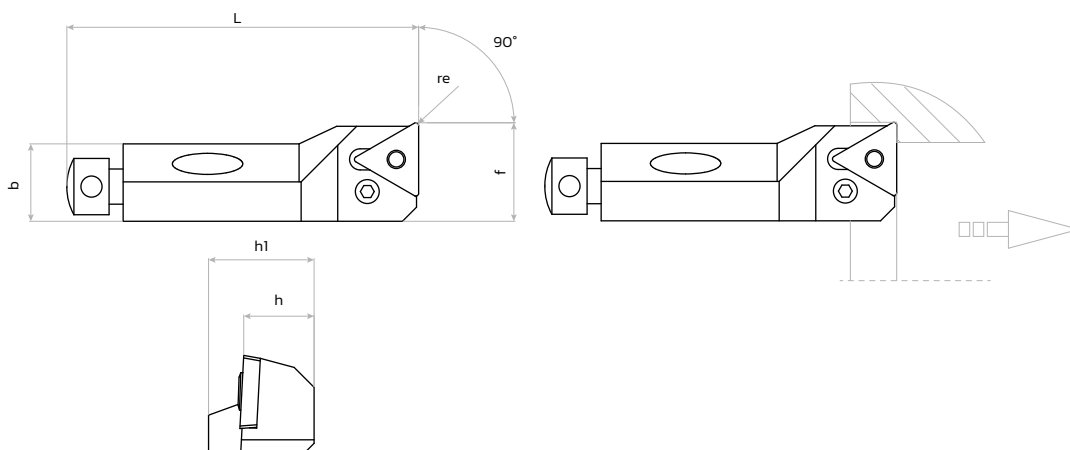
fissaggio a leva | lever lock

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		h	h1	b	L	F (re)	D min						
UINBCI0023	PSSNR 12CA-12	12	20	15	47	20 (0.8)	50	SN..1204	-	RUL0010	RUUV0139	-	CAXCB0054
UINBCI0039	PSSNL 12CA-12	12	20	15	47	20 (0.8)	50	SN..1204	-	RUL0010	RUUV0139	-	CAXCB0054
UINBCI0040	PSSNR 16CA-12	16	25	20	53	25 (0.8)	55	SN..1204	RUA0005	RUL0002	RUUV0041	RUB0002	CAXCB0045
UINBCI0041	PSSNL 16CA-12	16	25	20	53	25 (0.8)	55	SN..1204	RUA0005	RUL0002	RUUV0041	RUB0002	CAXCB0045

NOTE

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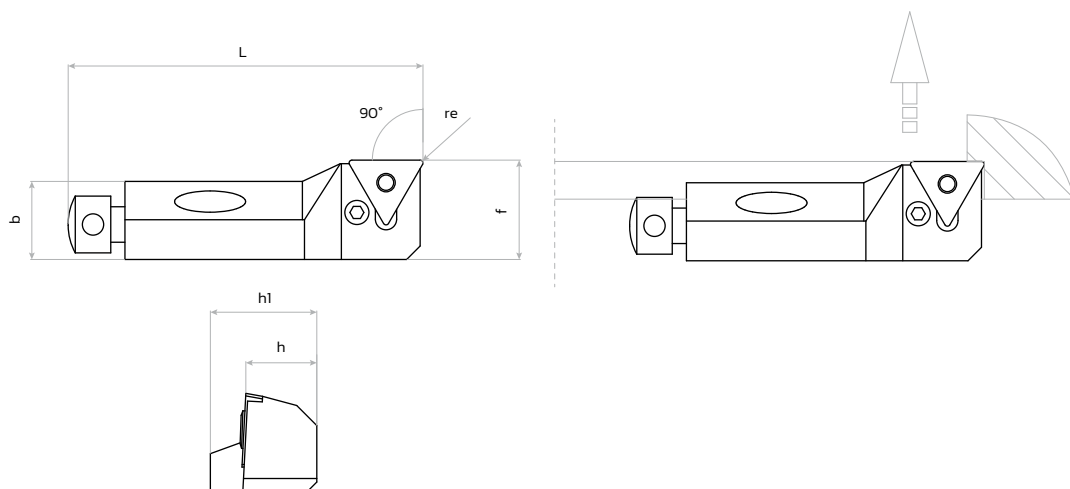


PTFNR/L

fissaggio a leva | lever lock

I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0021	PTFNR 12CA-16	12	20	15	55	20 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0020	PTFNL 12CA-16	12	20	15	55	20 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0028	PTFNR 16CA-16	16	25	20	63	25 (0.8)	55	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054
UINBCI0012	PTFNL 16CA-16	16	25	20	63	25 (0.8)	55	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054



PTGNR/L

fissaggio a leva | lever lock

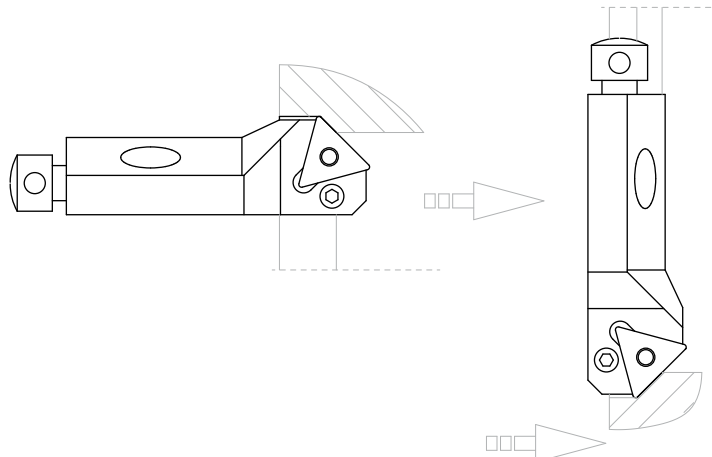
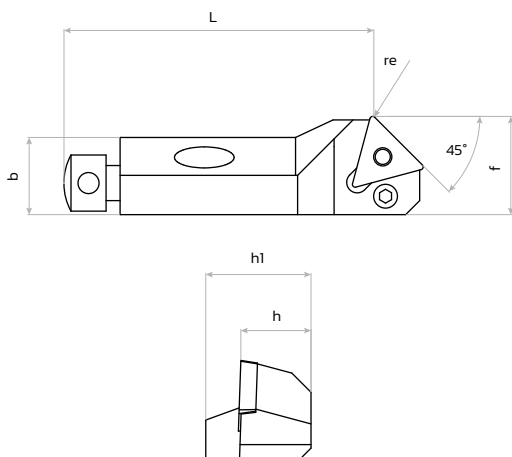
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0042	PTGNR 12CA-16	12	20	15	55	20 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0027	PTGNL 12CA-16	12	20	15	55	20 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0043	PTGNR 16CA-16	16	25	20	63	25 (0.8)	60	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054
UINBCI0013	PTGNL 16CA-16	16	25	20	63	25 (0.8)	60	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054

NOTE

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Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

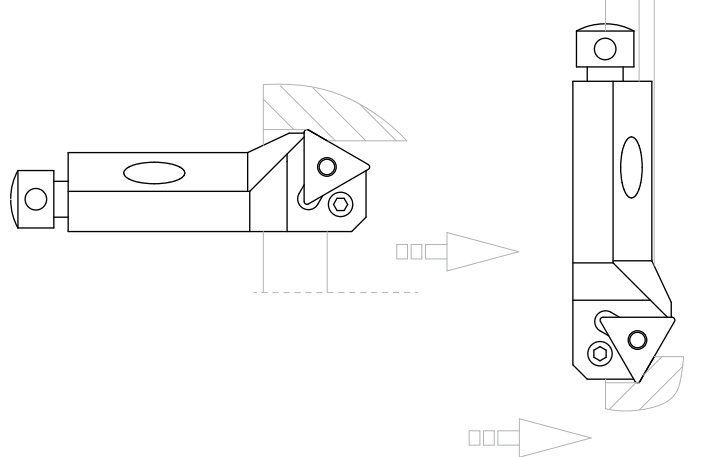
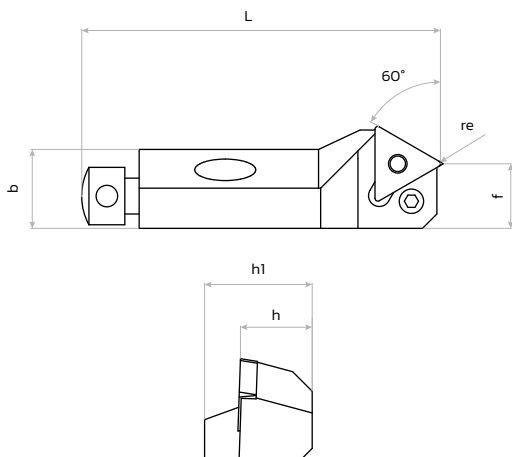


PTSNR/L

fissaggio a leva | lever lock

I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0019	PTSNR 12CA-16	12	20	15	47	20 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0044	PTSNL 12CA-16	12	20	15	47	20 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0045	PTSNR 16CA-16	16	25	20	53	25 (0.8)	55	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054
UINBCI0046	PTSNL 16CA-16	16	25	20	53	25 (0.8)	55	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054



PTTNR/L

fissaggio a leva | lever lock

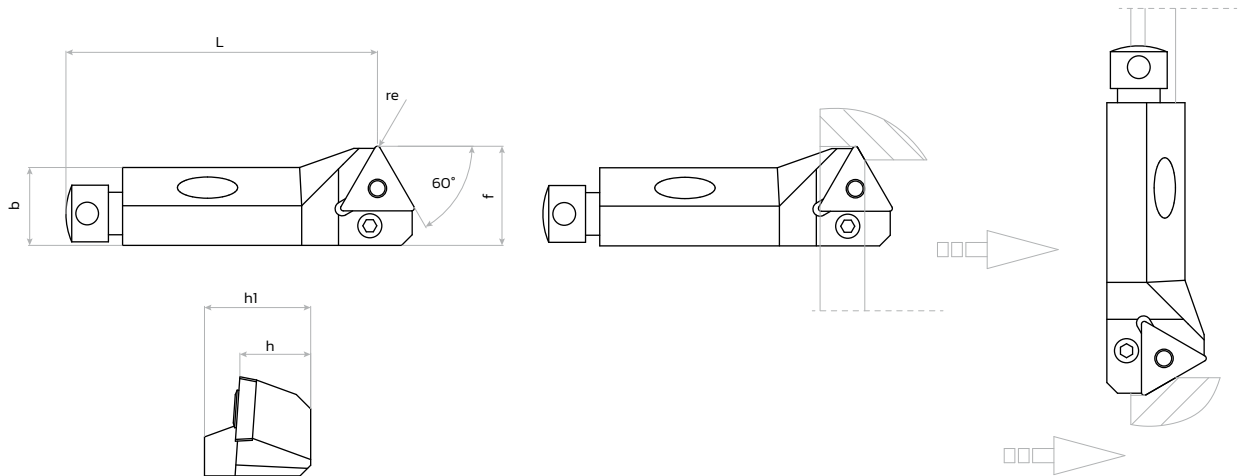
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0047	PTTNR 12CA-16	12	20	15	55	13 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0048	PTTNL 12CA-16	12	20	15	55	13 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0049	PTTNR 16CA-16	16	25	20	63	15 (0.8)	60	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054
UINBCI0050	PTTNL 16CA-16	16	25	20	63	15 (0.8)	60	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



I disegni mostrano utensili destri - Right-hand shown.

PTWNR/L

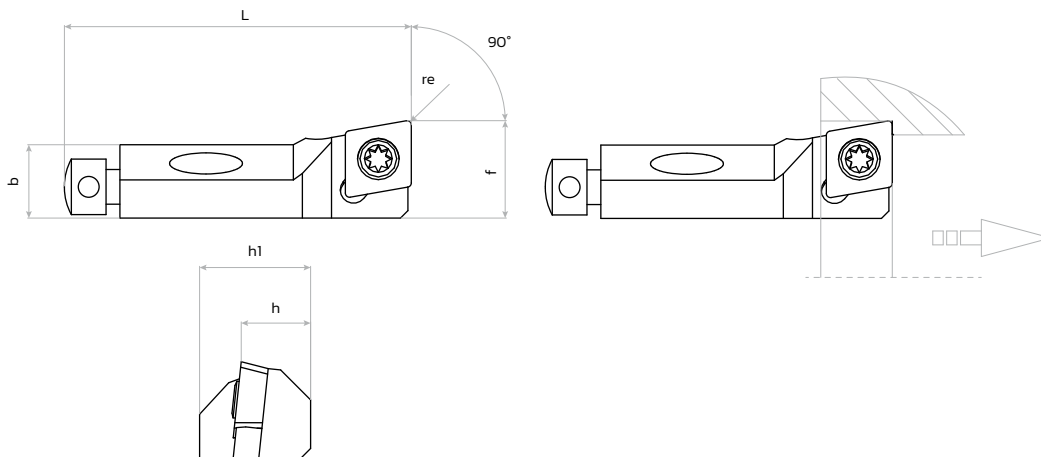
fissaggio a leva | lever lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UINBCI0029	PTWNR 12CA-16	12	20	15	47	20 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0051	PTWNL 12CA-16	12	20	15	47	20 (0.8)	50	TN..1604	-	RUL0020	RUV0140	-	CAXCB0058
UINBCI0052	PTWNR 16CA-16	16	25	20	53	25 (0.8)	55	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054
UINBCI0053	PTWNL 16CA-16	16	25	20	53	25 (0.8)	55	TN..1604	RUA0003	RUL0001	RUV0004	RUB0001	CAXCB0054

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



SCFPR/L - SCFCR/L
fissaggio a vite | screw lock

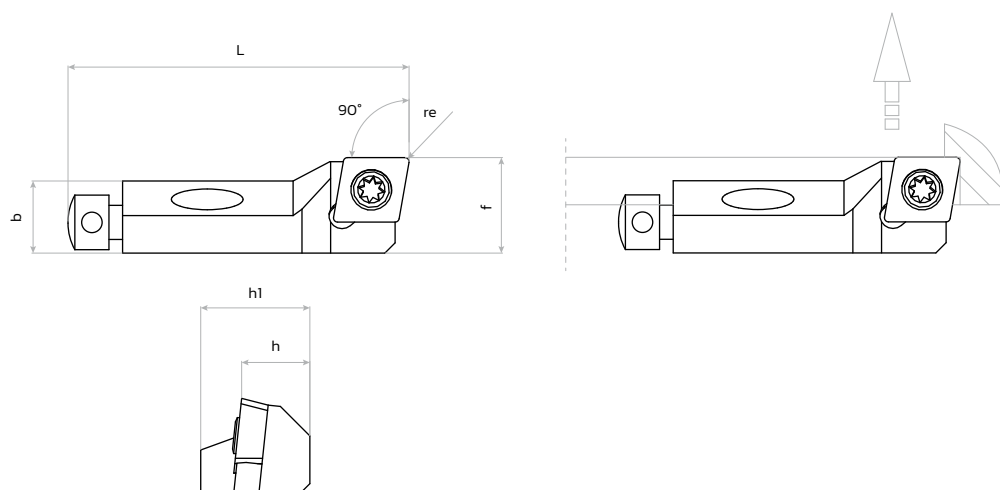
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0134	SCFPR 06CA-05T1	6	8.5	6	25	8 (0.4)	15	CP..05T1	RUV0082	-	-	-	RFE0009
UIPBCI0153	SCFPL 06CA-05T1	6	8.5	6	25	8 (0.4)	15	CP..05T1	RUV0082	-	-	-	RFE0009
UIPBCI0001	SCFCR 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0013
UIPBCI0012	SCFCL 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0013
UIPBCI0030	SCFCR 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0038	SCFCL 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0025	SCFCR 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0041	SCFCL 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

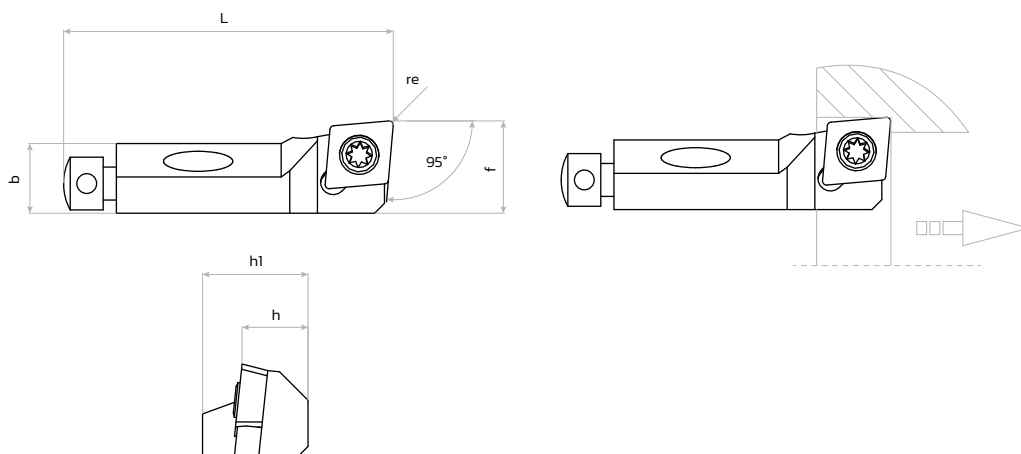


SCGCR/L

fissaggio a vite | screw lock

I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0040	SCGCR 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0033	SCGCL 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0058	SCGCR 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0061	SCGCL 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0064	SCGCR 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0059	SCGCL 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015



SCLCR/L

fissaggio a vite | screw lock

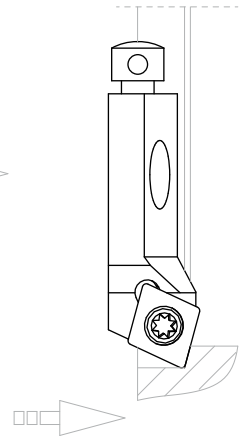
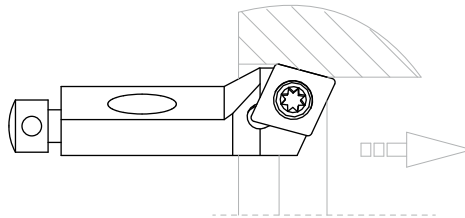
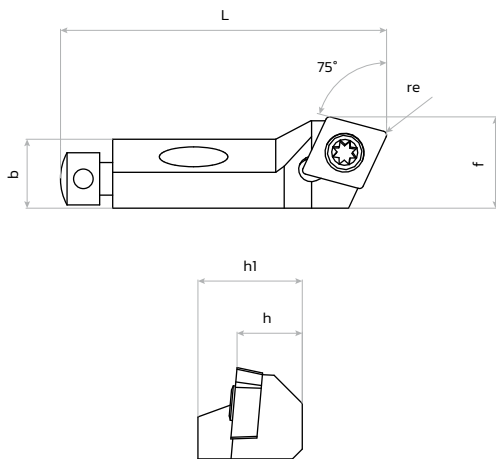
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0063	SCLCR 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0060	SCLCL 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0010	SCLCR 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0066	SCLCL 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0062	SCLCR 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0065	SCLCL 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

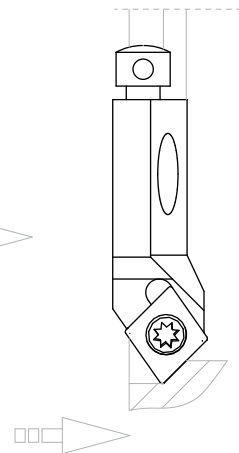
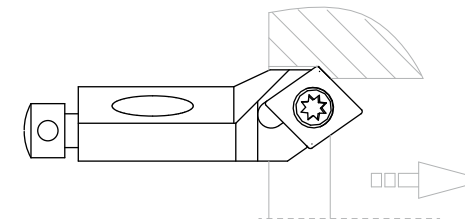
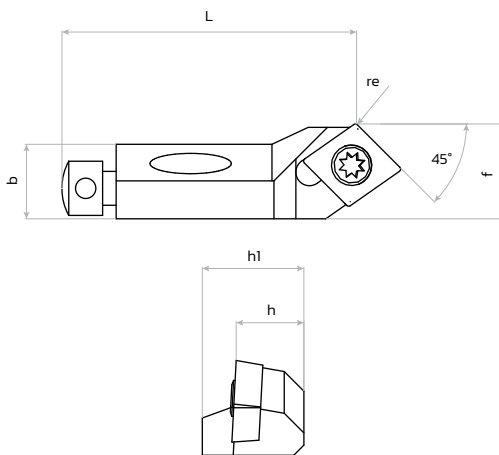


I disegni mostrano utensili destri - Right-hand shown.

SCRCR/L

fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	B	L	F (re)	D min						
UIPBCI0067	SCRCR 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0082	SCRCL 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0075	SCRCR 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0093	SCRCL 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0092	SCRCR 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0098	SCRCL 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015



I disegni mostrano utensili destri - Right-hand shown.

SCSPR/L - SCSCR/L

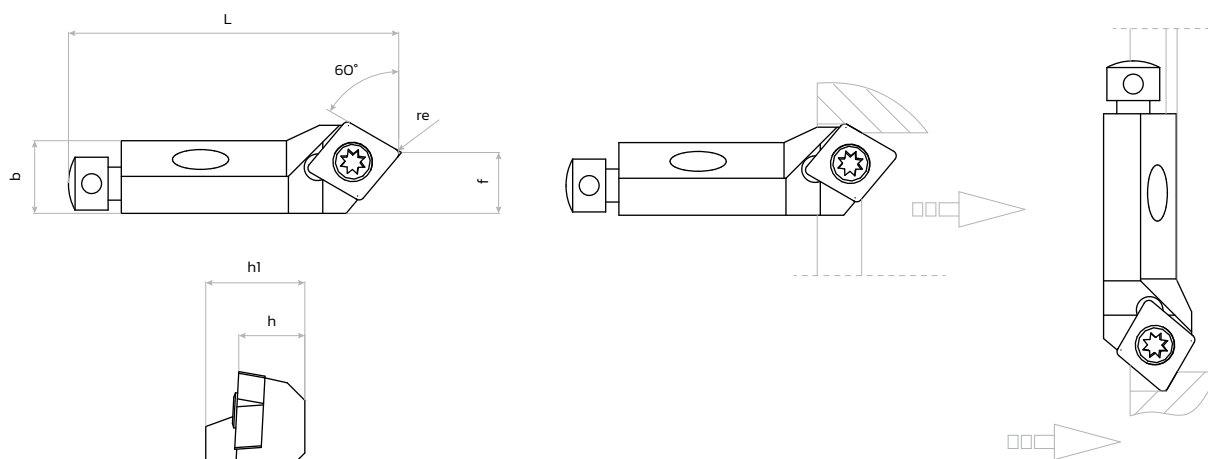
fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0138	SCSPR 06CA-05T1	6	8.5	6	21	8 (0.4)	15	CP..05T1	RUV0082	-	-	-	RFE0009
UIPBCI0157	SCSPL 06CA-05T1	6	8.5	6	21	8 (0.4)	15	CP..05T1	RUV0082	-	-	-	RFE0009
UIPBCI0009	SCSCR 06CA-06	6	8.5	6	21	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0011	SCSCL 06CA-06	6	8.5	6	21	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0079	SCSCR 10CA-09	10	15	11	44	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0104	SCSCL 10CA-09	10	15	11	44	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0101	SCSCR 12CA-12	12	20	15	47	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0107	SCSCL 12CA-12	12	20	15	47	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

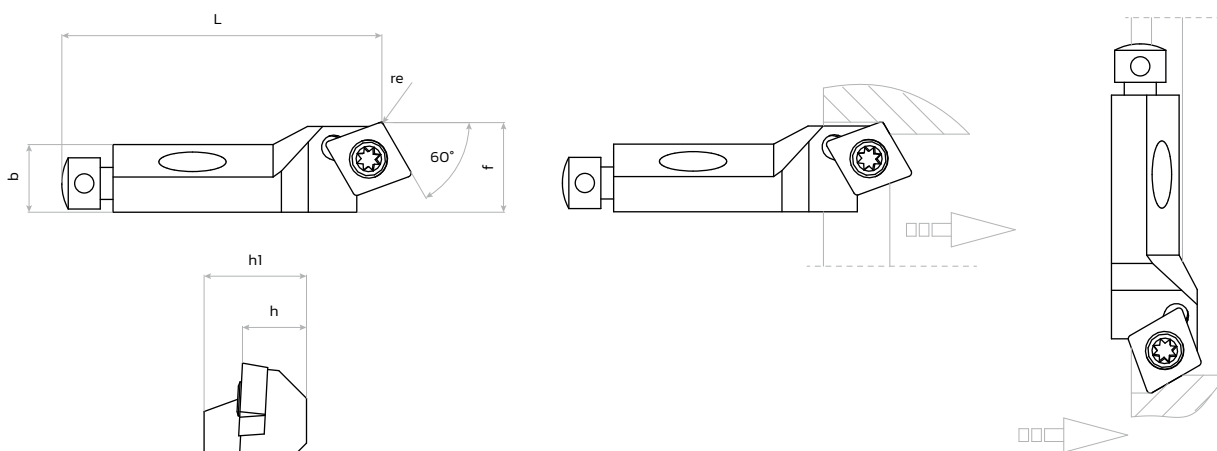


SCTCR/L

fissaggio a vite | screw lock

I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0002	SCTCR 06CA-06	6	8.5	6	25	5.5 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0032	SCTCL 06CA-06	6	8.5	6	25	5.5 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0081	SCTCR 10CA-09	10	15	11	50	9 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0068	SCTCL 10CA-09	10	15	11	50	9 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0094	SCTCR 12CA-12	12	20	15	55	13 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0097	SCTCL 12CA-12	12	20	15	55	13 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015



SCWCR/L

fissaggio a vite | screw lock

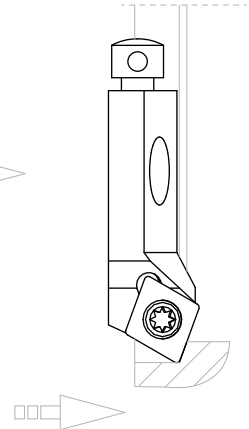
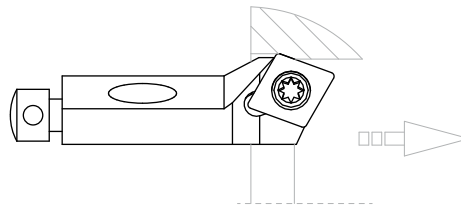
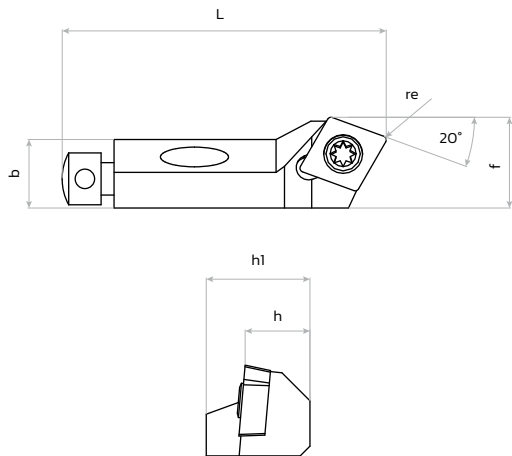
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	B	L	F (re)	D min						
UIPBCI0039	SCWCR 06CA-06	6	8.5	6	22	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0047	SCWCL 06CA-06	6	8.5	6	22	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0095	SCWCR 10CA-09	10	15	11	44	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0099	SCWCL 10CA-09	10	15	11	44	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0096	SCWCR 12CA-12	12	20	15	47	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0100	SCWCL 12CA-12	12	20	15	47	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

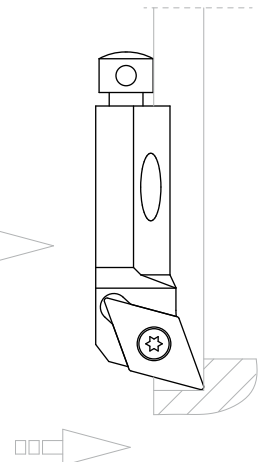
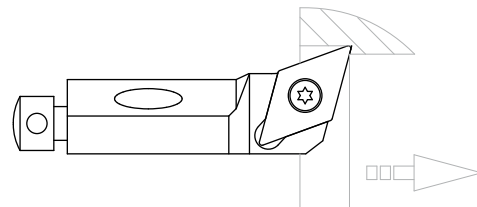
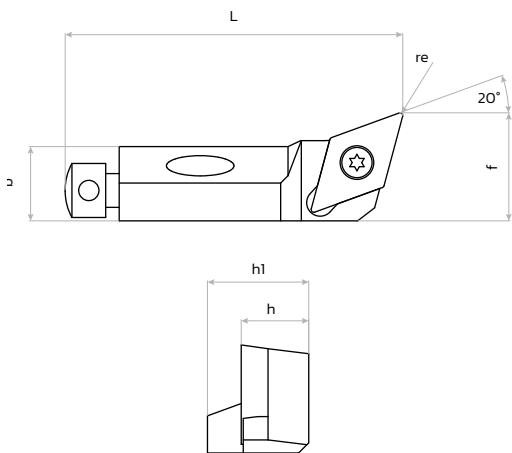


I disegni mostrano utensili destri - Right-hand shown.

SCXCR/L

fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0086	SCXCR 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0089	SCXCL 06CA-06	6	8.5	6	25	8 (0.4)	20	CC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0087	SCXCR 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0090	SCXCL 10CA-09	10	15	11	50	14 (0.8)	40	CC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0088	SCXCR 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0091	SCXCL 12CA-12	12	20	15	55	20 (0.8)	50	CC..1204	RUV0003	-	-	-	RFE0015



I disegni mostrano utensili destri - Right-hand shown.

SDXCR/L

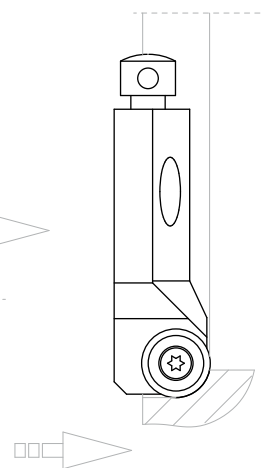
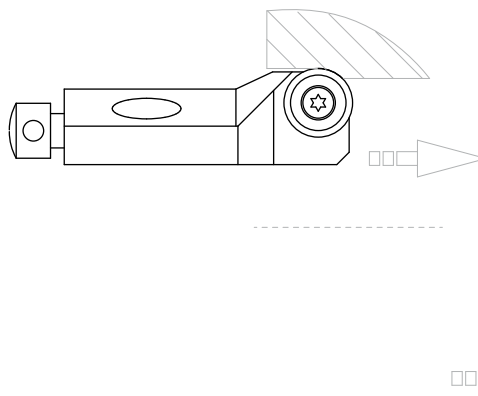
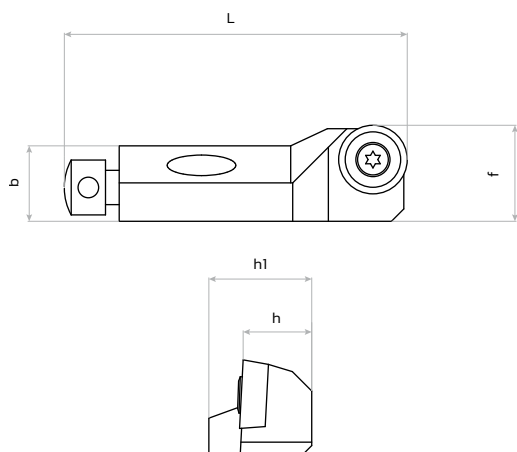
fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0080	SDXCR 10CA-11	10	15	11	50	16 (0.4)	40	DC..11T3	RUV0037	-	-	-	RFE0014
UIPBCI0084	SDXCL 10CA-11	10	15	11	50	16 (0.4)	40	DC..11T3	RUV0037	-	-	-	RFE0014

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

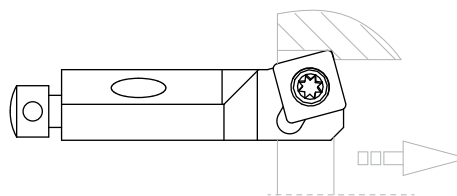
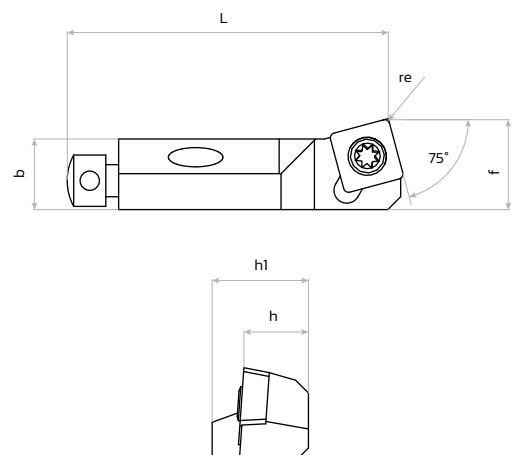


I disegni mostrano utensili destri - Right-hand shown.

SRSCR/L

fissaggio a vite | screw lock

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0117	SRSCR 06CA-06	6	8.5	6	25	8	20	RC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0124	SRSL 06CA-06	6	8.5	6	25	8	20	RC..0602	RFV0089	-	-	-	RFE0010
UIPBCI0142	SRSCR 08CA-08	8	12	7	32	10	25	RC..0803	RFV0090	-	-	-	RFE0011
UIPBCI0143	SRSL 08CA-08	8	12	7	32	10	25	RC..0803	RFV0090	-	-	-	RFE0011
UIPBCI0120	SRSCR 10CA-10	10	15	11	50	14	40	RC..10T3	RUV0037	-	-	-	RFE0014
UIPBCI0127	SRSL 10CA-10	10	15	11	50	14	40	RC..10T3	RUV0037	-	-	-	RFE0014
UIPBCI0139	SRSCR 12CA-12	12	20	15	55	20	50	RC..1204	RUV0037	-	-	-	RFE0014
UIPBCI0130	SRSL 12CA-12	12	20	15	55	20	50	RC..1204	RUV0037	-	-	-	RFE0014



I disegni mostrano utensili destri - Right-hand shown.

SSKCR/L

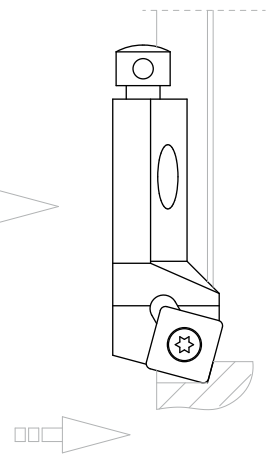
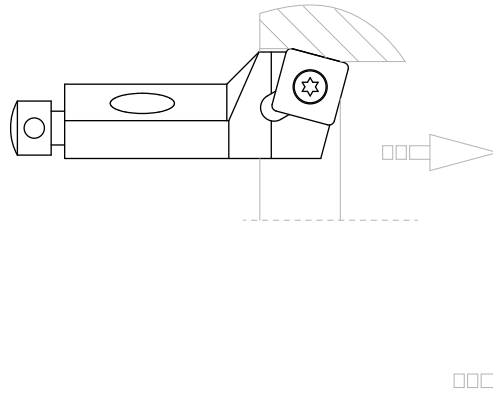
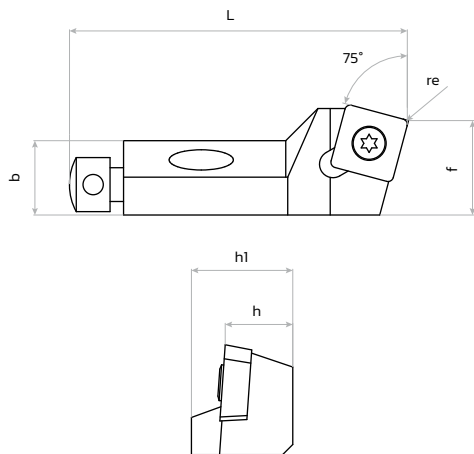
fissaggio a vite | screw lock

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0028	SSKCR 10CA-09	10	15	11	50	14 (0.8)	40	SC..09T3	RUV0037	-	-	RFE0014	-
UIPBCI0048	SSKCL 10CA-09	10	15	11	50	14 (0.8)	40	SC..09T3	RUV0037	-	-	RFE0014	-
UIPBCI0031	SSKCR 12CA-12	12	20	15	55	20 (0.8)	50	SC..1204	RUV0003	-	-	RFE0015	-
UIPBCI0049	SSKCL 12CA-12	12	20	15	55	20 (0.8)	50	SC..1204	RUV0003	-	-	RFE0015	-
UIPBCI0121	SSKCR 16CA-12	16	21	20	63	25 (0.8)	55	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPBCI0128	SSKCL 16CA-12	16	21	20	63	25 (0.8)	55	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

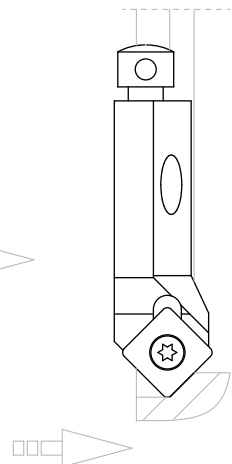
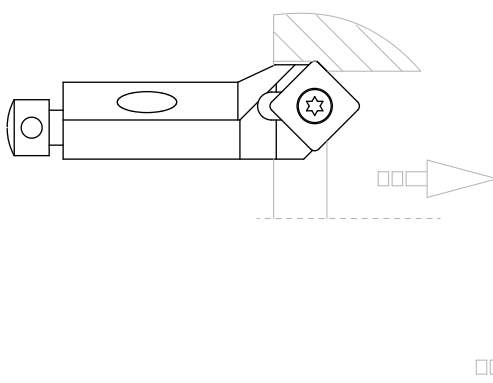
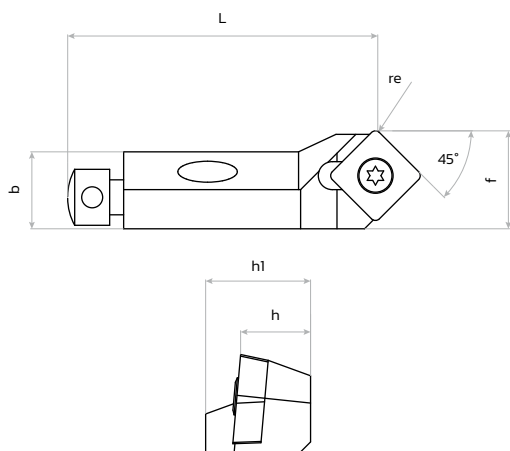


I disegni mostrano utensili destri - Right-hand shown.

SSRCR/L

fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0022	SSRCR 10CA-09	10	15	11	50	14 (0.8)	40	SC.09T3	RUV0037	-	-	RFE0014	-
UIPBCI0050	SSRCL 10CA-09	10	15	11	50	14 (0.8)	40	SC.09T3	RUV0037	-	-	RFE0014	-
UIPBCI0042	SSRCR 12CA-12	12	20	15	55	20 (0.8)	50	SC.1204	RUV0003	-	-	RFE0015	-
UIPBCI0051	SSRCL 12CA-12	12	20	15	55	20 (0.8)	50	SC.1204	RUV0003	-	-	RFE0015	-
UIPBCI0126	SSRCR 16CA-12	16	21	20	63	25 (0.8)	60	SC.1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPBCI0029	SSRCL 16CA-12	16	21	20	63	25 (0.8)	60	SC.1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046



I disegni mostrano utensili destri - Right-hand shown.

SSSCR/L

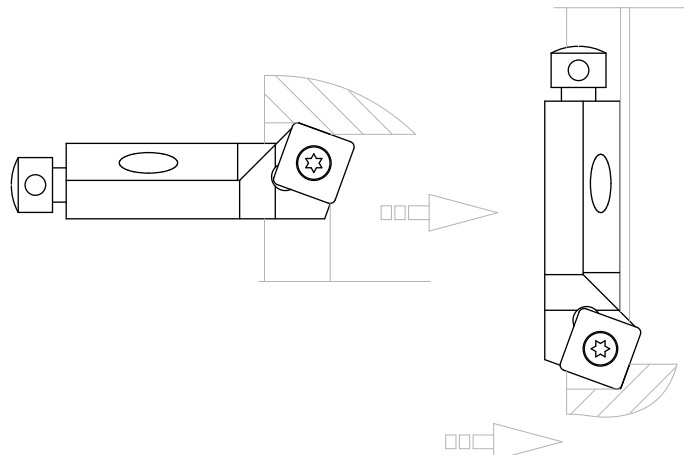
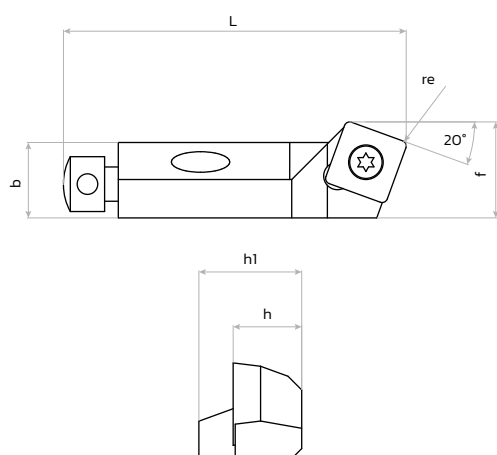
fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0019	SSSCR 10CA-09	10	15	11	44	14 (0.8)	40	SC.09T3	RUV0037	-	-	RFE0014	-
UIPBCI0037	SSSCL 10CA-09	10	15	11	44	14 (0.8)	40	SC.09T3	RUV0037	-	-	RFE0014	-
UIPBCI0046	SSSCR 12CA-12	12	20	15	47	20 (0.8)	50	SC.1204	RUV0003	-	-	RFE0015	-
UIPBCI0052	SSSCL 12CA-12	12	20	15	47	20 (0.8)	50	SC.1204	RUV0003	-	-	RFE0015	-
UIPBCI0103	SSSCR 16CA-12	16	21	20	53	25 (0.8)	55	SC.1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPBCI0106	SSSCL 16CA-12	16	21	20	53	25 (0.8)	55	SC.1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



I disegni mostrano utensili destri - Right-hand shown.

SSXCR/L

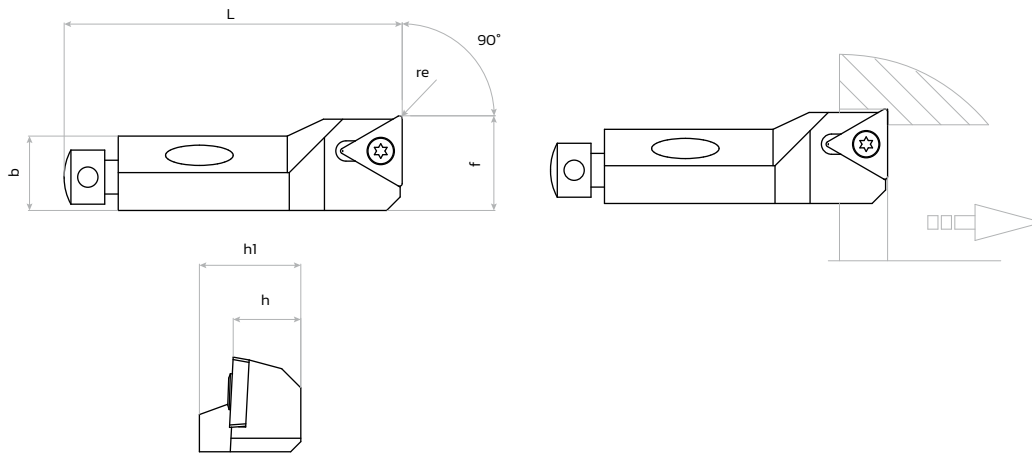
fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		h	h1	b	L	F (re)	D min						
UIPBCI0045	SSXCR 10CA-09	10	15	11	50	14 (0.8)	40	SC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0123	SSXCL 10CA-09	10	15	11	50	14 (0.8)	40	SC..09T3	RUV0037	-	-	-	RFE0014
UIPBCI0140	SSXCR 12CA-12	12	20	15	55	20 (0.8)	50	SC..1204	RUV0003	-	-	-	RFE0015
UIPBCI0141	SSXCL 12CA-12	12	20	15	55	20 (0.8)	50	SC..1204	RUV0003	-	-	-	RFE0015

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



STFCR/L

fissaggio a vite | screw lock

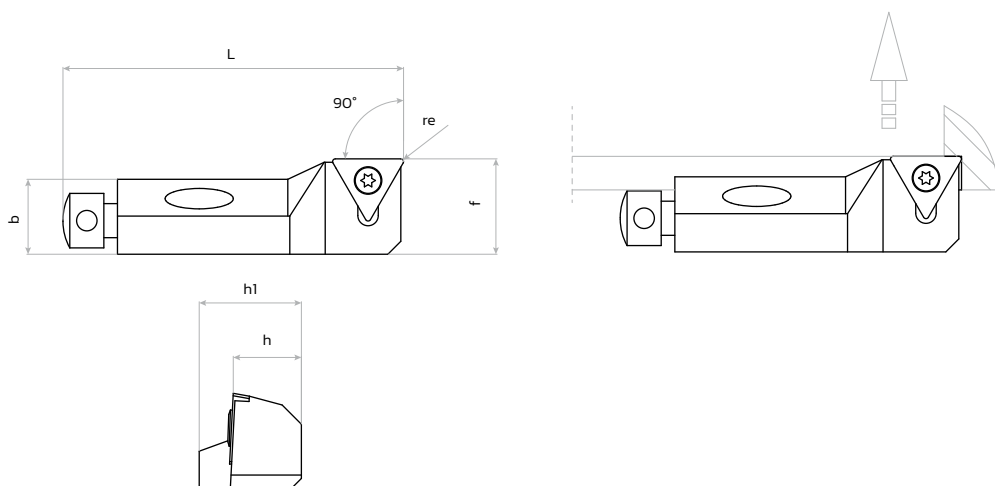
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0135	STFCR 06CA-06	6	8.5	6	25	8 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0150	STFCL 06CA-06	6	8.5	6	25	8 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0085	STFCR 08CA-09	8	10	8	32	10 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0102	STFCL 08CA-09	8	10	8	32	10 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0018	STFCR 10CA-11	10	15	11	50	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0016	STFCL 10CA-11	10	15	11	50	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0158	STFCR 10CA-1103	10	15	11	50	14 (0.4)	40	TC..1103	RFV0089	-	-	RFE0010	-
UIPBCI0164	STFCL 10CA-1103	10	15	11	50	14 (0.4)	40	TC..1103	RFV0089	-	-	RFE0010	-
UIPBCI0004	STFCR 12CA-16	12	20	15	55	20 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0026	STFCL 12CA-16	12	20	15	55	20 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0043	STFCR 16CA-16	16	21	20	63	25 (0.8)	55	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPBCI0105	STFCL 16CA-16	16	21	20	63	25 (0.8)	55	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



STGCR/L

fissaggio a vite | screw lock

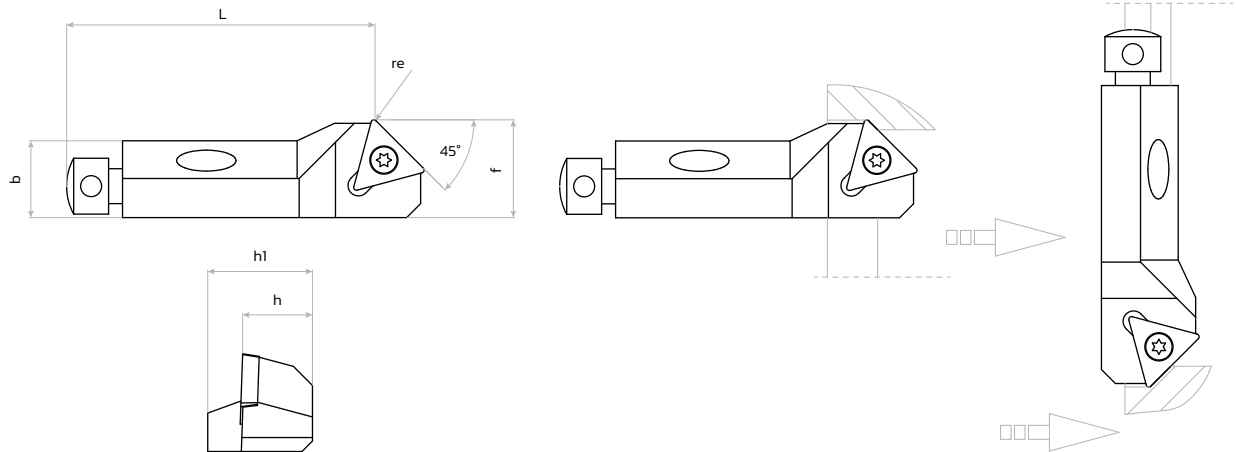
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0148	STGCR 06CA-06	6	8.5	6	25	8 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0149	STGCL 06CA-06	6	8.5	6	25	8 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0108	STGCR 08CA-09	8	10	8	32	10 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0113	STGCL 08CA-09	8	10	8	32	10 (0.4)	25	TC..0902	RUV0082	-	-	REF0010	-
UIPBCI0023	STGCR 10CA-11	10	15	11	50	14 (0.4)	40	TC..1102	RFV0089	-	-	REF0010	-
UIPBCI0053	STGCL 10CA-11	10	15	11	50	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0014	-
UIPBCI0020	STGCR 12CA-16	12	20	15	55	20 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0007	STGCL 12CA-16	12	20	15	55	20 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0111	STGCR 16CA-16	16	21	20	63	25 (0.8)	60	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPBCI0035	STGCL 16CA-16	16	21	20	63	25 (0.8)	60	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



STSCR/L

fissaggio a vite | screw lock

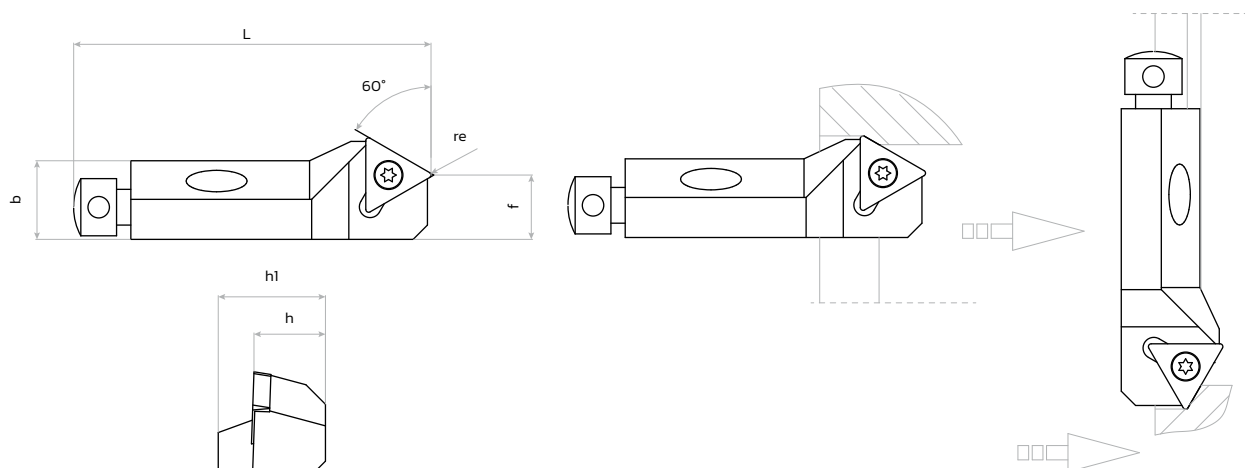
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0137	STSCR 06CA-06	6	8.5	6	21	8 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0151	STSL 06CA-06	6	8.5	6	21	8 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0132	STSCR 08CA-09	8	11	8	28	10 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0125	STSL 08CA-09	8	11	8	28	10 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0008	STSCR 10CA-11	10	15	11	44	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0021	STSL 10CA-11	10	15	11	44	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0161	STSCR 10CA-1103	10	15	11	44	14 (0.4)	40	TC..1103	RFV0089	-	-	RFE0010	-
UIPBCI0165	STSL 10CA-1103	10	15	11	44	14 (0.4)	40	TC..1103	RFV0089	-	-	RFE0010	-
UIPBCI0024	STSCR 12CA-16	12	20	15	47	20 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0054	STSL 12CA-16	12	20	15	47	20 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0122	STSCR 16CA-16	16	21	20	53	25 (0.8)	55	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPBCI0129	STSL 16CA-16	16	21	20	53	25 (0.8)	55	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



I disegni mostrano utensili destri - Right-hand shown.

STTCR/L

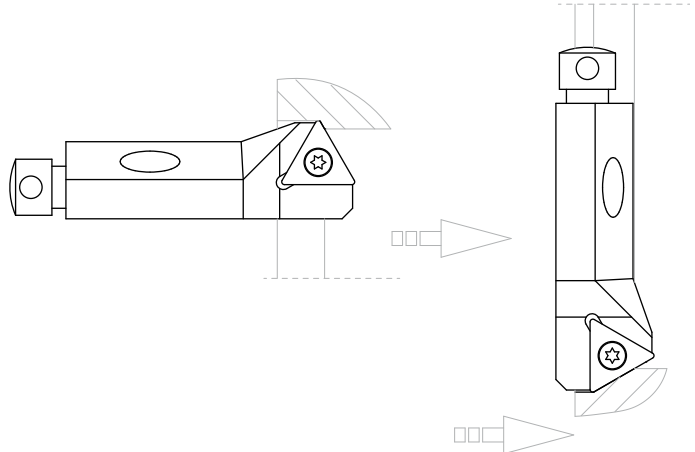
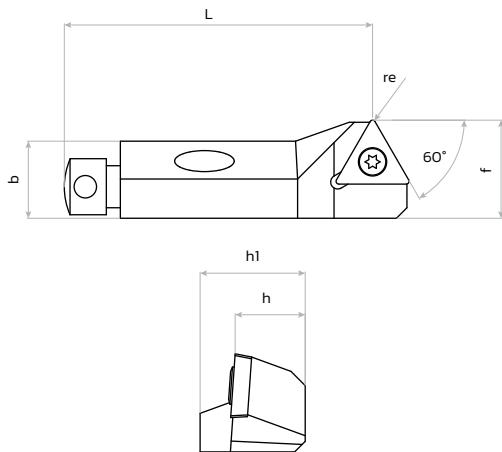
fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0146	STTCR 06CA-06	6	8.5	6	25	5.5 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0147	STTCL 06CA-06	6	8.5	6	25	5.5 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0109	STTCR 08CA-09	8	10	8	32	6 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0116	STTCL 08CA-09	8	10	8	32	6 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0006	STTCR 10CA-11	10	15	11	50	9 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0055	STTCL 10CA-11	10	15	11	50	9 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0160	STTCR 10CA-1103	10	15	11	50	9 (0.4)	40	TC..1103	RFV0089	-	-	RFE0010	-
UIPBCI0163	STTCL 10CA-1103	10	15	11	50	9 (0.4)	40	TC..1103	RFV0089	-	-	RFE0010	-
UIPBCI0017	STTCR 12CA-16	12	20	15	55	13 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0034	STTCL 12CA-16	12	20	15	55	13 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0115	STTCR 16CA-16	16	21	20	63	15 (0.8)	60	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPBCI0119	STTCL 16CA-16	16	21	20	63	15 (0.8)	60	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



STWCR/L

fissaggio a vite | screw lock

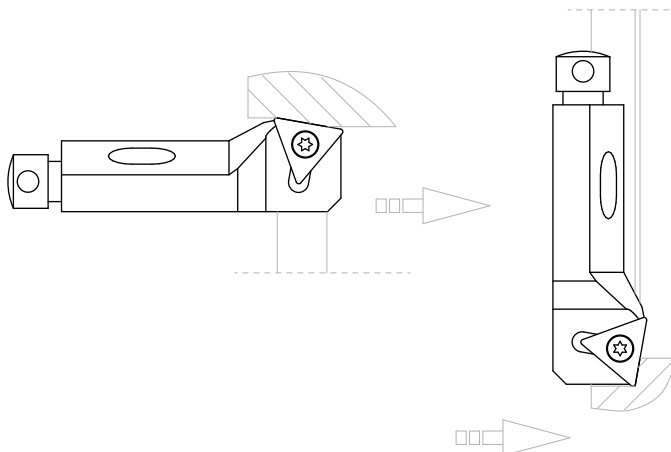
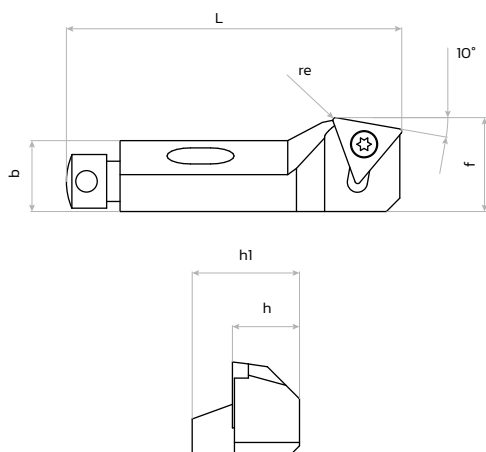
I disegni mostrano utensili destri - Right-hand shown.

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0136	STWCR 06CA-06	6	8.5	6	21	8 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0152	STWCL 06CA-06	6	8.5	6	21	8 (0.2)	20	TC..06T1	RUV0065	-	-	RFE0009	-
UIPBCI0110	STWCR 08CA-09	8	10	8	28	10 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0114	STWCL 08CA-09	8	10	8	28	10 (0.4)	25	TC..0902	RUV0082	-	-	RFE0010	-
UIPBCI0036	STWCR 10CA-11	10	15	11	44	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0056	STWCL 10CA-11	10	15	11	44	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0159	STWCR 10CA-1103	10	15	11	44	14 (0.4)	40	TC..1103	RFV0089	-	-	RFE0010	-
UIPBCI0166	STWCL 10CA-1103	10	15	11	44	14 (0.4)	40	TC..1103	RFV0089	-	-	RFE0010	-
UIPBCI0005	STWCR 12CA-16	12	20	15	47	20 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0057	STWCL 12CA-16	12	20	15	47	20 (0.8)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0112	STWCR 16CA-16	16	21	20	53	25 (0.8)	55	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPBCI0118	STWCL 16CA-16	16	21	20	53	25 (0.8)	55	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



I disegni mostrano utensili destri - Right-hand shown.

STYCR/L

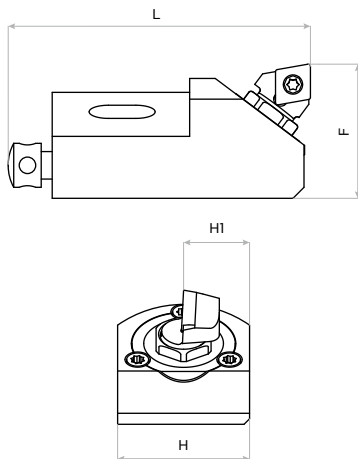
fissaggio a vite | screw lock

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		h	h1	b	L	F (re)	D min						
UIPBCI0076	STYCR 10CA-11	10	15	11	50	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0154	STYCL 10CA-11	10	15	11	50	14 (0.4)	40	TC..1102	RFV0089	-	-	RFE0010	-
UIPBCI0144	STYCR 12CA-16	12	20	15	55	20 (0.4)	50	TC..16T3	RUV0037	-	-	RFE0014	-
UIPBCI0145	STYCL 12CA-16	12	20	15	55	20 (0.4)	50	TC..16T3	RUV0037	-	-	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



AMCF

cartucce portaunità con registrazione assiale e radiale | cartridges for micro unit with axial and radial setting

	MICRO BORE	DIMENSIONI - DIMENSIONS						PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		F	L	H	H1	D min	cartridge slot					
AMCF12CA-01	UIPBF1CC06L	24.5	55	24	12	45	12 CA	RUV0283	RUV0202	RAN0068	CAXCB0046	CAXCB0058
AMCF16CA-01	UIPBF1CC06L	25	63	28	16	55	16 CA	RUV0237	RUV0202	RAN0068	CAXCB0047	CAXCB0058
AMCF20CA-03	UIPBF13TC11L	45	75	40	20	70	20 CA	RUV0385	RAN0070	3	CAXCB0075	CAXCB0054
AMCF30CA-04	UIPBF14TC16L	66.5	80	60	30	100	NO ISO	RUV0384	RAN0048	6	CAXCB0075	CAXCB0054

ATTENZIONE

L'unità micro deve essere ordinata separatamente (v. pag B 36).

ATTENTION

The micro bore must be ordered separatley (see pg. B 36).

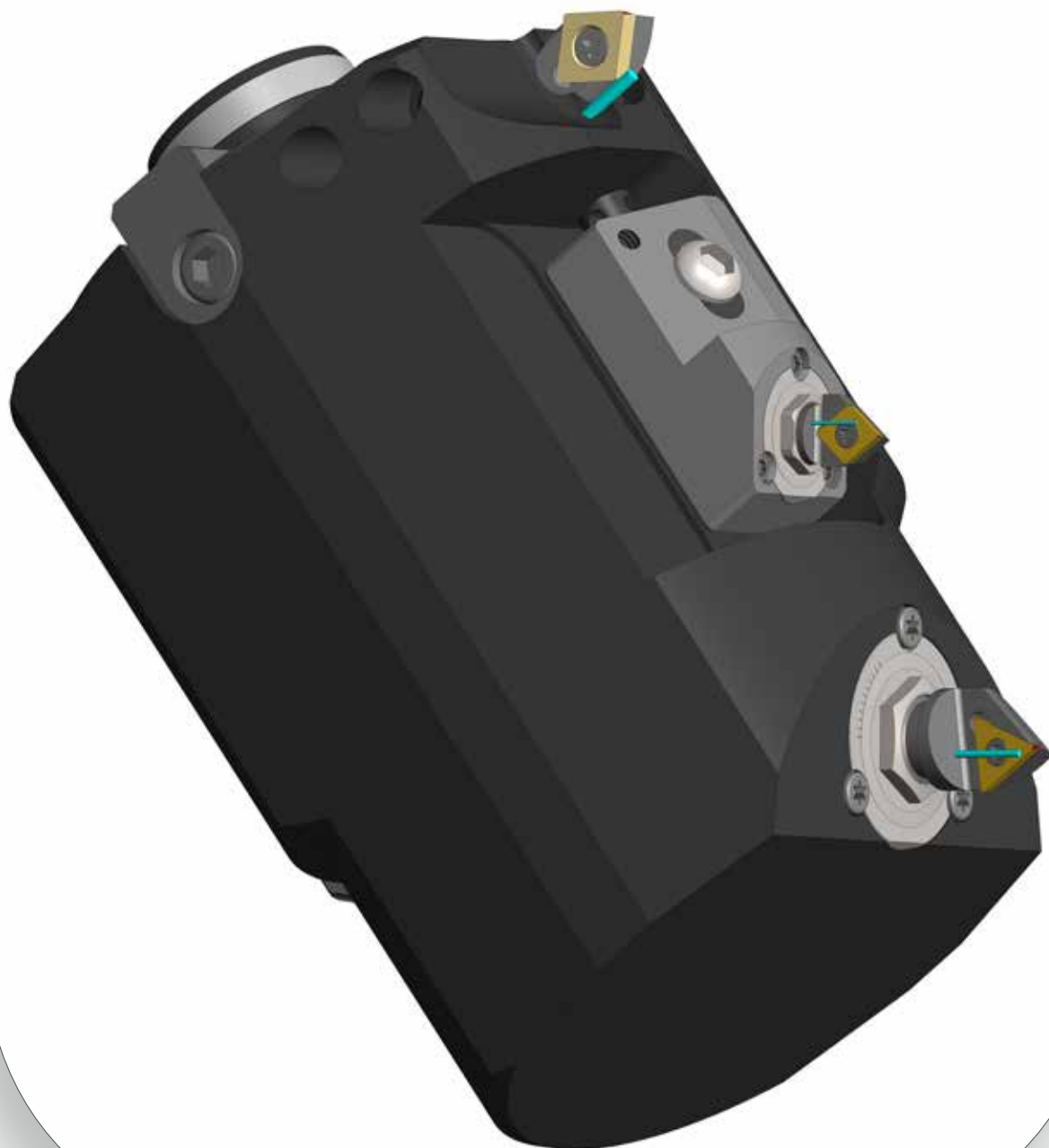
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

CARTUCCE SPECIALI

SPECIAL CARTRIDGES



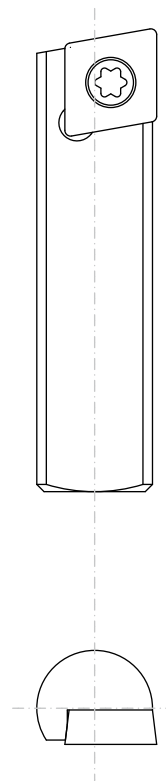
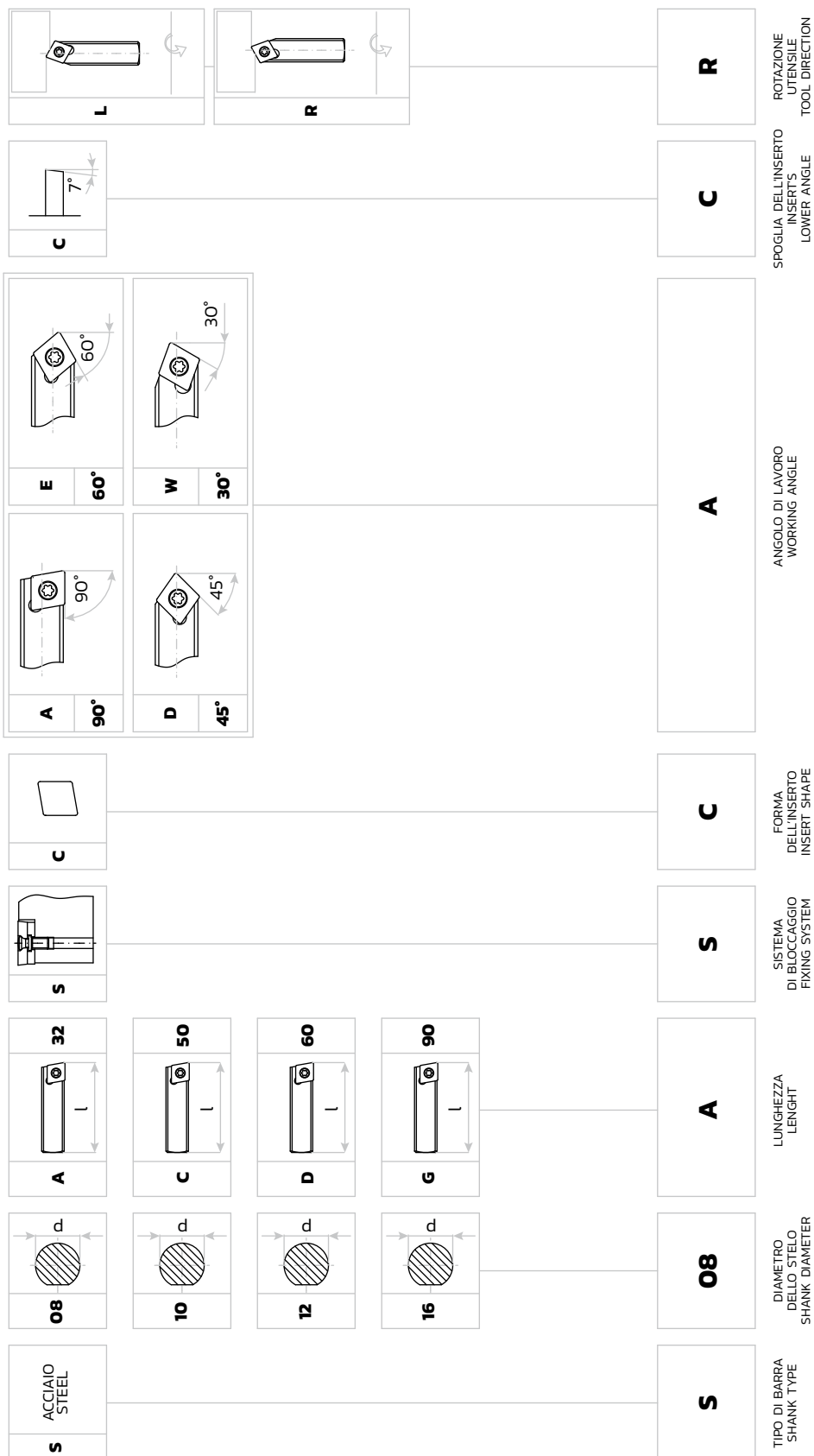
CARTUCCE SPECIALI

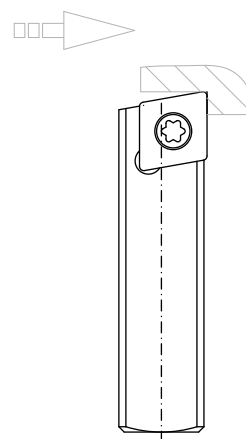
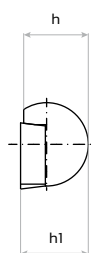
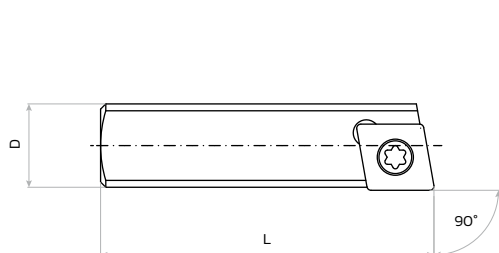
SPECIAL CARTRIDGES



MISURE FUORI STANDARD A RICHIESTA
CUSTOMIZED DIMENSIONS ON REQUEST

CHIAVI DEI CODICI DEGLI STELI DI BARENATURA | BORING SHANK' CODE KEYS



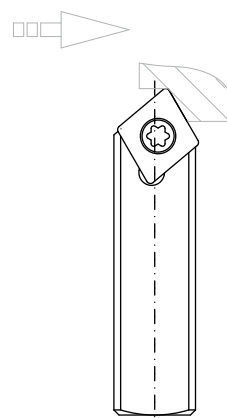
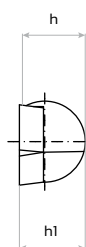
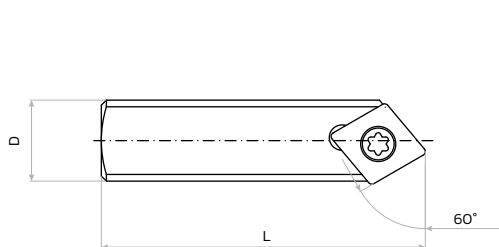


I disegni mostrano utensili sinistri. Drawings show left side tools.

SCACR/L

steli di barenatura | boring shanks

	ISO	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		D	h	h1	L						
UIPBI0092	S08A SCACR 06	8	6.3	6.5	32	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0073	S08A SCACL 06	8	6.3	6.5	32	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0093	S10C SCACR 06	10	8.3	8.5	50	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0074	S10C SCACL 06	10	8.3	8.5	50	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0094	S12D SCACR 09	12	10.3	10.5	60	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0075	S12D SCACL 09	12	10.3	10.5	60	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0095	S16G SCACR 09	16	13.8	9.5	90	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0005	S16G SCACL 09	16	13.8	9.5	90	CC..09T3	RUV0037	-	-	RFE0014	-



I disegni mostrano utensili sinistri. Drawings show left side tools.

SCECR/L

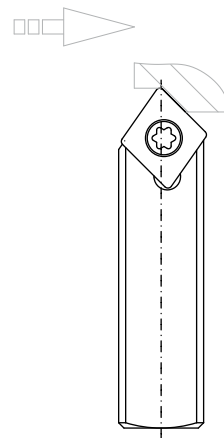
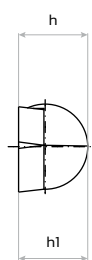
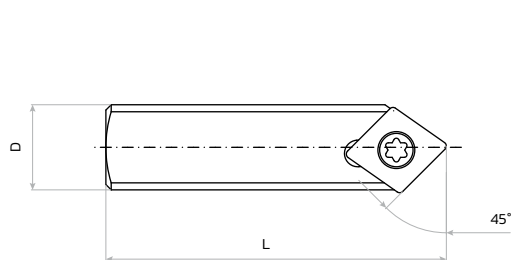
steli di barenatura | boring shanks

	ISO	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		D	h	h1	L						
UIPBI0096	S08A SCECR 06	8	6.3	6.5	32	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0055	S08A SCECL 06	8	6.3	6.5	32	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0097	S10C SCECR 06	10	8.3	8.5	50	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0076	S10C SCECL 06	10	8.3	8.5	50	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0098	S12D SCECR 09	12	10.3	10.5	60	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0057	S12D SCECL 09	12	10.3	10.5	60	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0099	S16G SCECR 09	16	13.8	9.5	90	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0009	S16G SCECL 09	16	13.8	9.5	90	CC..09T3	RUV0037	-	-	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

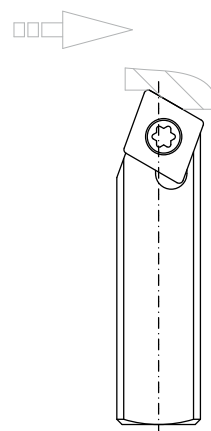
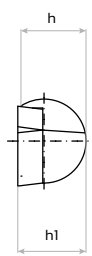
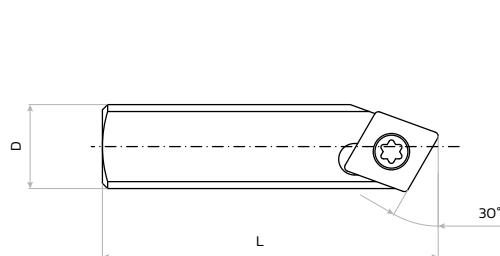


SCDCR/L

steli di barenatura | boring shanks

I disegni mostrano utensili sinistri. Drawings show left side tools.

	ISO	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		D	h	h1	L						
UIPBI0091	S08A SCDCR 06	8	6.3	6.5	32	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0058	S08A SCDCR 06	8	6.3	6.5	32	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0100	S10C SCDCR 06	10	8.3	8.5	50	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0077	S10C SCDCR 06	10	8.3	8.5	50	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0016	S12D SCDCR 09	12	10.3	10.5	60	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0063	S12D SCDCR 09	12	10.3	10.5	60	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0101	S16G SCDCR 09	16	13.8	9.5	90	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0078	S16G SCDCR 09	16	13.8	9.5	90	CC..09T3	RUV0037	-	-	RFE0014	-



SCWCR/L

steli di barenatura | boring shanks

I disegni mostrano utensili sinistri. Drawings show left side tools.

	ISO	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		D	h	h1	L						
UIPBI0036	S08A SCWCR 06	8	6.3	6.5	32	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0054	S08A SCWCR 06	8	6.3	6.5	32	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0102	S10C SCWCR 06	10	8.3	8.5	50	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0079	S10C SCWCR 06	10	8.3	8.5	50	CC..0602	RFV0089	-	-	RFE0010	-
UIPBI0025	S12D SCWCR 09	12	10.3	10.5	60	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0056	S12D SCWCR 09	12	10.3	10.5	60	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0103	S16G SCWCR 09	16	13.8	9.5	90	CC..09T3	RUV0037	-	-	RFE0014	-
UIPBI0080	S16G SCWCR 09	16	13.8	9.5	90	CC..09T3	RUV0037	-	-	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

UNITÀ MICRO SPECIALI

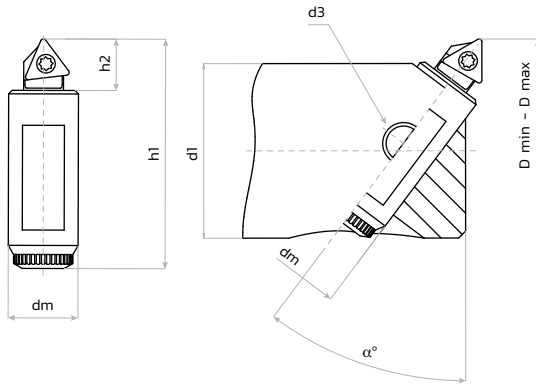
SPECIAL MICRO UNITS



UNITÀ MICRO

MICRO UNITS





UIPBFi

unità micro | micro bore

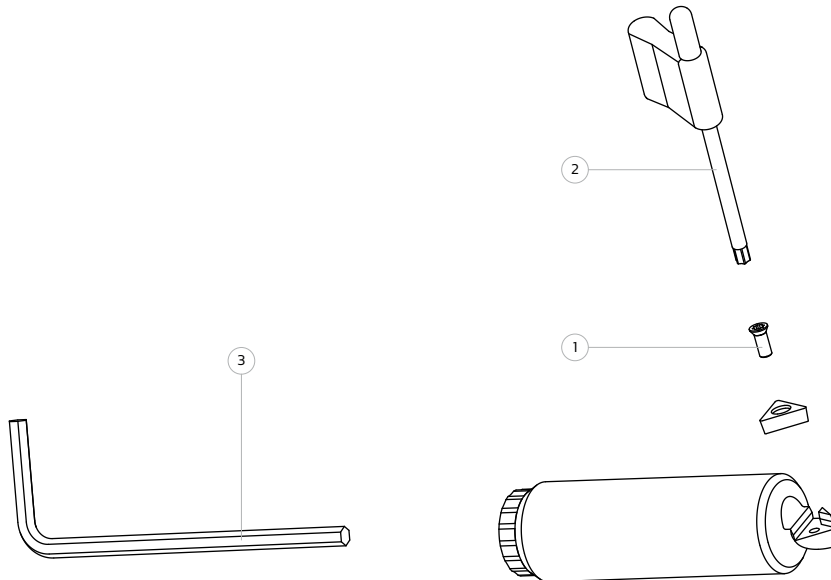
	DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS		ACCESSORIES	
	dm	Dmin-Dmax	d1	α	d3	h1	h2		1		2	3
UIPBFi0011	10	20-26	18	60°	M5	28,5	4,8	TB...0601	RUV0005	-	RFE0009	CAXCB0058
UIPBFi0018	10	26-33	20	60°	M6	34	8,5	TB...0601	RUV0005	-	RFE0009	CAXCB0058
UIPBFi0006	10	32-44	25	36°52'	M6	35,5	6	TB...0601	RUV0005	-	RFE0009	CAXCB0058
UIPBFi0007	12	40-55	32	36°52'	M8	41	6,8	TB...0601	RUV0005	-	RFE0009	CAXCB0054
UIPBFi0008	16	50-86	40	36°52'	M10	51	9	TP...0802	RUV0065	-	RFE0009	CAXCB0045
UIPBFi0019	20	86-112	50	36°52'	M12	63	12	TP...0802	RUV0065	-	RFE0009	CAXCB0046

NOTA

Nella regolazione dell'unità ad ogni tacca sul nonio corrisponde una regolazione di 0.02 mm sul diametro.

NOTE

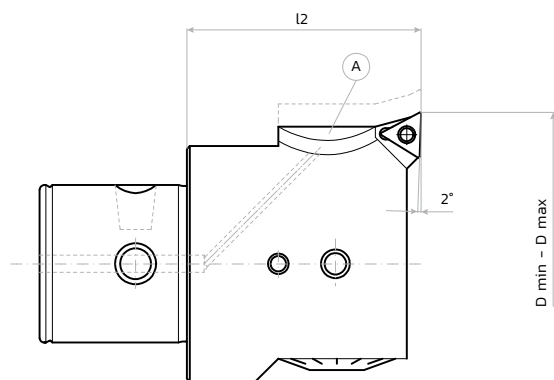
While regulating the micro unit, each notch on the graduated scale indicates a regulation of 0.02 mm on the diameter.



NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



UIPBF1

unità micro | micro bore

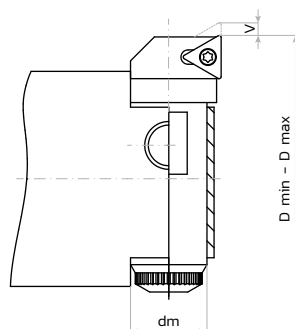
	DIMENSIONI - DIMENSIONS				CARTRIDGE A	INSERT	PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	Dmin	Dmax	I2	V						
UIPBF10075	20	26	33	-	RUC0341	TP..0802	RUV0005	RAV0142	RFE0009	CAXCB0058
UIPBF10076	26	34	37.5	-	RUC0342	TP..0802	RUV0005	RAV0143	RFE0009	CAXCB0054

NOTA

Nella regolazione dell'unità ad ogni tacca sul nonio corrisponde una regolazione di 0.02 mm sul diametro.

NOTE

While regulating the micro unit, each notch on the graduated scale indicates a regulation of 0.02 mm on the diameter.



UIPBF1

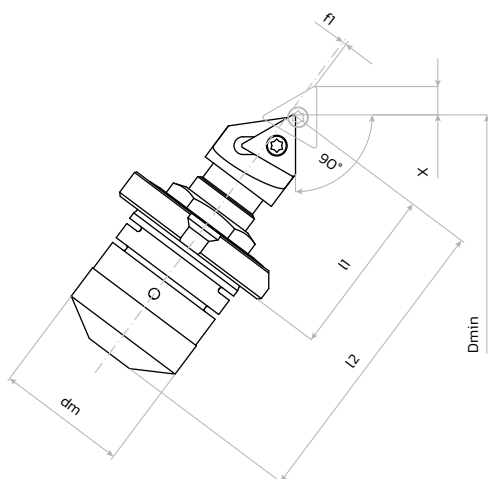
unità micro | micro bore

	DIMENSIONI - DIMENSIONS					INSERT	PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	dm	Dmin	Dmax	I2	V					
UIPBF10073	10	30	42	28.5	3.5	TB..0601L	RUV0005	-	RFE0009	-
UIPBF10074	12	41	52	37.5	3.5	TB..0601L	RUV0005	-	RFE0009	-
UIPBF10015	16	51	73	45	5	TP..0802L	RUV0065	-	RFE0009	-
UIPBF10065	20	64	89	56	7	TP..0802L	RUV0065	-	RFE0009	-
UIPBF10066	25	87	112	77.5	8	TP..1103L	RFE0090	-	RFE0011	CAXCB0046

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



NEW

A richiesta con lubrificazione interna
With coolant on request



UIPBF

unità micro | micro bore

Il disegno mostra utensile sinistro UIPBF...L. Drawing shows left side "UIPBF...L" of the tool.

	DIMENSIONI - DIMENSIONS						INSERTI - INSERTS				SPARE PARTS		ACCESSORI - ACCESSORIES					
	dm	l1*	l2	f1	α	Dmin										X	Y	
UIPBF1CC06R	16	14,3	25,15	0,45	90°	25,5	CC..0602	-	-	-	RFV0089	RFV0090	RFE0010	RUF0008	RFE0011	2	10	
UIPBF1CC06L	16	14,3	25,15	0,45	90°	25,5	CC..0602	-	-	-	RFV0089	RFV0090	RFE0010	RUF0008	RFE0011	2	10	
UIPBF12TC09R	20	19,1	33,7	0,9	90°	32,5	-	TC..0902	-	-	RUV0082	RFV0090	RFE0009	RUF0009	RFE0011	2,8	13	
UIPBF12TC09L	20	19,1	33,7	0,9	90°	32,5	-	TC..0902	-	-	RUV0082	RFV0090	RFE0009	RUF0009	RFE0011	2,8	13	
UIPBF12TP09R	20	19,1	33,7	0,9	90°	32,5	-	-	TP..0902	-	RFV0089	RFV0090	RFE0010	RUF0009	RFE0011	2,8	13	
UIPBF12TP09L	20	19,1	45,3	0,9	90°	32,5	-	-	TP..0902	-	RFV0089	RFV0090	RFE0010	RUF0009	RFE0011	2,8	13	
UIPBF13DC07R	22	19,1	45,3	1,1	120°	42	-	-	-	DC..0702	RFV0089	RUV0103	RFE0010	RUF0010	RFE0014	4,8	15	
UIPBF13DC07L	22	19,1	45,3	1,1	120°	42	-	-	-	DC..0702	RFV0089	RUV0103	RFE0010	RUF0010	RFE0014	4,8	15	
UIPBF13TC11R	22	23	45,3	1,1	90°	42	-	TC..1102	-	-	RFV0089	RUV0103	RFE0010	RUF0010	RFE0014	4,8	15	
UIPBF13TC11L	22	23	45,3	1,1	90°	42	-	TC..1102	-	-	RFV0089	RUV0103	RFE0010	RUF0010	RFE0014	4,8	15	
UIPBF13TP11R	22	23	45,3	1,1	90°	42	-	-	TP..1103	-	RFV0090	RUV0103	RFE0011	RUF0010	RFE0014	4,8	15	
UIPBF13TP11L	22	23	45,3	1,1	90°	42	-	-	TP..1103	-	RFV0090	RUV0103	RFE0011	RUF0010	RFE0014	4,8	15	
UIPBF14TC16R	32	33,3	62,3	1,2	90°	59,4	-	TC..16T3	-	-	RUV0001	RUV0281	RFE0014	RUF0011	CAXCB0045	8	22	
UIPBF14TC16L	32	33,3	62,3	1,2	90°	59,4	-	TC..16T3	-	-	RUV0001	RUV0281	RFE0014	RUF0011	CAXCB0045	8	22	

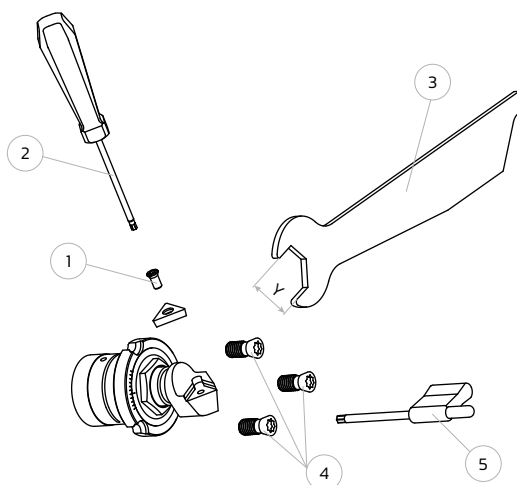
* Completamente avvitata - Completely screwed

NOTA

Nella regolazione dell'unità ad ogni tacca sul nonio corrisponde una regolazione di 0.02 mm sul diametro.

NOTE

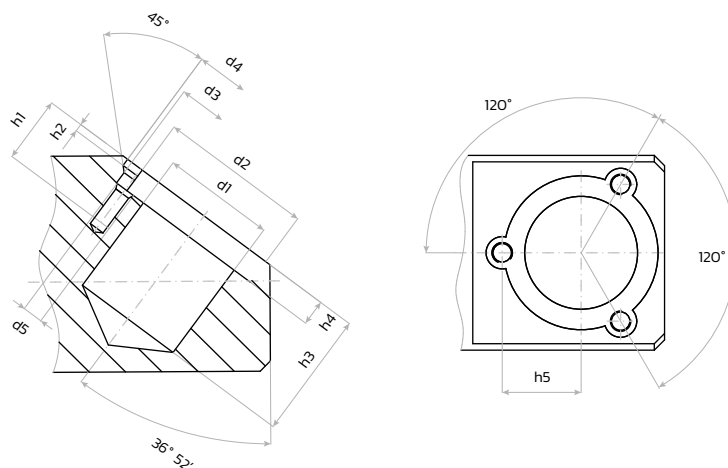
While regulating the micro unit, each notch on the graduated scale indicates a regulation of 0.02 mm on the diameter.



NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



MONTAGGIO | MOUNTING

	INSERTI - INSERTS				DIMENSIONI - DIMENSIONS									
					d1	d2	d3	d4	d5	h1	h2	h3	h4	h5
UIPBF1CC06R	CC..0602	-	-	-	16	19	3.2	4.6	M3	9	1.6	11.5	2.8	9.65 ±0.02
UIPBF1CC06L	CC..0602	-	-	-	16	19	3.2	4.6	M3	9	1.6	11.5	2.8	9.65 ±0.02
UIPBF12TC09R	-	TC..0902	-	-	20	25	3.2	4.6	M3	9	1.6	15.5	4	12.5 ±0.02
UIPBF12TC09L	-	TC..0902	-	-	20	25	3.2	4.6	M3	9	1.6	15.5	4	12.5 ±0.02
UIPBF12TP09R	-	-	TP..0902	-	20	25	3.2	4.6	M3	9	1.6	15.5	4	12.5 ±0.05
UIPBF12TP09L	-	-	TP..0902	-	20	25	3.2	4.6	M3	9	1.6	15.5	4	12.5 ±0.05
UIPBF13DC07R	-	-	-	DC..0702	22	30	4.3	6.5	M4	13	1.8	24	5	15.4 ±0.05
UIPBF13DC07L	-	-	-	DC..0702	22	30	4.3	6.5	M4	13	1.8	24	5	15.4 ±0.05
UIPBF13TC11R	-	TC..1102	-	-	22	30	4.3	6.5	M4	13	1.8	24	5	15.4 ±0.05
UIPBF13TC11L	-	TC..1102	-	-	22	30	4.3	6.5	M4	13	1.8	24	5	15.4 ±0.05
UIPBF13TP11R	-	-	TP..1103	-	22	30	4.3	6.5	M4	13	1.8	24	5	15.4 ±0.05
UIPBF13TP11L	-	-	TP..1103	-	22	30	4.3	6.5	M4	13	1.8	24	5	15.4 ±0.05
UIPBF14TC16R	-	TC..16T3	-	-	32	46	5.4	11.9	M5	16	-	33	6.3	23 ±0.05
UIPBF14TC16L	-	TC..16T3	-	-	32	46	5.4	11.9	M5	16	-	33	6.3	23 ±0.05

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedere sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

PUNTE SPECIALI

SPECIAL DRILLS



PUNTE SPEEDY DRILL

SPEEDY DRILL



INDICE

INDEX



PIAC

punta Speedy Drill | Speedy Drill

C 4



ATBC

boccola eccentrica | eccentric bush

C 8

INTRODUZIONE

Le punte ad inserto Speedy drill sono state studiate per un buon controllo del truciolo e progettate con scanalature di scarico ottimali per una buona evacuazione.

Gamma diametrale da 17 a 58 mm per profondità di foratura fino a 3 volte il diametro con fori interni per il passaggio del refrigerante.

Le punte possono essere regolate radialmente entro tolleranze molto strette, mediante adattatore regolabile ed eccentrico (vedi pg. C 8)

Possibilità di richiedere punte "su misura" per foratura, lamatura ed esecuzione di smussi in una singola operazione.

INTRODUCTION

Rieco System's Speedy Drills are special drills with insert, developed for a good chip control; they are designed with exhaust slots for a good chip evacuation. Standard range goes from Ø 17 to Ø 58 mm for a drilling 3x diameter and internal coolant holes.

Drills can be set radially within precise tolerances, using an adjustable and eccentric adapter (see pg. C 8)

We can supply personalized Speedy Drills, designed for drilling, counterboring and chamfering: all in one operation.

VELOCITÀ DI TAGLIO ED AVANZAMENTI CONSIGLIATI | CUTTING SPEED AND RECOMMENDED FEEDS

MATERIALE / MATERIAL		DUREZZA HARDNESS HB	VELOCITÀ DI TAGLIO CUTTING SPEED	AVANZAMENTI F (MM/GIRO) A SECONDA DEL DIAMETRO F FEEDING (MM/RAW) DEPENDING ON Ø			
				17-19	20-29	30-41	42-58
Acciai al carbonio non legati Carbon non-alloyed steels	~0,15% C	125	150-260	0,05-0,12	0,06-0,14	0,08-0,15	0,10-0,16
	~0,40% C	190	130-240				0,12-0,20
	~0,70% C	250	120-220				
		220	120-220				
		300	100-200				
Acciai legati ed acciai fusi Alloyed and fused steels		180	130-240	0,05-0,12	0,06-0,14	0,08-0,15	0,12-0,20
		275	120-220				
		300	100-200				
Acciai fortemente legati Hard alloyed steels		350	80-180	0,05-0,10	0,06-0,12	0,08-0,14	0,12-0,20
		200	120-220				
		200	100-200				
Acciai da utensili / Steels for tools		240	80-180	0,08-0,12	0,10-0,15	0,12-0,18	0,16-0,25
		180	70-150				
		180	80-160				
Acciai inossidabili Stainless steels		260	60-130	0,06-0,12	0,08-0,14	0,12-0,20	0,16-0,28
		160	80-160				
		250	60-130				
Ghisa grigia Grey cast iron		130	90-180	0,08-0,12	0,10-0,16		
		230	80-160				
		60	250-500				
Ghisa grafitica sferoidale Spheroidal graphitic cast iron		100	250-500	0,06-0,12	0,08-0,14	0,12-0,20	0,16-0,28
		75	200-450				
		90	200-450				
Ghisa malleabile Malleable Cast Iron		130	150-320	0,08-0,12	0,10-0,16		
		110	80-150				
		90	80-150				
Alluminio / Aluminum		110	80-150	0,08-0,12	0,10-0,16		
		90	80-150				
		90	80-150				
Leghe silicio-alluminio Silicon-Aluminum Alloys		110	80-150	0,08-0,12	0,10-0,16		
		90	80-150				
		90	80-150				
Rame e leghe di rame Copper and copper alloys		110	80-150	0,08-0,12	0,10-0,16		
		90	80-150				
		90	80-150				

POTENZA AL MANDRINO

I diagrammi sono basati su valori sperimentali e validi per la foratura di acciaio con carico di rottura di 600-900 N/mm² e con velocità di taglio di 100m/min.

POWER TO THE SPINDLE

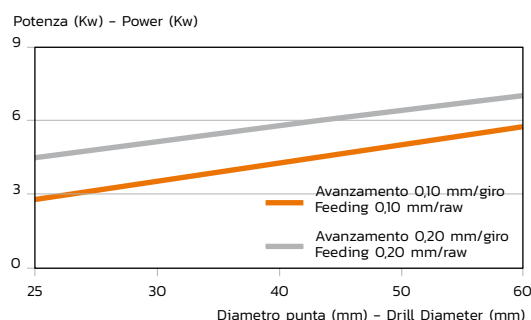
Diagrams are based on experimental values and are valid for steel drilling with a breaking load of 600-900 N/mm² and a cutting speed of 100m/min

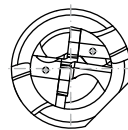
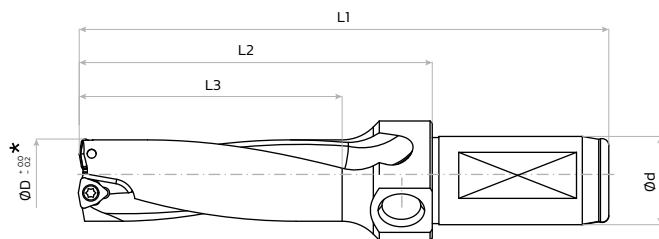
PRESSIONE REFRIGERANTE RICHIESTA

Le punte speedy drill devono SEMPRE essere utilizzate con refrigerante. Maggiore è la portata e la pressione del refrigerante, migliori saranno le condizioni di foratura.

INTERNAL COOLANT PRESSURE REQUIRED

Speedy Drills must ALWAYS be used with cooling liquid. The higher the flow and pressure of the cooling liquid, the better the drilling conditions will be.





WITH COOLANT

PIAC

punta Speedy Drill | Speedy Drill

	DIMENSIONI - DIMENSIONS					INSERT	PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	Ø D	Ø d	L1	L2	L3		A 	B 	A 	B 
PIAC3170	17	20	120	70	53	WC..0302	RFV0162	RAN0069  3/16	RFE0010	CAXCB0164
PIAC3175	17.5									
PIAC3180	18									
PIAC3185	18.5									
PIAC3190	19									
PIAC3195	19.5									
PIAC3200	20									
PIAC3205	20.5	25	151	95	75	WC..0402	RUV0068	RAN0069  3/16	RFE0010	CAXCB0164
PIAC3210	21									
PIAC3215	21.5									
PIAC3220	22									
PIAC3225	22.5									
PIAC3230	23									
PIAC3235	23.5									
PIAC3240	24									
PIAC3245	24.5									
PIAC3250	25									
PIAC3255	25.5									
PIAC3260	26									
PIAC3265	26.5		166	110	90	WC..0503	RFV0090	RAN0069  3/16	RFE0011	CAXCB0164
PIAC3270	27									
PIAC3275	27.5									
PIAC3280	28									
PIAC3285	28.5									
PIAC3290	29									
PIAC3295	29.5									
PIAC3300	30									
PIAC3305	30.5									

* Usare inserti raggio 0.8 per WC...0302, WC...0402, WC...0503, WC...06T3 - Usare inserti raggio 1.2 per WC...0804

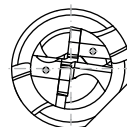
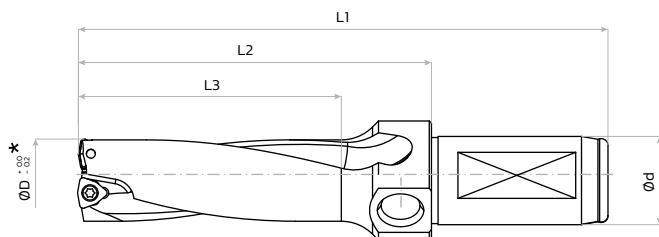
Use R 0.8 inserts for WC...0302, WC...0402, WC...0503, WC...06T3 / Use inserts R 1.2 for WC...0804

Usando inserti con raggio 0.4 (0.8 per WCMT 0804), il diametro aumenta di +0.28 mm / Using R0.4 (0.8 for WCMT 0804) inserts, diameter increases of +0.28 mm

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



WITH COOLANT

PIAC

punta Speedy Drill | Speedy Drill

	DIMENSIONI - DIMENSIONS					INSERT	PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	Ø D	Ø d	L1	L2	L3		A	B	A	B
PIAC3310	31	32	190	130	105	WC..06T3	RFV0091	RAN0069 3/16	RFE0014	CAXCB0164
PIAC3315	31.5									
PIAC3320	32									
PIAC3325	32.5									
PIAC3330	33									
PIAC3335	33.5									
PIAC3340	34									
PIAC3345	34.5									
PIAC3350	35	32	205	145	120	WC..06T3	RFV0091	RAN0069 3/16	RFE0014	CAXCB0164
PIAC3355	35.5									
PIAC3360	36									
PIAC3365	36.5									
PIAC3370	37									
PIAC3375	37.5									
PIAC3380	38									
PIAC3385	38.5									
PIAC3390	39	32	205	145	120	WC..06T3	RFV0091	RAN0069 3/16	RFE0014	CAXCB0164
PIAC3395	39.5									
PIAC3400	40									
PIAC3405	40.5									
PIAC3410	41									
PIAC3415	41.5									

* Usare inserti raggio 0.8 per WC...0302, WC...0402, WC...0503, WC...06T3 - Usare inserti raggio 1.2 per WC...0804

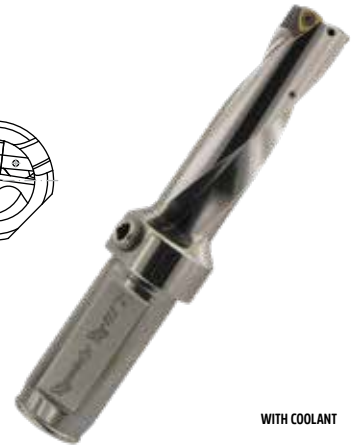
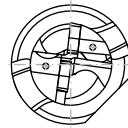
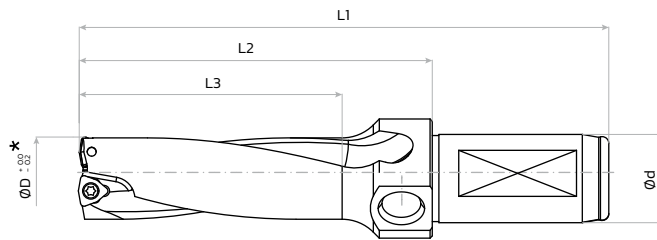
Use R 0.8 inserts for WC...0302, WC...0402, WC...0503, WC...06T3 / Use inserts R 1.2 for WC...0804

Usando inserti con raggio 0.4 (0.8 per WCMT 0804), il diametro aumenta di +0.28 mm / Using R0.4 (0.8 for WCMT 0804) inserts, diameter increases of +0.28 mm

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



WITH COOLANT

PIAC

punta Speedy Drill | Speedy Drill

	DIMENSIONI - DIMENSIONS					INSERT	PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	Ø D	Ø d	L1	L2	L3		A	B	A	B
PIAC3420	42	40	230	160	135	WC..0804	RUV0103	RAN0069 3/16	RFE0014	CAXCB0164
PIAC3425	42.5									
PIAC3430	43									
PIAC3435	43.5									
PIAC3440	44									
PIAC3445	44.5									
PIAC3450	45									
PIAC3455	45.5	40	245	175	150	WC..0804	RUV0103	RAN0069 3/16	RFE0014	CAXCB0164
PIAC3460	46									
PIAC3465	46.5									
PIAC3470	47									
PIAC3475	47.5									
PIAC3480	48									
PIAC3485	48.5									
PIAC3490	49									
PIAC3495	49.5									
PIAC3500	50									
PIAC3505	50.5									

* Usare inserti raggio 0.8 per WC...0302, WC...0402, WC...0503, WC...06T3 - Usare inserti raggio 1.2 per WC...0804

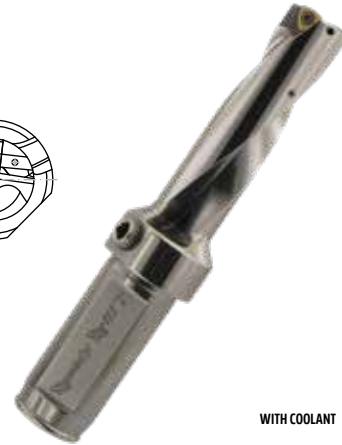
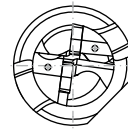
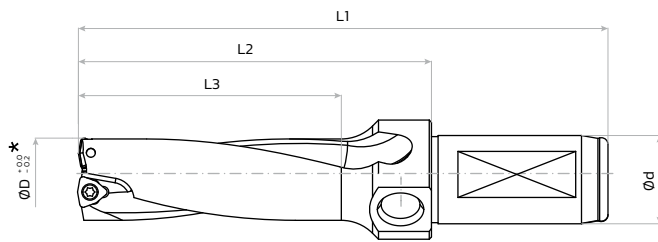
Use R 0.8 inserts for WC...0302, WC...0402, WC...0503, WC...06T3 / Use inserts R 1.2 for WC...0804

Usando inserti con raggio 0.4 (0.8 per WCMT 0804), il diametro aumenta di +0.28 mm / Using R0.4 (0.8 for WCMT 0804) inserts, diameter increases of +0.28 mm

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



WITH COOLANT

PIAC

punta Speedy Drill | Speedy Drill

	DIMENSIONI - DIMENSIONS					INSERT	PARTI DI RICAMBIO - SPARE PARTS		ACCESSORI - ACCESSORIES	
	Ø D	Ø d	L1	L2	L3		A	B	A	B
PIAC3510	51	40	255	185	160	WC..0804	RUV0103	RAN0069 3/16	RFE0014	CAXCB0164
PIAC3515	51.5									
PIAC3520	52									
PIAC3525	52.5									
PIAC3530	53									
PIAC3535	53.5									
PIAC3540	54									
PIAC3545	54.5									
PIAC3550	55									
PIAC3555	55.5									
PIAC3560	56									
PIAC3565	56.5									
PIAC3570	57									
PIAC3575	57.5									
PIAC3580	58									

* Usare inserti raggio 0.8 per WC...0302, WC...0402, WC...0503, WC...06T3 - Usare inserti raggio 1.2 per WC...0804

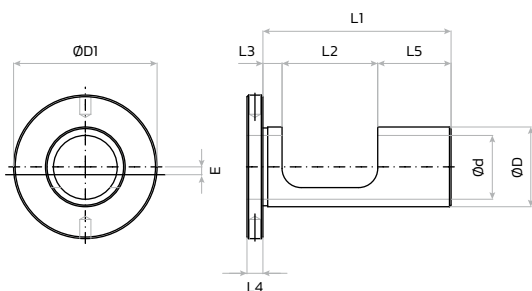
Use R 0.8 inserts for WC...0302, WC...0402, WC...0503, WC...06T3 / Use inserts R 1.2 for WC...0804

Usando inserti con raggio 0.4 (0.8 per WCMT 0804), il diametro aumenta di +0.28 mm / Using R0.4 (0.8 for WCMT 0804) inserts, diameter increases of +0.28 mm

NOTE

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Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



ATBC

boccola eccentrica | eccentric bush

	DIMENSIONI - DIMENSIONS							
	Ø D	Ø d	Ø D1	L1	L2	L3	L4	E
ATBC3225	32	25	58	69	49	6	5	0,15
ATBC2520	25	20	48	59	49	6	5	0,15

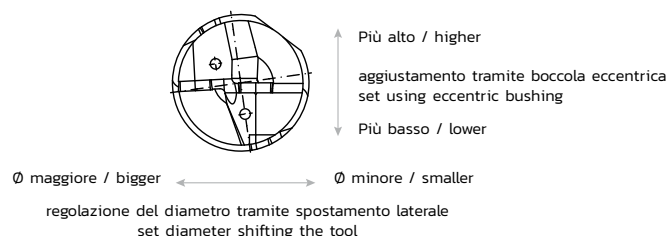
REGOLAZIONE SU CENTRO DI LAVORO

Con le boccole eccentriche RIECO SYSTEM è possibile una regolazione del diametro di $\pm 0.2\text{mm}$

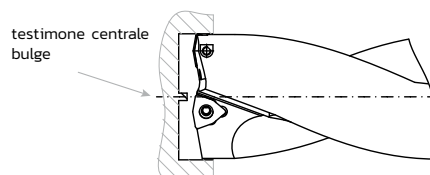
ADJUSTMENT ON CNC MACHINE

RIECO SYSTEM's eccentric bushes allow a regulation on the diameter of $\pm 0.2\text{ mm}$

REGOLAZIONE SU TORNIO



ADJUSTMENT ON LATHE



REGOLAZIONE DELL'ALTEZZA

La faccia dell'inserto interno deve trovarsi da 0 a $+0.2\text{ mm}$ sopra il centro. Tale regolazione può essere eseguita con la bussola eccentrica.

HEIGHT SETTING

The face of the internal insert must be set on 0/ $+0.2\text{ mm}$ above the center. This setting can be done using the eccentric bush.

REGOLAZIONE DEL DIAMETRO DESIDERATO

Il diametro del foro può essere regolato traslando l'utensile lungo l'asse X.

DIAMETER SETTING

The hole diameter can be set shifting the tool along the X axis.

VERIFICA DELL'ALTEZZA DEL CENTRO-UTENSILE

Eseguire un foro di almeno 3 mm di profondità e verificare le dimensioni del testimone centrale. Il testimone deve misurare 0.1-0.5 mm. Se non è presente il testimone, occorre alzare la punta sul piano Y. Se il testimone è più largo di 0.5 mm è necessario abbassare l'altezza della punta.

TOOL'S CENTER HEIGHT CONTROL

Do a 3 mm deep hole and check dimensions of the central bulge. The bulge must be at least 0.1-0.5 mm. If the bulge is not present, the drill must be lifted on the Y axis. If the bulge is larger than 0.5 mm, it is necessary to reduce the drill's height.

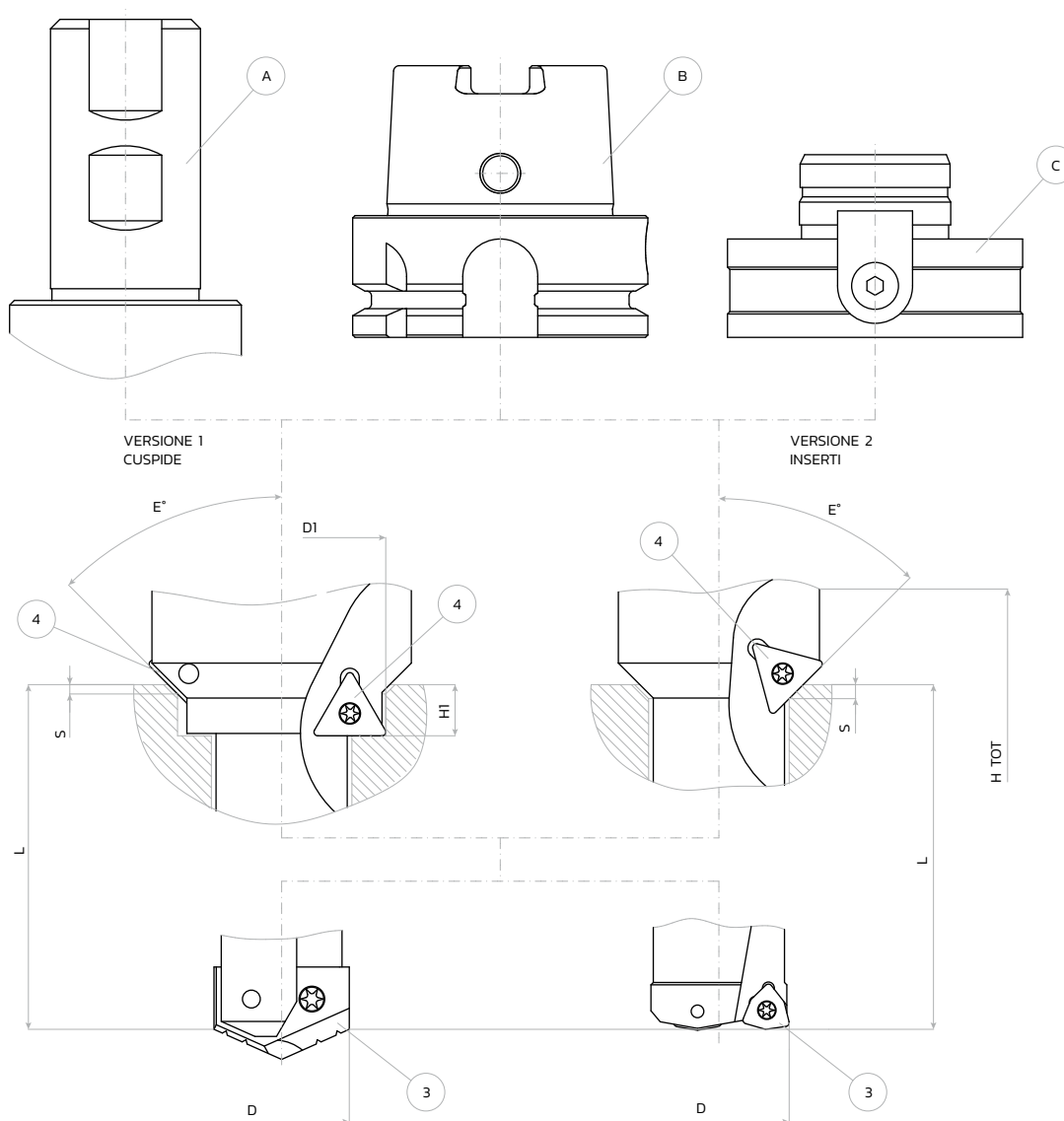
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

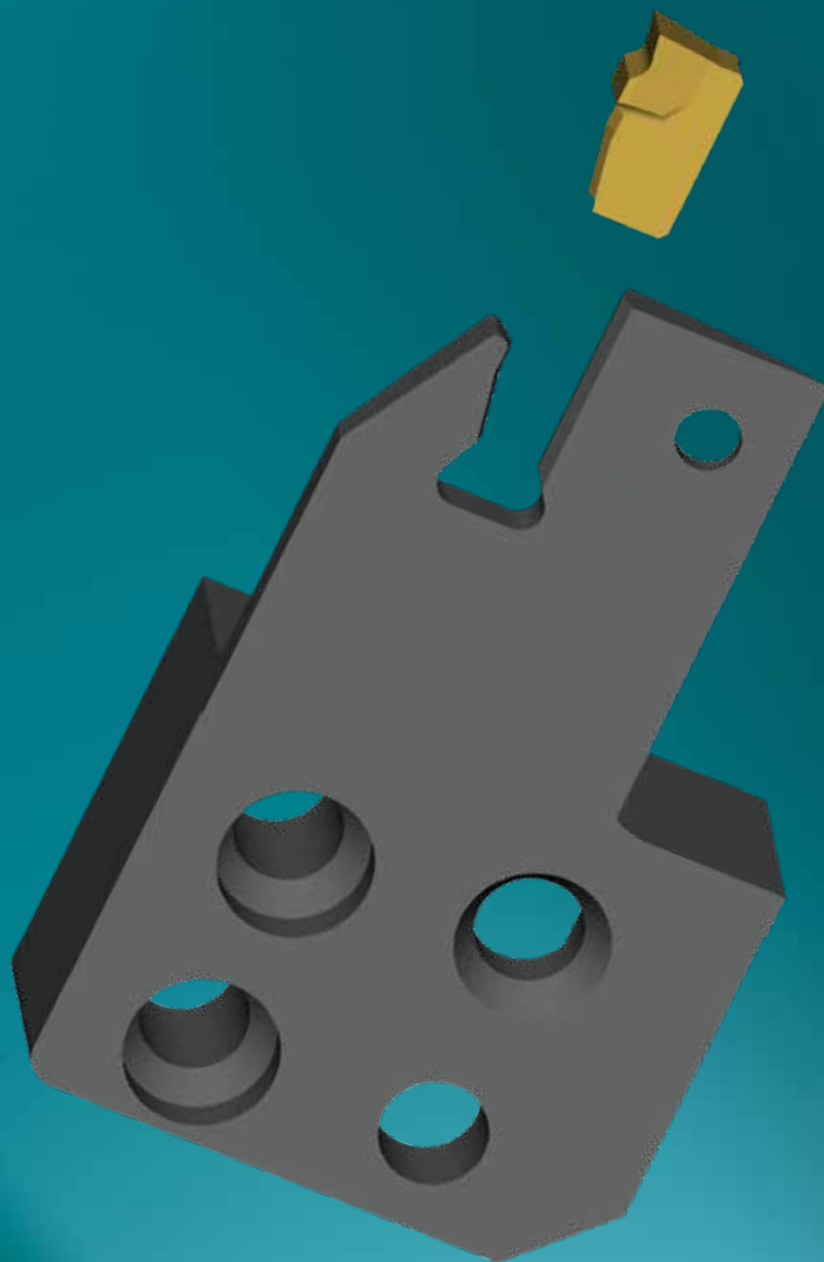
UTENSILI SPECIALI A RICHIESTA | SPECIAL TOOLS ON REQUEST

ATTACCO HOLDER			VERSIONE TYPE		DIMENSIONE ATTACCO HOLDER DIMENSION	D	D1	S	E°	H1	L	H TOT	INSERTO PUNTA DRILL INSERT	INSERTO SMUSSO CHAMFER INSERT	Q.TÀ Q.TY
A	B	C	1	2											
A	B	C	1	2											
A	B	C	1	2											
A	B	C	1	2											
A	B	C	1	2											



UTENSILI SPECIALI

SPECIAL TOOLS



UTENSILI A FISSAGGIO MECCANICO

TURNING TOOLS



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lever lock

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MWLNR/L

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bracket lock/wedge

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con refrigerazione interna – fissaggio a vite
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coolant tools – screw lock

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D 20

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coolant tools – screw lock

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screw lock

D 23

E..STFPR/L

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D 24

STCNR/L

fissaggio a vite
screw lock

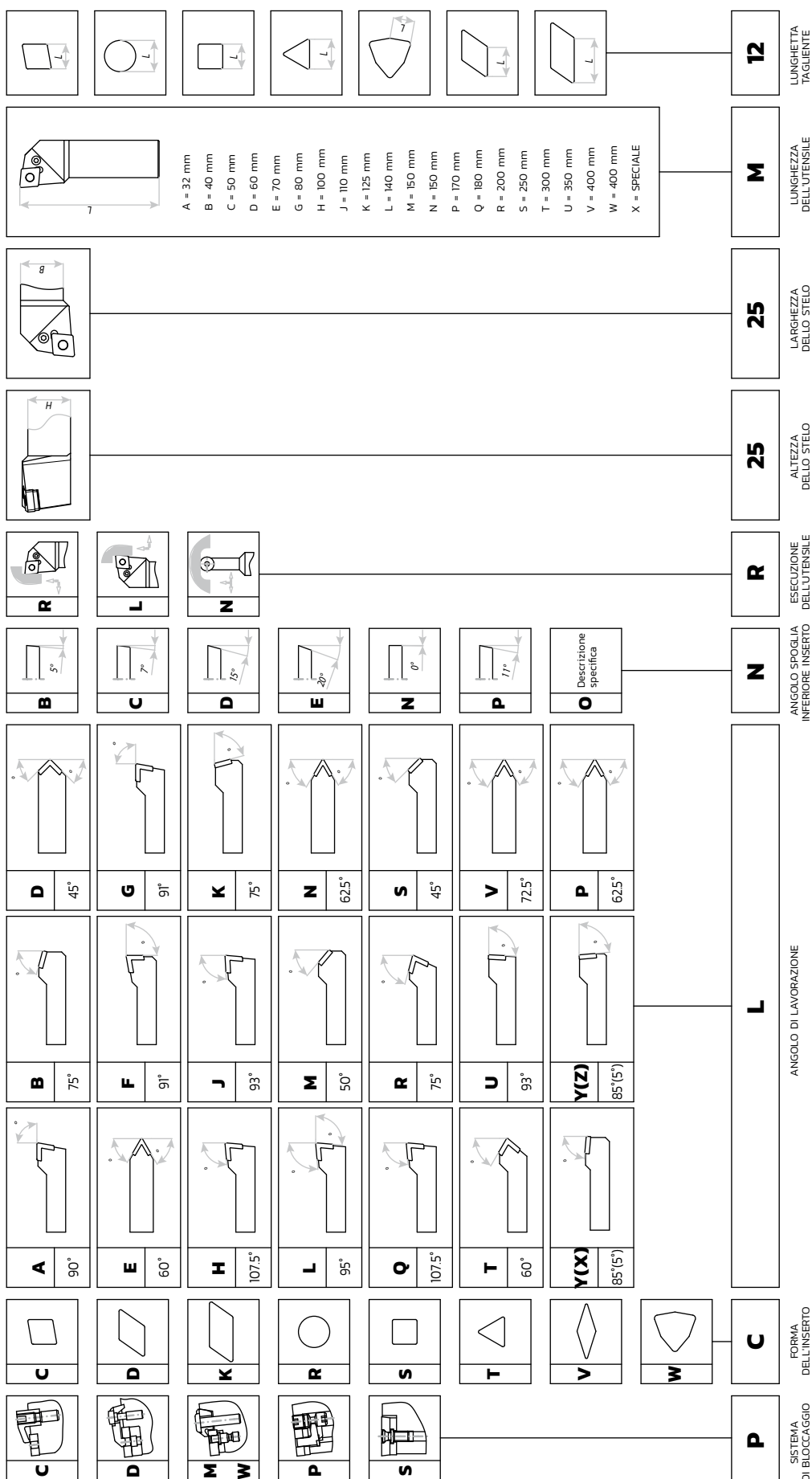
D 25

S..TGPR/L

fissaggio a vite
screw lock

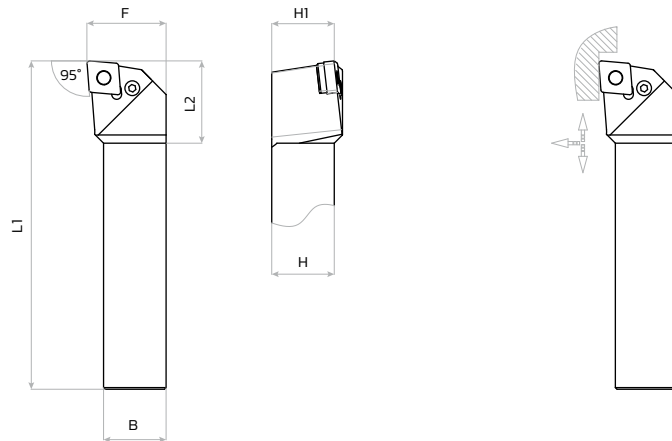
D 25

CHIAVE CODICI UTENSILI ESTERNI | EXTERNAL TOOLS KEYS



TORNITURA ESTERNA | EXTERNAL TURNING

inserto negativo | negative insert

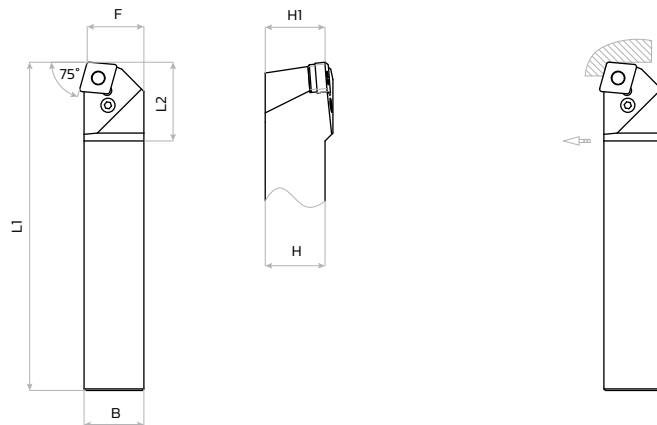


PCLNR/L

fissaggio a leva | lever lock

Il disegno mostra utensile destro - angolo di inclinazione=-6° - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=-6° - superior rake angle=-6°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		H	H1	B	L1	L2	F						
UINTE0028	PCLNR 2020 K12	20	20	20	125	30	25	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTE0056	PCLNL 2020 K12	20	20	20	125	30	25	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTE0011	PCLNR 2525 M12	25	25	25	150	32	32	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTE0012	PCLNL 2525 M12	25	25	25	150	32	32	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045



PCBNR/L

fissaggio a leva | lever lock

Il disegno mostra utensile destro - angolo di inclinazione=-6° - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=-6° - superior rake angle=-6°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		H	H1	B	L1	L2	F						
UINTE0151	PCBNR 2525 M12	25	25	25	150	32	22	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTE0132	PCBNL 2525 M12	25	25	25	150	32	22	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045

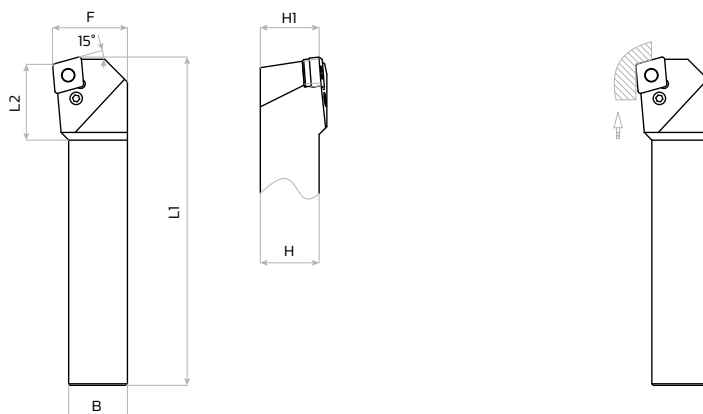
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING

inserto negativo | negative insert

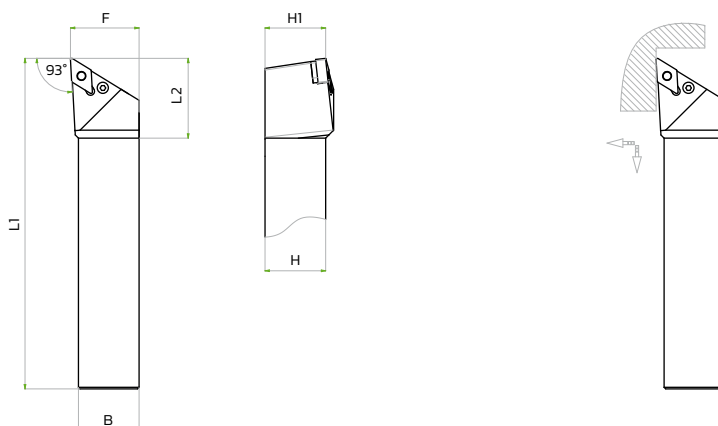


PCKNR/L

fissaggio a leva | lever lock

Il disegno mostra utensile destro - angolo di inclinazione=-6° - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=-6° - superior rake angle=-6°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		H	H1	B	L1	L2	F						
UINTE0021	PCKNR 2525 M12	25	25	25	150	32	32	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTE0090	PCKNL 2525 M12	25	25	25	150	32	32	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045



PDJNR/L

fissaggio a leva | lever lock

Il disegno mostra utensile destro - angolo di inclinazione=-6° - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=-6° - superior rake angle=-6°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		H	H1	B	L1	L2	F						
UINTE0085	PDJNR 2020 K15	20	20	20	125	35	25	DN..1506	RUA0024	RUL0007	RUV0039	RUB0002	CAXCB0045
UINTE0037	PDJNL 2020 K15	20	20	20	125	35	25	DN..1506	RUA0024	RUL0007	RUV0039	RUB0002	CAXCB0045
UINTE0053	PDJNR 2525 M15	25	25	25	150	37	32	DN..1506	RUA0024	RUL0007	RUV0039	RUB0002	CAXCB0045
UINTE0030	PDJNL 2525 M15	25	25	25	150	37	32	DN..1506	RUA0024	RUL0007	RUV0039	RUB0002	CAXCB0045

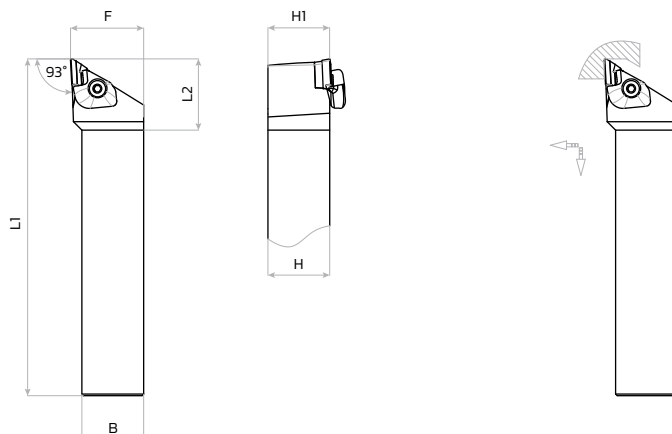
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING

inserto negativo | negative insert

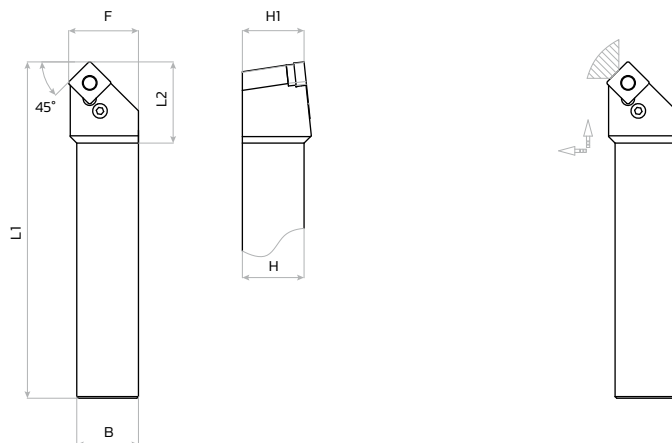


CKJNR/L

fissaggio a staffa | bracket lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS						ACCESSORIES
		H	H1	B	L1	L2	F								
UINTE0104	CKJNR 2020 L16	20	20	20	140	32	27	KN..1604	RUA0018	RUS0008	RUV0024	RUM0001	RUP0009	RU00001	CAXCB0046
UINTE0105	CKJNL 2020 L16	20	20	20	140	32	27	KN..1604	RUA0013	RUS0028	RUV0024	RUM0001	RUP0009	RU00001	CAXCB0046
UINTE0033	CKJNR 2525 M16	25	25	25	150	32	32	KN..1604	RUA0018	RUS0008	RUV0024	RUM0001	RUP0009	RU00001	CAXCB0046
UINTE0031	CKJNL 2525 M16	25	25	25	150	32	32	KN..1604	RUA0013	RUS0028	RUV0024	RUM0001	RUP0009	RU00001	CAXCB0046



PSSNR/L

fissaggio a leva | lever lock

Il disegno mostra utensile destro - angolo di inclinazione=-8° - angolo superiore di spoglia=-8°
Right-hand tool shown - angle of inclination=-8° - superior rake angle=-8°

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		H	H1	B	L1	L2	F						
UINTE0009	PSSNR 2020 K12	20	20	20	125	30	25	SN..1204	RUA0005	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTE0023	PSSNL 2020 K12	20	20	20	125	30	25	SN..1204	RUA0005	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTE0013	PSSNR 2525 M12	25	25	25	150	37	32	SN..1204	RUA0005	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTE0044	PSSNL 2525 M12	25	25	25	150	37	32	SN..1204	RUA0005	RUL0006	RUV0078	RUB0002	CAXCB0045

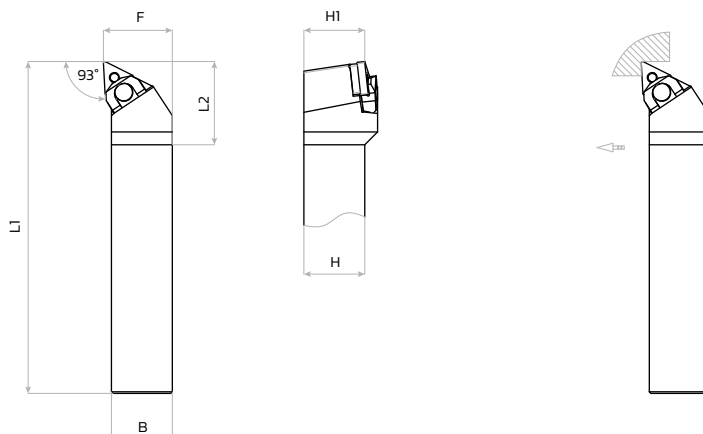
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING

inserto negativo | negative insert

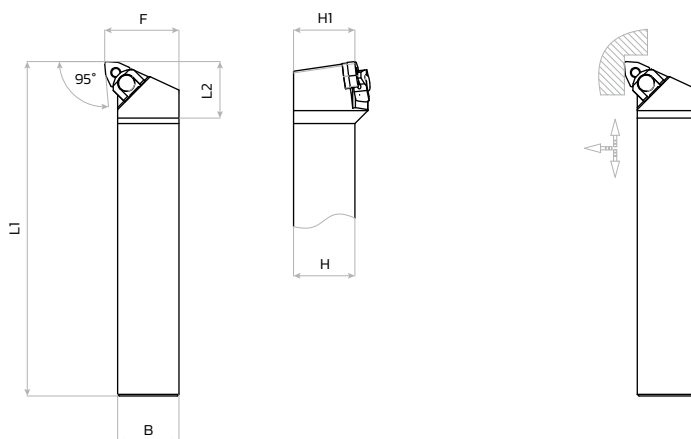


MTJNR/L

fissaggio a staffa/cuneo | bracket/wedge lock

Il disegno mostra utensile destro - angolo di inclinazione=-6° - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=-6° - superior rake angle=-6°

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		H	H1	B	L1	L2	F						
UNITE0047	MTJNR 2020 K16	20	20	20	125	35	25	TN..1604	RUA0002	RUS0002	RUP0001	RUN0001	CAXCB0054
UINTE0048	MTJNL 2020 K16	20	20	20	125	35	25	TN..1604	RUA0002	RUS0002	RUP0001	RUN0001	CAXCB0054
UINTE0010	MTJNR 2525 M16	25	25	25	150	32	32	TN..1604	RUA0002	RUS0002	RUP0001	RUN0001	CAXCB0054
UINTE0001	MTJNL 2525 M16	25	25	25	150	32	32	TN..1604	RUA0002	RUS0002	RUP0001	RUN0001	CAXCB0054



MWLNR/L

fissaggio a staffa/cuneo | bracket/wedge lock

Il disegno mostra utensile destro - angolo di inclinazione=-6° - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=-6° - superior rake angle=-6°

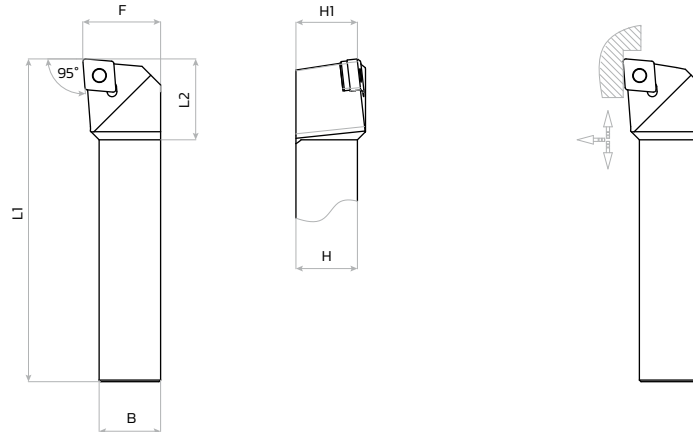
	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		H	H1	B	L1	L2	F						
UINTE0101	MWLNR 2020 K08	20	20	20	125	35	27	WN..0804	RUA0006	RUS0003	RUP0002	RUN0002	CAXCB0045
UINTE0020	MWLNL 2020 K08	20	20	20	125	35	27	WN..0804	RUA0006	RUS0003	RUP0002	RUN0002	CAXCB0045
UINTE0029	MWLNR 2525 M08	25	25	25	150	32	32	WN..0804	RUA0006	RUS0003	RUP0002	RUN0002	CAXCB0045
UINTE0019	MWLNL 2525 M08	25	25	25	150	32	32	WN..0804	RUA0006	RUS0003	RUP0002	RUN0002	CAXCB0045

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING
inserto positivo con foro | positive insert with hole

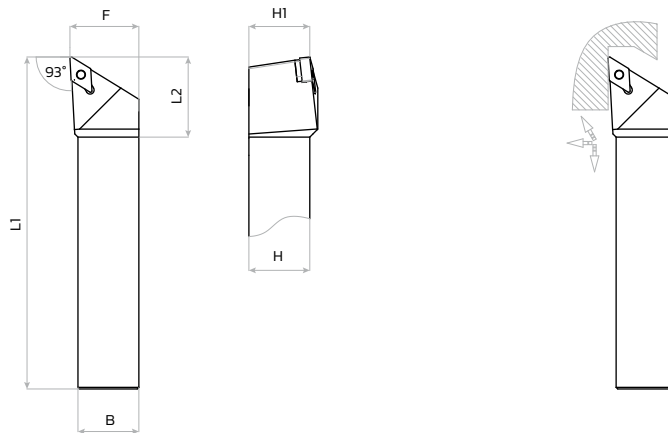


SCLCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		H	H1	B	L1	L2	F						
UIPTE0005	SCLCR 2525 M12	25	25	25	150	32	32	CC..1204	RUV0009	RUA0039	RUB0017	RFE0014	CAXCB0046
UIPTE0021	SCLCL 2525 M12	25	25	25	150	32	32	CC..1204	RUV0009	RUA0039	RUB0017	RFE0014	CAXCB0046



SDJCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		H	H1	B	L1	L2	F						
UIPTE0031	SDJCR 1616 H11	16	16	16	100	25	20	DC..11T3	RUV0021	RUA0046	RUB0009	RFE0014	CAXCB0076
UIPTE0065	SDJCL 1616 H11	16	16	16	100	25	20	DC..11T3	RUV0021	RUA0046	RUB0009	RFE0014	CAXCB0076
UIPTE0029	SDJCR 2020 K11	20	20	20	125	25	25	DC..11T3	RUV0021	RUA0046	RUB0009	RFE0014	CAXCB0076
UIPTE0068	SDJCL 2020 K11	20	20	20	125	25	25	DC..11T3	RUV0021	RUA0046	RUB0009	RFE0014	CAXCB0076
UIPTE0058	SDJCR 2525 M11	25	25	25	150	32	32	DC..11T3	RUV0021	RUA0046	RUB0009	RFE0014	CAXCB0076
UIPTE0040	SDJCL 2525 M11	25	25	25	150	32	32	DC..11T3	RUV0021	RUA0046	RUB0009	RFE0014	CAXCB0076

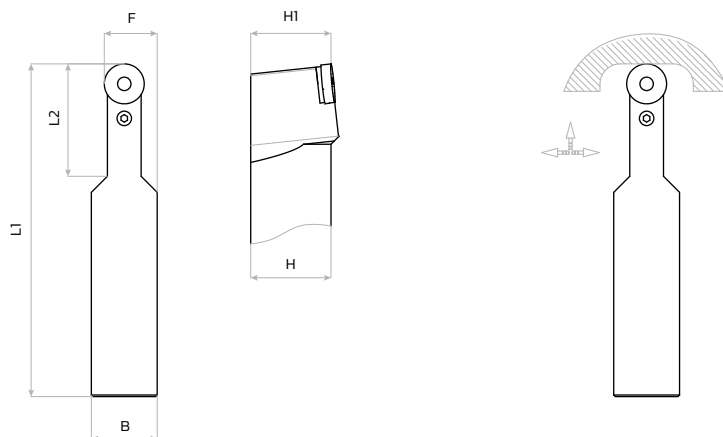
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING

inserto positivo con foro | positive insert with hole

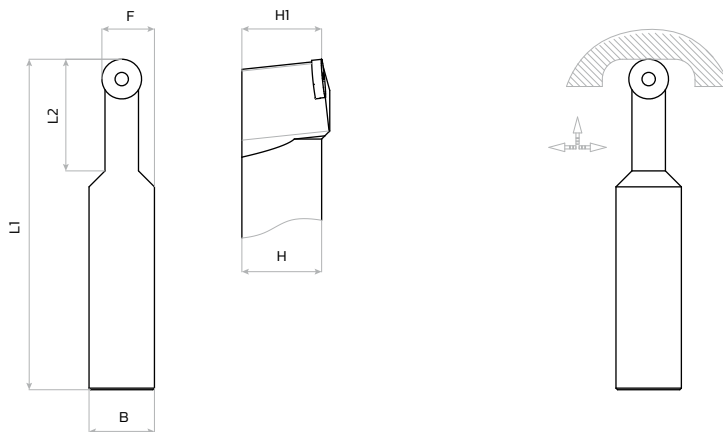


PRDCN

fissaggio a leva | lever lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		H	H1	B	L1	L2	F						
UIPTE0136	PRDCN 3232 P16	32	32	32	170	34	23,9	RC..1606	RUA0086	RUL0021	RUV0143	RUB0027	CAXCB0054
UIPTE0115	PRDCN 3232 P20	32	32	32	170	40	25,9	RC..2006	RUA0087	RUL0022	RUV0144	RUB0010	CAXCB0045



SRDCN

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		H	H1	B	L1	L2	F						
UIPTE0017	SRDCN 2525 M06	25	25	25	150	20	15,5	RC..0602	RFV0089	-	-	RFE0010	-
UIPTE0053	SRDCN 2525 M08	25	25	25	150	28	16,5	RC..0803	RFV0090	-	-	RFE0011	-
UIPTE0347	SRDCN 2525 M10	25	25	25	150	28	17,5	RC..10T3	RUV0021	-	-	RFE0014	-
UIPTE0107	SRDCN 2525 M12	25	25	25	150	28	18,5	RC..1204	RUV0021	-	-	RFE0014	-

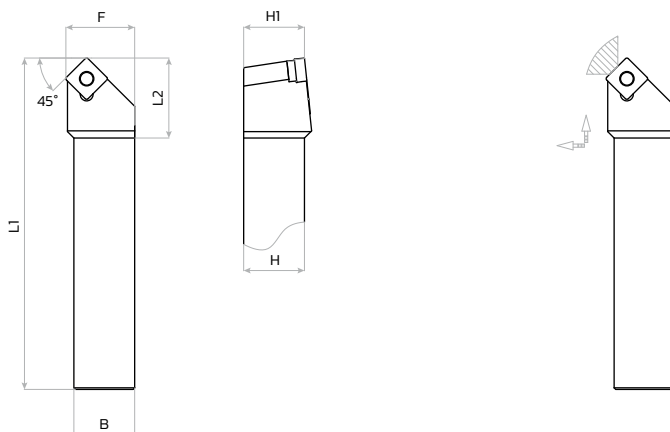
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING

inserto positivo con foro | positive insert with hole



SSDCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		H	H1	B	L1	L2	F						
UIPTE0082	SSDCR 1616 H09	16	16	16	100	20	17	SC..09T3	RUV0021	RUA0085	RUB0009	RFE0014	CAXCB0076
UIPTE0090	SSDCL 1616 H09	16	16	16	100	20	17	SC..09T3	RUV0021	RUA0085	RUB0009	RFE0014	CAXCB0076
UIPTE0008	SSDCR 2020 K12	20	20	20	125	25	22	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPTE0088	SSDCL 2020 K12	20	20	20	125	25	22	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPTE0026	SSDCR 2525 M12	25	25	25	150	32	27	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPTE0087	SSDCL 2525 M12	25	25	25	150	32	27	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046

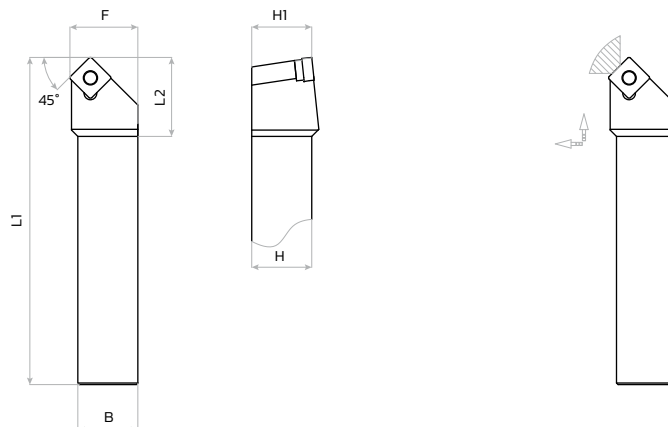
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING

inserto positivo con foro | positive insert with hole



SSSCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

	ISO	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		H	H1	B	L1	L2	F						
UIPTE0339	SSSCR 2020 K12	20	20	20	125	25	25	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPTE0340	SSSCL 2020 K12	20	20	20	125	25	25	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPTE0341	SSSCR 2525 M12	25	25	25	150	32	32	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046
UIPTE0342	SSSCL 2525 M12	25	25	25	150	32	32	SC..1204	RUV0009	RUA0025	RUB0017	RFE0014	CAXCB0046

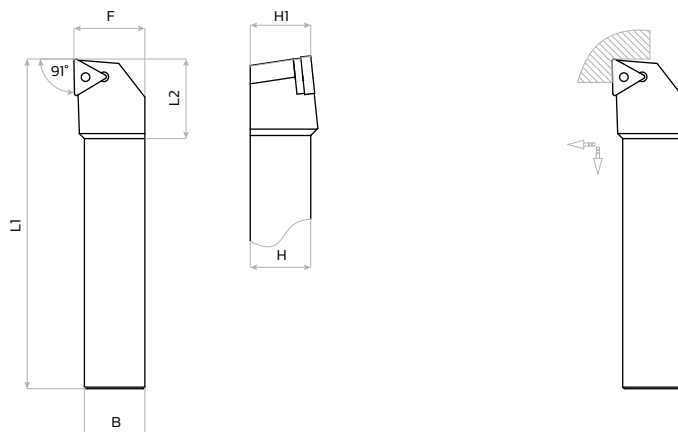
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING

inserto positivo con foro | positive insert with hole



STGCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		H	H1	B	L1	L2	F						
UIPTE0018	STGCR 1616 H16	16	16	16	100	20	20	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPTE0036	STGCL 1616 H16	16	16	16	100	20	20	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPTE0011	STGCR 2020 K16	20	20	20	125	25	25	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPTE0045	STGCL 2020 K16	20	20	20	125	25	25	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPTE0033	STGCR 2525 M16	25	25	25	150	32	32	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPTE0042	STGCL 2525 M16	25	25	25	150	32	32	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076

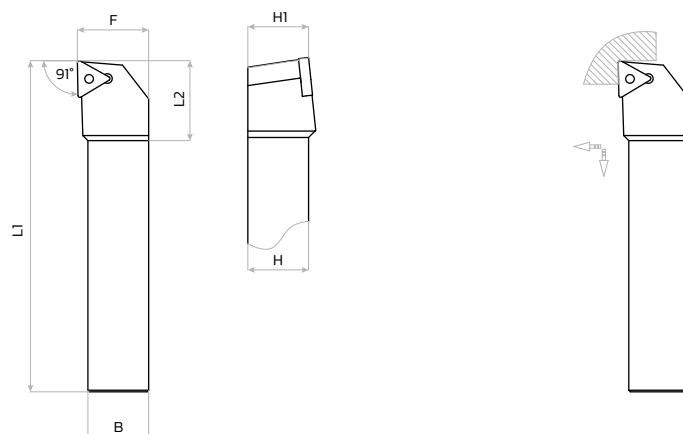
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA | EXTERNAL TURNING

inserto positivo con foro | positive insert with hole

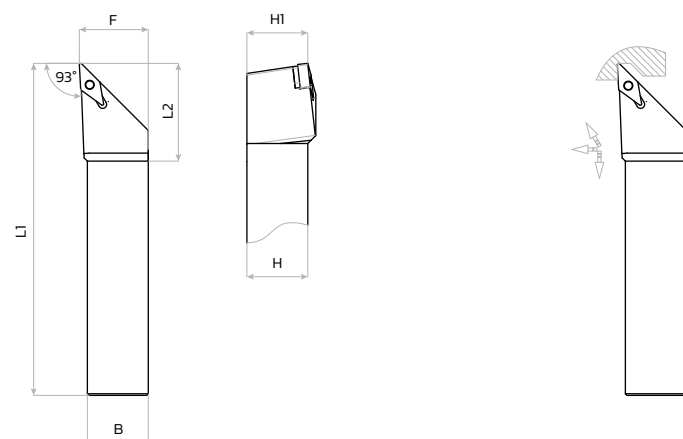


STGPR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		H	H1	B	L1	L2	F						
UIPTE0343	STGPR 2020 K16	20	20	20	125	25	25	TP..1603	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPTE0344	STGPL 2020 K16	20	20	20	125	25	25	TP..1603	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UITPE0345	STGPR 2525 M16	25	25	25	150	32	32	TP..1603	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPTE0346	STGPL 2525 M16	25	25	25	150	32	32	TP..1603	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076



SVJCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=0° - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=0° - superior rake angle=0°

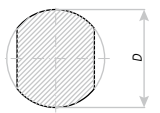
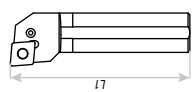
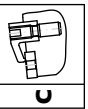
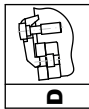
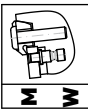
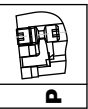
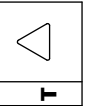
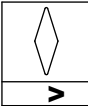
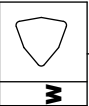
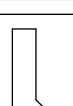
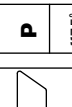
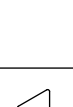
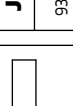
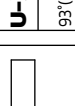
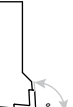
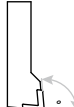
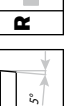
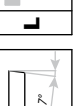
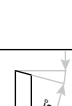
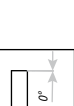
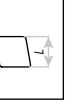
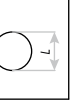
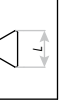
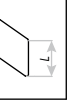
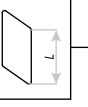
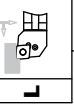
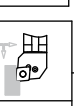
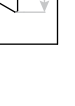
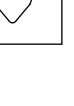
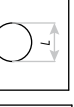
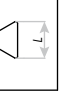
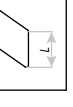
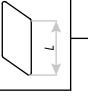
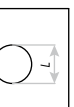
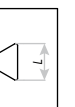
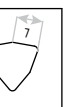
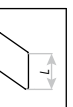
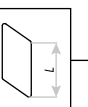
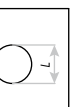
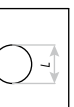
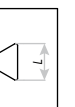
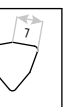
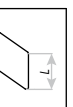
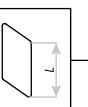
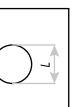
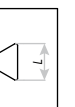
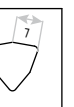
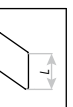
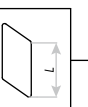
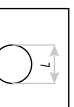
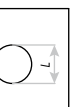
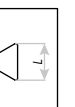
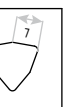
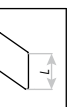
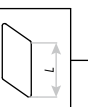
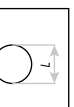
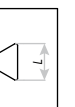
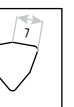
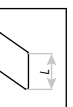
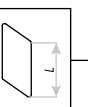
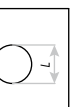
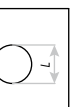
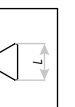
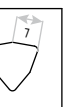
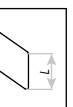
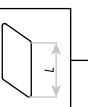
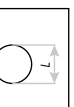
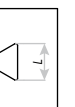
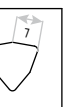
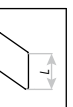
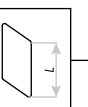
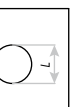
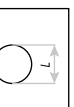
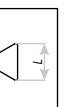
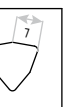
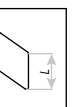
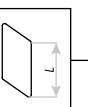
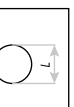
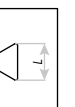
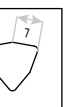
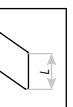
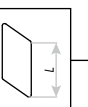
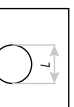
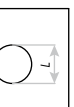
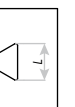
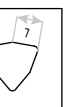
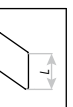
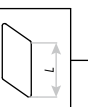
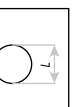
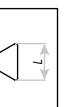
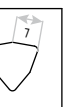
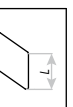
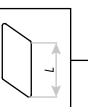
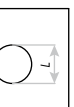
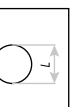
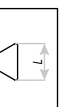
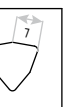
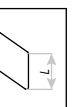
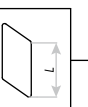
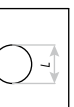
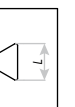
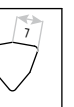
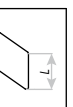
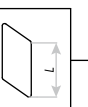
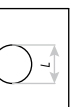
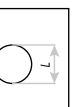
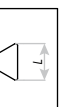
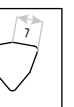
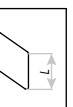
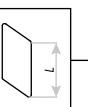
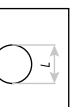
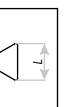
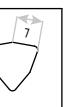
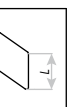
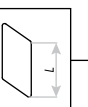
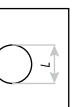
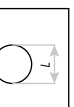
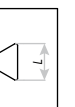
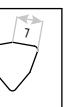
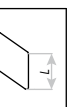
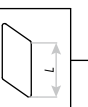
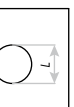
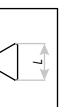
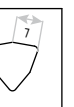
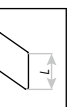
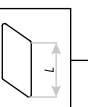
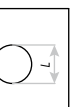
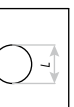
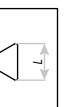
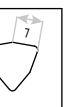
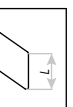
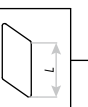
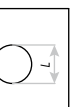
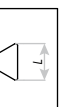
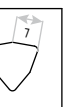
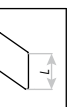
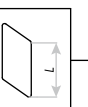
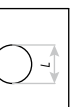
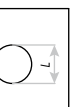
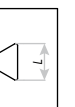
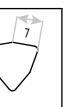
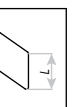
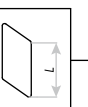
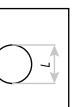
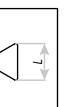
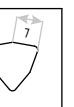
ISO		DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES	
		H	H1	B	L1	L2	F						
UIPTE0024	SVJCR 2525 M16	25	25	25	150	37	32	VC..1604	RUV0021	RUA0021	RUB0009	RFE0014	CAXCB0076
UIPTE0020	SVJCL 2525 M16	25	25	25	150	37	32	VC..1604	RUV0021	RUA0021	RUB0009	RFE0014	CAXCB0076

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

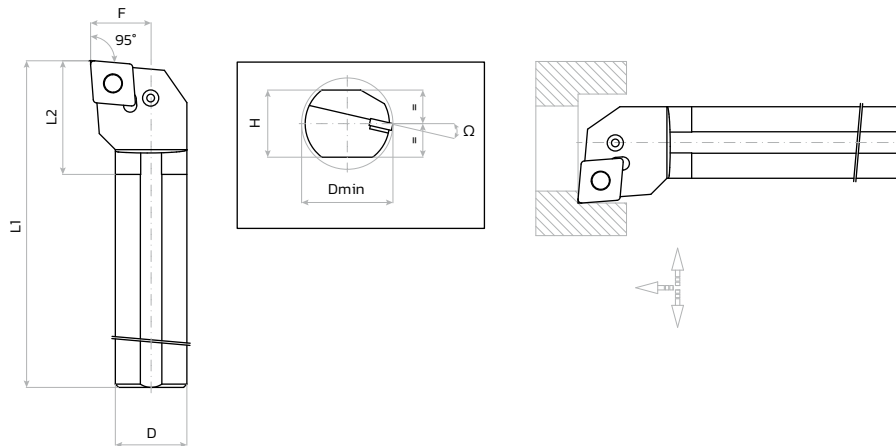
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

CHIAVE CODICI UTENSILI INTERNI | INTERNAL TOOLS KEYS

TIPO DI BARRA		DIAMETRO DELLA BARRA		LUNGHEZZA DELL'UTENSILE		SISTEMA DI BLOCCAGGIO		FORMA DELL'INSERTO		ANGOLO DI LAVORAZIONE		ANGOLO SPOGLIA INFERIORE INSERTO		ESECUZIONE DELL'UTENSILE		LUNGHEZZA TAGLIANTE																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
A	Monoblocco in acciaio con foro per refrigerante Steel solid bar with coolant hole		D 03 mm 04 mm 05 mm 06 mm 08 mm 10 mm 12 mm 16 mm 20 mm 24 mm 28 mm 32 mm 36 mm 40 mm		L F = 80 mm H = 100 mm K = 125 mm M = 150 mm P = 170 mm Q = 180 mm R = 200 mm S = 250 mm T = 300 mm U = 350 mm V = 400 mm W = 450 mm Y = 500 mm X = SPECIALE		C		D		W		P		S		T		V		W		C		P		F 91°		J 93°		L 95°		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°		P 11°		O Descrizione specifica		R		L		J 93°		L		Q 107,5°		U-X 93°(3°)		N 0°		P 11°		O Descrizione specifica		B 5°		C 7°		D 15°		E 20°		N 0°

TORNITURA INTERNA | INTERNAL TURNING

inserto negativo | negative insert



S..PCLNR/L

fissaggio a leva | lever lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=-6°

ISO		DIMENSIONI - DIMENSIONS							INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		D	H	L1	L2	F	Dmin	Ω						
UINTI0035	S25T PCLNR 12	25	23	300	42	17	32	-16°	CN..1204	RUA0017	RUL0006	RUV0137	RUB0002	CAXCB0045
UINTI0015	S25T PCLNL 12	25	23	300	42	17	32	-16°	CN..1204	RUA0017	RUL0006	RUV0137	RUB0002	CAXCB0045
UINTI0011	S32U PCLNR 12	32	30	350	49	22	40	-12°	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTI0014	S32U PCLNL 12	32	30	350	49	22	40	-12°	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTI0017	S40V PCLNR 12	40	37	400	56	27	50	-11°	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045
UINTI0028	S40V PCLNL 12	40	37	400	56	27	50	-11°	CN..1204	RUA0017	RUL0006	RUV0078	RUB0002	CAXCB0045

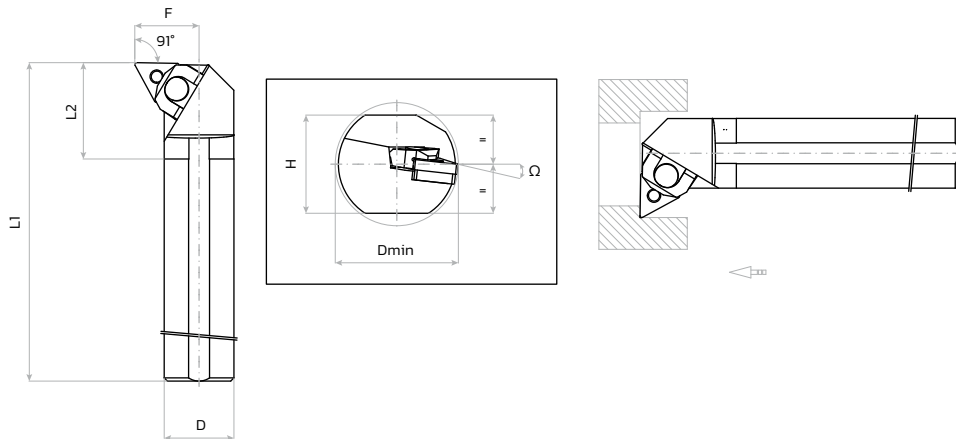
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA | INTERNAL TURNING

inserto negativo | negative insert

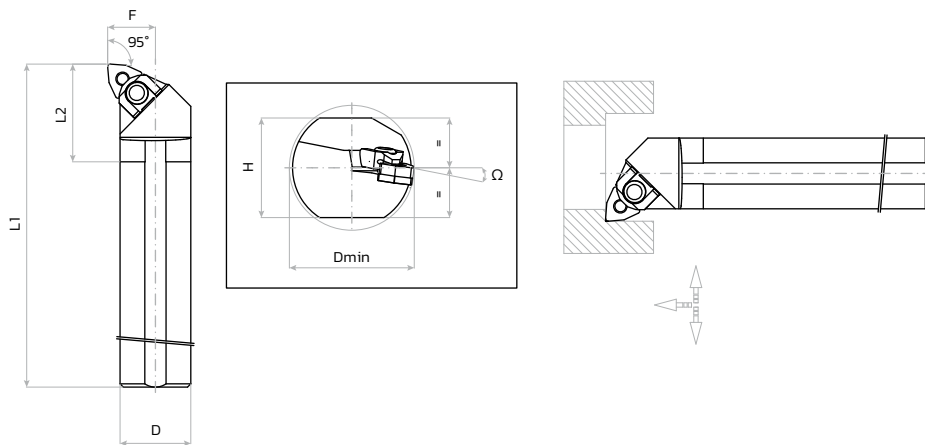


S..MTFNR/L

fissaggio a staffa/cuneo | bracket/wedge lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=-6°

	ISO	DIMENSIONI - DIMENSIONS							INSERT	PARTI DI RICAMBIO - SPARE PARTS					ACCESSORIES
		D	H	L1	L2	F	D min	Ω							
UINTI0019	S25T MTFNR 16	25	23	300	42	17	32	-16°	TN..1604	RUP0013	RUA0092	RUS0002	-	-	CAXCB0054
UINTI0026	S25T MTFNL 16	25	23	300	42	17	32	-16°	TN..1604	RUP0013	RUA0092	RUS0002	-	-	CAXCB0054
UINTI0112	S32U MTFNR 16	32	30	350	49	22	40	-12°	TN..1604	-	RUA0002	RUS0002	RUP0001	RUN0001	CAXCB0054
UINTI0114	S32U MTFNL 16	32	30	350	49	22	40	-12°	TN..1604	-	RUA0002	RUS0002	RUP0001	RUN0001	CAXCB0054



S..MWLNR/L

fissaggio a staffa/cuneo | bracket lock/wedge

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=-6°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=-6°

	ISO	DIMENSIONI - DIMENSIONS							INSERT	PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
		D	H	L1	L2	F	Dmin	Ω						
UINTI0032	S25S MWLNR 08	25	23	250	42	17	32	-12°	WN..0804	-	RUS0003	RUP0003	-	CAXCB0054
UINTI0004	S25S MWLNL 08	25	23	250	42	17	32	-12°	WN..0804	-	RUS0003	RUP0003	-	CAXCB0054
UINTI0021	S32U MWLNR 08	32	29	350	49	22	40	-12°	WN..0804	RUA0006	RUS0003	RUP0003	-	CAXCB0054
UINTI0036	S32U MWLNL 08	32	29	350	49	22	40	-12°	WN..0804	RUA0006	RUS0003	RUP0003	-	CAXCB0054

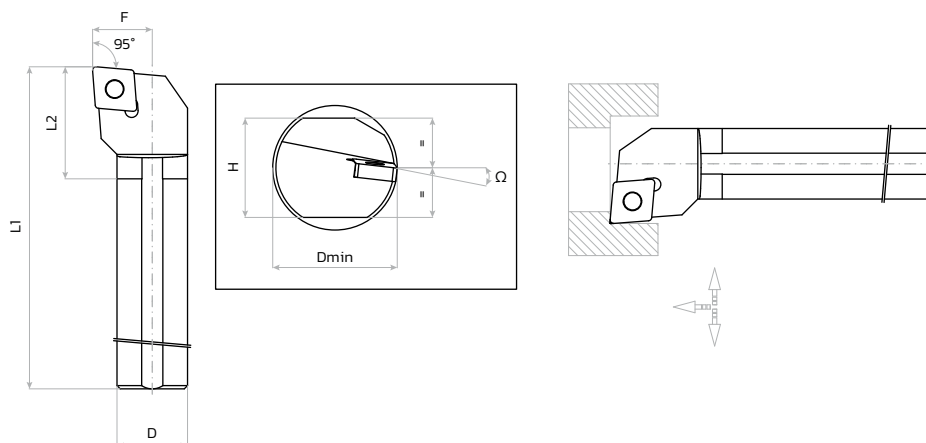
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA | INTERNAL TURNING

inserto positivo con foro | positive insert whit hole



S..SCLCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=0°

ISO		DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS			ACCESSORIES	
		D	H	L1	L2	F	Dmin	Ω						
UIPTI0033	S32U SCLCR 12	32	30	350	50	22	40	-10°	CC..1204	RUV0009	RUA0039	RUB0017	RFE0014	CAXCB0046
UIPTI0025	S32U SCLCL 12	32	30	350	50	22	40	-10°	CC..1204	RUV0009	RUA0039	RUB0017	RFE0014	CAXCB0046

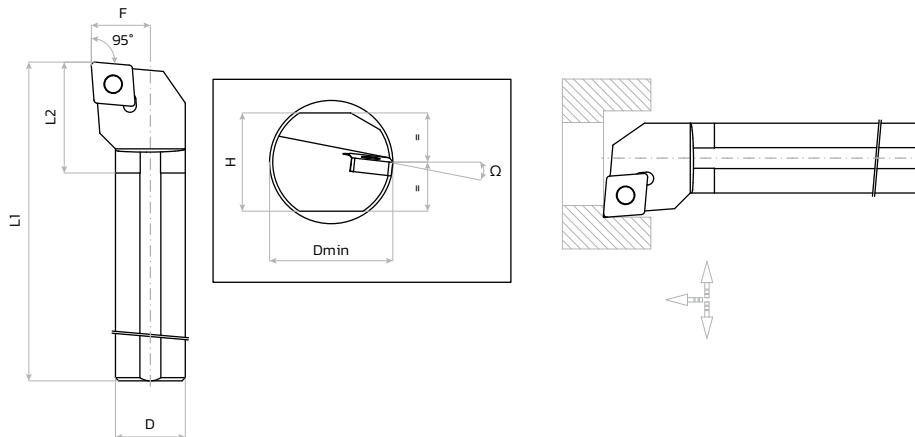
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA | INTERNAL TURNING

inserto positivo con foro | positive insert whit hole



WITH COOLANT

A.SCLCR/L

con refrigerazione interna - fissaggio a vite | coolant tools - screw lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=0°

	ISO	DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS			ACCESSORIES	
		D	H	L1	L2	F	Dmin	Ω						
UIPTI0099	A08H SCLCR 06	8	7	100	23	5	10	-15°	CC..0602	RFV0089	-	-	RFE0010	-
UIPTI0051	A08H SCLCL 06	8	7	100	23	5	10	-15°	CC..0602	RFV0089	-	-	RFE0010	-
UIPTI0128	A10H SCLCR 06	10	9	100	25	6,5	12	-12°	CC..0602	RFV0089	-	-	RFE0010	-
UIPTI0133	A10H SCLCL 06	10	9	100	25	6,5	12	-12°	CC..0602	RFV0089	-	-	RFE0010	-
UIPTI0089	A12K SCLCR 06	12	11	125	28	9	16	-10°	CC..0602	RFV0089	-	-	RFE0010	-
UIPTI0052	A12K SCLCL 06	12	11	125	28	9	16	-10°	CC..0602	RFV0089	-	-	RFE0010	-
UIPTI0063	A16M SCLCR 09	16	15	150	32	11	20	-10°	CC..09T3	RUV0037	-	-	RFE0014	-
UIPTI0070	A16M SCLCL 09	16	15	150	32	11	20	-10°	CC..09T3	RUV0037	-	-	RFE0014	-
UIPTI0064	A20Q SCLCR 09	20	18	180	38	13	25	-8°	CC..09T3	RUV0037	-	-	RFE0014	-
UIPTI0122	A20Q SCLCL 09	20	18	180	38	13	25	-8°	CC..09T3	RUV0037	-	-	RFE0014	-
UIPTI0126	A25R SCLCR 12	25	23	200	45	17	32	-6°	CC..1204	RUV0003	-	-	RFE0015	-
UIPTI0134	A25R SCLCL 12	25	23	200	45	17	32	-6°	CC..1204	RUV0003	-	-	RFE0015	-

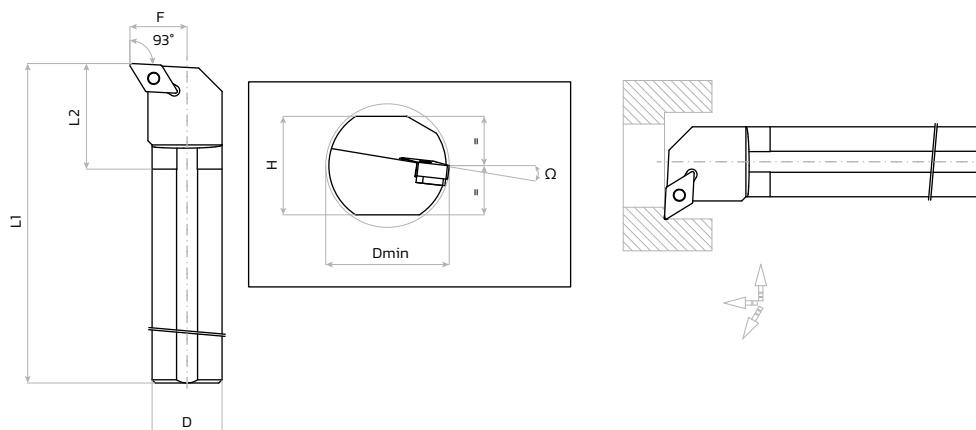
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA | INTERNAL TURNING

inserto positivo con foro | positive insert whit hole



S..SDUCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=0°

ISO		DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS			ACCESSORIES	
		D	H	L1	L2	F	Dmin	Ω						
UIPTI0129	S32U SDUCR 11	32	30	350	50	22	40	-8°	DC..11T3	RUV0021	RUA0046	RUB0009	RFE0014	CAXCB0076
UIPTI0148	S32U SDUCL 11	32	30	350	50	22	40	-8°	DC..11T3	RUV0021	RUA0046	RUB0009	RFE0014	CAXCB0076

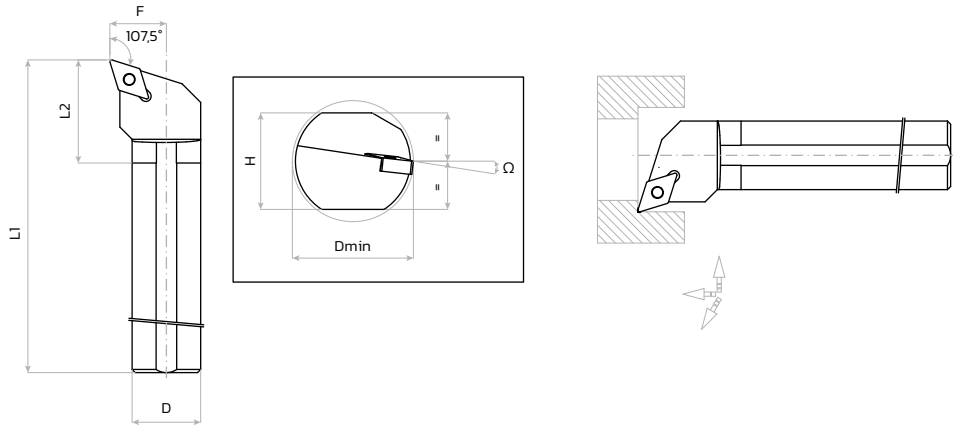
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA | INTERNAL TURNING

inserto positivo con foro | positive insert with hole

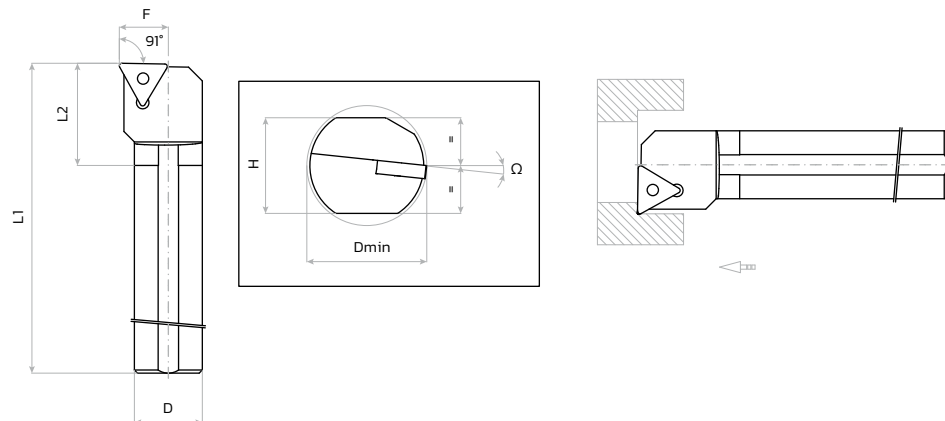


A..SDQCR/L

con refrigerazione interna - fissaggio a vite | coolant tools - screw lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=0°

	ISO	DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS			ACCESSORIES	
		D	H	L1	L2	F	Dmin	Ω						
UIPTI0137	A16M SDQCR 07	16	15	150	32	11	20	-8°	DC..0702	RFV0089	-	-	RFE0010	-
UIPTI0138	A16M SDQCL 07	16	15	150	32	11	20	-8°	DC..0702	RFV0089	-	-	RFE0010	-
UIPTI0065	A20Q SDQCR 11	20	18	180	40	13	25	-8°	DC..11T3	RUV0037	-	-	RFE0014	-
UIPTI0139	A20Q SDQCL 11	20	18	180	40	13	25	-8°	DC..11T3	RUV0037	-	-	RFE0014	-
UIPTI0058	A25R SDQCR 11	25	23	200	46	17	32	-6°	DC..11T3	RUV0037	-	-	RFE0014	-
UIPTI0067	A25R SDQCL 11	25	23	200	46	17	32	-6°	DC..11T3	RUV0037	-	-	RFE0014	-



S..STFCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=0°

	ISO	DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS			ACCESSORIES	
		D	H	L1	L2	F	Dmin	Ω						
UIPTI0082	S32U STFCR 16	32	30	350	50	22	40	-8°	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076
UIPTI0147	S32U STFCL 16	32	30	350	50	22	40	-8°	TC..16T3	RUV0021	RUA0029	RUB0009	RFE0014	CAXCB0076

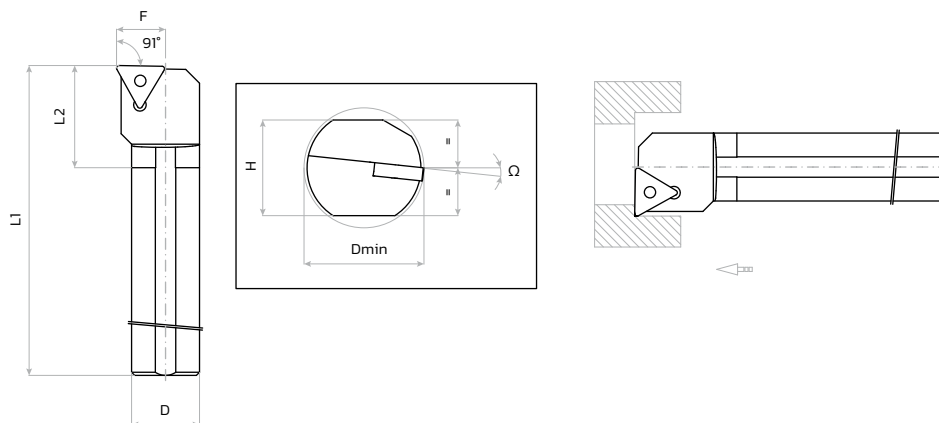
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA | INTERNAL TURNING

inserto positivo con foro | positive insert whit hole



WITH COOLANT

A..STFCR/L

con refrigerazione interna - fissaggio a vite | coolant tools - screw lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=0°

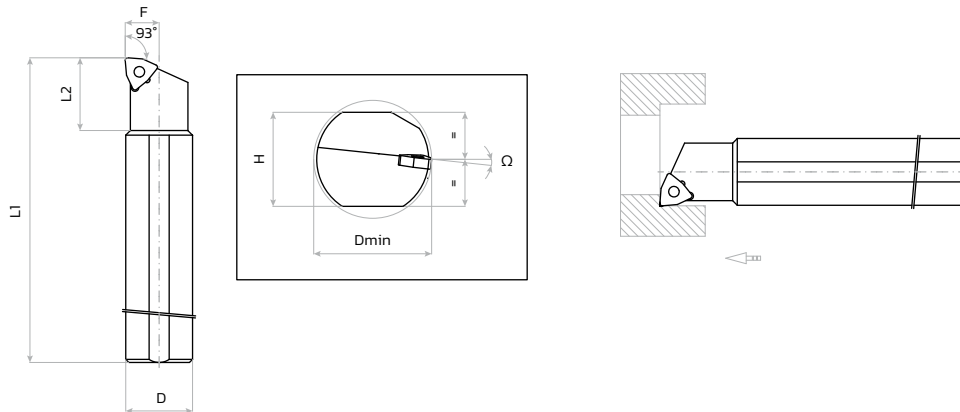
ISO		DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS			ACCESSORIES	
		D	H	L1	L2	F	Dmin	Ω						
UIPTI0078	A12K STFCR 11	12	11	125	30	9	16	-10°	TC..1102	RFV0089	-	-	RFE0010	-
UIPTI0142	A12K STFCR 11	12	11	125	30	9	16	-10°	TC..1102	RFV0089	-	-	RFE0010	-
UIPTI0054	A16M STFCR 11	16	15	150	35	11	20	-6°	TC..1102	RFV0089	-	-	RFE0010	-
UIPTI0062	A16M STFCR 11	16	15	150	35	11	20	-6°	TC..1102	RFV0089	-	-	RFE0010	-
UIPTI0079	A20Q STFCR 16	20	18	180	36	13	25	-8°	TC..16T3	RUV0037	-	-	RFE0014	-
UIPTI0143	A20Q STFCR 16	20	18	180	36	13	25	-8°	TC..16T3	RUV0037	-	-	RFE0014	-
UIPTI0080	A25R STFCR 16	25	23	200	49	17	32	-6°	TC..16T3	RUV0037	-	-	RFE0014	-
UIPTI0144	A25R STFCR 16	25	23	200	49	17	32	-6°	TC..16T3	RUV0037	-	-	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA | INTERNAL TURNING
inserto positivo con foro | positive insert with hole



S..SWUCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - angolo di inclinazione=Ω - angolo superiore di spoglia=0°
Right-hand tool shown - angle of inclination=Ω - superior rake angle=0°

ISO		DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS			ACCESSORIES	
		D	H	L1	L2	F	Dmin	Ω						
UIPTI0045	S0508H SWUCR 02	8	5	100	17	2,9	5,8	-17°	WC..0201	RUV0005	-	-	RFE0009	-
UIPTI0624	S0508H SWUCL 02	8	5	100	17	2,9	5,8	-17°	WC..0201	RUV0005	-	-	RFE0009	-
UIPTI0625	S0608H SWUCR 02	8	6	100	17	3,4	7	-16°	WC..0201	RUV0005	-	-	RFE0009	-
UIPTI0046	S0608H SWUCL 02	8	6	100	17	3,4	7	-16°	WC..0201	RUV0005	-	-	RFE0009	-

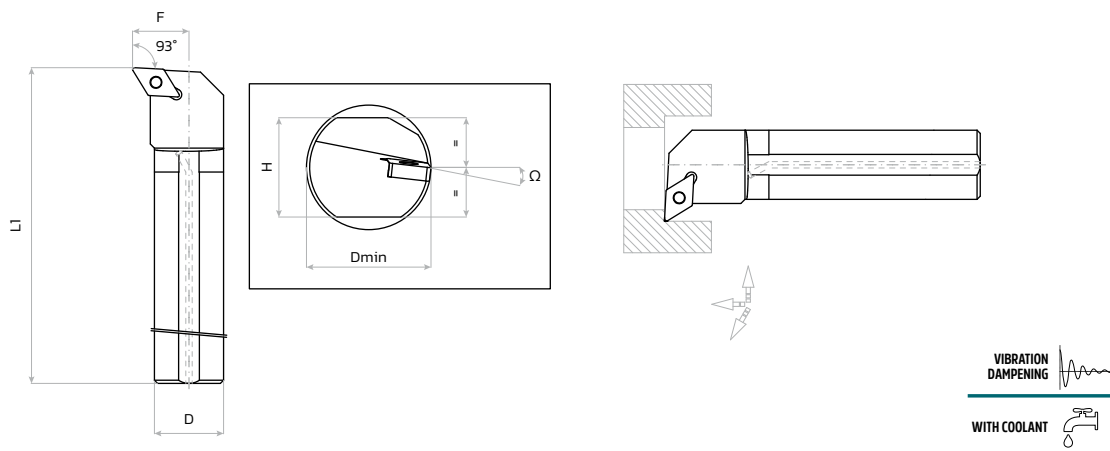
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA ANTIVIBRANTE | ANTIVIBRATION INTERNAL TURNING

inserto positivo con foro | positive insert with hole



E..SDUCR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - Metallo duro con foro di lubrificazione interna - Lunghezza massima 6XD
Right-hand tool shown - Solid carbide rod with internal coolant supply - Maximum overhang 6XD

ISO		DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS			ACCESSORIES	
		D	L1	F	Dmin	Ω							
UIPTIW0051	E10K SDUCR 07	10	125	7	12,5	-12°	DC..0702		RFV0089	-	-	RFE0010	-
UIPTIW0067	E10K SDUCL 07	10	125	7	12,5	-12°	DC..0702		RFV0089	-	-	RFE0010	-
UIPTIW0093	E12M SDUCR 07	12	150	9	15,5	-10°	DC..0702		RFV0089	-	-	RFE0010	-
UIPTIW0084	E12M SDUCL 07	12	150	9	15,5	-10°	DC..0702		RFV0089	-	-	RFE0010	-
UIPTIW0094	E16R SDUCR 11	16	200	11	20	-10°	DC..11T3		RUV0037	-	-	RFE0014	-
UIPTIW0096	E16R SDUCL 11	16	200	11	20	-10°	DC..11T3		RUV0037	-	-	RFE0014	-
UIPTIW0095	E20S SDUCR 11	20	250	13	24	-8°	DC..11T3		RUV0037	-	-	RFE0014	-
UIPTIW0076	E20S SDUCL 11	20	250	13	24	-8°	DC..11T3		RUV0037	-	-	RFE0014	-
UIPTIW0097	E25T SDUCR 11	25	300	16	29	-6°	DC..11T3		RUV0037	-	-	RFE0014	-
UIPTIW0069	E25T SDUCL 11	25	300	16	29	-6°	DC..11T3		RUV0037	-	-	RFE0014	-

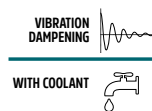
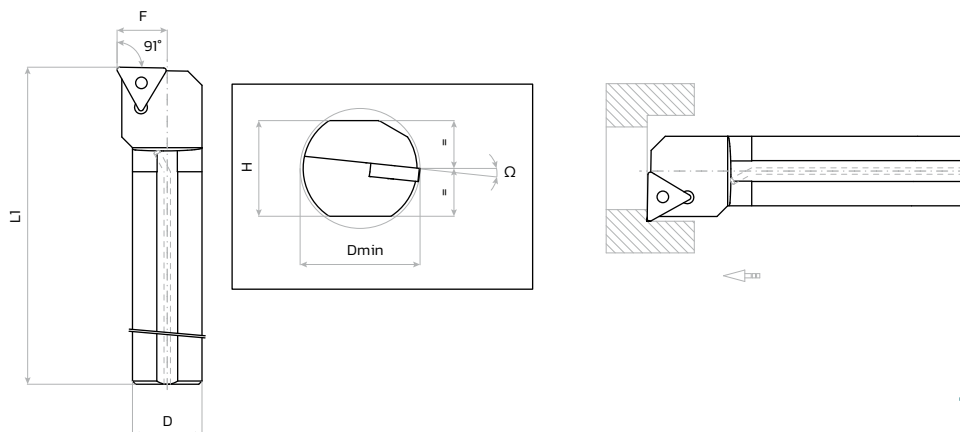
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA INTERNA ANTIVIBRANTE | ANTIVIBRATION INTERNAL TURNING

inserto positivo con foro | positive insert with hole



E..STFPR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro - Metallo duro con foro di lubrificazione interna 6xD
Right-hand tool shown - Solid carbide rod with internal coolant supply 6xD

	ISO	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS			ACCESSORIES	
		D	L1	F	Dmin	Ω						
UIPTIW0098	E08K STFPR 08	8	125	5	9,5	-15°	TP..0802	RUV0005	-	-	RFE0009	-
UIPTIW0089	E08K STFPL 08	8	125	5	9,5	-15°	TP..0802	RUV0005	-	-	RFE0009	-
UIPTIW0099	E10K STFPR 09	10	125	6	11,5	-12°	TP..0902	RFV0089	-	-	RFE0010	-
UIPTIW0100	E10K STFPL 09	10	125	6	11,5	-12°	TP..0902	RFV0089	-	-	RFE0010	-
UIPTIW0092	E12M STFPR 11	12	150	8	14,5	-10°	TP..1103	RFV0090	-	-	RFE0011	-
UIPTIW0101	E12M STFPL 11	12	150	8	14,5	-10°	TP..1103	RFV0090	-	-	RFE0011	-
UIPTIW0091	E16R STFPR 11	16	200	10	19	-6°	TP..1103	RFV0090	-	-	RFE0011	-
UIPTIW0102	E16R STFPL 11	16	200	10	19	-6°	TP..1103	RFV0090	-	-	RFE0011	-

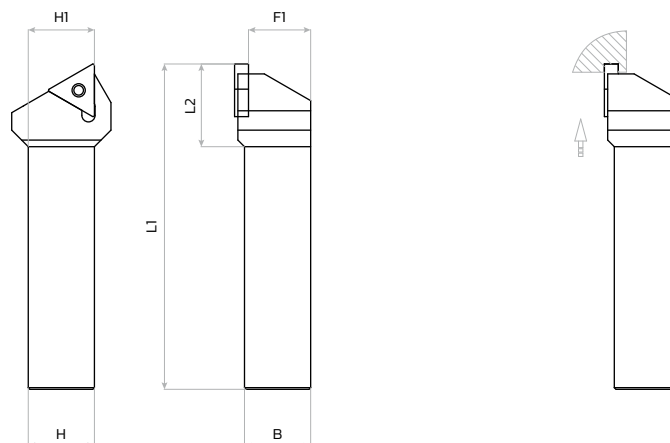
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

TORNITURA ESTERNA/INTERNA PER SEEGER | EXTERNAL/INTERNAL TURNING FOR SEEGER

inserto con foro | insert whit hole

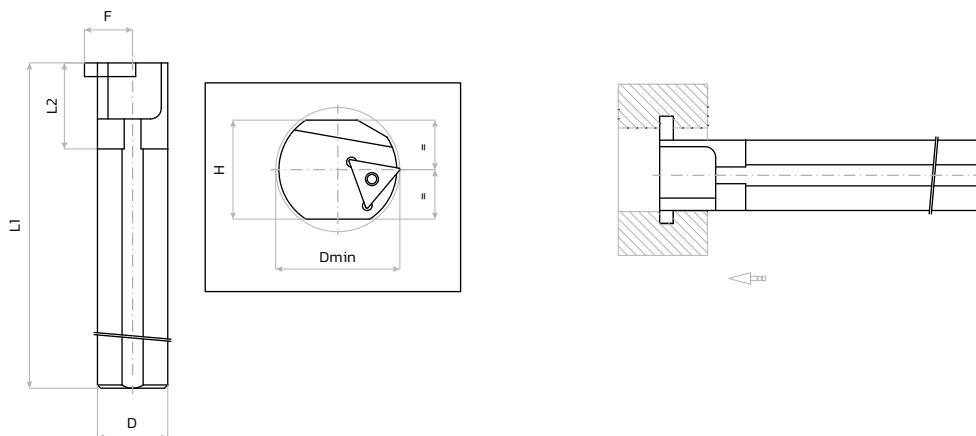


STCNR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro
Right-hand tool shown

ISO		DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORIES	
		H	H1	C	L1	L2	F1					
UIPSE0015	STCNR 2020 K16	20	20	20	125	23	18,2	Seeger	RUV0096	-	RFE0011	-
UIPSE0098	STCNR 2020 K16	20	20	20	125	23	18,2	Seeger	RUV0096	-	RFE0011	-
UIPSE0011	STCNR 2525 M16	25	25	25	150	23	28,2	Seeger	RUV0096	-	RFE0011	-
UIPSE0066	STCNR 2525 M16	25	25	25	150	23	28,2	Seeger	RUV0096	-	RFE0011	-



S..TGPR/L

fissaggio a vite | screw lock

Il disegno mostra utensile destro
Right-hand tool shown

ISO		DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORIES	
		D	H	L1	L2	F	Dmin					
UIPSI0001	S2OR TGPR 16	20	18	200	19	12	25	Seeger	RUV0096	-	RFE0011	-
UIPSI0020	S2OR TGPR 16	20	18	200	19	12	25	Seeger	RUV0096	-	RFE0011	-
UIPSI0011	S25R TGPR 16	25	23	200	19	14,5	30	Seeger	RUV0096	-	RFE0011	-
UIPSI0003	S25R TGPR 16	25	23	200	19	14,5	30	Seeger	RUV0096	-	RFE0011	-

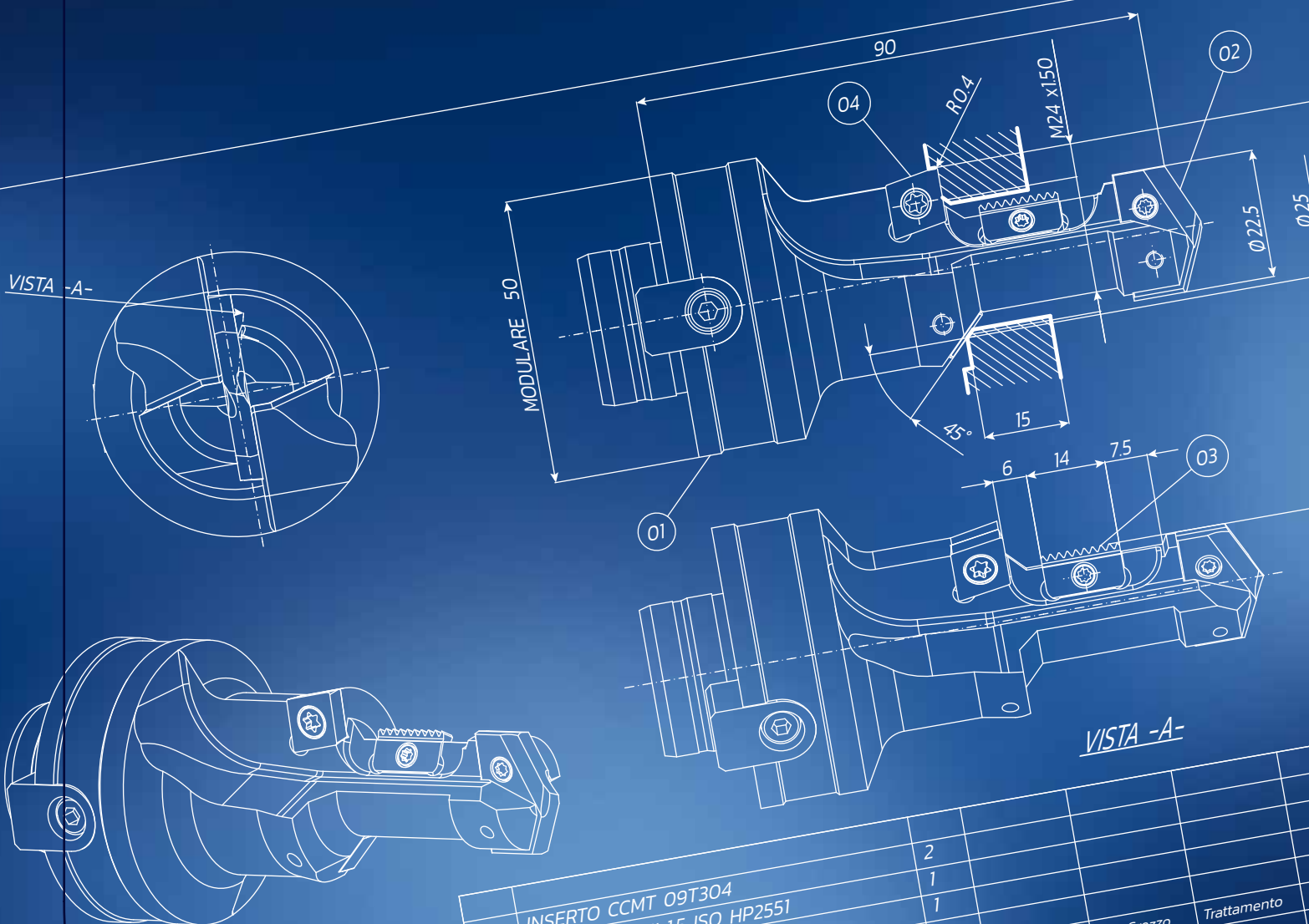
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

FILETTATURA SPECIALE

SPECIAL THREADING



Pos.	Descrizione	Quant.	Materiale	Dim. Grezzo	Trattamento
4	INSERTO CCMT 09T304	2			
3	INSERTO TM14I 1.5 ISO HP2551	1			
2	CUSPIDE Ø22.50	1			
1	CORPO PUNTA	1			
rif. 2192		mat. da lavorare		sostituito da	scala 1/1
RIECO costruzione utensili		dis. D.Zanella		data 13.06.2016	
		Denominazione PUNTA Ø22.5 + M24x1.5 + LAMATURA Ø36 + SMUSSO			

FILETTATURA

THREADING



INDICE

INDEX

UINFE

utensili a filettare esterni |
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frese a filettare a inserto singolo |
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E 8

FIAC

frese a filettare a doppio inserto |
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E 8

FIAM

frese a filettare multi inserto |
multi insert toolholders

E 9

FIAX

frese a filettare multi inserto |
multi insert toolholders

E 9

FIAX

frese a filettare multi inserto |
multi insert toolholders

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FIAX

frese a filettare multi inserto |
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frese a filettare multi inserto |
multi insert toolholders

E 11

AMCATM

cartucce per allargatori AMAL |
cartridges for AMAL boring tool

E 11

FWBC

frese a filettare in metallo duro |
mill-thread solid carbide

E 13

FWBC

frese a filettare in metallo duro |
mill-thread solid carbide

E 14

PWBAC

frese fora e filetta in metallo duro |
mill-thread solid carbide

E 14

PWBAC

frese fora e filetta in metallo duro |
mill-thread solid carbide

E 15

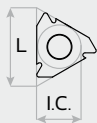
FWBCR

frese a filettare in metallo duro |
mill-thread solid carbide

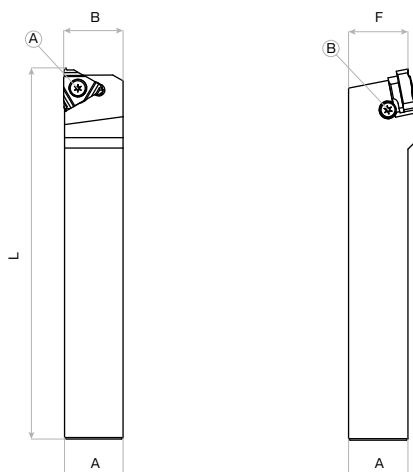
E 15

UTENSILI DI FILETTATURA | THREADING TOOLS

IDENTIFICAZIONE UTENSILE | THREADING TOOLHOLDERS CODES

UINF	E	20 20	16	M	R
	↓	↓	↓	↓	↓
	E = Esterno / External I = Interno / Internal	Utensili esterni External toolholders 2020 = 20mm x 20mm Utensili interni Internal toolholders 2016 = Ø 20mm ridotto/ reduced Ø 16 mm	 L I.C. 11 1/4" 16 3/8" 22 1/2"	M = Maggiorato / Plus	R = Destro / Right

FILETTATURA ESTERNA | EXTERNAL THREADING



UINFE

utensili a filettare esterni | external threading toolholders

	DIMENSIONI - DIMENSIONS			INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	A=F	B	L		A	B		
UINFE101011R*	10	11	100	11ER	RUV0280	-	-	RFE0010
UINFE121211R*	12	12	125	11ER	RUV0280	-	-	RFE0010
UINFE121216R	12	16	80	16ER	RUV0271	RUV0286	RUA0176	RFE0012
UINFE161616R	16	16	100	16ER	RUV0271	RUV0286	RUA0176	RFE0012
UINFE202016R	20	20	125	16ER	RUV0271	RUV0286	RUA0176	RFE0012
UINFE252516R	25	25	150	16ER	RUV0271	RUV0286	RUA0176	RFE0012
UINFE323216R	32	32	170	16ER	RUV0271	RUV0286	RUA0176	RFE0012
UINFE252522R	25	25	150	22ER	RUV0277	RUV0159	RUA0179	RFE0015
UINFE323222R	32	32	170	22ER	RUV0277	RUV0159	RUA0179	RFE0015
UINFE404022R	40	40	200	22ER	RUV0277	RUV0159	RUA0179	RFE0015
UINFE202016MR**	20	20	125	16ERM	RUV0271	RUV0286	RUA0176	RFE0012
UINFE252516MR**	25	25	150	16ERM	RUV0271	RUV0286	RUA0176	RFE0012
UINFE323222MR**	32	32	170	22ERM	RUV0277	RUV0159	RUA0179	RFE0015
UINFE404022MR**	40	40	200	22ERM	RUV0277	RUV0159	RUA0179	RFE0015

* senza sottopiacchetta - without shim

** per inserti maggiorati - for higher inserts

ATTENZIONE

Gli utensili sono costruiti con un angolo di elica pari a 1,5°, per gli altri angoli vedi pag E 6.

ATTENTION

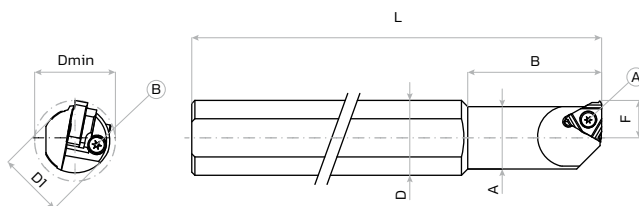
Tools are produced with a 1.5° helix angle; see other types of helix at pg. E 6.

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Complete list of spare parts at section I - spare parts.
For inserts see section H - inserts.

FILETTATURA INTERNA | INTERNAL THREADING



UINFI

utensili a filettare interni | internal toolholders

	DIMENSIONI - DIMENSIONS							INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	D1	Dmin	F	A	B	L		A	B		
UINFI161011R*	16	12	12	7,4	10	25	125	11IR	RUV0280	-	-	RFE0010
UINFI161311R*	16	15	15	8,9	13	32	140	11IR	RUV0280	-	-	RFE0010
UINFI201616R	20	16	19	11,7	16	40	170	16IR	RUV0271	RUV0286	RUA0183	RFE0012
UINFI202016R	20	24	24	13,7	20	-	170	16IR	RUV0271	RUV0286	RUA0183	RFE0012
UINFI252516R	25	29	29	16,2	25	-	200	16IR	RUV0271	RUV0286	RUA0183	RFE0012
UINFI323216R	32	36	36	19,7	32	-	250	16IR	RUV0271	RUV0286	RUA0183	RFE0012
UINFI404016R	40	44	44	23,7	40	-	300	16IR	RUV0271	RUV0286	RUA0183	RFE0012
UINFI252522R	25	29	29	18,1	25	-	200	22IR	RUV0277	RUV0159	RUA0192	RFE0015
UINFI323222R	32	38	38	21,6	32	-	250	22IR	RUV0277	RUV0159	RUA0192	RFE0015
UINFI404022R	40	46	46	25,6	40	-	300	22IR	RUV0277	RUV0159	RUA0192	RFE0015
UINFI505022R	50	56	56	30,6	50	-	350	22IR	RUV0277	RUV0159	RUA0192	RFE0015
UINFI202016MR**	20	24	24	13,7	20	-	170	16IRM	RUV0271	RUV0286	RUA0183	RFE0012
UINFI252516MR**	25	29	29	16,2	25	-	200	16IRM	RUV0271	RUV0286	RUA0183	RFE0012
UINFI323216MR**	32	36	36	19,7	32	-	250	16IRM	RUV0271	RUV0286	RUA0183	RFE0012
UINFI252522MR**	25	29	29	18,1	25	-	200	22IRM	RUV0277	RUV0159	RUA0192	RFE0015
UINFI323222MR**	32	38	38	21,6	32	-	250	22IRM	RUV0277	RUV0159	RUA0192	RFE0015
UINFI404022MR**	40	46	46	25,7	40	-	300	22IRM	RUV0277	RUV0159	RUA0192	RFE0015
UINFI505022MR**	50	56	56	30,6	50	-	350	22IRM	RUV0277	RUV0159	RUA0192	RFE0015

* senza sottopiacchetta - without shim

** per inserti maggiorati - for higher inserts

ATTENZIONE

Gli utensili sono costruiti con un angolo di elica pari a 1,5°, per gli altri angoli vedi pag E 6.

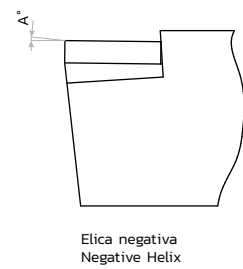
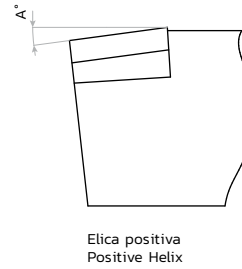
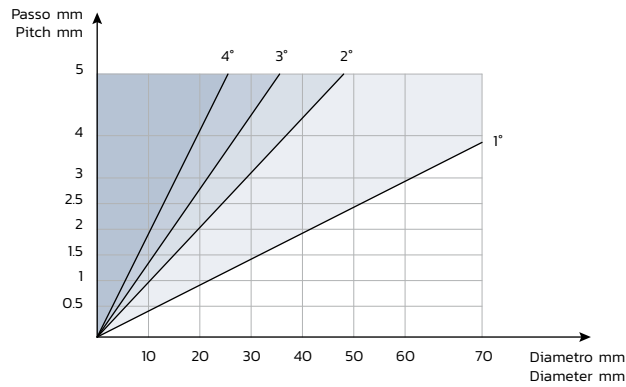
ATTENTION

Tools are produced with a 1.5° helix angle; see other types of helix at pg. E 6.

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Complete list of spare parts at section I - spare parts.
For inserts see section H - inserts.



Gli utensili sono costruiti con un angolo di elica pari a 1.5°, questo angolo può essere aggiustato sostituendo il supporto sotto l'inserto.

Toolholders are made with a 1.5° helix angle; this angle can be adjusted by simply changing the shim.

RUA

supporti standard e inclinati | standard and oblique anvils

INSERT	A°						
	4.5°	3.5°	2.5°	1.5° standard	0.5°	-0.5°	-1.5°
16EXT	RUA0193	RUA0197	RUA0201	RUA0176	RUA0205	RUA0209	RUA0213
16INT	RUA0194	RUA0198	RUA0202	RUA0183	RUA0206	RUA0210	RUA0214
22EXT	RUA0195	RUA0199	RUA0203	RUA0179	RUA0207	RUA0211	RUA0215
22INT	RUA0196	RUA0200	RUA0204	RUA0192	RUA0208	RUA0212	RUA0216

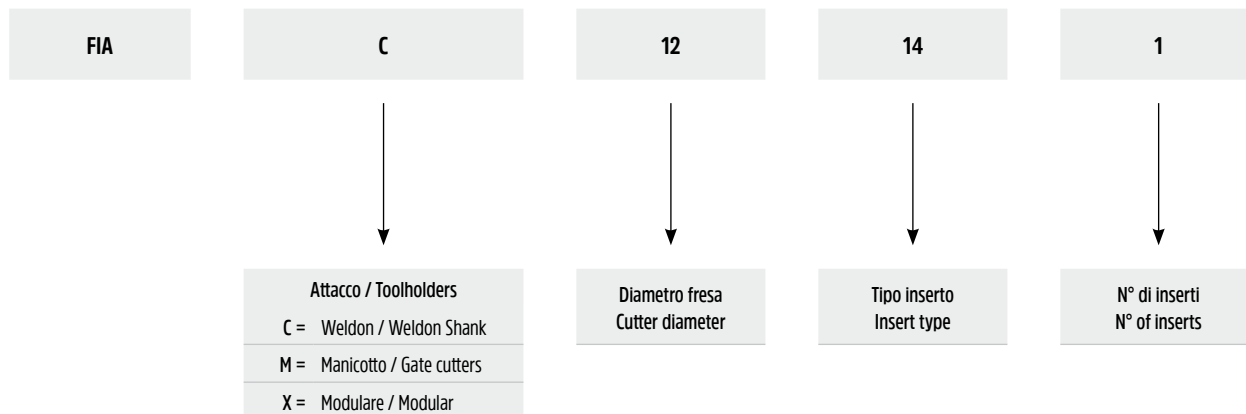
NOTE

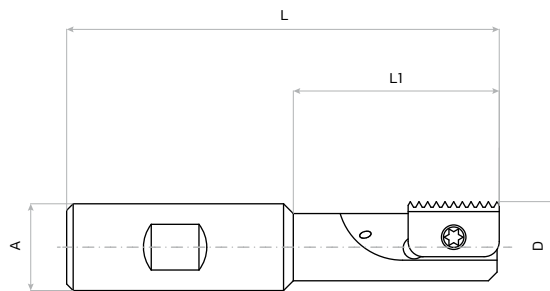
Specifiche dei componenti di ricambio in sezione I – ricambi.
Per inserti vedi sezione H – inserti.

Complete list of spare parts at section I – spare parts.
For inserts see section H – inserts.

FRESE AD INSERTI PER FILETTATURA | MILL-THREAD TOOLHOLDERS

IDENTIFICAZIONE FRESE AD INSERTI | MILL-THREAD TOOLHOLDERS CODES

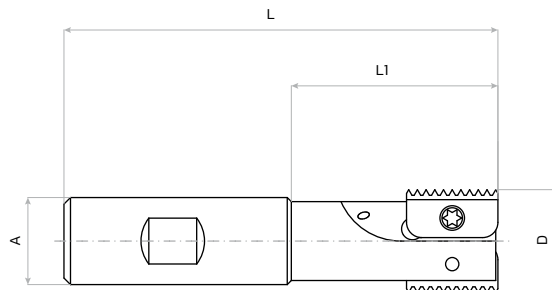




FIAC

frese a filettare a inserto singolo | single insert toolholders

	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	A	L1	L					
FIAC12141	12	20	24	80	14	RFV0164	-	-	RFE0010
FIAC14141	14,5	20	30	90	14	RFV0164	-	-	RFE0010
FIAC17141	17	20	35	90	14	RFV0164	-	-	RFE0010
FIAC18211	18	20	35	90	21	RFV0167	-	-	RFE0014
FIAC21211	21	20	45	100	21	RFV0167	-	-	RFE0014
FIAC29301	29	25	58	120	30	RUV0232	-	-	RFE0007
FIAC48401	48	40	90	170	40	RFV0169	-	-	RFE0007



FIAC

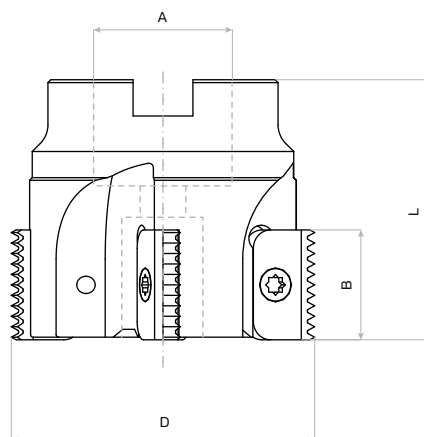
frese a filettare a doppio inserto | twin insert toolholders

	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	A	L1	L					
FIAC20142	20	20	48	106	14	RFV0164	-	-	RFE0010
FIAC30212	30	25	60	125	21	RFV0167	-	-	RFE0014
FIAC40302	40	32	80	150	30	RUV0232	-	-	RFE0007
FIAC50402	50	40	90	175	40	RFV0169	-	-	RFE0007

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

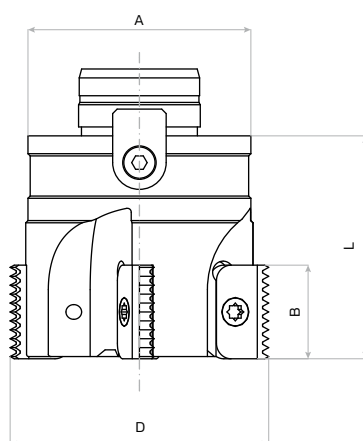
Complete list of spare parts at section I - spare parts.
For inserts see section H - inserts.



FIAM

frese a filettare multi inserto | multi insert toolholders

	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	A	L	Z					
FIAM63215	63	22	50	5	21	RFV0167	-	-	RFE0014
FIAM80304	80	27	55	4	30	RUV0232	-	-	RFE0007



FIAX

frese a filettare multi inserto | multi insert toolholders

	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	A	L	Z					
FIAX53144	53	50	50	4	14	RFV0164	RMH0001	-	RFE0010
FIAX58214	58	50	50	4	21	RFV0167	RMH0001	-	RFE0014
FIAX58304	58	50	50	4	30	RUV0232	RMH0001	-	RFE0007
FIAX70305	70	63	55	5	30	RUV0232	RMH0002	-	RFE0007
FIAX70405	70	63	65	5	40	RFV0169	RMH0002	-	RFE0007

ATTENZIONE

Per attacchi e prolunghe vedere sezione A - attrezzature modulari

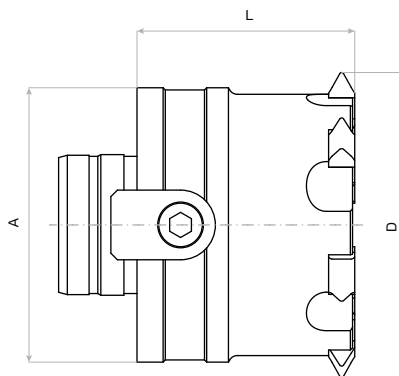
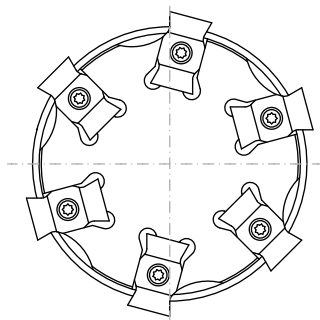
ATTENTION

For basic holders and extensions see section A - modular equipment.

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Complete list of spare parts at section I - spare parts.
For inserts see section H - inserts.



FIAX

fresse a filettare multi inserto | multi insert toolholders

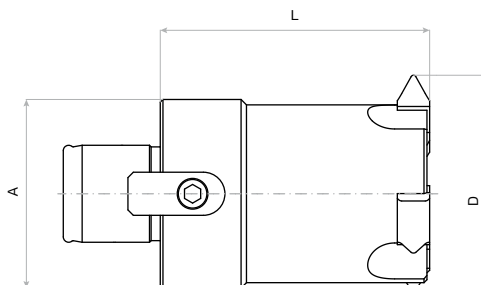
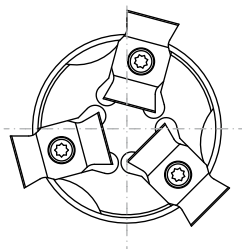
	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	A	L	Z					
FIAX55G25	55	50	40	5	G2	RFV0090	RMH0001	-	RFE0011
FIAX70G36	70	63	50	6	G3	RFV0091	RMH0002	-	RFE0014

ATTENZIONE

Per attacchi e prolunghe vedere sezione A - attrezzature modulari

ATTENTION

For basic holders and extensions see section A - modular equipment.



FIAX

fresse a filettare multi inserto | multi insert toolholders

	DIMENSIONI - DIMENSIONS				INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	A	L	Z					
FIAX22G12	22	18	30	2	G1	RFV0162	RMH0012	-	RFE0010
FIAX34G23	34	28	40	3	G2	RFV0090	RMH0013	-	RFE0011
FIAX44G24	44	35	50	4	G2	RFV0090	RMH0013	-	RFE0011

ATTENZIONE

Per attacchi e prolunghe vedere sezione A - attrezzature modulari

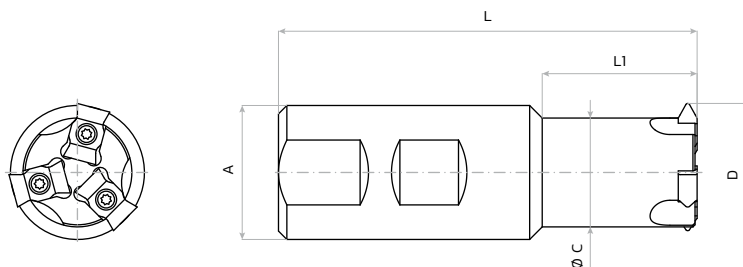
ATTENTION

For basic holders and extensions see section A - modular equipment.

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

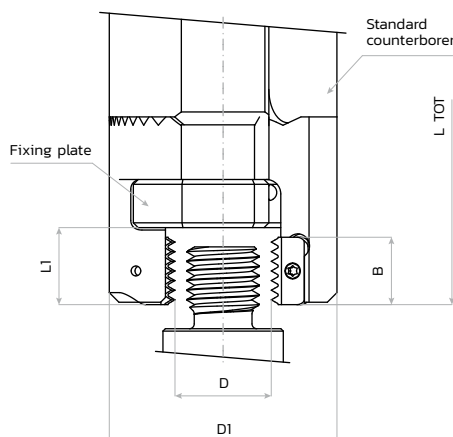
Complete list of spare parts at section I - spare parts.
For inserts see section H - inserts.



FIAC

fresse a filettare multi inserto | multi insert toolholders

	DIMENSIONI - DIMENSIONS						INSERT	PARTI DI RICAMBIO - SPARE PARTS			ACCESSORIES
	D	A	ØC	L	L1	Z					
FIAC20G12	20	20	15	113	60	2	G1	RFV0162	-	-	RFE0010
FIAC33G23	33	32	26	160	96	3	G2	RFV0090	-	-	RFE0011
FIAC40G33	40	40	29	196	120	3	G3	RFV0091	-	-	RFE0014



AMCATM

cartucce per allargatori AMAL | cartridges for AMAL boring tool

Le cartucce vengono sempre fornite in coppia - Pair supplied

	DIMENSIONI - DIMENSIONS						INSERT 	COUNTERBORE	SPARE PARTS 	ACCESSORIES 
	D		D1		L1	L TOT				
	min	max	min	max						
AMCATM142034	20	34	48	62	16	120	14	AMALM635171	RFV0164	RFE0010
AMCATM213252	32	52	60	80	25	128	21	AMALM636491	RFV0167	RFE0014
AMCATM305077	50	77	78	105	34	140	30	AMALM8083124	RFV0168	RFE0007

Queste cartucce vengono montate su allargatori standard AMAL (vedi sezione A-modulare, pag A 26-27)

These cartridges are installed on our AML (see section A-modular equipment, pg A 26-27)

NOTE

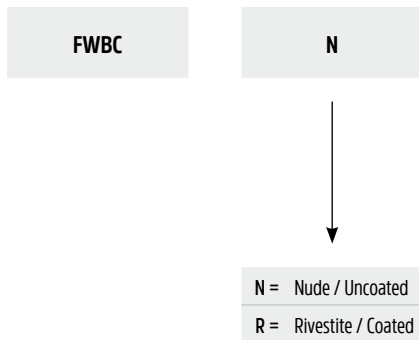
Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Complete list of spare parts at section I - spare parts.
For inserts see section H - inserts.

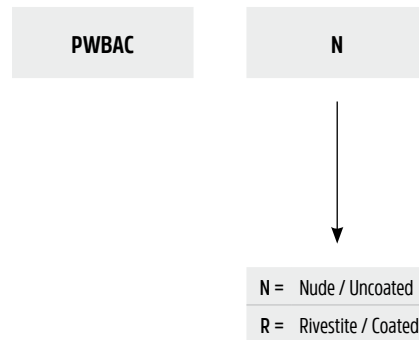
FRESE IN MATELLO DURO PER ESCUZIONE FILETTI | TUNGSTEN CARBIDE THREADING MILLS

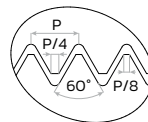
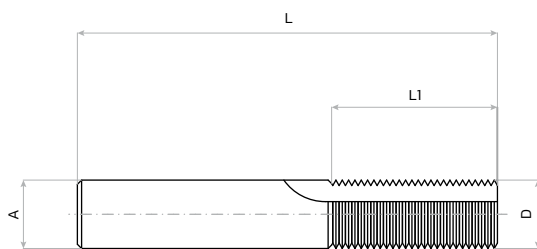
IDENTIFICAZIONE FRESE INTEGRALI | MILL-THREAD SOLID CARBIDE

frese a filettare cilindriche | Cylindric thread mills



frese fora-filetta | Mill-thread solid carbides





FWBC

fresse a filettare in metallo duro | mill-thread solid carbide

NUDA - UNCOATED HP25*	RIVESTITA - COATED HP2551**	PASSO PITCH mm	DIMENSIONI - DIMENSIONS					FILETTO THREAD
			D	A	L1	L	Z	
FWBCN0049	FWBCR0028	1.00	6	6	15	50	3	MF8
FWBCN0050	FWBCR0029	1.25	6	6	15	50	3	M8-M9-M10
FWBCN0051	FWBCR0030	0.75	8	8	20	60	3	MF10-MF12
FWBCN0052	FWBCR0031	1.00	8	8	20	60	3	MF10-MF12
FWBCN0053	FWBCR0032	1.25	8	8	20	60	3	MF10
FWBCN0054	FWBCR0033	1.50	8	8	20	60	3	M10-M11-MF12
FWBCN0055	FWBCR0034	1.75	8	8	20	60	3	M12
FWBCN0056	FWBCR0035	1.00	10	10	25	70	4	MF12
FWBCN0057	FWBCR0036	1.25	10	10	25	70	4	MF14
FWBCN0058	FWBCR0037	1.50	10	10	25	70	4	MF14
FWBCN0059	FWBCR0038	2.00	10	10	25	70	4	M14
FWBCN0060	FWBCR0039	1.00	12	12	30	75	4	MF14
FWBCN0061	FWBCR0040	1.50	12	12	30	75	4	MF16
FWBCN0062	FWBCR0041	2.00	12	12	30	75	4	M16
FWBCN0063	FWBCR0042	1.00	14	14	35	85	4	MF16
FWBCN0064	FWBCR0043	1.50	14	14	35	85	4	MF18
FWBCN0065	FWBCR0044	2.00	14	14	35	85	4	MF18
FWBCN0066	FWBCR0045	2.50	14	14	35	85	4	M18
FWBCN0068	FWBCR0047	1.50	16	16	40	100	5	MF20-MF22
FWBCN0069	FWBCR0048	2.00	16	16	40	100	5	MF20-MF22
FWBCN0070	FWBCR0049	2.50	16	16	40	100	5	M20-M22

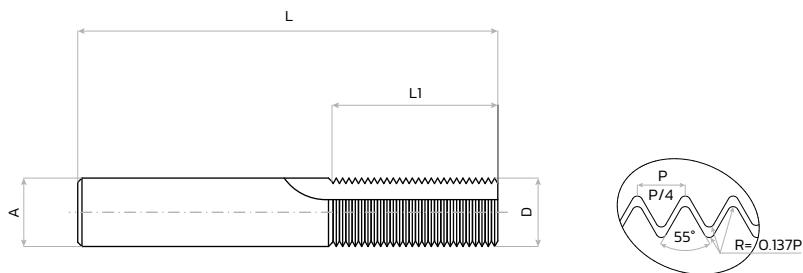
* pronta - ready on stock

** consegna 4/5 gg - delivery 4/5 days

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Complete list of spare parts at section I - spare parts.



WITH COOLANT

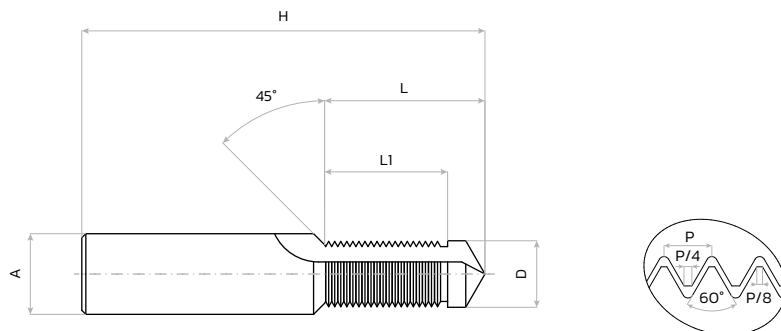
FWBC

fresa a filettare in metallo duro | mill-thread solid carbide

NUDA - UNCOATED HP25*	RIVESTITA - COATED HP2551**	PASSO PITCH TPI	DIMENSIONI - DIMENSIONS					FILETTO THREAD
			D	A	L1	L	Z	
FWBCN0071	FWBCR0050	28	8	8	20	60	3	1/8"
FWBCN0072	FWBCR0051	19	10	10	25	70	4	1/4"
FWBCN0073	FWBCR0052	19	14	14	35	85	4	3/8"
FWBCN0074	FWBCR0053	14	16	16	40	100	5	1/2"

* pronta - ready on stock

** consegna 4/5 gg - delivery 4/5 days



WITH COOLANT

PWBAC

fresa fora e filetta in metallo duro | mill-thread solid carbide

NUDA - UNCOATED HP25*	RIVESTITA - COATED HP2551**	PASSO PITCH mm	DIMENSIONI - DIMENSIONS					FILETTO THREAD
			D	A	L1	L	H	
PWBACN0002	PWBACR0002	0.80	4,2	6	9,55	11,80	55	M5
PWBACN0003	PWBACR0003	1.00	5	8	12,05	14,60	62	M6
PWBACN0004	PWBACR0004	1.25	6,8	10	15,07	18,30	74	M8
PWBACN0005	PWBACR0005	1.50	8,5	12	19,58	23,60	85	M10
PWBACN0006	PWBACR0006	1.75	10,3	14	22,85	27,50	89	M12

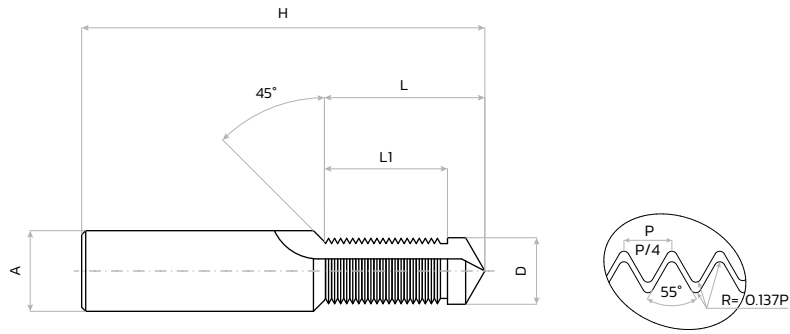
* pronta - ready on stock

** consegna 4/5 gg - delivery 4/5 days

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Complete list of spare parts at section I - spare parts.



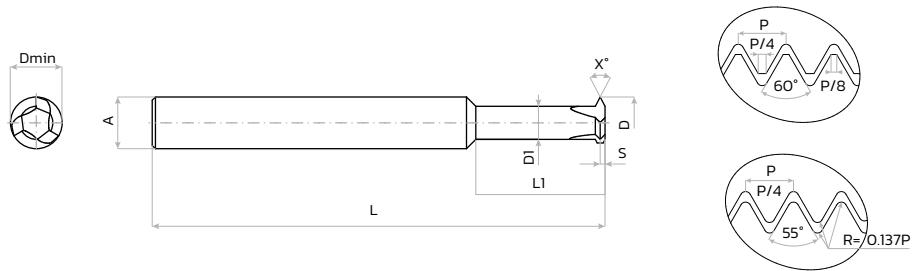
PWBAC

frese fora e filetta in metallo duro | mill-thread solid carbide

NUDA - UNCOATED HP25*	RIVESTITA - COATED HP2551**	PASSO PITCH TPI	DIMENSIONI - DIMENSIONS					FILETTO THREAD
			D	A	L1	L	H	
PWBACN0007	PWBACR0007	28	8,8	12	18,98	22,40	79	1/8"
PWBACN0008	PWBACR0008	19	11,8	16	25,30	29,30	102	1/4"
PWBACN0009	PWBACR0009	19	15,3	18	37,40	42,70	102	3/8"

* pronta - ready on stock

** consegna 4/5 gg - delivery 4/5 days



FWBCR

frese a filettare in metallo duro | mill-thread solid carbide

RIVESTITA - COATED HP2551	PASSO PITCH mm	DIMENSIONI - DIMENSIONS							
		X	D	A	D1	S	L1	L	Dmin
FWBCR0054	0,5-1,5	60°	5,8	6	3,5	1	15,20	58	6
FWBCR0055	1,0-2,0	60°	7,8	8	5	1	25,40	68	8
	TPI								
FWBCR0056	28	55°	6,8	8	5,5	1	15,20	58	7
FWBCR0057	14-19	55°	9,0	10	6,5	1	25,40	68	9,5

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Complete list of spare parts at section I - spare parts.

FRESE SPECIALI
SPECIAL MILLS

FRV23806

2-5 PROGRAMMI SCARICHI E SEI 1° OM
PER FRE SINTER 5 ASSI

ASSOCIARE CON FRV23806

marcote SRFV23806 Sx

Q. N.°	Q. N.°	Q. N.°	Q. N.°	Q. N.°	Q. N.°
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
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1. **nome** SFRN213806 Sx
 2. **SPRINT** 8x15
 3. **VITE INNESTO** 5513 620-26000000 35
 4. **INNESTO SPIN** 12000-000 35
 5. **INNESTO INNESTO** 35
 6. **DESCRIZIONE** 35
 7. **PREZZO** 35
 8. **RICCO** 35
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FRESE A FISSAGGIO MECCANICO

INDEXABLE MILLS



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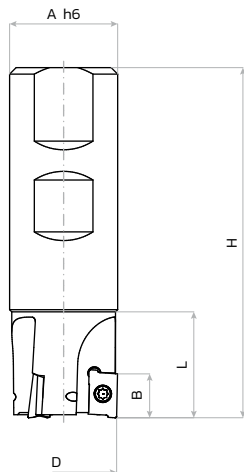
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APFF

Prolunghe per porta frese fissi
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FISC

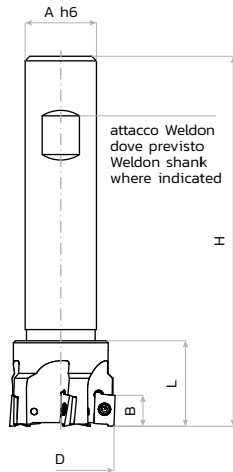
fresse per spallamento attacco cilindrico | shoulder milling cutters parallel shank

	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	L	H	n° denti n° teeth					
FISC0062	10	16	10	24	80	1	AP..1003	RFV0089	-	RFE0010	-
FISC0072	12	16	10	24	80	1	AP..1003	RFV0089	-	RFE0010	-
FISC0093	14	16	10	24	80	1	AP..1003	RFV0089	-	RFE0010	-
FISC0058	16	16	10	25	85	2	AP..1003	RFV0089	-	RFE0010	-
FISC0377	17	16	10	25	85	2	AP..1003	RFV0089	-	RFE0010	-
FISC0065	20	20	10	25	90	3	AP..1003	RFV0089	-	RFE0010	-
FISC0087	22	20	10	25	90	3	AP..1003	RFV0089	-	RFE0010	-
FISC0378	24	25	10	25	95	3	AP..1003	RFV0089	-	RFE0010	-
FISC0059	25	25	10	25	95	3	AP..1003	RFV0089	-	RFE0010	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

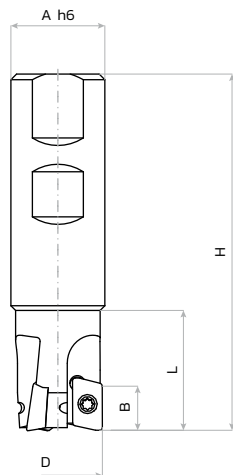
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FISC

frese per spallamento attacco cilindrico | shoulder milling cutters parallel shank

	DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	attacco shank	D	A	B	L	H	n° denti n° teeth					
FISC0013	Weldon	16	16	10	24	150	2	AP..1003	RFV0089	-	RFE0010	-
FISC0066	Weldon	20	20	10	25	150	3	AP..1003	RFV0089	-	RFE0010	-
FISC0061	Weldon	25	20	10	25	150	4	AP..1003	RFV0089	-	RFE0010	-
FISC0379	cilindrico / parallel	16	15	10	24	200	2	AP..1003	RFV0089	-	RFE0010	-
FISC0380	cilindrico / parallel	20	19	10	25	200	3	AP..1003	RFV0089	-	RFE0010	-
FISC0381	cilindrico / parallel	25	24	10	25	200	3	AP..1003	RFV0089	-	RFE0010	-



FISC

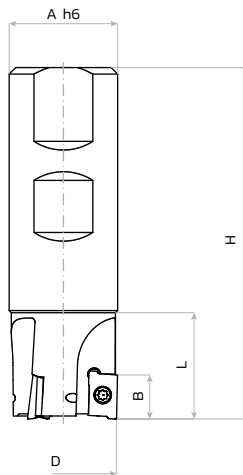
frese per spallamento attacco cilindrico | shoulder milling cutters parallel shank

	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	L	H	n° denti n° teeth					
FISC0384	25	25	15	44	100	2	AD..1505	RUV0103	-	RFE0014	-
FISC0385	32	32	15	50	110	3	AD..1505	RUV0103	-	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FISC

frese per spallamento attacco cilindrico | shoulder milling cutters parallel shank

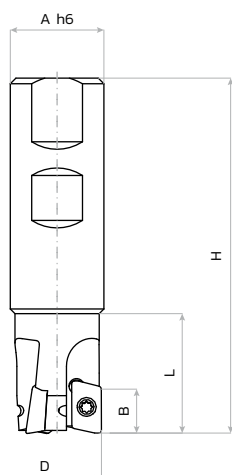
	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	L	H	n° denti n° teeth					
FISC0448	16	16	11	24	85	2	AP..12T3	RFV0162	-	RFE0010	-
FISC0449	17	16	11	-	85	2	AP..12T3	RFV0162	-	RFE0010	-
FISC0450	18	16	11	-	85	2	AP..12T3	RFV0162	-	RFE0010	-
FISC0451	19	16	11	-	85	2	AP..12T3	RFV0162	-	RFE0010	-
FISC0452	20	20	11	24	90	3	AP..12T3	RFV0162	-	RFE0010	-
FISC0453	21	20	11	-	90	3	AP..12T3	RFV0162	-	RFE0010	-
FISC0454	22	20	11	-	90	3	AP..12T3	RFV0162	-	RFE0010	-
FISC0455	23	20	11	-	90	3	AP..12T3	RFV0162	-	RFE0010	-
FISC0456	24	25	11	24	95	3	AP..12T3	RFV0162	-	RFE0010	-
FISC0457	25	25	11	24	95	3	AP..12T3	RFV0162	-	RFE0010	-
FISC0507	32	25	11	44	100	4	AP..12T3	RFV0162	-	RFE0010	-
FISC0458*	16	15	11	-	150	2	AP..12T3	RFV0162	-	RFE0010	-
FISC0459*	20	19	11	-	150	3	AP..12T3	RFV0162	-	RFE0010	-
FISC0460*	25	20	11	-	150	3	AP..12T3	RFV0162	-	RFE0010	-

* gambo cilindrico - parallel shank

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

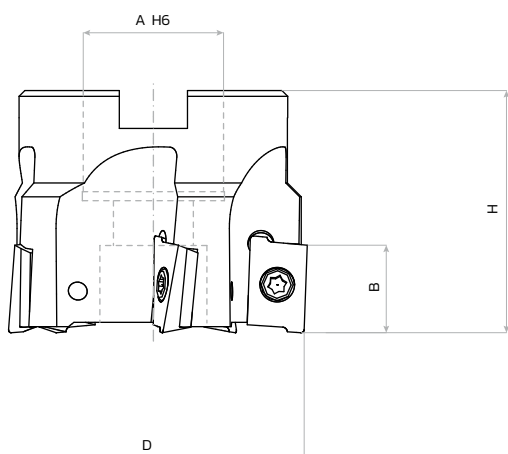
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FISC

frese per spallamento attacco cilindrico | shoulder milling cutters parallel shank

	DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	attacco shank	D	A	B	L	H	n° denti n° teeth					
FISC0057	Weldon	25	25	16	44	100	2	AP..1604	RUV0103	-	RFE0014	-
FISC0382	Weldon	28	25	16	44	100	3	AP..1604	RUV0103	-	RFE0014	-
FISC0071	Weldon	32	32	16	50	110	3	AP..1604	RUV0103	-	RFE0014	-
FISC0089	cilindrico / parallel	25	20	16	60	180	2	AP..1604	RUV0103	-	RFE0014	-
FISC0383	cilindrico / parallel	32	25	16	60	180	3	AP..1604	RUV0103	-	RFE0014	-



FISM

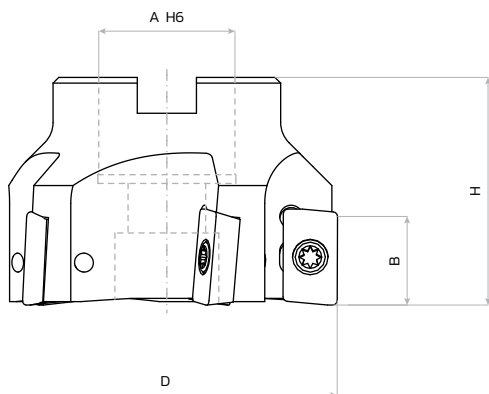
frese per spallamento attacco a manicotto | shoulder face milling cutters

	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	L	H	n° denti n° teeth					
FISM0204	40	16	11	-	40	5	AP..12T3	RFV0162	-	RFE0010	-
FISM0205	50	22	11	-	40	6	AP..12T3	RFV0162	-	RFE0010	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

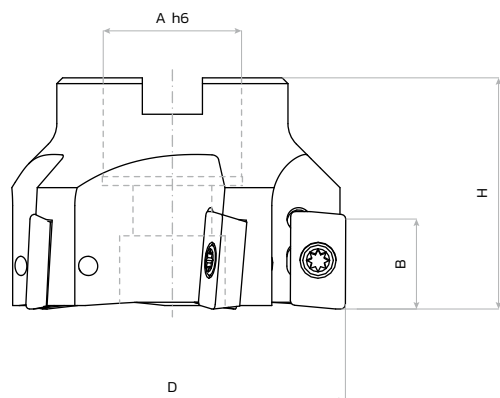
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FISM

frese per spallamento attacco a manicotto | shoulder face milling cutters

	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	H	n° denti n° teeth					
FISM0092	40	16	15	45	4	AD..1505	RUV0103	-	RFE0014	-
FISM0047	50	22	15	40	5	AD..1505	RUV0103	-	RFE0014	-
FISM0050	63	22	15	40	6	AD..1505	RUV0103	-	RFE0014	-
FISM0072	80	27	15	50	7	AD..1505	RUV0103	-	RFE0014	-



WITH COOLANT

FISM

frese per spallamento attacco a manicotto | shoulder face milling cutters

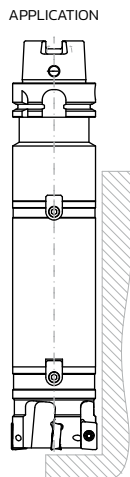
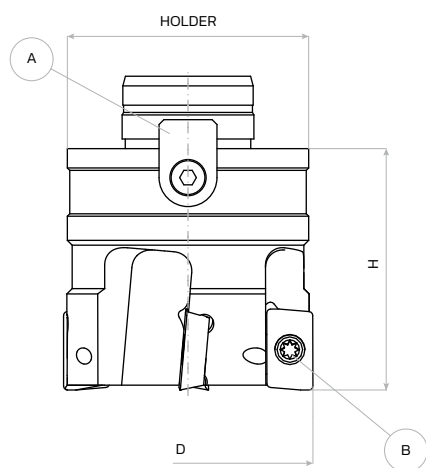
	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	H	n° denti n° teeth					
FISM0054	40	16	16	40	4	AP..1604	RUV0103	-	RFE0014	-
FISM0024	50	22	16	40	5	AP..1604	RUV0103	-	RFE0014	-
FISM0011	63	22	16	40	5	AP..1604	RUV0103	-	RFE0014	-
FISM0032	80	27	16	50	6	AP..1604	RUV0103	-	RFE0014	-
FISM0021	100	32	16	50	7	AP..1604	RUV0103	-	RFE0014	-
FISM0138*	125	40	16	63	8	AP..1604	RUV0103	-	RFE0014	-
FISM0139*	160	40	16	63	10	AP..1604	RUV0103	-	RFE0014	-

* Senza refrigerazione interna - Without coolant supply

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

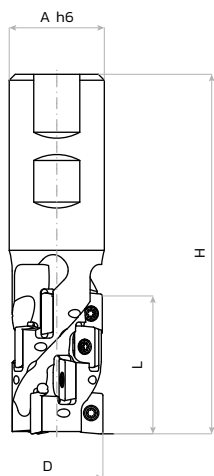


FISX

frese per spallamento attacco modulare | shoulder milling cutters modular shank

	DIMENSIONI - DIMENSIONS				INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	attacco shank	D	H	n° denti n° teeth		A	B		
FISX0001	50	52	50	4	AP.1604	RMH0001	RUV0103	RFE0014	-
FISX0002	63	65	60	5	AP.1604	RMH0002	RUV0103	RFE0014	-
FISX0003	80	82	60	6	AP.1604	RMH0003	RUV0103	RFE0014	-

Per attacchi e prolunghe vedere sezione A - attrezzature modulari.
Holders and extensions on section A - modular equipment.



FIRC

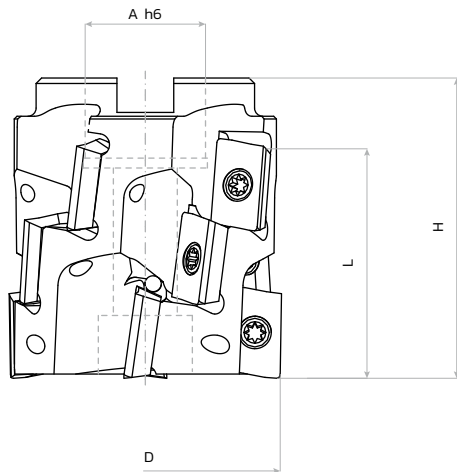
frese a riccio per spallamento attacco cilindrico | roughing milling cutters parallel shank

	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	L	H	n° denti n° teeth	n° inserti n° inserts					
FIRC0009	25	25	36	100	2	8	AP.1003	RFV0089	-	RFE0010	-
FIRC0006	32	32	45	120	3	15	AP.1003	RFV0089	-	RFE0010	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIRM

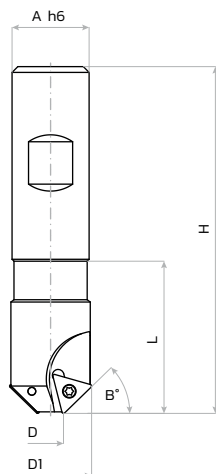
frese a riccio per spallamento attacco a manicotto | roughing face milling cutters

	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	L	H	n° denti n° teeth	n° inserti n° inserts					
FIRM0016	50	27	30	55	4	8	AP..1604	RUV0103	-	RFE0014	-
FIRM0017	50	27	44	70	3	9	AP..1604	RUV0103	-	RFE0014	-
FIRM0018	63	27	30	55	4	8	AP..1604	RUV0103	-	RFE0014	-
FIRM0008	63	27	44	60	4	12	AP..1604	RUV0103	-	RFE0014	-
FIRM0019	63	27	30	55	5	10	AP..1604	RUV0103	-	RFE0014	-
FIRM0020	80	32	30	55	4	8	AP..1604	RUV0103	-	RFE0014	-
FIRM0021	80	32	44	60	5	15	AP..1604	RUV0103	-	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIBC

frese per smussi e svasature attacco cilindrico | chamfering milling cutters parallel shank

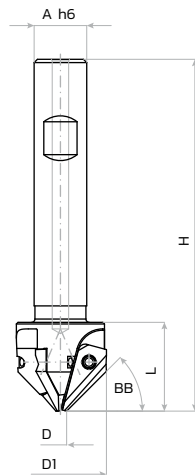
	DIMENSIONI - DIMENSIONS							INSERTS	SPARE PARTS		ACCESSORIES	
	D	D1	A	B°	L	H	n° denti n° teeth					
FIBC0033	6	32	20	30	39	95	2	TC..16T3	RUV0103	-	RFE0014	-
FIBC0009	1.8	15.5	12	45	20	70	1	TC..1102	RFV0089	-	RFE0010	-
FIBC0015	6	20.5	20	45	35	90	2	TC..1102	RFV0089	-	RFE0010	-
FIBC0047	0	20	20	45	45	95	1	TCMX 16T3	RUV0103	-	RFE0014	-
FIBC0012*	10.4	32.5	25	45	39	95	2	TC..16T3	RUV0103	-	RFE0014	-
FIBC0010	5.4	16	12	60	20	70	1	TC..1102	RFV0089	-	RFE0010	-
FIBC0017	15.8	26	20	60	35	90	2	TC..1102	RFV0089	-	RFE0010	-
FIBC0021*	20	35	25	60	39	95	2	TC..16T3	RUV0103	-	RFE0014	-

*con fori lubrificante - with coolant holes

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



NEW

FIBC

fresse per smussi e svasature attacco cilindrico | chamfering milling cutters parallel shank

	DIMENSIONI - DIMENSIONS							INSERTS	SPARE PARTS		ACCESSORIES	
	D	D1	A	B°	L	H	n° denti n° teeth					
FIBC0073	4.2	28	13 con piani	45	27	77	3	XPHT 17T3	RFV0090	-	RFE0011	-
FIBC0074	4.2	28	16	45	27	77	3	XPHT 17T3	RFV0090	-	RFE0011	-
FIBC0075	16.2	40	20	45	27	107	3	XPHT 17T3	RFV0090	-	RFE0011	-
FIBC0076	8	25	16	60	30	110	3	XPHT 17T3	RFV0090	-	RFE0011	-
FIBC0077	4.2	33	16	30	27	107	3	XPHT 17T3	RFV0090	-	RFE0011	-

ARTICOLO

	XPHT 17T3ZTR				
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MATERIALI | MATERIALS

 **P-M rivestito** per acciaio-acciaio inox
P-M coated for steel-stainless steel

 **P-K rivestito** per ghisa e acciai duri
P-K coated for cast iron - hard steel

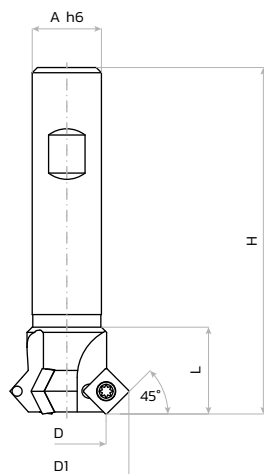
 **N nudo** per alluminio e materiali non ferrosi
N uncoated for aluminum-non ferrous materials

 **M-S rivestito** per acciaio inox - leghe resistenti al calore
M-S coated for stainless steel - High-temperature alloys

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Specifications of spare parts in section I - spare parts.

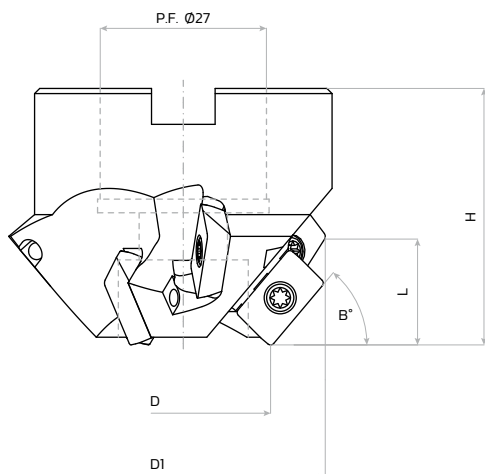
Per i parametri di lavoro sezione H - pag 11 | For working parameters section H - p. 11



FIBC

frese per smussi e svasature attacco cilindrico | chamfering milling cutters parallel shank

	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS			ACCESSORI - ACCESSORIES	
	D	D1	A	L	H	n° denti n° teeth						
FIBC0011	12	23.7	20	25	100	1	SC..09T3	RUV0103	-		RFE0014	-
FIBC0019	16	28.8	20	35	100	2	SC..09T3	RUV0103	-		RFE0014	-
FIBC0016	30	42.3	25	35	100	3	SC..09T3	RUV0103	-		RFE0014	-
FIBC0020	12	23.7	20	25	200	1	SC..09T3	RUV0103	-		RFE0014	-
FIBC0013	16	28.8	20	42	200	2	SC..09T3	RUV0103	-		RFE0014	-
FIBC0014	30	42.3	25	40	200	3	SC..09T3	RUV0103	-		RFE0014	-



FIX

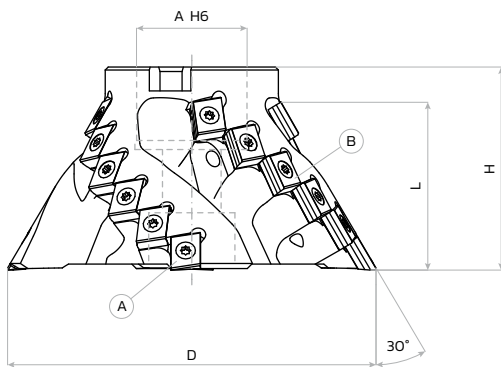
frese per smussi attacco a manicotto | face chamfering cutters

	DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS			ACCESSORI - ACCESSORIES	
	D	D1	B°	L	H	n° denti n° teeth	n° inserti n° inserts						
FIX0096	35	94	15	8	50	3	6	AP..1604	RUV0103	-		RFE0014	-
FIX0102	35	87	30	15	50	3	6	AP..1604	RUV0103	-		RFE0014	-
FIX0093	35	78	45	21.5	50	3	6	AP..1604	RUV0103	-		RFE0014	-
FIX0099	35	65	60	26.5	50	3	6	AP..1604	RUV0103	-		RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIX

frese a coda di rondine attacco a manicotto | 60° profile face mills for heavy roughing operation

	DIMENSIONI - DIMENSIONS						INSERTI - INSERTS		SPARE PARTS		ACCESSORIES	
	A	D	H	L	n° Inserti n° inserts	Z	A 	B 	A 	B 		
FIX0124	27	80	42	28	4 A + 8 B	4	CNEX 1205	CNEU 1205	RUV0037	RUV0268	RFE0014	-
FIX0125	32	100	52	35	4 A + 12 B	4	CNEX 1205	CNEU 1205	RUV0037	RUV0268	RFE0014	-
FIX0126	32	125	68	55	4 A + 20 B	4	CNEX 1205	CNEU 1205	RUV0037	RUV0268	RFE0014	-

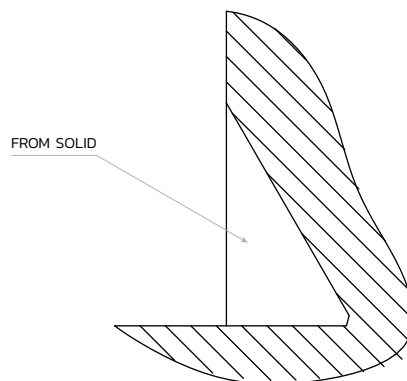
CONSIGLI DI UTILIZZO

Utilizzare per asportazioni con lavorazione in concordanza, possibilmente con pezzi e macchine utensili molto rigidi.

MILLING SUGGESTIONS

For a best performance we recommend to use a very stable machine, up milling and full width of cut.

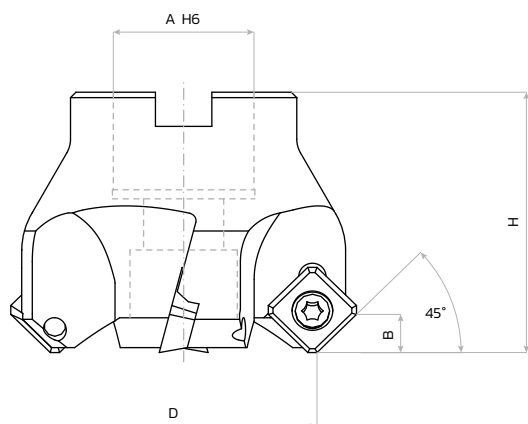
TIN (ACCIAIO)	TIALN (GHISA)
A = IFNXR0008	IFNXR0007
B = IFNCR0008	IFNCR0009



NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

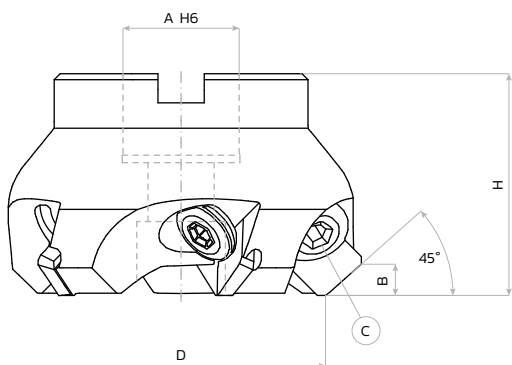
Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIBM

frese per spianatura 45° attacco a manicotto | face milling cutters 45°

	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	H	n° denti n° teeth					
FIBM0038	40	16	6	40	3	SE..1204	RUV0003	-	RFE0015	-
FIBM0031	50	22	6	48	4	SE..1204	RUV0003	-	RFE0015	-
FIBM0032	63	22	6	48	5	SE..1204	RUV0003	-	RFE0015	-
FIBM0030	80	27	6	50	6	SE..1204	RUV0003	-	RFE0015	-
FIBM0036	100	32	6	55	6	SE..1204	RUV0003	-	RFE0015	-
FIBM0040	125	40	6	63	7	SE..1204	RUV0003	-	RFE0015	-



FIBM

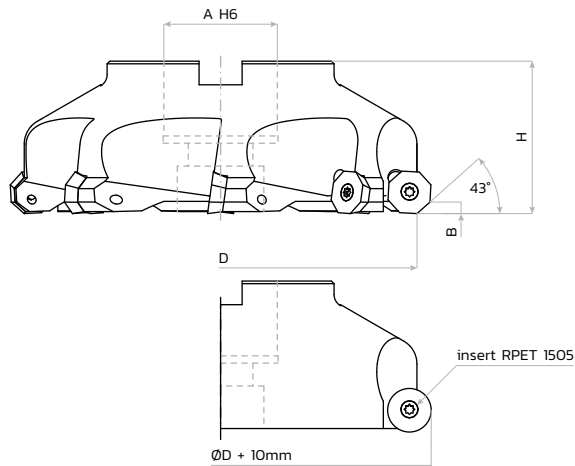
frese per spianatura 45° attacco a manicotto | face milling cutters 45°

	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORIES	
	D	A	B	H	n° denti n° teeth					
FIBM0003	50	22	6	48	4	SEK..1203	RFV0254		CAXCB0046	
FIBM0024	63	22	6	48	5	SEK..1203	RFV0254		CAXCB0046	
FIBM0015	80	27	6	50	6	SEK..1203	RFV0254		CAXCB0046	
FIBM0082	100	32	6	50	6	SEK..1203	RFV0254		CAXCB0046	

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIBM

frese per spianatura 43° attacco a manicotto | face milling cutters 43°

	DIMENSIONI - DIMENSIONS					INSERT		SPARE PARTS		ACCESSORIES	
	D	A	B	H	n° denti n° teeth						
FIBM0108	50	22	4.5	40	4	OD..0605	RPET..1505**	RUV0226	-	RFE0007	-
FIBM0109	63	22	4.5	40	5	OD..0605	RPET..1505**	RUV0226	-	RFE0007	-
FIBM0110	80	27	4.5	50	5	OD..0605	RPET..1505**	RUV0226	-	RFE0007	-
FIBM0111	100	32	4.5	50	6	OD..0605	RPET..1505**	RUV0226	-	RFE0007	-
FIBM0112*	125	40	4.5	63	7	OD..0605	RPET..1505**	RUV0226	-	RFE0007	-
FIBM0113*	160	40	4.5	63	9	OD..0605	RPET..1505**	RUV0226	-	RFE0007	-

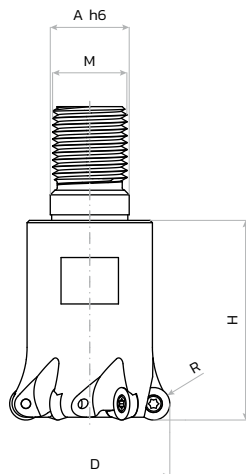
* Senza refrigerazione interna - Without coolant supply

** Con inserto RPET il diametro D aumenta di 10 mm - Using insert RPET the diameter D increases of +10mm

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIHF

frese per copiatura attacco filettato | threaded type milling cutters threaded shank

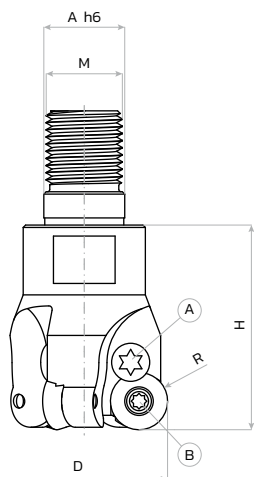
	DIMENSIONI - DIMENSIONS						INSERT		SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	M	R	H	n° denti n° teeth						
FIHF0007	16	8.5	8	3.5	23	2	RD..0702	-	RFV0089	-	RFE0010	-
FIHF0008	20	10.5	10	3.5	30	3	RD..0702	-	RFV0089	-	RFE0010	-
FIHF0009	20	10.5	10	5	30	2	RD..1003	-	RFV0091	-	RFE0014	-
FIHF0010	25	12.5	12	5	35	3	RD..1003	-	RFV0091	-	RFE0014	-
FIHF0011	32	17	16	5	43	4	RD..1003	-	RFV0091	-	RFE0014	-

Attacchi a pg. F 25 / For extension adaptors see pg. F 25

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



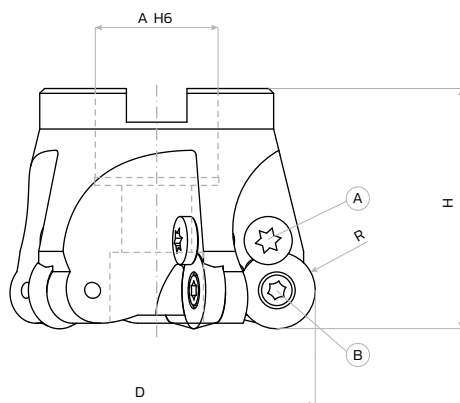
FIHF

frese per copiatura attacco filettato | threaded type milling cutters threaded shank

	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	M	R	H	n° denti n° teeth		A	B		
FIHF0012*	24	10.5	12	6	35	2	RD..12T3	RFV0139	RFV0091	RFE0014	-
FIHF0014	32	17	16	6	43	3	RD..12T3	RFV0139	RFV0091	RFE0014	-
FIHF0013	35	17	16	6	43	3	RD..12T3	RFV0139	RFV0091	RFE0014	-

* Fornita senza vite - Staffa RFV 0139 - Screw-bracket RFV0139 not supplied

Attacchi a pg. F 25 / For extension adaptors see pg. F 25



FIHM

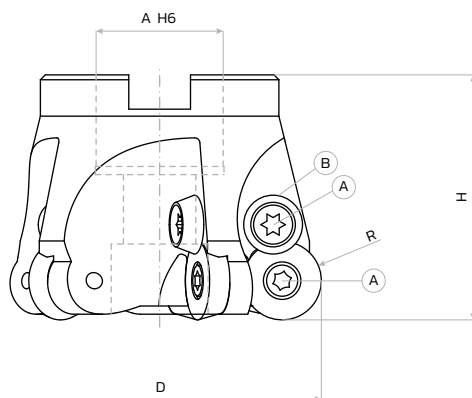
frese per spianatura torica attacco a manicotto | toric face milling cutters

	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORIES	
	D	A	R	H	n° denti n° teeth		A	B		
FIHM0123	40	16	6	40	4	RD..12T3	RFV0139	RFV0091	RFE0014	-
FIHM0124	52	22	6	50	5	RD..12T3	RFV0139	RFV0091	RFE0014	-
FIHM0125	66	27	6	50	6	RD..12T3	RFV0139	RFV0091	RFE0014	-
FIHM0126	80	27	6	50	7	RD..12T3	RFV0139	RFV0091	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIHM

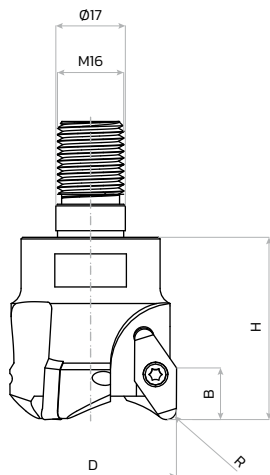
frese per spianatura torica attacco a manicotto | toric face milling cutters

	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORIES	
	D	A	R	H	n° denti n° teeth		A	B		
FIHM0119	52	22	8	50	4	RD..1604	RFV0141	RFR0005	RFE0015	-
FIHM0120	66	22	8	50	5	RD..1604	RFV0141	RFR0005	RFE0015	-
FIHM0121	80	27	8	50	6	RD..1604	RFV0141	RFR0005	RFE0015	-
FIHM0122	100	32	8	55	7	RD..1604	RFV0141	RFR0005	RFE0015	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

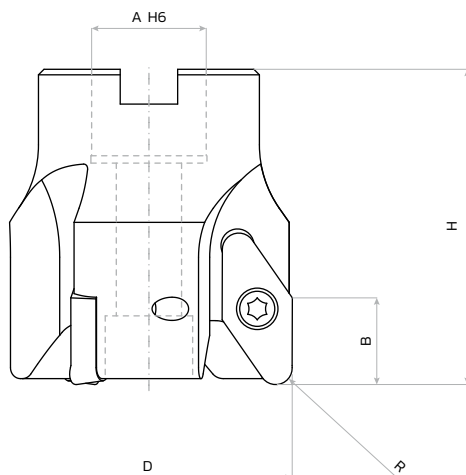


FISF

frese per alluminio attacco filettato | milling cutters for aluminum threaded shank

	DIMENSIONI - DIMENSIONS				INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	B	H	n° denti n° teeth					
FISF0014	32	15	48	2	VCGT2205	RFV0141	-	RFE0015	-
FISF0015	42	15	48	3	VCGT2205	RFV0141	-	RFE0015	-

Attacchi a pg. F 25 / For extension adaptors see pg. F 25



FISM

frese per alluminio attacco a manicotto | face milling cutters for aluminum

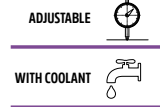
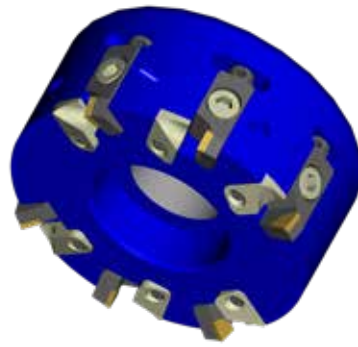
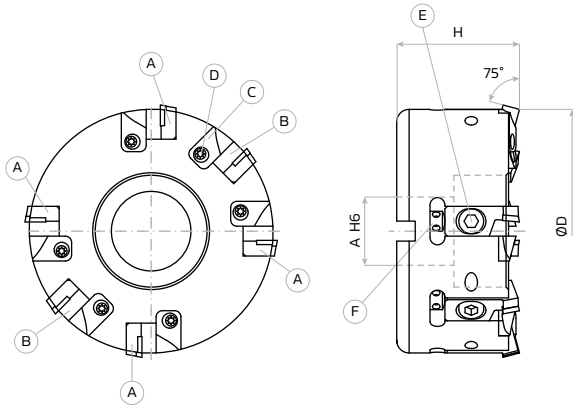
	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	H	n° denti n° teeth					
FISM0140	42	16	15	57	3	VCGT2205	RFV0141	-	RFE0015	-
FISM0108	52	22	15	57	3	VCGT2205	RFV0141	-	RFE0015	-
FISM0141	66	27	15	57	4	VCGT2205	RFV0141	-	RFE0015	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

MATERIALE A RICHIESTA - MATERIAL ON REQUEST



FSAV

frese a spianare attacco a manicotto | PCD super-finishing high feed face milling cutters

Frese per spianatura ad ALTO AVANZAMENTO, a cartucce con diamante in policristallino per lavorazioni di leghe leggere
HIGH FEED face milling cutters, PCD cartridges for processing aluminum

	DIMENSIONI - DIMENSIONS				CARTUCCE - CARTRIDGES				PARTI DI RICAMBIO - SPARE PARTS				ACCESSORIES
	A H	D	H	n° Z	N°	A	N°	B	C	D	E	F	
FSAV0001	22	50	50	4	4	RFC0017	-	-	COM24160	RFV0090	RAV0094	RUV0202	RFE0011
FSAV0002	22	63	50	4	4	RFC0017	-	-	COM24160	RFV0090	RAV0094	RUV0202	RFE0011
FSAV0003	27	80	54	5	5	RFC0017	-	-	COM24160	RFV0090	RAV0094	RUV0202	RFE0011
FSAV0004	32	100	54	4 + 2	4	RFC0017	2	RFC0018**	COM24160	RFV0090	RAV0094	RUV0202	RFE0011
FSAV0005*	40	125	54	6 + 2	6	RFC0017	2	RFC0018**	COM24160	RFV0090	RAV0094	RUV0202	RFE0011

* Passo differenziato - Differential pitch

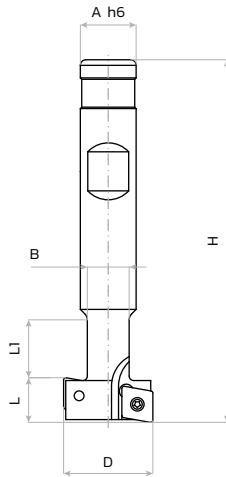
** Cartuccia raschiante RFC. - Finishing cartridge RFC.

A richiesta cartucce per spallamento a 90° - On request 90° shoulder cartridges

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FITC

frese a "T" attacco cilindrico | T-slot milling cutters

Per scanalature UNI 4788 - For grooves UNI 4788

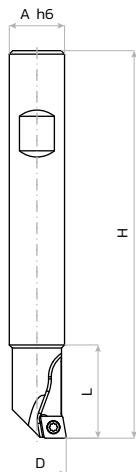
	DIMENSIONI - DIMENSIONS							INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	A	B	H	L	L1	Z effettivo actual Z					
FITC0027	12.5	10	5.5	60	6	8	1 + 1	MP..0402 - R/L*	RUV0005	-	RFE0009	-
FITC0028	16	10	7.5	65	8	11	1 + 1	CPMT 05T104	RUV0082	-	RFE0009	-
FITC0029	18	12	9.5	75	8	13.5	2 + 2	CPMT 05T104	RUV0082	-	RFE0009	-

* Su questo diametro usare 1 inserto destro + 1 inserto sinistro - on this diameter use 1 right + 1 left inserts

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIX

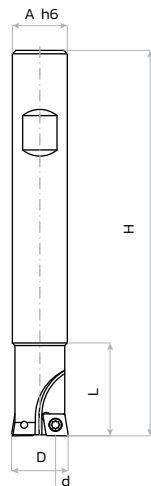
frese per prealesare | pre-reaming boring mills

	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	L	H	A	n°denti Z n° teeth Z					
FIX0181	9,8	23	90	8	1	CC..0602	RFV0089	-	RFE0010	-
FIX0182	11,8	25	105	10	1	CC..0602	RFV0089	-	RFE0010	-
FIX0183	13,8	27	110	12	1	CC..0602	RFV0089	-	RFE0010	-
FIX0184	14,8	28	120	12	1	CC..0602	RFV0089	-	RFE0010	-
FIX0185	15,8	29	125	12	1	CC..0602	RFV0089	-	RFE0010	-
FIX0139	17,8	31	140	16	1	CC..0602	RFV0089	-	RFE0010	-
FIX0186	19,8	33	150	16	1	CC..0602	RFV0089	-	RFE0010	-
FIX0187	21,8	35	160	20	1	CC..09T3	RUV0037	-	RFE0014	-
FIX0188	23,8	37	170	20	1	CC..09T3	RUV0037	-	RFE0014	-
FIX0141	24,8	38	180	20	1	CC..09T3	RUV0037	-	RFE0014	-
FIX0189	25,8	39	185	20	1	CC..09T3	RUV0037	-	RFE0014	-
FIX0158	27,8	40	190	20	1	CC..09T3	RUV0037	-	RFE0014	-
FIX0190	29,8	43	200	25	1	CC..09T3	RUV0037	-	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



FIX

frese per lamature | spot facing milling cutters

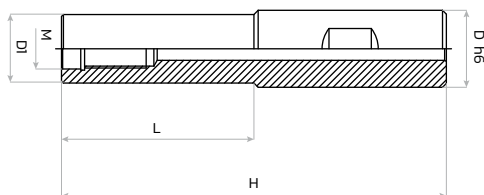
	DIMENSIONI - DIMENSIONS						INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	d	L	H	A	n°denti Z n° teeth Z					
FIX0170	15	4	30	85	12	1	CC..0602	RFV0089	-	RFE0010	-
FIX0173	16	5	30	92	12	2	CC..0602	RFV0089	-	RFE0010	-
FIX0115	17	6	32	94	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0174	17,5	6,5	40	96	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0154	18	7	41	97	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0106	19	8	41	100	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0172	20	9	41	102	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0175	21	10	41	105	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0169	22	11	41	110	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0176	23	12	41	112	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0177	24	13	41	115	16	2	CC..0602	RFV0089	-	RFE0010	-
FIX0164	25	8	40	120	16	2	CC..09T3	RUV0037	-	RFE0014	-
FIX0155	26	9	55	125	20	2	CC..09T3	RUV0037	-	RFE0014	-
FIX0159	27	10	55	128	20	2	CC..09T3	RUV0037	-	RFE0014	-
FIX0178	28	11	55	130	20	2	CC..09T3	RUV0037	-	RFE0014	-
FIX0179	29	12	55	132	20	2	CC..09T3	RUV0037	-	RFE0014	-
FIX0180	30	13	55	134	20	2	CC..09T3	RUV0037	-	RFE0014	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
Per inserti vedi sezione H - inserti.

Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.

NEW



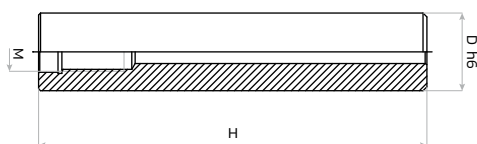
WITH COOLANT

APFM

prolunghe in acciaio con lubrificazione interna per frese FICF - FISF - FIHF e testine AMVA - UIPBFI |
tungsten carbide extension adaptor with internal coolant for FICF-FISF-FIFH indexable mill and AMVA-UIPBFI heads

	DIMENSIONI - DIMENSIONS					INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	M	L	H	D1					
APFMD20M675	20	M6	25	75	10	-	-	-	-	-
APFMD20M6125	20	M6	75	125	10	-	-	-	-	-
APFMD20M875	20	M8	25	75	13	-	-	-	-	-
APFMD20M8125	20	M8	75	125	13	-	-	-	-	-
APFMD20M10100	20	M10	50	100	18	-	-	-	-	-
APFMD20M10160	20	M10	100	160	17,8	-	-	-	-	-
APFMD25M12131	25	M12	70	131	21	-	-	-	-	-
APFMD25M12160	25	M12	100	160	20,8	-	-	-	-	-

NEW



VIBRATION DAMPENING

WITH COOLANT

APFG

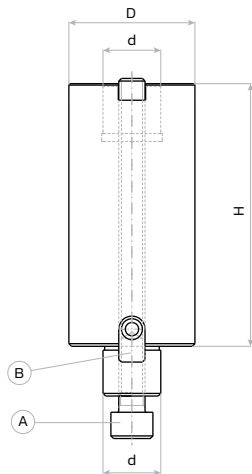
prolunghe in metallo duro con lubrificazione interna per frese FICF - FISF - FIHF e testine AMVA - UIPBFI |
extension adaptors with internal coolant for FICF - FISF - FIFH indexable mill and AMVA - UIPBFI heads

	DIMENSIONI - DIMENSIONS				INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D	M	L	H					
APFG0064	9	M5	-	100	-	-	-	-	-
APFG0065	9	M5	-	150	-	-	-	-	-
APFG0022	11	M6	-	150	-	-	-	-	-
APFG0020	12	M6	-	150	-	-	-	-	-
APFG0021	15	M8	-	150	-	-	-	-	-
APFG0023	16	M8	-	150	-	-	-	-	-
APFG0017	19	M10	-	150	-	-	-	-	-
APFG0018	20	M10	-	150	-	-	-	-	-
APFG0024	25	M12	-	200	-	-	-	-	-
APFG0025	32	M16	-	250	-	-	-	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.
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Specifications of spare parts in section I - spare parts.
For inserts see section H - inserts.



NEW

DIN6357



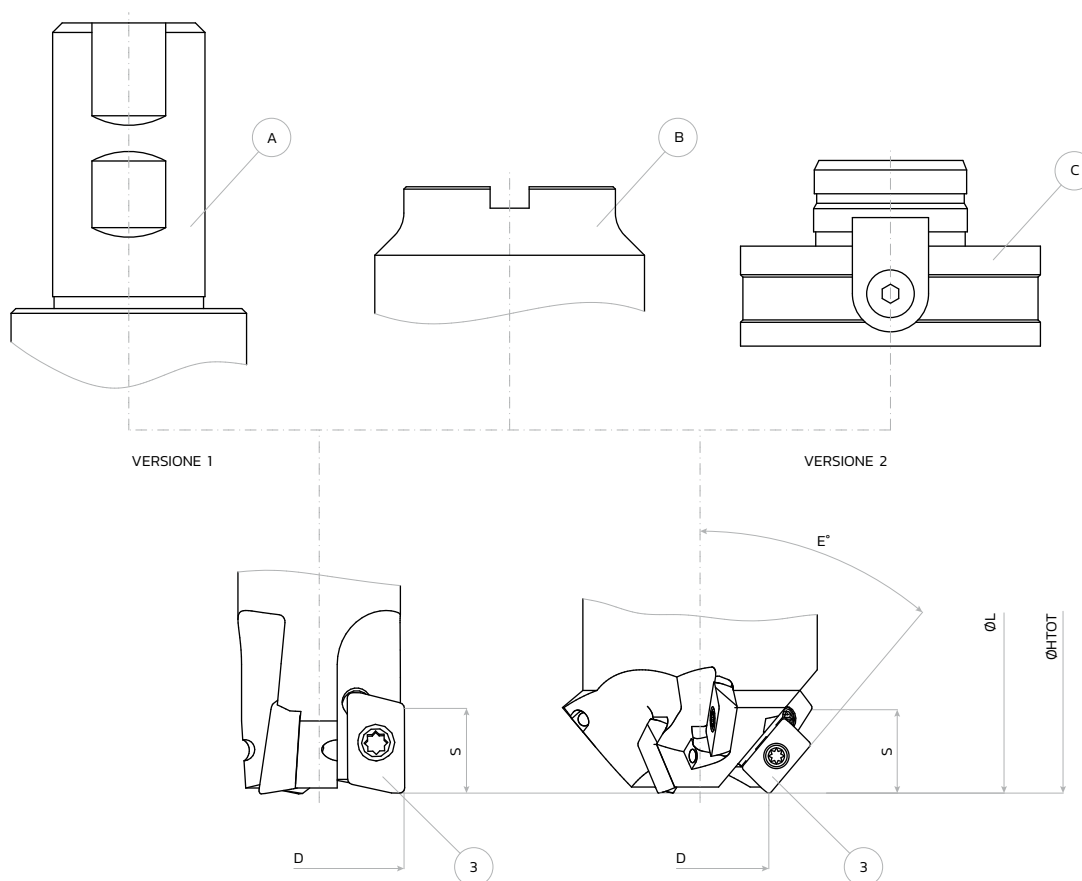
APFF

Prolunghe per porta frese fissi | Face mill extensions

	DIMENSIONI - DIMENSIONS			INSERT	SPARE PARTS		ACCESSORI - ACCESSORIES	
	D1	H	D		A 	B 		
APFF0005	16	30	38	-	RAV0132	RMH0037	-	-
APFF0006	16	100	38	-	RAV0133	RMH0037	-	-
APFF0003	22	30	48	-	RAV0134	RMH0004	-	-
APFF0002	22	100	48	-	RAV0135	RMH0004	-	-
APFF0007	27	35	58	-	RAV0136	RMH0001	-	-
APFF0004	27	100	58	-	RAV0137	RMH0001	-	-
APFF0008	32	40	64	-	RAV0138	RMH0006	-	-
APFF0009	32	100	64		RAV0139	RMH0006		
APFF0010	40	45	80		RAV0140	RMH0002		
APFF0011	40	120	80		RAV0141	RMH0002		

UTENSILI SPECIALI A RICHIESTA | SPECIAL TOOLS ON REQUEST

ATTACCO HOLDER			VERSIONE TYPE		DIMENSIONE ATTACCO HOLDER DIMENSION	D	S	E°	L	H TOT	INSERTO INSERT	N° DENTI TEETH #	Q.TÀ Q.TY
A	B	C	1	2									
A	B	C	1	2									
A	B	C	1	2									
A	B	C	1	2									
A	B	C	1	2									





UTENSILI IN METALLO DURO INTEGRALE

HARD METAL TOOLS



INDICE

INDEX

FRESE AD ALTE PERFORMANCE MULTIMATERIALE MULTIPURPOSE HIGH PERFORMANCE END MILLS

		Z	Ø mm	P	M	K	N	S	H	O	PAG
	4MF	Fresa 4 taglienti elica e passo differenziato rivestita M1 Coating 4 Flute End Mill with unequal flute spacing M1 Coating	4	3 ÷ 20	●	●	○	○			G 8
	3XF	Fresa 3 taglienti elica e passo differenziato Rivestita M1 Coating 3 Flute End Mill with unequal flute spacing M1 Coating	3	3 ÷ 20	●	●	○	○			G 9

FRESE PER IMPIEGHI SU PIÙ MATERIALI MULTIPURPOSE END MILLS

		Z	Ø mm	P	M	K	N	S	H	O	PAG
	F202	Fresa 2 taglienti rivestita MARS 2 flute end mill MARS Coating	2	2 ÷ 12	●	●	○	○			G 10
	F216	Fresa 4 taglienti rivestita MARS 4 Flute End Mill MARS Coating	4	4 ÷ 20	●	●	○	○			G 12
	F516	Fresa 4 taglienti rivestita MARS Passaggio Lubrificante 4 Flute End Mill MARS Coating Internal Cooling	4	6 ÷ 20	●	●	○	○			G 13
	F237	Fresa 4 taglienti a sgrossare passo fine rivestita MARS Passaggio Lubrificante Roughing 4 Flute End Mill MARS Coating Internal Cooling	4	6 ÷ 20	●	●	○	○			G 14
	F208	Fresa 2 taglienti Semisferica rivestita MARS BallNose 2 Flute End Mill MARS Coating	2	3 ÷ 20	●	●	○	○			G 15
	F241	Fresa 3 taglienti Raggio concavo rivestita MARS 3 Flute End Mill Concave Radius MARS Coating	3	4 ÷ 6	●	●	○	○	○	○	G 16
	KIT F241	Kit Fresa 3 taglienti Raggio concavo rivestita MARS Kit 3 Flute End Mill Concave Radius MARS Coating	3	4 ÷ 6	●	●	○	○	○	○	G 17
	F236	Fresa 4 taglienti Torica rivestita MARS Torus 4 Flute End Mill MARS Coating	4	6 ÷ 20	●	●	○	○	○	○	G 18
	F242	Fresa per smussi rivestita MARS Chamfering End Mill MARS Coating	4	4 ÷ 16	●	●	○	○			G 19
	F243	Fresa per smussi 90° rivestita MARS Chamfering End Mill MARS Coating 90°	4	4 ÷ 20	●	●	○	○	○	○	G 20
	F249	Fresa per smussi 60° rivestita MARS Chamfering End Mill MARS Coating 60°	4	4 ÷ 20	●	●	○	○	○	○	G 20

FRESE PER LEGHE LEGGERE E MATERIE PLASTICHE LIGHT ALLOYES AND PLASTIC END MILLS			Z	Ø mm	P	M	K	N	S	H	O	PAG
	F372	Fresa 2 taglienti Lappata Lapped 2 Flute End Mill	2	3 ÷ 20				●			○	G 21
	F352	Fresa 2 taglienti Lappata passaggio refrigerante Lapped 2 Flute End Mill internal cooling	2	3 ÷ 20				●			○	G 21
	F373	Fresa 3 taglienti Lappata Lapped 3 Flute End Mill	3	8 ÷ 20				●			○	G 23
	F101	Fresa 1 tagliente Elica Dx Rotazione Dx Single Flute End Mill Right Helix Right Cut	1	1 ÷ 16				●			○	G 24
	F100	Fresa 1 tagliente Elica Sx Rotazione Dx Single Flute End Mill Left Helix Right Cut	1	1 ÷ 16				●			○	G 26
	F156	Fresa 1 tagliente Elica Dx Rotazione Dx Single Flute End Mill Right Helix Right Cut	1	2 ÷ 10				○			●	G 27
	F155	Fresa 1 tagliente Elica Sx Rotazione Dx Single Flute End Mill Left Helix Right Cut	1	2 ÷ 10				○			●	G 28

TABELLA GENERALE CLASSIFICAZIONE MATERIALI

	SOTTO GRUPPO	INDICE	COMPOSIZIONE STRUTTURA TRATTAMENTO TERMICO		RESISTENZA N/mm ² * / HB / HRC	SIGLA	DENOMINAZIONE	SIGLA	DENOMINAZIONE
P	Acciaio non legato	P.1.1	< 0,15 % C	ricotto	420 N/mm2 / 125 HB	1.0401	C15	1.1141	Ck15
		P.1.2	< 0,45 % C	ricotto	640 N/mm2 / 190 HB	1.1191	C45E	1.0718	9SMnPb28
		P.1.3		bonificato	840 N/mm2 / 250 HB	1.1191	C45E	1.0535	C55
		P.1.4	< 0,75 % C	ricotto	910 N/mm2 / 270 HB	1.1223	C60R	1.0535	C55
		P.1.5		bonificato	1010 N/mm2 / 300 HB	1.1223	C60R	1.0727	45S20
	Acciaio a basso legante	P.2.1		ricotto	610 N/mm2 / 180 HB	1.7131	16MnCr5	1.6587	17CrNiMo6
		P.2.2		bonificato	930 N/mm2 / 275 HB	1.7131	16MnCr5	1.6587	17CrNiMo6
		P.2.3		bonificato	1010 N/mm2 / 300 HB	1.7225	42CrMo4	1.3505	100Cr6
		P.2.4		bonificato	1200 N/mm2 / 375 HB	1.7225	42CrMo4	1.3505	100Cr6
	Acciaio ad alto legante e Acciaio per utensili	P.3.1		ricotto	680 N/mm2 / 200 HB	1.4021	X20Cr13	1.4034	X46Cr13
		P.3.2		temprato e rinvenuto	1100 N/mm2 / 300 HB	1.2343	X38CrMoV5-1	1.4034	X46Cr13
		P.3.3		temprato e rinvenuto	1300 N/mm2 / 400 HB	1.2343	X38CrMoV5-1	1.4034	X46Cr13
	Acciaio resistente alla corrosione	P.4.1	perlitico / martensitico	ricotto	680 N/mm2 / 200 HB	1.4016	X6Cr17	1.2316	X36CrMo16
		P.4.2	martensitico	bonificato	1010 N/mm2 / 300 HB	1.4112	X90CrMoV18	1.2316	X36CrMo16
M	Acciaio resistente alla corrosione	M.1.1	austenitico, austenitico / ferritico	temprato	610 N/mm2 / 180 HB	1.4301	X5CrNi18-10	1.4571	X6CrNiMoTi17-12-2
		M.2.1	austenitico	bonificato	300 HB	1.4841	X15CrNiSi25-21	1.4539	X1NiCrMoCu25-20-5
		M.3.1	austenitico / ferritico (duplex)		780 N/mm2 / 230 HB	1.4462	X2CrNiMoN22-5-3	1.4501	X2CrNiMoCuWN25-7-4
K	Ghisa grigia	K.1.1	perlitico / ferritico		350 N/mm2 / 180 HB	0.6010	GG-10	0.6025	GG-25
		K.1.2	perlitico (martensitico)		500 N/mm2 / 260 HB	0.6030	GG-30	0.6045	GG-45
	Ghisa grigia sferoidale	K.2.1	ferritico		540 N/mm2 / 160 HB	0.7040	GGG-40	0.7060	GGG-60
		K.2.2	perlitico		845 N/mm2 / 250 HB	0.7070	GGG-70	0.7080	GGG-80
	Ghisa temprata	K.3.1	ferritico		440 N/mm2 / 130 HB	0.8035	GTW-35-04	0.8045	GTW-45
		K.3.2	perlitico		780 N/mm2 / 230 HB	0.8165	GTS-65-02	0.8170	GTS-70-02
N	Leghe di alluminio estruso	N.1.1	non invecchiabile		60 HB	3.0255	Al99,5	3.3315	AlMg1
		N.1.2	invecchiabile	invecchiato	340 N/mm2 / 100 HB	3.1355	AlCuMg2	3.2315	AlMgSi1
	Leghe di alluminio fuso	N.2.1	≤ 12 % Si, non invecchiabile		250 N/mm2 / 75 HB	3.2581	G-AlSi12	3.2163	G-AlSi9Cu3
		N.2.2	≤ 12 % Si, invecchiabile	invecchiato	300 N/mm2 / 90 HB	3.2134	G-AlSi5Cu1Mg	3.2373	G-AlSi9Mg
		N.2.3	> 12 % Si, non invecchiabile		440 N/mm2 / 130 HB		G-AlSi17Cu4Mg		G-AlSi18CuNiMg
	Rame e leghe di rame (bronzo, ottone)	N.3.1	leghe automatiche, PB > 1 %		375 N/mm2 / 110 HB	2.0380	CuZn39Pb2 (Ms58)	2.0410	CuZn44Pb2
		N.3.2	CuZn, CuSnZn		300 N/mm2 / 90 HB	2.0331	CuZn15	2.4070	CuZn28Sn1As
		N.3.3	CuSn, rame senza piombo e rame elettrolitico		340 N/mm2 / 100 HB	2.0060	E-Cu57	2.0590	CuZn40Fe
	Leghe di magnesio	N.4.1	magnesio e leghe di magnesio		70 HB	3.5612	MgAl6Zn	3.5312	MgAl3Zn

TABELLA GENERALE CLASSIFICAZIONE MATERIALI

	SOTTO GRUPPO	INDICE	COMPOSIZIONE STRUTTURA TRATTAMENTO TERMICO		RESISTENZA N/mm ² * / HB / HRC	SIGLA	DENOMINAZIONE	SIGLA	DENOMINAZIONE
S	Leghe resistenti al calore	S.1.1	base Fe	ricotto	680 N/mm2 / 200 HB	1.4864	X12NiCrSi 36-16	1.4865	G-X40NiCrSi38-18
		S.1.2		invecchiato	950 N/mm2 / 280 HB	1.4980	X6NiCrTiMoVB25-15-2	1.4876	X10NiCrAlTi32-20
		S.2.1	base Ni oppure Co	ricotto	840 N/mm2 / 250 HB	2.4631	NiCr20TiAl (Nimonic80A)	3.4856	NiCr22Mo9Nb
		S.2.2		invecchiato	1180 N/mm2 / 350 HB	2.4668	NiCr19Nb5Mo3 (Inconel 718)	2.4955	NiFe25Cr20NbTi
		S.2.3		colato	1080 N/mm2 / 320 HB	2.4765	CoCr20W15Ni	1.3401	G-X120Mn12
	Leghe di titanio	S.3.1	titanio puro		400 N/mm2	3.7025	Ti99,8	3.7034	Ti99,7
		S.3.2	leghe alfa e beta	invecchiato	1050 N/mm2 / 320 HB	3.7165	TiAl6V4	Ti-6246	Ti-6Al-2Sn-4Zr-6Mo
		S.3.3	leghe beta		1400 N/mm2 / 410 HB	Ti555.3	Ti-5Al-5V-5Mo-3Cr	R56410	Ti-10V-2Fe-3Al
H	Acciaio temprato Ghisa bianca	H.1.1	temprato e rinvenuto		46-55 HRC				
		H.1.2	temprato e rinvenuto		56-60 HRC				
		H.1.3	temprato e rinvenuto		61-65 HRC				
		H.1.4	temprato e rinvenuto		66-70 HRC				
	Ghisa temprata	H.2.1	colato		400 HB				
		H.3.1	temprato e rinvenuto		55 HRC				
O	Materiali non metallici	0.1.1	materie plastiche, materiali termoindurenti		≤ 150 N/mm2				
		0.1.2	materie plastiche, materiali termoplastici		≤ 100 N/mm2				
		0.2.1	materie plastiche rinforzate con fibra di ammide		≤ 1000 N/mm2				
		0.2.2	materie plastiche rinforzate con fibra di vetro o carbonio		≤ 1000 N/mm2				
		0.3.1	grafite						

MATERIAL EXAMPLES FOR CUTTING DATA TABLES

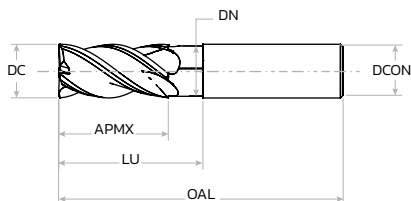
	SUB-GROUP	INDEX	COMPOSITION	STRUCTURE	HEAT TREATMENT	TENSILE STRENGTH N/mm ² / HB / HRC	N°	DESIGNATION	N°	DESIGNATION
P	Unalloyed steel	P.1.1	< 0,15 % C		Annealed	420 N/mm ² / 125 HB	1.0401	C15	1.1141	Ck15
		P.1.2	< 0,45 % C		Annealed	640 N/mm ² / 190 HB	1.1191	C45E	1.0718	9SMnPb28
		P.1.3			Tempered	840 N/mm ² / 250 HB	1.1191	C45E	1.0535	C55
		P.1.4	< 0,75 % C		Annealed	910 N/mm ² / 270 HB	1.1223	C60R	1.0535	C55
		P.1.5			Tempered	1010 N/mm ² / 300 HB	1.1223	C60R	1.0727	45S20
	Low-alloy steel	P.2.1			Annealed	610 N/mm ² / 180 HB	1.7131	16MnCr5	1.6587	17CrNiMo6
		P.2.2			Tempered	930 N/mm ² / 275 HB	1.7131	16MnCr5	1.6587	17CrNiMo6
		P.2.3			Tempered	1010 N/mm ² / 300 HB	1.7225	42CrMo4	1.3505	100Cr6
		P.2.4			Tempered	1200 N/mm ² / 375 HB	1.7225	42CrMo4	1.3505	100Cr6
	High-alloy steel and high-alloy tool steel	P.3.1			Annealed	680 N/mm ² / 200 HB	1.4021	X20Cr13	1.4034	X46Cr13
		P.3.2			Hardened and tempered	1100 N/mm ² / 300 HB	1.2343	X38CrMoV5-1	1.4034	X46Cr13
		P.3.3			Hardened and tempered	1300 N/mm ² / 400 HB	1.2343	X38CrMoV5-1	1.4034	X46Cr13
	Stainless steel	P.4.1	Ferritic / martensitic		Annealed	680 N/mm ² / 200 HB	1.4016	X6Cr17	1.2316	X36CrMo16
		P.4.2	Martensitic		Tempered	1010 N/mm ² / 300 HB	1.4112	X90CrMoV18	1.2316	X36CrMo16
M	Stainless steel	M.1.1	Austenitic / waustenitic-ferritic		Quenched	610 N/mm ² / 180 HB	1.4301	X5CrNi18-10	1.4571	X6CrNiMoTi17-12-2
		M.2.1	Austenitic		Tempered	300 HB	1.4841	X15CrNiSi25-21	1.4539	X1NiCrMoCu25-20-5
		M.3.1	Austenitic / ferritic (Duplex)			780 N/mm ² / 230 HB	1.4462	X2CrNiMoN22-5-3	1.4501	X2CrNiMoCuWN25-7-4
K	Grey cast iron	K.1.1	Pearlitic / ferritic			350 N/mm ² / 180 HB	0.6010	GG-10	0.6025	GG-25
		K.1.2	Pearlitic (martensitic)			500 N/mm ² / 260 HB	0.6030	GG-30	0.6045	GG-45
	Spherulitic graphite cast iron	K.2.1	Ferritic			540 N/mm ² / 160 HB	0.7040	GGG-40	0.7060	GGG-60
		K.2.2	Pearlitic			845 N/mm ² / 250 HB	0.7070	GGG-70	0.7080	GGG-80
	Malleable iron	K.3.1	Ferritic			440 N/mm ² / 130 HB	0.8035	GTW-35-04	0.8045	GTW-45
		K.3.2	Pearlitic			780 N/mm ² / 230 HB	0.8165	GTS-65-02	0.8170	GTS-70-02
N	Aluminium wrought alloy	N.1.1	Non-hardenable			60 HB	3.0255	Al99,5	3.3315	AlMg1
		N.1.2	Hardenable		Age-hardened	340 N/mm ² / 100 HB	3.1355	AlCuMg2	3.2315	AlMgSi1
	Cast aluminium alloy	N.2.1	≤ 12 % Si, non-hardenable			250 N/mm ² / 75 HB	3.2581	G-AlSi12	3.2163	G-AlSi9Cu3
		N.2.2	≤ 12 % Si, hardenable		Age-hardened	300 N/mm ² / 90 HB	3.2134	G-AlSi5Cu1Mg	3.2373	G-AlSi9Mg
		N.2.3	> 12 % Si, non-hardenable			440 N/mm ² / 130 HB		G-AlSi17Cu4Mg		G-AlSi18CuNiMg
	Copper and copper alloys (bronze/brass)	N.3.1	Free-machining alloys, PB > 1 %			375 N/mm ² / 110 HB	2.0380	CuZn39Pb2 (Ms58)	2.0410	CuZn44Pb2
		N.3.2	CuZn, CuSnZn			300 N/mm ² / 90 HB	2.0331	CuZn15	2.4070	CuZn28Sn1As
		N.3.3	CuSn, lead-free copper and electrolytic copper			340 N/mm ² / 100 HB	2.0060	E-Cu57	2.0590	CuZn40Fe
	Magnesium alloys	N.4.1	Magnesium and magnesium alloys			70 HB	3.5612	MgAl6Zn	3.5312	MgAl3Zn

MATERIAL EXAMPLES FOR CUTTING DATA TABLES

	SUB-GROUP	INDEX	COMPOSITION STRUCTURE HEAT TREATMENT		TENSILE STRENGTH N/mm ² * / HB / HRC	N°	DESIGNATION	N°	DESIGNATION
S	Heat-resistant alloys	S.1.1	Fe - basis	Annealed	680 N/mm2 / 200 HB	1.4864	X12NiCrSi 36-16	1.4865	G-X40NiCrSi38-18
		S.1.2		Age-hardened	950 N/mm2 / 280 HB	1.4980	X6NiCrTiMoVB25-15-2	1.4876	X10NiCrAlTi32-20
		S.2.1	Ni or Co basis	Annealed	840 N/mm2 / 250 HB	2.4631	NiCr20TiAl (Nimonic80A)	3.4856	NiCr22Mo9Nb
		S.2.2		Age-hardened	1180 N/mm2 / 350 HB	2.4668	NiCr19Nb5Mo3 (Inconel 718)	2.4955	NiFe25Cr20NbTi
		S.2.3		Cast	1080 N/mm2 / 320 HB	2.4765	CoCr20W15Ni	1.3401	G-X120Mn12
	Titanium alloys	S.3.1	Pure titanium		400 N/mm2	3.7025	Ti99,8	3.7034	Ti99,7
		S.3.2	Alpha + beta alloys	Age-hardened	1050 N/mm2 / 320 HB	3.7165	TiAl6V4	Ti-6246	Ti-6Al-2Sn-4Zr-6Mo
		S.3.3	Beta alloys		1400 N/mm2 / 410 HB	Ti555.3	Ti-5Al-5V-5Mo-3Cr	R56410	Ti-10V-2Fe-3Al
H	Hardened steel Chilled iron	H.1.1	Hardened and tempered		46-55 HRC				
		H.1.2	Hardened and tempered		56-60 HRC				
		H.1.3	Hardened and tempered		61-65 HRC				
		H.1.4	Hardened and tempered		66-70 HRC				
		H.2.1	Cast		400 HB				
	Hardened cast iron	H.3.1	Hardened and tempered		55 HRC				
O	Non-metal materials	O.1.1	Plastics, duroplastic		≤ 150 N/mm2				
		O.1.2	Plastics, thermoplastic		≤ 100 N/mm2				
		O.2.1	Aramid fibre-reinforced		≤ 1000 N/mm2				
		O.2.2	Glass/carbon-fibre reinforced		≤ 1000 N/mm2				
		O.3.1	Graphite						

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese ad alte performance multimateriale | High Performance End Mills Multipurpose



HARD METAL	HM	HELIX/RAKE	$\theta = 38^\circ$ $\beta = 5^\circ$
FOUR CUTTING EDGES	Z4	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	ANGLE 45° CHAMFER	45°
NECK REDUCTION		UNEQUAL FLUTE SPACING	
UNEQUAL HELIX		COATING	
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		WITH COOLANT	

4MF

Fresa 4 taglienti elica e passo differenziato rivestita M1 Coating |
4 Flute End Mill with unequal flute spacing M1 Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS					
		DC mm e8	DCON mm h6	APMX mm	OAL mm	LU mm	DN mm
FWFCR.030.4MF.01	FWFCR.030.4MF.01	3	6	8	57	12	2,8
FWFCR.040.4MF.01	FWFCR.040.4MF.01	4	6	11	57	15	3,8
FWFCR.050.4MF.01	FWFCR.050.4MF.01	5	6	13	57	19	4,8
FWFCR.060.4MF.01	FWFCR.060.4MF.01	6	6	13	57	19	5,7
FWFCR.070.4MF.01	FWFCR.070.4MF.01	7	8	15	63	21	6,7
FWFCR.080.4MF.01	FWFCR.080.4MF.01	8	8	19	63	25	7,5
FWFCR.090.4MF.01	FWFCR.090.4MF.01	9	10	21	72	29	8,5
FWFCR.100.4MF.01	FWFCR.100.4MF.01	10	10	22	72	30	9,5
FWFCR.110.4MF.01	FWFCR.110.4MF.01	11	12	24	83	34	10
FWFCR.120.4MF.01	FWFCR.120.4MF.01	12	12	26	83	36	11
FWFCR.130.4MF.01	FWFCR.130.4MF.01	13	14	26	83	36	12
FWFCR.140.4MF.01	FWFCR.140.4MF.01	14	14	26	83	36	13
FWFCR.150.4MF.01	FWFCR.150.4MF.01	15	16	30	92	40	14
FWFCR.160.4MF.01	FWFCR.160.4MF.01	16	16	32	92	42	15
FWFCR.180.4MF.01	FWFCR.180.4MF.01	18	18	34	92	44	17
FWFCR.200.4MF.01	FWFCR.200.4MF.01	20	20	38	104	48	19

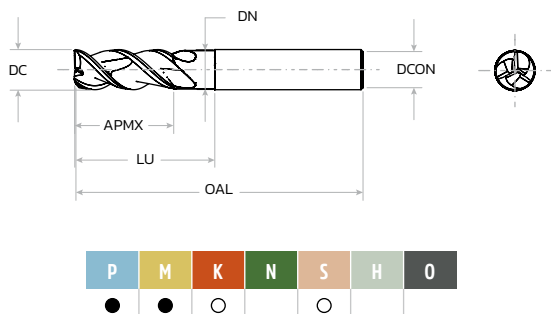
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese ad alte performance multimateriale | High Performance End Mills Multipurpose



HARD METAL	HM	HELIX/RAKE	$\alpha = 47^\circ$ $\beta = 10^\circ$
THREE CUTTING EDGES	Z3	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	ANGLE 45° CHAMFER	45°
NECK REDUCTION		COATING	MT Coat
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		WITH COOLANT	

3XF

Fresa 3 taglienti elica e passo differenziato Rivestita M1 Coating |
3 Flute End Mill with unequal flute spacing M1 Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS					
		DC mm e8	DCON mm h6	APMX mm	OAL mm	LU mm	DN mm
FWFCR.030.3XF.01	FWFCR.030.3XF.01	3	6	10	57	20	2,8
FWFCR.035.3XF.01	FWFCR.035.3XF.01	3,5	6	10	57	20	3,3
FWFCR.040.3XF.01	FWFCR.040.3XF.01	4	6	13	57	23	3,8
FWFCR.045.3XF.01	FWFCR.045.3XF.01	4,5	6	13	57	23	4,3
FWFCR.050.3XF.01	FWFCR.050.3XF.01	5	6	15	57	23	4,8
FWFCR.060.3XF.01	FWFCR.060.3XF.01	6	6	15	57	23	5,7
FWFCR.070.3XF.01	FWFCR.070.3XF.01	7	8	22	63	30	6,7
FWFCR.080.3XF.01	FWFCR.080.3XF.01	8	8	22	63	30	7,5
FWFCR.090.3XF.01	FWFCR.090.3XF.01	9	10	25	72	35	8,5
FWFCR.100.3XF.01	FWFCR.100.3XF.01	10	10	25	72	35	9,5
FWFCR.110.3XF.01	FWFCR.110.3XF.01	11	12	29	83	41	10,5
FWFCR.120.3XF.01	FWFCR.120.3XF.01	12	12	29	83	41	11,5
FWFCR.130.3XF.01	FWFCR.130.3XF.01	13	14	29	83	41	12,5
FWFCR.140.3XF.01	FWFCR.140.3XF.01	14	14	29	83	41	13,5
FWFCR.150.3XF.01	FWFCR.150.3XF.01	15	16	35	92	47	14,5
FWFCR.160.3XF.01	FWFCR.160.3XF.01	16	16	35	92	47	15,5
FWFCR.180.3XF.01	FWFCR.180.3XF.01	18	18	35	92	47	17,5
FWFCR.200.3XF.01	FWFCR.200.3XF.01	20	20	41	104	57	19,5

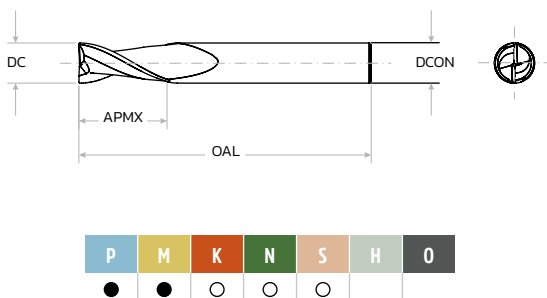
NOTE

● specifico | specific – ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\delta = 30^\circ$ $\beta = 10^\circ$
TWO CUTTING EDGES	Z2	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	ANGLE 45° CHAMFER	45°
COATING	MARS	COUNTURING	
WORKING DIRECTIONS		FULL SLOT	
		WITH COOLANT	

F202

Fresa 2 taglienti rivestita MARS | 2 flute end mill MARS Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWFCR1775	F202.02.00.003A04	2	4	3,5	50
FWFCR1793	F202.02.00.006A04	2	4	6	50
FWFCR1918	F202.02.50.004A04	2,5	4	4	50
FWFCR1919	F202.02.90.005A04	2,9	4	5	50
FWFCR1920	F202.03.00.005A04	3	4	5	50
FWFCR1921	F202.03.00.008A04	3	4	8	55
FWFCR1922	F202.03.50.005A06	3,5	6	5	50
FWFCR1923	F202.03.50.009A06	3,5	6	9	55
FWFCR1924	F202.03.90.006A06	3,9	6	6	50
FWFCR1774	F202.04.00.006A06	4	6	6	50
FWFCR1925	F202.04.00.010A06	4	6	10	55
FWFCR1926	F202.04.50.006A06	4,5	6	6	50
FWFCR1927	F202.04.50.011A06	4,5	6	11	55
FWFCR1928	F202.04.90.007A06	4,9	6	7	50
FWFCR1929	F202.04.90.012A06	4,9	6	12	55
FWFCR1930	F202.05.00.007A06	5	6	7	50
FWFCR1865	F202.05.00.012A06	5	6	12	55
FWFCR1931	F202.05.50.013A06	5,5	6	13	58
FWFCR1932	F202.05.90.008A06	5,9	6	8	50
FWFCR1753	F202.06.00.008A06	6	6	8	50
FWFCR1933	F202.06.00.014A06	6	6	14	58
FWFCR1934	F202.06.50.008A08	6,5	8	8	50
FWFCR1449	F202.06.50.015A08	6,5	8	15	64
FWFCR1935	F202.07.00.008A08	7	8	8	50
FWFCR1936	F202.07.00.016A08	7	8	16	64
FWFCR1900	F202.07.50.017A08	7,5	8	17	64
FWFCR1937	F202.07.90.008A08	7,9	8	8	50
FWFCR1879	F202.08.00.008A08	8	8	8	50
FWFCR1938	F202.08.00.018A08	8	8	18	64
FWFCR1901	F202.08.50.019A10	8,5	10	19	67

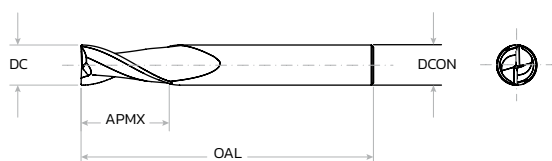
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 30^\circ$ $\beta = 10^\circ$
TWO CUTTING EDGES	Z2	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	ANGLE 45° CHAMFER	45°
COATING	MARS	COUNTURING	
WORKING DIRECTIONS		FULL SLOT	
		WITH COOLANT	

F202

Fresa 2 taglienti rivestita MARS | 2 flute end mill MARS Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWFCR1939	F202.09.00.009A10	9	10	9	55
FWFCR1905	F202.09.00.020A10	9	10	20	67
FWFCR1716	F202.09.50.021A10	9,5	10	21	73
FWFCR1940	F202.09.90.010A10	9,9	10	10	55
FWFCR1941	F202.09.90.022A10	9,9	10	22	73
FWFCR1731	F202.10.00.010A10	10	10	10	55
FWFCR1782	F202.10.00.022A10	10	10	22	73
FWFCR1711	F202.10.50.023A12	10,5	12	23	79
FWFCR1942	F202.11.00.013A12	11	12	13	74
FWFCR1943	F202.11.00.024A12	11	12	24	79
FWFCR1944	F202.11.50.013A12	11,5	12	13	74
FWFCR1904	F202.11.50.025A12	11,5	12	25	79
FWFCR1945	F202.11.90.014A12	11,9	12	14	74
FWFCR1946	F202.12.00.014A12	12	12	14	74
FWFCR1947	F202.12.00.026A12	12	12	26	79

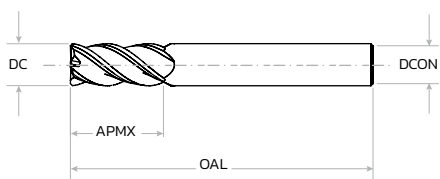
NOTE

● specifico | specific – ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\delta = 38^\circ$ $\beta = 10^\circ$
FOUR CUTTING EDGES	Z4	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	ANGLE 45° CHAMFER	45°
UNEQUAL HELIX	vario	UNEQUAL FLUTE SPACING	
COATING	MARS	COUNTURING	
WORKING DIRECTIONS		FULL SLOT	
		WITH COOLANT	

F216

Fresa 4 taglienti rivestita MARS | 4 Flute End Mill MARS Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWFCR1972	F216.04.00.006A06	4	6	6	50
FWFCR1973	F216.04.00.014A06	4	6	14	55
FWFCR1974	F216.05.00.007A06	5	6	7	50
FWFCR1975	F216.05.00.017A06	5	6	17	58
FWFCR1976	F216.06.00.008A06	6	6	8	50
FWFCR1977	F216.06.00.025A06	6	6	25	69
FWFCR1978	F216.07.00.009A08	7	8	9	50
FWFCR1980	F216.07.00.025A08	7	8	25	69
FWFCR1981	F216.08.00.010A08	8	8	10	50
FWFCR1894	F216.08.00.024A08	8	8	24	69
FWFCR1982	F216.08.00.030A08	8	8	30	79
FWFCR1984	F216.10.00.012A10	10	10	12	55
FWFCR1985	F216.10.00.036A10	10	10	36	89
FWFCR1986	F216.11.00.013A12	11	12	13	55
FWFCR1988	F216.11.00.035A12	11	12	35	86
FWFCR1989	F216.12.00.014A12	12	12	14	55
FWFCR1531	F216.12.00.032A12	12	12	32	84
FWFCR1990	F216.12.00.040A12	12	12	40	100
FWFCR1991	F216.14.00.016A14	14	14	16	60
FWFCR1992	F216.14.00.045A14	14	14	45	100
FWFCR1993	F216.16.00.018A16	16	16	18	65
FWFCR1605	F216.16.00.045A16	16	16	45	109
FWFCR1681	F216.16.00.052A16	16	16	52	109
FWFCR1995	F216.18.00.038A18	18	18	38	93
FWFCR1996	F216.18.00.056A18	18	18	56	109
FWFCR1997	F216.20.00.022A20	20	20	22	75
FWFCR1998	F216.20.00.045A20	20	20	45	105
FWFCR1912	F216.20.00.055A20	20	20	55	109
FWFCR1909	F216.20.00.065A20	20	20	65	119

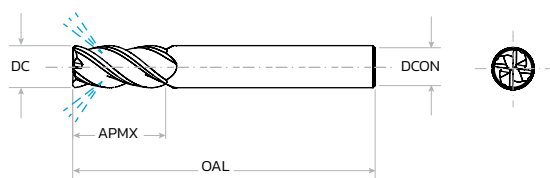
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 38^\circ$ $\beta = 10^\circ$
FOUR CUTTING EDGES	Z4	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	ANGLE 45° CHAMFER	45°
UNEQUAL HELIX		UNEQUAL FLUTE SPACING	
COATING		COUNTURING	
WORKING DIRECTIONS		FULL SLOT	
INTERNAL COOLING		WITH COOLANT	



PARAMETRI DI LAVORO
WORKING PARAMETERS

F516

Fresa 4 taglienti rivestita MARS Passaggio Lubrificante |
4 Flute End Mill MARS Coating Internal Cooling

		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWFCRL0003	F516.06.00.014A06	6	6	14	58
FWFCRL0004	F516.08.00.018A08	8	8	18	64
FWFCRL0002	F516.10.00.022A10	10	10	22	73
FWFCRL0001	F516.12.00.026A12	12	12	26	84
FWFCRL0012	F516.14.00.030A14	14	14	30	84
FWFCRL0005	F516.16.00.034A16	16	16	34	93
FWFCRL0013	F516.18.00.038A18	18	18	38	93
FWFCRL0014	F516.20.00.045A20	20	20	45	105

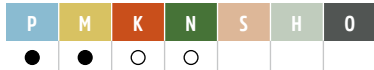
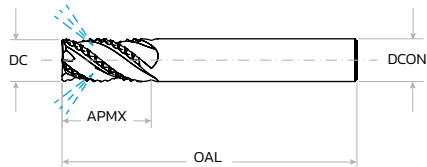
NOTE

● specifico | specific – ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\theta = 40^\circ$ $\beta = 10^\circ$
FOUR CUTTING EDGES	Z4	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	ANGLE 45° CHAMFER	45°
COATING	MARS	COUNTURING	
WORKING DIRECTIONS		FULL SLOT	
INTERNAL COOLING		WITH COOLANT	

F237

Fresa 4 taglienti a sgrassare passo fine rivestita MARS Passaggio Lubrificante |
Roughing 4 Flute End Mill MARS Coating Internal Cooling

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWSCRL0001	F237.06.00.014A06	6	6	14	58
FWSCRL0002	F237.08.00.018A08	8	8	18	64
FWSCRL0003	F237.10.00.022A10	10	10	22	73
FWSCRL0004	F237.12.00.026A12	12	12	26	84
FWSCRL0005	F237.14.00.030A14	14	14	30	84
FWSCRL0006	F237.16.00.034A16	16	16	34	93
FWSCRL0007	F237.18.00.038A18	18	18	38	93
FWSCRL0008	F237.20.00.045A20	20	20	45	105

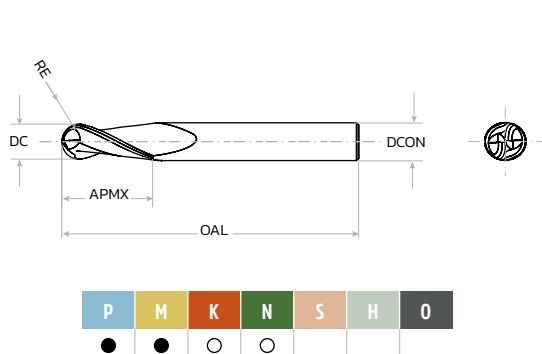
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 40^\circ$ $\beta = 10^\circ$
TWO CUTTING EDGES	Z2	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	FULL RADIUS	RE
COATING	MARS	COUNTURING	
WORKING DIRECTIONS		FULL SLOT	
		WITH COOLANT	

F208

Fresa 2 taglienti Semisferica rivestita MARS |
BallNose 2 Flute End Mill MARS Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS				
		DC mm h10	DCON mm h6	APMX mm	OAL mm	RE mm
FWRCR1261	F208.03.00.007A06	3	6	7	50	1.5
FWRCR1186	F208.04.00.010A06	4	6	10	50	2
FWRCR1262	F208.05.00.012A06	5	6	12	50	2.5
FWRCR1263	F208.06.00.014A06	6	6	14	58	3
FWRCR1264	F208.08.00.018A08	8	8	18	64	4
FWRCR1214	F208.10.00.022A10	10	10	22	73	5
FWRCR1265	F208.12.00.026A12	12	12	26	79	6
FWRCR1266	F208.14.00.030A14	14	14	30	79	7
FWRCR1267	F208.16.00.034A16	16	16	34	93	8
FWRCR1268	F208.18.00.038A18	18	18	38	93	9
FWRCR1269	F208.20.00.042A20	20	20	42	105	10

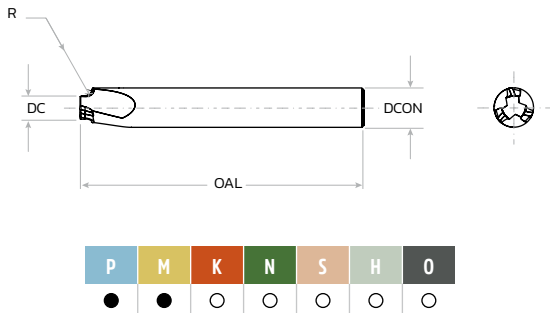
NOTE

● specifico | specific – ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 5^\circ$ $\beta = 10^\circ$
THREE CUTTING EDGES	Z3	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	CONCAVE RADIUS	RE
COATING		COUNTURING	
WORKING DIRECTION		FULL SLOT	
		WITH COOLANT	

F241

Fresa 3 taglienti Raggio concavo rivestita MARS |
3 Flute End Mill Concave Radius MARS Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC* mm h10	DCON mm h6	R mm	OAL mm
FWDCR0013	F241.03.90.002A06	4	6	0,5	58
FWDCR0004	F241.04.90.003A08	5	8	1	64
FWDCR0005	F241.05.90.003A10	6	10	1,5	67
FWDCR0006	F241.04.89.004A10	5	10	2	67
FWDCR0014	F241.05.89.004A12	6	12	2,5	74
FWDCR0012	F241.04.89.005A12	5	12	3	74
FWDCR0015	F241.05.88.005A14	6	14	3,5	75
FWDCR0016	F241.04.88.006A14	5	14	4	75
FWDCR0017	F241.04.87.007A16	5	16	5	83
FWDCR0018	F241.04.86.008A18	5	18	6	84

* DC è il diametro da cui inizia il raggio senza contare l'apertura di 5° - DC is the Radius starting point without 5° tangent angle

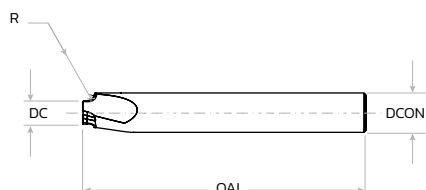
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\delta = 5^\circ$ $\beta = 10^\circ$
THREE CUTTING EDGES	Z3	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	CONCAVE RADIUS	RE
COATING	MARS	COUNTURING	
WORKING DIRECTION		FULL SLOT	
		WITH COOLANT	

F241KIT

Kit Fresa 3 taglienti Raggio concavo rivestita MARS |
Kit 3 Flute End Mill Concave Radius MARS Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



DIMENSIONI - DIMENSIONS					
	DC* mm h10	DCON mm h6	R mm	OAL mm	N° pcs
F241.04.90.003A08	5	8	1	64	1
F241.05.90.003A10	6	10	1,5	67	1
F241.04.89.004A10	5	10	2	67	1
F241.05.89.004A12	6	12	2,5	74	1
F241.04.89.005A12	5	12	3	74	1

* DC è il diametro da cui inizia il raggio senza contare l'apertura di 5° - DC is the Radius starting point without 5° tangent angle

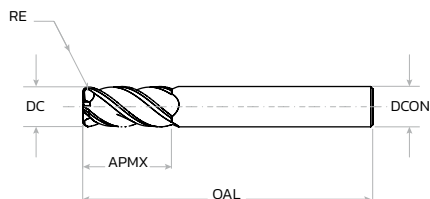
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\delta = 38^\circ$ $\beta = 10^\circ$
FOUR CUTTING EDGES	Z4	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	CORNER RADIUS	RE
UNEQUAL HELIX	vario	UNEQUAL FLUTE SPACING	
COATING	MARS	COUNTURING	
WORKING DIRECTIONS		FULL SLOT	
		WITH COOLANT	

F236

Fresa 4 taglienti Torica rivestita MARS | Torus 4 Flute End Mill MARS Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS				
		DC mm h10	DCON mm h6	APMX mm	OAL mm	RE mm
FWTCR1666	F236.06.00.014R05	6	6	14	58	0,5
FWTCR1667	F236.06.00.014R10	6	6	14	58	1,0
FWTCR1668	F236.08.00.018R05	8	8	18	64	0,5
FWTCR1669	F236.08.00.018R10	8	8	18	64	1,0
FWTCR1670	F236.10.00.022R05	10	10	22	73	0,5
FWTCR1671	F236.10.00.022R10	10	10	22	73	1,0
FWTCR1672	F236.10.00.032R20	10	10	32	79	2,0
FWTCR1673	F236.10.00.032R30	10	10	32	79	3,0
FWTCR1674	F236.12.00.026R10	12	12	26	79	1,0
FWTCR1675	F236.12.00.026R20	12	12	26	79	2,0
FWTCR1676	F236.12.00.026R30	12	12	26	79	3,0
FWTCR1677	F236.16.00.034R10	16	16	34	93	1,0
FWTCR1678	F236.16.00.034R20	16	16	34	93	2,0
FWTCR1679	F236.16.00.034R30	16	16	34	93	3,0
FWTCR1680	F236.20.00.042R20	20	20	42	105	2,0
FWTCR1681	F236.20.00.042R30	20	20	42	105	3,0

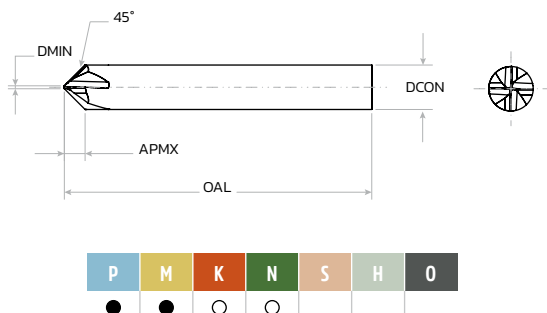
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 0^\circ$ $\beta = 10^\circ$
FOUR CUTTING EDGES	Z4	TOOL DIMENSIONS	Norma Interna
MAX WORK HARDNESS	HRC 52	45° CHAMFER	
COATING		COUNTURING	
WORKING DIRECTION		FULL SLOT	
		WITH COOLANT	

F242

Fresa per smussi rivestita MARS | Chamfering End Mill MARS Coating

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS				
		DC mm h10	Dmin mm	DCON mm h6	APMX mm	OAL mm
FWGCR0020	F242.04.00.001E04	4	1	4	1,5	58
FWGCR0021	F242.06.00.002E06	6	1	6	2,5	58
FWGCR0022	F242.08.00.003E08	8	1	8	3,5	64
FWGCR0023	F242.10.00.004E10	10	1	10	4,5	73
FWGCR0040	F242.12.00.005E12	12	1	12	5,5	79
FWGCR0041	F242.14.00.006E14	14	1	14	6,5	79
FWGCR0042	F242.16.00.007E16	16	1	16	7,5	83

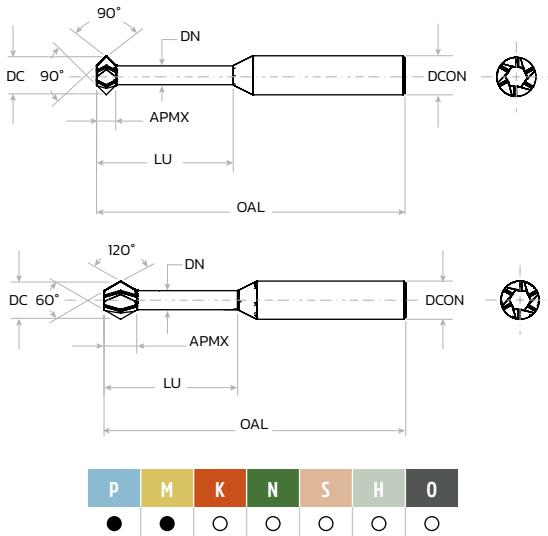
NOTE

● specifico | specific – ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per impieghi su più materiali | Multipurpose End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 0^\circ$ $\beta = 10^\circ$
FOUR CUTTING EDGES	Z4	TOOL DIMENSIONS	Norma Interna
45° CHAMFER	90°	60° CHAMFER	120°
COATING	MARS	MAX WORK HARDNESS	HRC 52
WORKING DIRECTION		FULL SLOT	
COUNTURING		WITH COOLANT	

PARAMETRI DI LAVORO
WORKING PARAMETERS



F243

Fresa per smussi 90° rivestita MARS | Chamfering End Mill MARS Coating 90°

		DIMENSIONI - DIMENSIONS						
		DC mm	DN mm	DCON mm	APMX mm	LU* mm	OAL mm	ZEFP
FWGCR0031	F243.04.00.015E06	4	2	6	2	15	58	3
FWGCR0032	F243.06.00.017E06	6	3	6	3	17	58	4
FWGCR0033	F243.08.00.028E08	8	4	8	4	28	69	4
FWGCR0034	F243.10.00.033E10	10	5	10	5	33	79	4
FWGCR0035	F243.12.00.040E12	12	6	12	6	40	90	4
FWGCR0036	F243.14.00.040E14	14	7	14	7	40	90	4
FWGCR0037	F243.16.00.048E16	16	8	16	8	48	105	4
FWGCR0038	F243.18.00.048E18	18	9	18	9	48	105	4
FWGCR0039	F243.20.00.053E20	20	10	20	10	53	109	4

* LU personalizzabile a richiesta - Different LU available under request

F249

Fresa per smussi 60° rivestita MARS | Chamfering End Mill MARS Coating 60°

		DIMENSIONI - DIMENSIONS						
		DC mm	DN mm	DCON mm	APMX mm	LU* mm	OAL mm	ZEFP
FWGCR0068	F249.04.00.015E06	4	2	6	3,4	15	58	3
FWGCR0069	F249.06.00.017E06	6	3	6	5,2	17	58	4
FWGCR0070	F249.08.00.028E08	8	4	8	6,9	28	69	4
FWGCR0071	F249.10.00.033E10	10	5	10	8,6	33	79	4
FWGCR0072	F249.12.00.040E12	12	6	12	10,4	40	90	4
FWGCR0073	F249.14.00.040E14	14	7	14	12,1	40	90	4
FWGCR0074	F249.16.00.048E16	16	8	16	13,8	48	105	4
FWGCR0075	F249.18.00.048E18	18	9	18	15,5	48	105	4
FWGCR0076	F249.20.00.053E20	20	10	20	17,32	53	109	4

* LU personalizzabile a richiesta - Different LU available under request

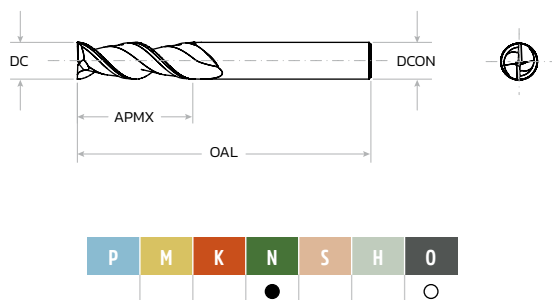
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per Leghe Leggere e materie plastiche | Light Alloys and Plastic End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 45^\circ$ $\beta = 16^\circ$
TWO CUTTING EDGES	Z2	TOOL DIMENSIONS	Norma Interna
COOLANT CONDITION	DRY/AIR	ANGLE 45° CHAMFER	45°
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		LAPPED	
		WITH COOLANT	

F372

Fresa 2 taglienti Lappata | Lapped 2 Flute End Mill

PARAMETRI DI LAVORO
WORKING PARAMETERS



FWFCN0621	F372.03.00.008A06
FWFCN0622	F372.03.00.012A06
FWFCN0623	F372.04.00.012A06
FWFCN0624	F372.04.00.016A06
FWFCN0625	F372.05.00.012A06
FWFCN0626	F372.05.00.017A06
FWFCN0627	F372.06.00.014A06
FWFCN0628	F372.06.00.022A06
FWFCN0629	F372.08.00.022A08
FWFCN0630	F372.08.00.032A08
FWFCN0631	F372.08.00.042A08
FWFCN0632	F372.10.00.022A10
FWFCN0633	F372.10.00.032A10
FWFCN0634	F372.10.00.042A10
FWFCN0635	F372.12.00.026A12
FWFCN0636	F372.12.00.032A12
FWFCN0637	F372.12.00.042A12
FWFCN0638	F372.14.00.032A14
FWFCN0639	F372.14.00.052A14
FWFCN0640	F372.16.00.034A16
FWFCN0641	F372.16.00.042A16
FWFCN0644	F372.16.00.052A16
FWFCN0645	F372.16.00.062A16
FWFCN0646	F372.20.00.045A20
FWFCN0647	F372.20.00.052A20
FWFCN0648	F372.20.00.062A20
FWFCN0649	F372.20.00.072A20
FWFCN0650	F372.20.00.082A20

DIMENSIONI - DIMENSIONS			
DC mm h10	DCON mm h6	APMX mm	OAL mm
3	6	8	50
3	6	12	55
4	6	12	55
4	6	16	58
5	6	12	55
5	6	17	58
6	6	14	58
6	6	22	58
8	8	22	73
8	8	32	76
8	8	42	89
10	10	22	73
10	10	32	80
10	10	42	89
12	12	26	84
12	12	32	84
12	12	42	89
14	14	32	84
14	14	52	100
16	16	34	93
16	16	42	93
16	16	52	105
16	16	62	115
20	20	45	93
20	20	52	109
20	20	62	109
20	20	72	120
20	20	82	130

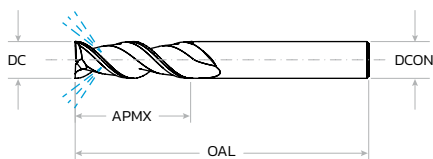
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per Leghe Leggere e materie plastiche | Light Alloys and Plastic End Mills



HARD METAL	HM	HELIX/RAKE	$\delta = 45^\circ$ $\beta = 16^\circ$
TWO CUTTING EDGES	Z2	TOOL DIMENSIONS	Norma Interna
COOLANT CONDITION	DRY/AIR	ANGLE 45° CHAMFER	45°
INTERNAL COOLING		FULL SLOT	
WORKING DIRECTIONS		COUNTURING	
LAPPED		WITH COOLANT	

F352

Fresa 2 taglienti Lappata passaggio refrigerante |
Lapped 2 Flute End Mill internal cooling

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWFCNL0006	F352.06.00.014A06	6	6	14	58
FWFCNL0009	F352.06.00.022A06	6	6	22	76
FWFCNL0005	F352.08.00.022A08	8	8	22	64
FWFCNL0010	F352.08.00.032A08	8	8	32	101
FWFCNL0011	F352.08.00.042A08	8	8	42	101
FWFCNL0002	F352.10.00.022A10	10	10	22	67
FWFCNL0012	F352.10.00.032A10	10	10	32	101
FWFCNL0013	F352.10.00.042A10	10	10	42	101
FWFCNL0003	F352.12.00.026A12	12	12	26	84
FWFCNL0014	F352.12.00.032A12	12	12	32	84
FWFCNL0015	F352.12.00.042A12	12	12	42	101
FWFCNL0016	F352.14.00.032A14	14	14	32	84
FWFCNL0017	F352.14.00.052A14	14	14	52	101
FWFCNL0004	F352.16.00.034A16	16	16	34	93
FWFCNL0018	F352.16.00.042A16	16	16	42	101
FWFCNL0019	F352.16.00.052A16	16	16	52	101
FWFCNL0001	F352.20.00.045A20	20	20	45	105
FWFCNL0008	F352.20.00.052A20	20	20	52	150
FWFCNL0020	F352.20.00.062A20	20	20	62	150
FWFCNL0021	F352.20.00.072A20	20	20	72	150
FWFCNL0022	F352.20.00.082A20	20	20	82	150

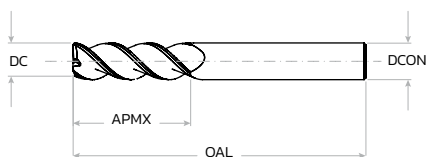
NOTE

● specifico | specific - ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per Leghe Leggere e materie plastiche | Light Alloys and Plastic End Mills



HARD METAL	HM	HELIX/RAKE	$\delta = 45^\circ$ $\beta = 16^\circ$
THREE CUTTING EDGES	Z3	TOOL DIMENSIONS	Norma Interna
COOLANT CONDITION	DRY/AIR	ANGLE 45° CHAMFER	45°
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		LAPPED	
		WITH COOLANT	

F373

Fresa 3 taglienti Lappata | Lapped 3 Flute End Mill

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWFCN0651	F373.08.00.032A08	8	8	32	76
FWFCN0652	F373.08.00.042A08	8	8	42	89
FWFCN0588	F373.10.00.022A10	10	10	22	73
FWFCN0653	F373.10.00.032A10	10	10	32	80
FWFCN0654	F373.10.00.042A10	10	10	42	89
FWFCN0602	F373.12.00.026A12	12	12	26	84
FWFCN0587	F373.12.00.032A12	12	12	32	84
FWFCN0608	F373.12.00.042A12	12	12	42	97
FWFCN0655	F373.14.00.032A14	14	14	32	94
FWFCN0656	F373.14.00.052A14	14	14	52	105
FWFCN0657	F373.16.00.034A16	16	16	34	93
FWFCN0658	F373.16.00.042A16	16	16	42	95
FWFCN0659	F373.16.00.052A16	16	16	52	105
FWFCN0607	F373.16.00.062A16	16	16	62	115
FWFCN0660	F373.20.00.045A20	20	20	45	105
FWFCN0597	F373.20.00.052A20	20	20	52	109
FWFCN0661	F373.20.00.062A20	20	20	62	120
FWFCN0662	F373.20.00.072A20	20	20	72	130
FWFCN0663	F373.20.00.082A20	20	20	82	140

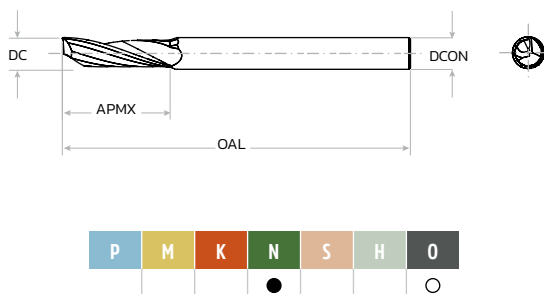
NOTE

● specifico | specific – ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta. | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per Leghe Leggere e materie plastiche | Light Alloys and Plastic End Mills



HARD METAL	HM	HELIX/RAKE	$\delta = 20^\circ$ $\beta = 25^\circ$
ONE CUTTING EDGE	Z1	TOOL DIMENSIONS	Norma Interna
COOLANT CONDITION	DRY/AIR	ANGLE 45° CHAMFER	45°
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		WITH COOLANT	

F101

Fresa 1 tagliente Elica Dx Rotazione Dx |
Single Flute End Mill Right Helix Right Cut

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWMCN0148	F101.01.00.003A03	1	3	3	39
FWMCN0149	F101.01.00.003A06	1	6	3	50
FWMCN0150	F101.02.00.006A03	2	3	6	39
FWMCN0151	F101.02.00.006A06	2	6	6	50
FWMCN0152	F101.03.00.008A03	3	3	8	39
FWMCN0112	F101.03.00.008A06	3	6	8	50
FWMCN0063	F101.03.00.012A03	3	3	12	50
FWMCN0118	F101.03.00.012A06	3	6	12	50
FWMCN0153	F101.03.00.015A06	3	6	15	55
FWMCN0129	F101.04.00.012A04	4	4	12	50
FWMCN0131	F101.04.00.012A06	4	6	12	50
FWMCN0093	F101.04.00.017A04	4	4	17	55
FWMCN0154	F101.04.00.017A06	4	6	17	55
FWMCN0073	F101.04.00.020A06	4	6	20	58
FWMCN0155	F101.05.00.012A05	5	5	12	50
FWMCN0156	F101.05.00.012A06	5	6	12	50
FWMCN0157	F101.05.00.017A05	5	5	17	55
FWMCN0158	F101.05.00.017A06	5	6	17	55
FWMCN0159	F101.05.00.022A05	5	5	22	58
FWMCN0160	F101.05.00.022A06	5	6	22	58
FWMCN0130	F101.06.00.017A06	6	6	17	55
FWMCN0094	F101.06.00.022A06	6	6	22	58
FWMCN0081	F101.06.00.027A06	6	6	27	65
FWMCN0161	F101.06.00.032A06	6	6	32	70
FWMCN0162	F101.07.00.022A07	7	7	22	64
FWMCN0163	F101.07.00.032A07	7	7	32	73
FWMCN0086	F101.08.00.022A08	8	8	22	64
FWMCN0082	F101.08.00.032A08	8	8	32	73
FWMCN0107	F101.08.00.042A08	8	8	42	90
FWMCN0164	F101.09.00.032A09	9	9	32	80

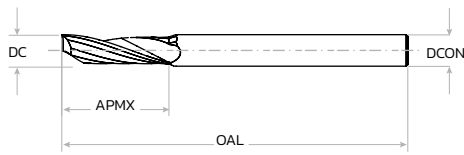
NOTE

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FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per Leghe Leggere e materie plastiche | Light Alloys and Plastic End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 20^\circ$ $\beta = 25^\circ$
ONE CUTTING EDGE	Z1	TOOL DIMENSIONS	Norma Interna
COOLANT CONDITION	DRY/AIR	ANGLE 45° CHAMFER	45°
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		WITH COOLANT	

F101

Fresa 1 tagliente Elica Dx Rotazione Dx |
Single Flute End Mill Right Helix Right Cut

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWMCN0061	F101.10.00.022A10	10	10	22	73
FWMCN0165	F101.10.00.032A10	10	10	32	80
FWMCN0166	F101.10.00.042A10	10	10	42	89
FWMCN0104	F101.10.00.052A10	10	10	52	100
FWMCN0066	F101.12.00.032A12	12	12	32	84
FWMCN0167	F101.12.00.042A12	12	12	42	89
FWMCN0100	F101.12.00.052A12	12	12	52	100
FWMCN0168	F101.14.00.032A14	14	14	32	84
FWMCN0169	F101.14.00.052A14	14	14	52	100
FWMCN0069	F101.16.00.042A16	16	16	42	93
FWMCN0170	F101.16.00.072A16	16	16	72	120

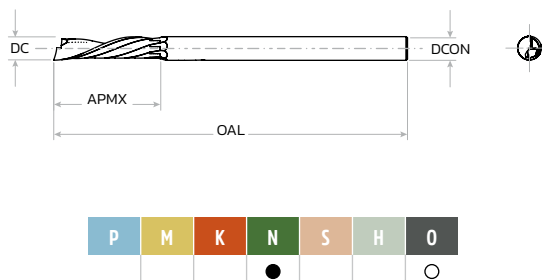
NOTE

● specifico | specific – ○ adatto | suitable
Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

Attacco Weldon disponibile su richiesta | Weldon available under request
Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per Leghe Leggere e materie plastiche | Light Alloys and Plastic End Mills



HARD METAL	HM	HELIX/RAKE	$\delta = 20^\circ$ $\beta = 25^\circ$
ONE CUTTING EDGE	Z1	TOOL DIMENSIONS	Norma Interna
COOLANT CONDITION	DRY/AIR	ANGLE 45° CHAMFER	45°
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		WITH COOLANT	

F100

Fresa 1 tagliente Elica Sx Rotazione Dx |
Single Flute End Mill Left Helix Right Cut

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWMCN0171	F100.02.00.010B06	2	6	10	50
FWMCN0172	F100.03.00.012B03	3	3	12	50
FWMCN0173	F100.03.00.015B06	3	6	15	58
FWMCN0134	F100.04.00.012B04	4	4	12	50
FWMCN0132	F100.04.00.015B06	4	6	15	58
FWMCN0074	F100.04.00.020B06	4	6	20	58
FWMCN0174	F100.05.00.017B05	5	5	17	57
FWMCN0175	F100.05.00.022B06	5	6	22	64
FWMCN0095	F100.06.00.015B06	6	6	15	58
FWMCN0176	F100.06.00.022B06	6	6	22	64
FWMCN0177	F100.08.00.022B08	8	8	22	64
FWMCN0113	F100.08.00.032B08	8	8	32	80
FWMCN0178	F100.10.00.032B10	10	10	32	90

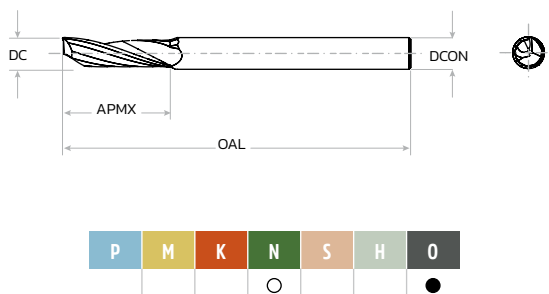
NOTE

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Frese di qualsiasi misura prodotte su ordinazione | Different dimensions available under request

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FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per Leghe Leggere e materie plastiche | Light Alloys and Plastic End Mills



HARD METAL	HM	HELIX/RAKE	$\alpha = 25^\circ$ $\beta = 25^\circ$
ONE CUTTING EDGE	Z1	TOOL DIMENSIONS	Norma Interna
COOLANT CONDITION	DRY/AIR	ANGLE 45° CHAMFER	45°
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		WITH COOLANT	

F156

Fresa 1 tagliente Elica Dx Rotazione Dx |
Single Flute End Mill Right Helix Right Cut

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWMCN0012	F156.02.00.010A02	2	2	10	40
FWMCN0038	F156.02.00.012A06	2	6	12	80
FWMCN0010	F156.03.00.012A03	3	3	12	60
FWMCN0055	F156.03.00.014A06	3	6	14	80
FWMCN0092	F156.04.00.015A04	4	4	15	60
FWMCN0139	F156.04.00.018A06	4	6	18	80
FWMCN0001	F156.05.00.016A05	5	5	16	60
FWMCN0142	F156.05.00.018A06	5	6	18	80
FWMCN0179	F156.05.00.030A06	5	6	30	80
FWMCN0141	F156.06.00.018A06	6	6	18	80
FWMCN0002	F156.06.00.022A06	6	6	22	60
FWMCN0080	F156.06.00.030A06	6	6	30	80
FWMCN0003	F156.08.00.022A08	8	8	22	60
FWMCN0111	F156.08.00.032A08	8	8	32	80
FWMCN0067	F156.10.00.035A10	10	10	35	80
FWMCN0071	F156.10.00.042A10	10	10	42	90

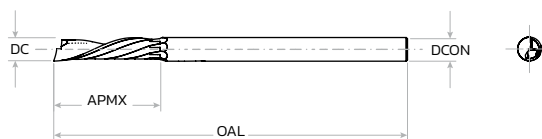
NOTE

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FRESE IN METALLO DURO INTEGRALE | SOLID CARBIDE MILLING CUTTERS

Frese per Leghe Leggere e materie plastiche | Light Alloys and Plastic End Mills



HARD METAL	HM	HELIX/RAKE	$\theta = 25^\circ$ $\beta = 25^\circ$
ONE CUTTING EDGE	Z1	TOOL DIMENSIONS	Norma Interna
COOLANT CONDITION	DRY/AIR	ANGLE 45° CHAMFER	45°
WORKING DIRECTIONS		FULL SLOT	
COUNTURING		WITH COOLANT	

F155

Fresa 1 tagliente Elica Sx Rotazione Dx |
Single Flute End Mill Left Helix Right Cut

PARAMETRI DI LAVORO
WORKING PARAMETERS



		DIMENSIONI - DIMENSIONS			
		DC mm h10	DCON mm h6	APMX mm	OAL mm
FWMCN0137	F155.02.00.012B06	2	6	12	80
FWMCN0180	F155.03.00.012B03	3	3	12	60
FWMCN0144	F155.03.00.014B06	3	6	14	80
FWMCN0014	F155.04.00.015B04	4	4	15	60
FWMCN0004	F155.04.00.018B06	4	6	18	80
FWMCN0005	F155.05.00.016B05	5	5	16	60
FWMCN0145	F155.05.00.018B06	5	6	18	80
FWMCN0023	F155.05.00.030B06	5	6	30	80
FWMCN0146	F155.06.00.018B06	6	6	18	80
FWMCN0006	F155.06.00.022B06	6	6	22	60
FWMCN0025	F155.06.00.030B06	6	6	30	80
FWMCN0007	F155.08.00.022B08	8	8	22	60
FWMCN0031	F155.08.00.032B08	8	8	32	80
FWMCN0181	F155.10.00.035B10	10	10	35	80
FWMCN0182	F155.10.00.042B10	10	10	42	90

NOTE

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Scarico dopo il tagliente disponibile o personalizzabile su richiesta. | Neck reduction available under request

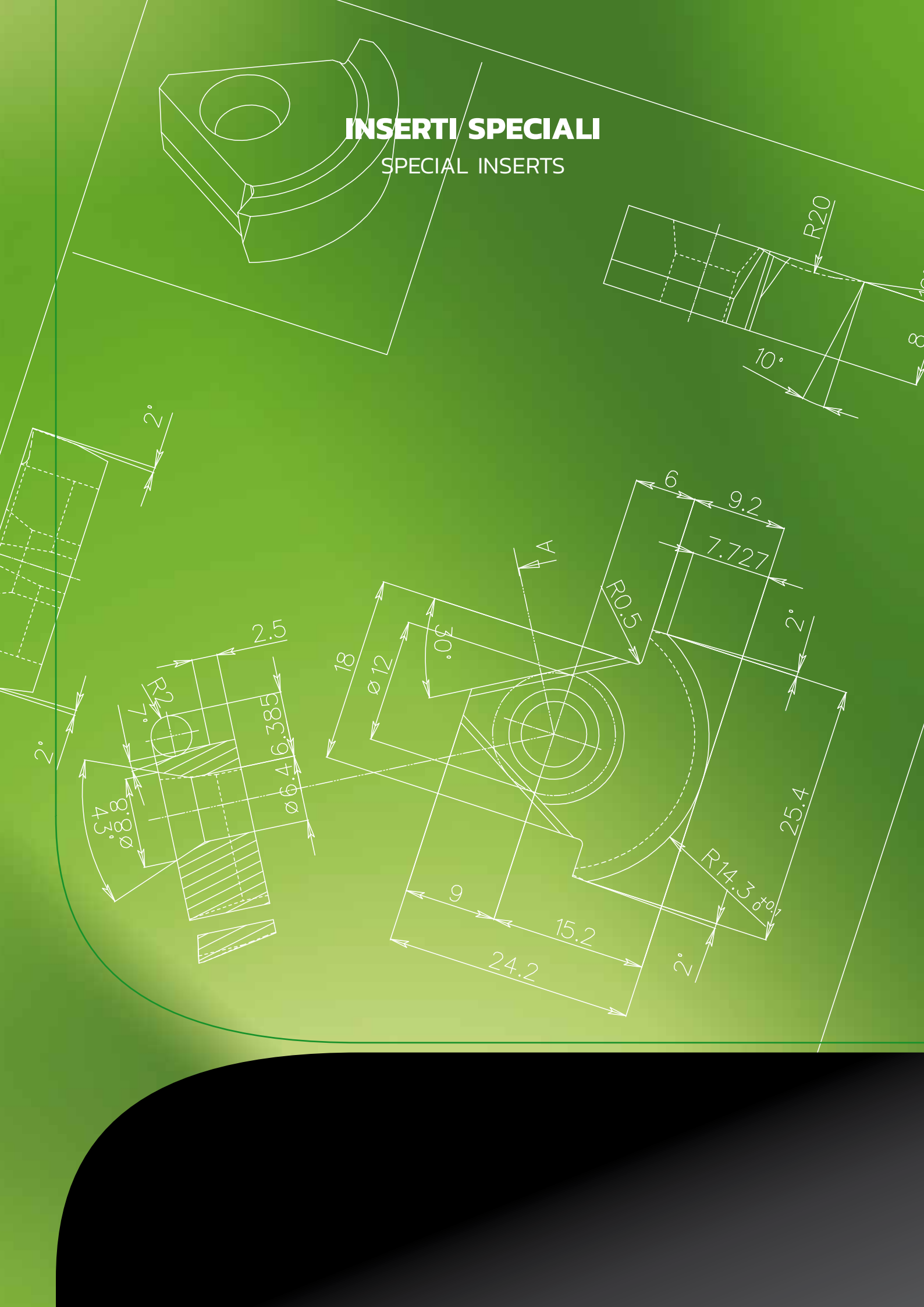
FRESE SPECIALI

CUSTOMIZED CUTTERS



INSERTI SPECIALI

SPECIAL INSERTS



INSERTI
INSERTS



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CHIAVE DI LETTURA QUALITÀ | QUALITY KEYS

HM APPLICAZIONE APPLICATION	30 GAMMA ISO ISO-SYSTEM (01-40)	01 NUMERO SEQUENZIALE GENERATION (01-99)
HP - ACCIAIO - STEEL	01-05	
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	35-40	

INSERTI CON RIPORTI DURI | INDEXABLE INSERTS BRAZED

PCD - per alluminio-materiali non ferrosi for aluminium - non ferrous materials
CBN - per ghisa - for cast iron

TORNITURA | TURNING

INFORMAZIONI TECNICHE | TECHNICAL INFORMATION

ISO	Materiali - Materials	Durezza - Hardness Rm
HP HX	Acciaio non legato - Unalloyed steel	400-600 N/mm ² - 120-180 HBN
		600-950 N/mm ² - 180-200 HBN
	Acciaio legato - Alloy steel	700-950 N/mm ² - 200-280 HBN
		950-1200 N/mm ² - 280-355 HBN
	Acciaio da utensili - Tool steel	1200-1400 N/mm ² - 355-415 HBN
HM HX	Acciaio inossidabile - Stainless steel	Austenitico+ferritico Serie300 - Austenitic+ferritic 300 series
		Martensitico Serie 400 - Martensitic 400 series
	Inossidabili PH - Stainless PH	Refrattario-Invecchiamento artificiale - Refractory Artificial aging
HK	Ghisa - Cast Iron	Grigia - Grey GG-Ft
		Sferoidale/duttile - Spheroidal/Ductile GGG-FGS
		Modulare-Modular GGG-L-N
		Malleabile-Malleable GTS-MN/MP
HN	Alluminio e leghe - Aluminum and alloys	Alluminio e leghe - Aluminum and alloys <16% 116 HBN
		Alluminio + silicio - Aluminum + silicon >16% 92 HBN
HS	Leghe resistenti al calore - Heat resistant alloys	A base di ferro - Based on iron
		A base di cobalto - Based on cobalt
		A base di nickel - Based on nickel
		A base di titanio - Based on titan 425-456 HBN
HC	Ghisa sferoidale - Spheroidal cast iron	Sferoidale/duttile - Spheroidal/Ductile GGG-FGS
	Acciaio non legato - Unalloyed steel	400-600 N/mm ² - 120-180 HBN
		600-950 N/mm ² - 180-200 HBN
	Acciaio legato - Alloy steel	950-1200 N/mm ² - 280-355 HBN
		1200-1400 N/mm ² - 355-415 HBN
	Acciaio inossidabile - Stainless steel	Austenitico+ferritico Serie300 - Austenitic+ferritic 300 series
		Martensitico Serie 400 Martensitic 400 series

CALCOLO PARAMETRI | CALCULATE SPEED

NUMERO DI GIRI - NUMBER OF REVOLUTION PER MINUTE

$$N = \frac{V_c \times 1000}{\pi \times D} = (\text{giri/min} - \text{Rpm})$$

VELOCITÀ DI TAGLIO - CUTTING SPEED

$$V_c = \frac{\pi \times D \times N}{1000} = (\text{m/min})$$

AVANZAMENTO PEZZO - PIECE FEEDING

$$V_f = f_z \times Z \times N = (\text{mm/min})$$

LEGENDA | LEGEND

N	numero di giri - number of revolutions (giri/min - RPM)
Vc	velocità - speed (m/min)
d	diametro nominale - nominal diameter (mm)
Vf	avanzamento pezzo - piece feeding (mm/min)
fz	avanzamento dente - tooth feeding (mm)
Z	numero di denti - number of teeth
D	diametro del componente da filettare - Diameter of the threading (mm)

RIVESTIMENTI | COATING

TIPOLOGIE RIVESTIMENTI PVD | PVD TYPES OF COATING

TIPO/TYPE	DESCRIZIONE	DESCRIPTION
PVD - TiN	Il nitrato di titanio è stato il primo rivestimento PVD. È versatile ed ha un colore dorato.	The titanium nitrogen coating was the first type of PVD coating. It is an all-around coating and it has a golden colour.
PVD - Ti (C, N)	Il carbonitrato di titanio è più duro del TiN e conferisce una maggiore resistenza all'usura sul fianco.	The titanium carbonitrate is harder than TiN and gives a higher wear resistance on the side.
PVD - (Ti, Al) N	Il nitrato di alluminio e titanio ha un'elevata durezza abbinata alla resistenza all'ossidazione, che contribuisce ad aumentare la resistenza generale all'usura.	The aluminum and titanium nitrate has a high hardness combined with an oxidation resistance, which helps to increase general wear resistance.
PVD - AlTiN	È utilizzato per la sua inerzia chimica ed elevata resistenza all'usura per craterizzazione.	It is used for its chemical inertness and high resistance to crater wear.
PVD TiAlN	Rivestimento a triplo strato submicrograna per acciai inossidabili, titanio e leghe ad alte temperature. Rivestimento di colore blu.	Triple layered coated submicrograin for stainless steel, titanium and most of the high temperature alloys. Blu colour coating.
PVD DEVIL	Rivestimento multistrato per maggiore resistenza all'usura. Ideale per tutti i tipi di acciaio.	Multilayer coating with a high wear resistance for all types of steel.

TIPOLOGIE RIVESTIMENTI CVD | CVD COATING TYPES

TIPO/TYPE	DESCRIZIONE	DESCRIPTION
CVD-TiN	Migliora la resistenza all'usura ed è utilizzato per rilevare l'usura.	Improves wear resistance and is used to detect wear.
CVD-Ti (C, N)	La sua durezza garantisce una buona resistenza all'usura per abrasione, con conseguente diminuzione dell'usura sul fianco.	Its hardness guarantees a good resistance to wear due to abrasion, with a consequent reduction of wear on the side.
CVD-Ti (Al, N)	La sua inerzia chimica e la sua bassa conducibilità termica, lo rendono resistente all'usura per craterizzazione. Funge anche da barriera termica per aumentare la resistenza alla deformazione plastica.	Its chemical inertia and its low thermal conductivity make it resistant to crater wear. It also acts as a thermal barrier to increase resistance to plastic deformation.

QUALITÀ E VELOCITÀ | QUALITIES AND CUTTING SPEED

		TORNITURA POSITIVA POSITIVE TURNING	TORNITURA NEGATIVA NEGATIVE TURNING	FRESATURA - MILLING	FILETTATURA THREADING
HK1005					
Rivestimento CVD-multistrato TiAlN K05-K10. L'area di impiego di questa qualità è la lavorazione di tutti le ghise da fusione. Il nuovo substrato offre la necessaria tenacità e resistenza alle alte temperature, il rivestimento CVD assicura la resistenza all'usura oltre ad una ulteriore resistenza alle alte temperature.	CVD-TiAlN multilayer coating K05-K10. The main application area for this grade is the machining of all cast materials. The new substrate offers the necessary toughness and heat resistance, the CVD-coating.	Vc 200÷330			
HK1006					
Rivestimento PVD-multistrato - TiAlN K10-K20. Qualità per la fresatura di Ghisa grigia, Ghisa. Sferoidale ed acciai. Eccellente resistenza all'usura.	PVD -multilayer coating - TiAlN K10-K20. Grade for milling machining cast iron, nodular cast. Iron and steels. Excellent wear resistance.			Vc 200÷300	
HK1511					
Rivestimento CVD-multistrato TiAlN K10-K20. Qualità per la lavorazione di sgrossatura di Ghisa grigia e Ghisa sferoidale. Ottima resistenza all'usura e massima stabilità di taglio.	CVD-TiAlN multilayer coating K10-K20. Grade for roughing of cast iron and nodular cast iron. AK2110 has excellent wear resistance and low tendency for build up edge. For the universal use on grey cast iron and ductile iron.	Vc 170÷260	Vc 150÷250		
HK2011					
Rivestimento CVD-multistrato - TiAlN K15-K25. Qualità per la tornitura di Ghisa grigia e Ghisa sferoidale. Possiede un'ottima resistenza all'usura.	CVD-multilayer coating- TiAlN K15-K25. Main application for machining cast iron and nodular cast iron. Offers good wear resistance.		Vc 150÷300		
HK2511					
Rivestimento PVD-multistrato - TiN K20-K30. Qualità per la tornitura di Ghisa grigia e Ghisa Sferoidale. Eccellente resistenza all'usura.	PVD -multilayer coating - TiN K20-K30. Grade for machining cast iron and nodular cast iron. Excellent wear resistance.	Vc 100÷170			
HM2510					
Rivestimento PVD-multistrato - AlTiN M20-M30. Grado per la sgrossatura e semi-sgrossatura di acciai inossidabili.	PVD-multilayer coating - AlTiN M20-M30. The grade for roughing and medium roughing stainless steels.	Vc 100÷150	Vc 80÷150		
HM3001					
Rivestimento PVD - Devil M25-M35. Qualità universale per finitura di acciai inossidabili, acciai legati e materiali esotici.	PVD coating - Devil M25-M35. Universal grade for finishing stainless steels and alloyed steels as well as exotic materials.	Vc 80÷150			
HM3052					
Rivestimento PVD-multistrato - TiAlNB M20-M30. Grado resistente all'usura per la lavorazione di acciaio, fusioni, acciaio inossidabile, Superleghe.	PVD-multilayer coating - TiAlNB M20-M30. High wear resistant grade for machining steel, cast steel, stainless steel and high temperature super alloys.				Vc 100÷130
HM3054					
Rivestimento PVD-multistrato - TiAlN M25-M40. Qualità resistente all'usura con un buon filo tagliente per la lavorazione di acciaio, acciaio da fusione, acciaio inossidabile e materiali refrattari come superleghe e leghe ad alta temperatura.	PVD-multilayer coating - TiAlN M25-M40. Wear resistant grade for machining steel, cast steel, stainless steel and high temperature alloys (super alloys).		Vc 80÷140		
HM3055					
Rivestimento CVD-multistrato - TiAlN M25-M30. Grado resistente all'usura per la lavorazione di acciaio, fusioni, acciaio inossidabile, Superleghe.	CVD-multilayer coating - TiAlN M25-M30. High wear resistant grade for machining steel, cast steel, stainless steel and high temperature super alloys.	Vc 110÷200			
HM3060					
Rivestimento PVD-multistrato - TiAlN M25-M40. Inserto rettificato con grado resistente all'usura per la lavorazione di acciaio, fusioni, acciaio inossidabile, Superleghe.	PVD-multilayer coating - TiAlN M25-M40. Grinded insert high wear resistant grade for machining steel, cast steel, stainless steel and high temperature super alloys.				

Per velocità foratura v. tabella foratura a pg. C 3 - For drilling cutting speed see chart at pg. C 3

QUALITÀ E VELOCITÀ | QUALITIES AND CUTTING SPEED

		TORNITURA POSITIVA POSITIVE TURNING	TORNITURA NEGATIVA NEGATIVE TURNING	FRESATURA - MILLING	FILETTATURA THREADING
HM3101	Rivestimento PVD-multistrato - TiCN M25-M35. Grado resistente all'usura per la lavorazione di acciaio, fusioni, acciaio inossidabile, Superleghe.	PVD-multilayer coating - TiCN M25-M35. High wear resistant grade for machining steel, cast steel, stainless steel and high temperature super alloys.		Vc 130÷180	
HM4060	Rivestimento PVD-multistrato - AlTiN M35-M45. Grado resistente all'usura per la lavorazione di acciai inossidabili e superleghe.	PVD-multilayer coating - AlTiN M35-M45. High wear resistant grade for machining stainless steels and super alloys.		Vc 130÷190	
HM4061	Rivestimento PVD-multistrato - TiN M30-M40. Grado resistente all'usura per la lavorazione di acciai inossidabili e superleghe.	PVD-multilayer coating - TiN M30-M40. High wear resistant grade for machining stainless steels and super alloys.		Vc 130÷170	
HN10	Nudo lappato K10. Grado di metallo duro sub-micrograna per la lavorazione di alluminio e leghe di alluminio.	Uncoated - K10. Carbide grade for machining aluminum and aluminum alloys.	Vc 150÷400	Vc 250÷700	Vc 300÷800
HP1015	Rivestimento PVD-multistrato - TiAlN P10-P20. Qualità per la finitura di acciaio. La nuova tecnologia di rivestimento garantisce una maggiore resistenza all'usura ed una incrementata vita inserto.	PVD-multilayer coating - TiAlN P10-P20. Grade for finishing steel. New coating technology offer less wear and longer tool life.		Vc 150÷300	
HP1502	Rivestimento CVD-multistrato - TiAlN P10-P20. Qualità per la lavorazione ad alta velocità di taglio di Acciaio. Adatto anche per la lavorazione di Ghisa Grigia e Ghisa Sferoidale.	CVD-multilayer coating - TiAlN P10-P20. Premium grade for "high speed" machining of steel. Also suitable for roughing of cast iron and nodular cast iron.	Vc 180÷300	Vc 80÷200	
HP1551	Rivestimento PVD-multistrato - TiN P10-P20. Qualità per la lavorazione ad alta velocità di taglio di Acciaio. Adatto anche per la lavorazione di Ghisa Grigia e Ghisa Sferoidale.	PVD-multilayer coating - TiN P10-P20. Premium grade for "high speed" machining of steel. Also suitable for roughing of cast iron and nodular cast iron.		Vc 70÷120	
HP2011	Rivestimento CVD-multistrato - TiAlN P20-P30. Qualità universale per svariati campi applicativi nella lavorazione di acciaio e materiali da fusione. È inoltre idoneo ad alcune lavorazioni di acciaio inossidabile.	CVD-multilayer coating - TiAlN P20-P30. This multi purpose grade excels due to its versatile application area in steel and cast materials. It is also very suitable for machining stainless steel.		Vc 150÷300	
HP2052	Rivestimento PVD-multistrato - TiAlN P15-P25. Qualità universale per le lavorazioni generiche di Acciaio di semi-finitura. Adatta anche per lavorazioni a taglio interrotto.	PVD-multilayer coating - TiAlN P15-P25. Grade for medium machining of steel in both uninterrupted and heavy interrupted cutting conditions.			Vc 80÷115
HP2501	Rivestimento PVD-multistrato - TiN P20-P30. Qualità universale per le lavorazioni generiche di Acciaio.	PVD-multilayer coating - TiN P20-P30. Grade for medium machining of steel.			
HP2502	Rivestimento CVD-multistrato - TiAlN P15-P25. Qualità universale per le lavorazioni generiche di Acciaio di semi-finitura. Adatta anche per lavorazioni a taglio interrotto.	CVD-multilayer coating - TiAlN P15-P25. Grade for medium machining of steel in both uninterrupted and heavy interrupted cutting conditions.	Vc 180÷300	Vc 80÷200	
HP2506	Rivestimento PVD-multistrato - AlTiN P20-P30. Qualità per la sgrossatura di Acciaio. Resistente al taglio interrotto ed in condizioni instabili di lavoro.	PVD-multilayer coating - AlTiN P20-P30. Grade for heavy roughing applications in steel materials. Tough for heavy interrupted cuts and unfavorable conditions.		Vc 190÷300	

Per velocità foratura v. tabella foratura a pg. C 3 - For drilling cutting speed see chart at pg. C 3

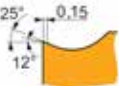
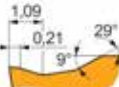
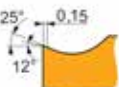
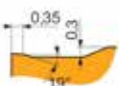
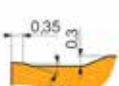
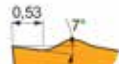
QUALITÀ E VELOCITÀ | QUALITIES AND CUTTING SPEED

		TORNITURA POSITIVA POSITIVE TURNING	TORNITURA NEGATIVA NEGATIVE TURNING	FRESATURA - MILLING	FILETTATURA THREADING
HP2551					
Rivestimento PVD-multistrato - TiAlN P10-P20. Qualità universale per filettatura fresata, per le lavorazioni generiche di Acciaio e leghe di acciaio.	PVD-multilayer coating- TiAlN P10-P20. Grade for medium thread mill machining of steel and steel alloys.				Vc 70÷180
HP2559					
Rivestimento PVD-multistrato - TiN P20-P30. Qualità universale per svariati campi applicativi nella lavorazione di acciaio e materiali da fusione. È inoltre idoneo ad alcune lavorazioni di acciaio inossidabile.	PVD-multilayer coating - TiN P20-P30. This multi purpose grade excels due to its versatile application area in steel and cast materials. It is also very suitable for machining stainless steel.			Vc 80÷150	
HP2560					
Rivestimento PVD-multistrato - TiAlN P20-P30. Qualità universale per svariati campi applicativi nella lavorazione di acciaio e materiali da fusione. È inoltre idoneo ad alcune lavorazioni di acciaio inossidabile.	PVD-multilayer coating - TiAlN P20-P30. This multi purpose grade excels due to its versatile application area in steel and cast materials. It is also very suitable for machining stainless steel.			Vc 100÷180	
HP3001					
Rivestimento CVD-multistrato - TiAlN P25-P35. Qualità universale per svariati campi applicativi nella lavorazione di acciaio e materiali da fusione. È inoltre idoneo ad alcune lavorazioni di acciaio inossidabile.	CVD-multilayer coating - TiAlN P25-P35. This multi purpose grade excels due to its versatile application area in steel and cast materials. It is also very suitable for machining stainless steel.			Vc 180÷240	
HP3051					
Rivestimento PVD - TiN P25-P35. Qualità universale per acciai inossidabili e acciai legati.	PVD coating - TiN P25-P35. Universal grade for stainless steels and alloyed steels.			Vc 100÷180	
HX2510					
Rivestimento PVD-multistrato - AlTiN M20-M30. Grado resistente all'usura per la lavorazione di acciaio, fusioni, acciaio inossidabile, Superleghe.	PVD-multilayer coating - AlTiN M20-M30. High wear resistant grade for machining steel, cast steel, stainless steel and high temperature super alloys.			Vc 80÷150	
HX3510					
Rivestimento PVD-multistrato - TiAlN M25-M35. Grado resistente all'usura per la lavorazione di acciaio, fusioni, acciaio inossidabile, Superleghe.	PVD-multilayer coating - TiAlN M25-M35. High wear resistant grade for machining steel, cast steel, stainless steel and high temperature super alloys.			Vc 80÷150	
HC1510					
Rivestimento PVD - TiN P10-P20. Qualità CERMET micrograna con alta resistenza all'usura e tenacità per la lavorazione di acciaio, fusione di acciaio e ghisa sferoidale. Adatto a finitura e semi-finitura.	PVD-coating - TiN P10-P20. Fine grain CERMET. Grade with high wear resistance and toughness for machining steel, cast steel, spheroidal cast iron. For finishing and medium machining.	Vc 80÷250		Vc 150÷300	
HC10					
Qualità CERMET micrograna con alta resistenza all'usura e tenacità per la lavorazione di acciaio, fusione di acciaio e ghisa sferoidale. Adatto a finitura e semi-finitura.	CERMET. Grade with high wear resistance and toughness for machining steel, cast steel, spheroidal cast iron. For finishing and medium machining.	Vc 60÷180	Vc 60÷180	Vc 100÷230	

Per velocità foratura v. tabella foratura a pg. C 3 - For drilling cutting speed see chart at pg. C 3

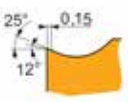
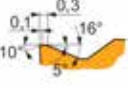
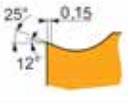
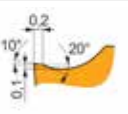
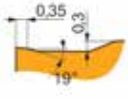
TORNITURA | TURNING

TORNITURA POSITIVA | POSITIVE TURNING

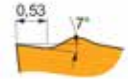
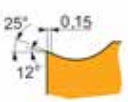
CODICE ROMPIRUCIOLO CHIP BREAKER CODE	TIPO ROMPIRUCIOLO CHIP BREAKER TYPE	PARAMETRI TAGLIO CUTTING PARAMETERS	RIVESTIMENTO COATING
AL		fz 0,06÷0,40 - ap 0,3÷4,0	NUDO LAPPATO - UNCOATED LAPPED
NE		fz 0,10÷0,35 - ap 0,2÷4,5	CVD - TiAIN
NY		fz 0,05÷0,40 - ap 0,10÷1,50	PVD - AlTiN
NE		fz 0,10÷0,35 - ap 0,2÷4,5	PVD - AlTiN
L/R		fz 0,05÷0,20 - ap 0,1÷0,25	PVD - DEVIL
VS		fz 0,15÷0,60 - ap 0,4÷4,0	CVD - TiAIN
SN		fz 0,20÷0,40 - ap 1,5÷4,0	CVD - TiAIN
SN		fz 0,15÷0,40 - ap 1,0÷4,0	CVD - TiAIN
GG3		fz 0,03÷0,20 - ap 0,2÷2,5	PVD - TiN
L/R		fz 0,05÷0,20 - ap 0,2÷2,5	PVD - TiN

TORNITURA | TURNING

TORNITURA NEGATIVA | NEGATIVE TURNING

CODICE ROMPIRUCIOLO CHIP BREAKER CODE	TIPO ROMPIRUCIOLO CHIP BREAKER TYPE	PARAMETRI TAGLIO CUTTING PARAMETERS	RIVESTIMENTO COATING
AL		fz 0,10÷0,50 - ap 0,5÷4,0	NUDO LAPPATO - UNCOATED LAPPED
NE		fz 0,10÷0,60 - ap 0,4÷5,0	CVD - TiAIN
FN		fz 0,20÷0,60 - ap 1,0÷5,5	CVD - TiAIN
NE		fz 0,10÷0,60 - ap 0,4÷5,0	CVD - TiAIN
NB		fz 0,12÷0,65 - ap 0,5÷4,0	PVD - AlTiN
IB/IT		fz 0,12÷0,35 - ap 0,5÷3,5	PVD - TiAIN
SN		fz 0,15÷0,40 - ap 0,8÷4,5	CVD - TiAIN
HI		fz 0,30÷0,60 - ap 0,1÷6,0	CVD - TiAIN

FORATURA | DRILLING

CODICE ROMPIRUCIOLO CHIP BREAKER CODE	TIPO ROMPIRUCIOLO CHIP BREAKER TYPE	PARAMETRI TAGLIO CUTTING PARAMETERS	RIVESTIMENTO COATING
EB		vd tab. foratura - see drilling chart	NUDO LAPPATO - UNCOATED LAPPED
D31		vd tab. foratura - see drilling chart	PVD - TiN PVD - TiAIN
ET		vd tab. foratura - see drilling chart	PVD - TiN
T		vd tab. foratura - see drilling chart	PVD - TiAIN

PARAMETRI DI TAGLIO SVASATORI | WORKING PARAMETERS CHAMFERING MILL

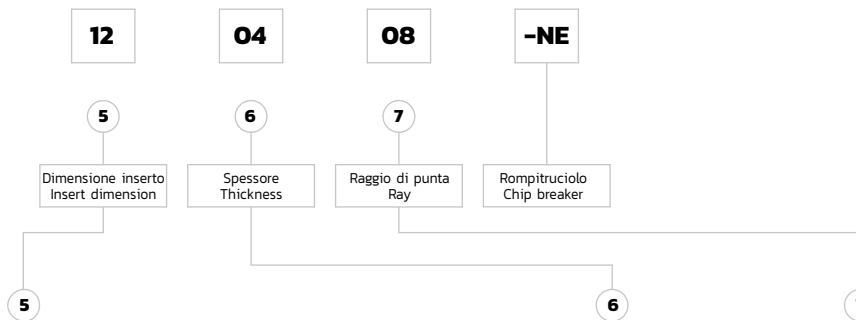
Prodotto a pag. F12
Chamfering mill Page F12

	MATERIALI MATERIALS	INDICE INDEX	RESISTENZA ALLA TRAZ. RM STRENGTH RM Mpa	DUREZZA HARDNESS HB	DUREZZA HARDNESS HRC	VC	FZ
P	acciaio a basso tenore di carb. A trucc. Lungo C > 0,25% unalloyed steel	P0	<530	<125	-	25-45	0,045
	acciaio a basso tenore di carb. A trucc. Lungo C > 0,25% unalloyed steel	P1	<530	<125	-	25-45	0,045
	acciaio con tenore di carbonio C > 0,25% low-alloy steel	P2	>530	<220	<25	25-45	0,045
	acciaio legato e acciaio per utensili C > 0,25% high-alloy steel and high-alloy tool steel	P3	600-850	<330	<35	25-45	0,045
	acciaio legato e acciaio per utensili C > 0,25% stainless steel	P4	850-1400	340-450	35-48	10-20	0,045
	acciaio ferritico, martensitico e inox acciaio PH ferritic / martensitic alloy steel, inox PH	P5	600-900	<330	<35	10-20	0,045
	acciaio inox ferritico, martensitico e PH ad alta resistenza stainless ferritic / martensitic steel, PH high strenght	P6	900-1350	350-450	35-48	10-20	0,045
M	acciaio inox austenitico stainless steel	M1	<600	130-200	-	5-15	0,045
	acciaio inox austenitico ad alta resistenza stainless steel	M2	600-800	150-230	<25	5-15	0,045
	acciaio inox duplex stainless steel	M3	<800	135-275	<30	15-25	0,045
K	ghisa grigia grey cast iron	K1	125-500	120-290	<32	25-45	0,045
	ghisa duttile fino a media resistenza spherulitic graphite cast iron	K2	<600	130-260	<28	25-45	0,045
	ghisa ad alta resistenza e ghisa bainitica malleable iron	K3	>600	180-350	<43	25-45	0,045
N	leghe di alluminio per lavorazione plastica aluminium wrought alloy	N1	-	-	-	25-110	0,045
	leghe di alluminio a basso contenuto di Si cast aluminium alloy	N2	-	-	-	25-110	0,045
	leghe di alluminio ad alto contenuto di Si copper and copper alloys (bronze/brass)	N3	-	-	-	25-110	0,045
	leghe di rame, ottone e zinco magnesium alloys	N4	-	-	-	25-110	0,045
S	leghe resistenti al calore a base di ferro heat-resistant alloys	S1	500-1200	160-260	25-48	5-15	0,045
	leghe resistenti al calore a base di cobalto heat-resistant alloys	S2	1000-1450	250-450	25-48	5-15	0,045
	leghe resistenti al calore a base di nichel heat-resistant alloys	S3	600-1700	160-450	<48	5-15	0,045
	titanio e leghe di titanio titanium alloys	S4	900-1600	300-400	33-48	5-15	0,045

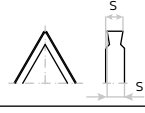
IDENTIFICAZIONE INSERTI ISO1832 | INSERTS DESIGNATION ISO1832

C				N				M				G						
1				2				3				4						
Forma inserto Insert's shape				Angolo di spoglia Relief angle				Tolleranza Tolerance				Tipo di inserto Insert type						
1				2				3				4						
C			80°	A														
D			55°	B				A	+/- 0.005	+/- 0.025	+/- 0.025	N	Senza foro Without hole		Nessuno None			
E		Rombico Rhombic	75°	C				F	+/- 0.005	+/- 0.013	+/- 0.025	R			Monolaterale Unilateral			
F			50°	D				C	+/- 0.013	+/- 0.025	+/- 0.025	F			Bilaterale Bilateral			
V			35°	E				H	+/- 0.013	+/- 0.013	+/- 0.025	A	Con foro - With hole	Foro dritto Straight hole		Nessuno None		
R		Rotondo Round	-	F				E	+/- 0.025	+/- 0.025	+/- 0.025	M				Monolaterale Unilateral		
S		Quadrato Square	90°	G				G	+/- 0.025	+/- 0.025	+/- 0.13	G			Bilaterale Bilateral			
T		Triangolare Triangular	60°	N				J*	+/- 0.005	da +/- 0.05 a +/- 0.15	+/- 0.025	W		Foro dritto con svatura Straight hole with chamfer (40°-60°)		Nessuno None		
W		Trigono Trine	80°	P				K*	+/- 0.013	da +/- 0.05 a +/- 0.15	+/- 0.025	T				Monolaterale Unilateral		
A		Parallelogrammo Parallelogram	85°	O	Descrizione specifica Specific			L*	+/- 0.025	da +/- 0.05 a +/- 0.15	+/- 0.025	B		Foro dritto con svatura Straight hole with chamfer (70°-90°)		Nessuno None		
B			82°	M*	da +/- 0.08 a +/- 0.2	da +/- 0.05 a +/- 0.15	+/- 0.13	H		Monolaterale Unilateral								
K			55°	N*	da +/- 0.08 a +/- 0.2	da +/- 0.05 a +/- 0.15	+/- 0.025	Q		Nessuno None								
H		Esagonale Hexagonal	120°					U*	da +/- 0.13 a +/- 0.38	da +/- 0.08 a +/- 0.25	+/- 0.13	U		Foro dritto con svatura Straight hole with chamfer (40°-60°)		Bilaterale Bilateral		
O		Ottagonale Octagonal	135°					Altezza "m" su tagliente affilato Height on cutting edge "m"				C			Foro dritto con svatura Straight hole with chamfer (70°-90°)		Nessuno None	
P		Pentagonale Pentagonal	108°					(*) Varia in funzione della dimensione di IC Variable - depending on IC Vedere tabella sotto riportata See chart below				J		Bilaterale Bilateral				
L		Rettangolare Rectangular	90°					IC (mm)	M	U								
M		Rombico Rhombic	86°					3.97	+/- 0.05	+/- 0.08								
							5.0											
							5.56											
							6.0											
							6.35											
							8.0											
							9.525											
							10.0											
							12	+/- 0.08	+/- 0.13									
							12.7											
							15.875											
							16.0	+/- 0.10	+/- 0.18									
							19.05											
							20.0											
							25.0	+/- 0.13	+/- 0.25									
							25.4											
							31.75	+/- 0.15	+/- 0.25									
							32											

IDENTIFICAZIONE INSERTI ISO1832 | INSERTS DESIGNATION ISO1832

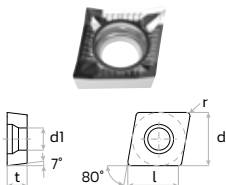
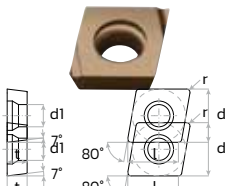
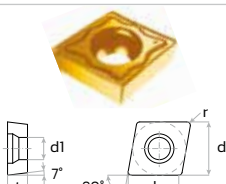
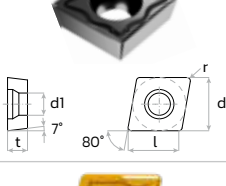
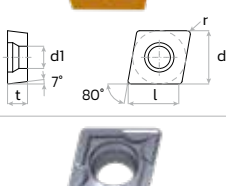
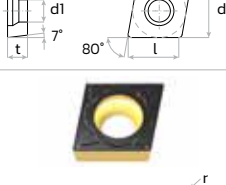


Forma Shape	ISO	Tagliente Cutter	IC	Forma Shape	ISO	Tagliente Cutter	IC	Forma Shape	ISO	Tagliente Cutter	IC
	06	6.4	6.35		07	7.7	6.35		03	3.8	5.56
	08	8.0	6.35		11	11.6	9.525		04	4.3	6.35
	09	9.7	6.35		15	15.5	12.7		05	5.4	7.94
	12	12.9	6.35		19	19.4	15.875		06	6.5	9.525
	16	16.1	6.35		09	9.7	5.56		08	8.7	12.7
	19	19.3	6.35		11	11.1	6.35		10	10.9	15.875
	06	6.35	6.35		16	16.6	9.525		08	8.0	8.0
	S7	7.14	7.14		06	6.9	3.97		10	10	10
	07	7.94	7.94		08	8.2	4.76		12	12	12
	09	9.525	9.525		09	9.6	5.56		12	12.7	12.7
	12	12.7	12.7		11	11	6.35		15	15.875	15.875
	15	15.875	15.875		16	16.5	9.525		16	16	16
	19	19.05	19.05		22	22	12.7		19	19.05	19.05
	25	25.4	25.4		27	27.5	15.875		25	25	25
	31	31.75	31.75		33	33	19.05		25	25.4	25.4

ISO	Spessore Thickness (mm)
01	1.59
02	2.38
T3	2.78
03	3.18
T3	3.97
04	4.76
06	6.35
07	7.94
09	9.52
	

ISO	Raggio Ray (mm)
00	Tagliente affilato / Shaped cutter
01	0.1
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
24	2.4
32	3.2
MO	Inserto tondo / Round insert (metric-metric)
OO	Inserto tondo / Round insert (pollici-inches)

TORNITURA | TURNING
inserti positivi | positive insert

	ARTICOLO	DIMENSIONI - DIMENSIONS					HP1502	HM2510	HM3001	HM3055	HK1005	HK1511	HK2511	HN10	HC1510	HC10
		l	d	t	r	d1										
	CCGT 060204-AL	6,5	6,35	2,38	0,4	2,8										
	09T304-AL	9,7	9,525	3,97	0,4	4,4										
	09T308-AL	9,7	9,525	3,97	0,8	4,4										
	120404-AL	12,9	12,7	4,76	0,4	5,5										
	120408-AL	12,9	12,7	4,76	0,8	5,5										
	CCGT 040102-RS	4,1	4,3	1,8	0,2	2,3										
	040104-RS	4,1	4,3	1,8	0,4	2,3										
	060202-L	6,5	6,35	2,38	0,2	2,8										
	060204-L	6,5	6,35	2,38	0,4	2,8										
	09T304-L	9,7	9,525	3,97	0,4	4,4										
	09T308-L	9,7	9,525	3,97	0,8	4,4										
	060204-R	6,5	6,35	2,38	0,4	2,8										
	09T304-R	9,7	9,525	3,97	0,4	4,4										
	CCMT 060204-6GH	6,5	6,35	2,38	0,4	0,4										
	09T304-6GH	9,7	9,525	3,97	0,4	0,4										
	09T308-6GH	9,7	9,525	3,9	0,8	0,8										
	CCMT 060204-SN	6,5	6,35	2,38	0,4	2,8										
	09T304-SN	9,7	9,525	3,97	0,4	4,4										
	09T308-SN	9,7	9,525	3,97	0,8	4,4										
	120404-SN	12,9	12,7	4,76	0,4	5,5										
	120408-SN	12,9	12,7	4,76	0,8	5,5										
	CCMT 120404-4NV	12,9	12,7	4,76	0,4	5,5										
	CCMT 060204-NY	6,5	6,35	2,38	0,4	2,8										
	09T304-NY	9,7	9,525	3,97	0,4	4,4										
	09T308-NY	9,7	9,525	3,97	0,8	4,4										
	CCMT 060204-NE	6,5	6,35	2,38	0,4	2,8										
	09T304-NE	9,7	9,525	3,97	0,4	4,4										
	09T308-NE	9,7	9,525	3,97	0,8	4,4										
	120404-NE	12,9	12,7	4,76	0,4	5,5										
	120408-NE	12,9	12,7	4,76	0,8	5,5										

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

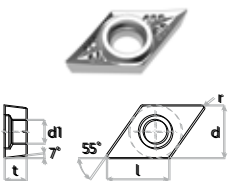
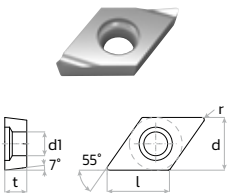
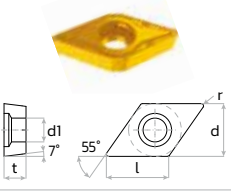
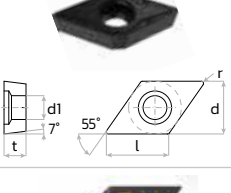
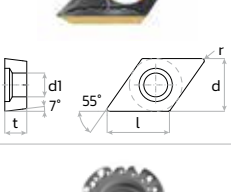
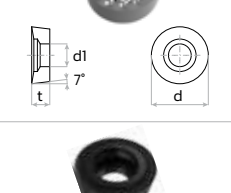
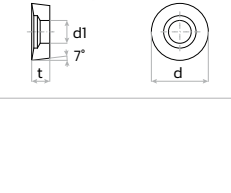
K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA | TURNING

inserti positivi | positive insert

ARTICOLO	DIMENSIONI - DIMENSIONS					HP1502	HM2510	HM3001	HM3055	HK1005	HK1511	HK2511	HN10	HC1510	HC10
	l	d	t	r	d1										
	DCGT 070204-AL	7,8	6,35	2,38	0,4	2,8									
	11T304-AL	11,6	9,525	3,97	0,4	4,4									
	11T308-AL	11,6	9,525	3,97	0,7	4,4									
	DCGT 070202-L	7,8	6,35	2,38	0,2	2,8									
	070204-L	7,8	6,35	2,38	0,4	2,8									
	11T304-L	11,6	9,525	3,97	0,4	4,4									
	11T308-L	11,6	9,525	3,97	0,7	4,4									
	070204-R	7,8	6,35	2,38	0,4	2,8									
	11T304-R	11,6	9,525	3,97	0,4	4,4									
	DCMT 070204-6GH	7,8	6,35	2,38	0,4	2,8									
	11T304-6GH	11,6	9,525	3,97	0,4	4,4									
	11T308-6GH	11,6	9,525	3,97	0,8	4,4									
	DCMT 11T304-SN	11,6	9,525	3,97	0,4	4,4									
	11T308-SN	11,6	9,525	3,97	0,8	4,4									
	DCMT 070204-NE	7,8	6,35	2,38	0,4	2,8									
	11T304-NE	11,6	9,525	3,97	0,4	4,4									
	11T308-NE	11,6	9,525	3,97	0,8	4,4									
	RCGT 0602M0-AL	-	6,0	2,38	-	2,2									
	0803M0-AL	-	8,0	3,18	-	3,35									
	10T3M0-AL	-	10,0	3,97	-	4,4									
	1204M0-AL	-	12,0	4,76	-	4,4									
	RCMT 0602M0E-VS	-	6,0	2,38	-	2,2									
	0803M0E-VS	-	8,0	3,18	-	3,35									
	10T3M0E-VS	-	10,0	3,97	-	4,4									
	1204M0E-VS	-	12,0	4,76	-	4,4									

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

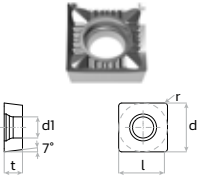
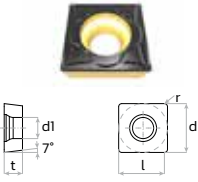
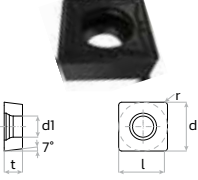
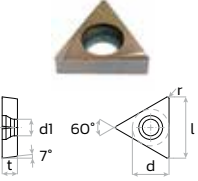
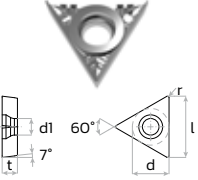
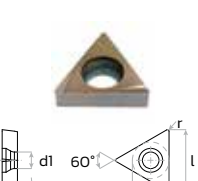
K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA | TURNING

inserti positivi | positive insert

ARTICOLO	DIMENSIONI - DIMENSIONS						HP1502	HM2510	HM3001	HM3055	HK1005	HK1511	HK2511	HN10	HC1510	HC10
	l	d	t	r	d1											
 SCGT 09T304-AL 09T308-AL 120404-AL 120408-AL	9,525	9,525	3,97	0,4	4,4											
	9,525	9,525	3,97	0,8	4,4											
	12,7	12,7	4,76	0,4	5,5											
	12,7	12,7	4,76	0,8	5,5											
 SCMT 09T308-NE 120408-NE	9,525	9,525	3,97	0,8	4,4											
	12,7	12,7	4,76	0,8	5,5											
 SCMT 09T308-SN 120408-SN	9,525	9,525	3,97	0,8	4,4											
	12,7	12,7	4,76	0,8	5,5											
 TBGT 060102-L 060102-R 060104-L 060104-R	6,8	3,97	1,59	0,2	2,16											
	6,8	3,97	1,59	0,2	2,16											
	6,8	3,97	1,59	0,4	2,16											
	6,8	3,97	1,59	0,4	2,16											
 TCGT 090202-AL 090204-AL 110204-AL 16T304-AL 16T308-AL	9,6	5,56	2,38	0,2	2,5											
	9,6	5,56	2,38	0,4	2,5											
	11,0	6,35	2,38	0,4	2,8											
	16,5	9,525	3,97	0,4	4,4											
	16,5	9,525	3,97	0,8	4,4											
 TCGT 090204-L 110204-L 16T304-L 16T308-L 090204-R 110204-R 16T304-R	9,6	5,56	2,38	0,4	2,5											
	11,0	6,35	2,38	0,4	2,8											
	16,5	9,525	3,97	0,4	4,4											
	16,5	9,525	3,97	0,8	4,4											
	9,6	5,56	2,38	0,4	2,5											
	11,0	6,35	2,38	0,4	2,8											
	16,5	9,525	3,97	0,4	4,4											
	16,5	9,525	3,97	0,4	4,4											
 TCMT 110204-6GH 16T304-6GH 16T308-6GH	11	6,35	2,38	0,4	2,8											
	16,5	9,525	3,97	0,4	4,4											
	16,5	9,525	3,97	0,8	4,4											

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

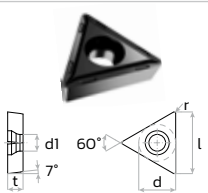
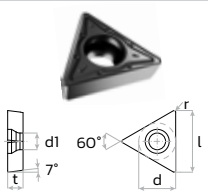
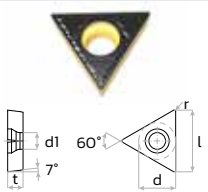
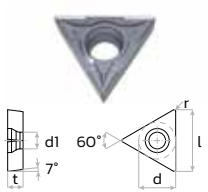
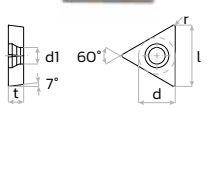
K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA | TURNING

inserti positivi | positive insert

ARTICOLO	DIMENSIONI - DIMENSIONS					HP1502	HM2510	HM3001	HM3055	HK1005	HK1511	HK2511	HN10	HC1510	HC10
	l	d	t	r	d1										
 TCMT 090204-GG3 110204-GG3 16T304-GG3	9,6	5,56	2,38	0,4	2,5										
	11,0	6,35	2,38	0,4	2,8										
	16,5	9,525	3,97	0,4	4,4										
 TCMT 16T308-SN 16T312-SN	16,5	9,525	3,97	0,8	4,4										
	16,5	9,525	3,97	1,2	4,4										
 TCMT 110204-NE 16T304-NE 16T308-NE	11,0	6,35	2,38	0,4	2,8										
	16,5	9,525	3,97	0,4	4,4										
	16,5	9,525	3,97	0,8	4,4										
 TCMT 06T104-NY 110204-NY 16T304-NY 16T308-NY	6,9	3,97	1,98	0,4	2,2										
	11,0	6,35	2,38	0,4	2,8										
	16,5	9,525	3,97	0,4	4,4										
	16,5	9,525	3,97	0,8	4,4										
 TPGT 080202-L 080204-L 090204-L 110304-L 110308-L 160304-L 080202-R 080204-R 090204-R 110304-R 110308-R 160304-R	8,2	4,76	2,38	0,2	2,3										
	8,2	4,76	2,38	0,4	2,3										
	9,6	5,56	2,38	0,4	3										
	11	6,35	3,18	0,4	3,5										
	11	6,35	3,18	0,8	3,5										
	16,5	9,525	3,18	0,4	4,5										
	8,2	4,76	2,38	0,2	2,3										
	8,2	4,76	2,38	0,4	2,3										
	9,6	5,56	2,38	0,4	3										
	11	6,35	3,18	0,4	3,5										
	11	6,35	3,18	0,8	3,5										
	16,5	9,525	3,18	0,4	4,5										
 TPMT 090204-3QT 110304-3QT	9,6	5,56	2,38	0,4	3										
	11	6,35	3,18	0,4	3,5										

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

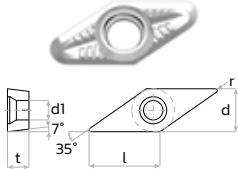
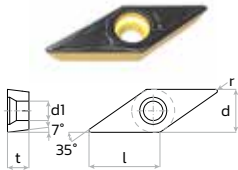
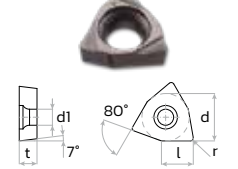
CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA | TURNING
inserti positivi | positive insert

ARTICOLO	DIMENSIONI - DIMENSIONS					HP1502	HM2510	HM3001	HM3055	HK1005	HK1511	HK2511	HN10	HC1510	HC10
	l	d	t	r	d1										
	VCGT 110304-AL	11,0	6,35	3,18	0,4	3,4									
	110308-AL	11,0	6,35	3,18	0,8	3,4									
	160404-AL	16,5	9,525	4,76	0,4	4,4									
	160408-AL	16,5	9,525	4,76	0,8	4,4									
	220530-AL	22,1	12,7	5,56	3,0	5,6									
	VCMT 110304-NE	11,0	6,35	3,18	0,4	3,4									
	160404-NE	16,5	9,525	4,76	0,4	4,4									
	160408-NE	16,5	9,525	4,76	0,8	4,4									
	WCGT 020102-L	3,6	3,97	1,59	0,2	2,2									
	020102-R	3,6	3,97	1,59	0,2	2,2									

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

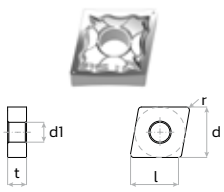
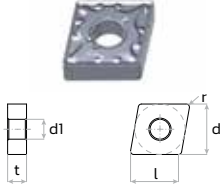
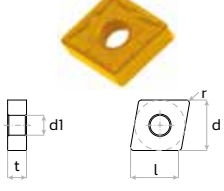
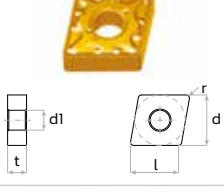
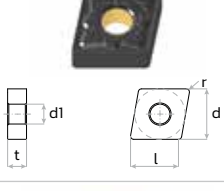
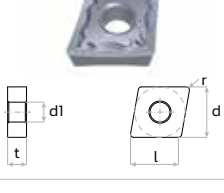
CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA | TURNING
inserti negativi | negative insert

ARTICOLO	DIMENSIONI - DIMENSIONS					HP1502	HP2011	HP2502	HM2510	HM3054	HK1511	HK2011	HN10	HC1510
	l	d	t	r	d1									
 CNGG 120404-AL 120408-AL	12,9	12,7	4,76	0,4	5,16									
	12,9	12,7	4,76	0,8	5,16									
 CNMG 120404-NB 120408-NB	12,9	12,7	4,76	0,4	5,16									
	12,9	12,7	4,76	0,8	5,16									
 CNMG 120404-NT 120408-NT	12,9	12,7	4,76	0,4	5,16									
	12,9	12,7	4,76	0,8	5,16									
 CNMG 120408-GR	12,9	12,7	4,76	1,2	5,16									
 CNMG 120408-HI 120412-HI	12,9	12,7	4,76	0,8	5,16									
	12,9	12,7	4,76	1,2	5,16									
 CNMG 120404-IB 120408-IB	12,9	12,7	4,76	0,4	5,16									
	12,9	12,7	4,76	0,8	5,16									

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

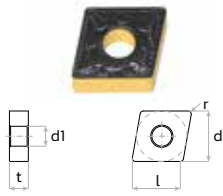
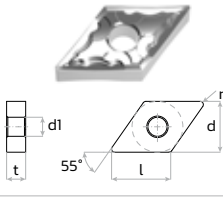
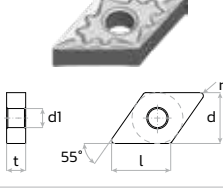
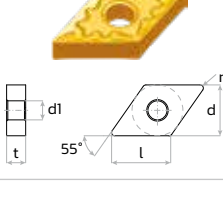
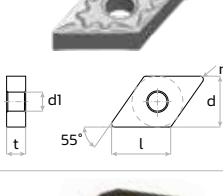
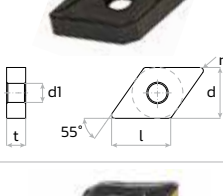
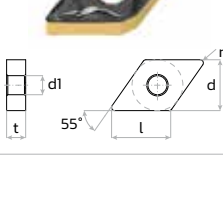
CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA | TURNING
inserti negativi | negative insert

ARTICOLO	DIMENSIONI - DIMENSIONS					HP1502	HP2011	HP2502	HM2510	HM3054	HK1511	HK2011	HN10	HC1510
	l	d	t	r	d1									
 CNMG 120404-NE 120408-NE	12,9	12,7	4,76	0,4	5,16									
	12,9	12,7	4,76	0,8	5,16									
 DNGG 150604-AL 150608-AL	15,5	12,7	6,35	0,4	5,16									
	15,5	12,7	6,35	0,8	5,16									
 DNMG 150604-NB 150608-NB	15,5	12,7	6,35	0,4	5,16									
	15,5	12,7	6,35	0,8	5,16									
 DNMG 150604-GR 150608-GR	15,5	12,7	6,35	0,4	5,16									
	15,5	12,7	6,35	0,8	5,16									
 DNMG 150608-IT	15,5	12,7	6,35	0,8	5,16									
 DNMG 150608-FN	15,5	12,7	6,35	0,8	5,16									
 DNMG 150604-NE 150608-NE	15,5	12,7	6,35	0,4	5,16									
	15,5	12,7	6,35	0,8	5,16									

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

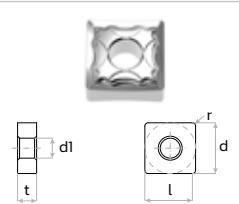
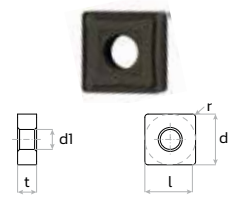
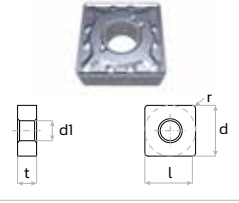
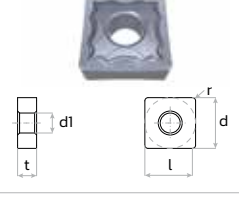
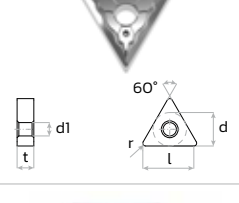
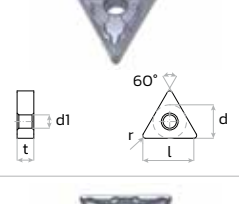
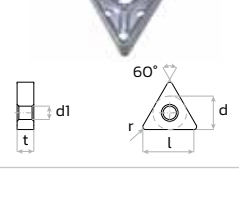
CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA | TURNING
inserti negativi | negative insert

	ARTICOLO	DIMENSIONI - DIMENSIONS					HP1502	HP2011	HP2502	HM2510	HM3054	HK1511	HK2011	HN10	HC1510
		l	d	t	r	d1									
	SNGG 120408-AL	12,7	12,7	4,76	0,8	5,16									
	SNMG 120408-FN	12,7	12,7	4,76	0,8	5,16									
	SNMG 120408-NB	12,7	12,7	4,76	0,8	5,16									
	SNMG 120408-IB	12,7	12,7	4,76	0,8	5,16									
	TNMG 160404-AL	15,5	9,525	4,76	0,4	3,81									
	160408-AL	14,5	9,525	4,76	0,8	3,81									
	TNMG 160408-IB	14,5	9,525	4,76	0,8	3,81									
	TNMG 160404-NB	15,5	9,525	4,76	0,4	3,81									
	160408-NB	14,5	9,525	4,76	0,8	3,81									

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

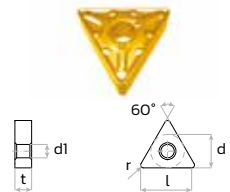
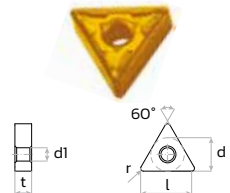
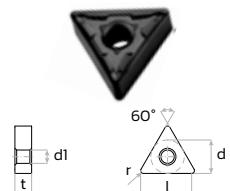
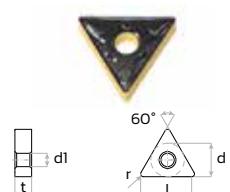
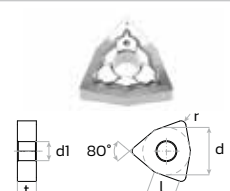
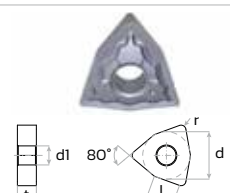
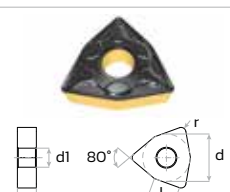
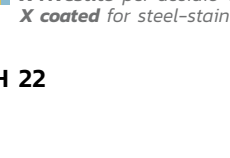
CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA | TURNING
inserti negativi | negative insert

ARTICOLO	DIMENSIONI - DIMENSIONS					HP1502	HP2011	HP2502	HM2510	HM3054	HK1511	HK2011	HN10	HC1510
	l	d	t	r	d1									
 TNMG 160408-GR	14,5	9,525	4,76	0,8	3,81									
 TNMG 160404-NT	14,5	9,525	4,76	0,4	3,81									
 TNMG 160408-NT	14,5	9,525	4,76	0,8	3,81									
 TNMG 160408-FN	14,5	9,525	4,76	0,8	3,81									
 220408-FN	20,0	12,7	4,76	0,8	5,16									
 TNMG 160404-NE	15,5	9,525	4,76	0,4	3,81									
 160408-NE	14,5	9,525	4,76	0,8	3,81									
 WNGG 080404-AL	8,7	12,7	4,76	0,4	5,16									
 080408-AL	8,7	12,7	4,76	0,8	5,16									
 WNMG 080404-NB	8,7	12,7	4,76	0,4	5,16									
 080408-NB	8,7	12,7	4,76	0,8	5,16									
 WNMG 080404-NE	8,7	12,7	4,76	0,4	5,16									
 080408-NE	8,7	12,7	4,76	0,8	5,16									

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

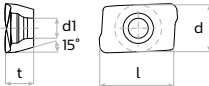
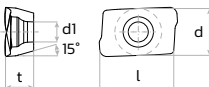
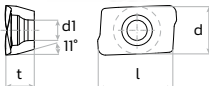
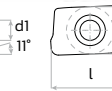
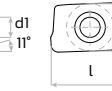
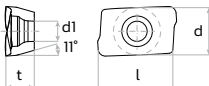
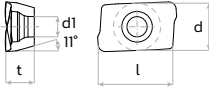
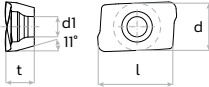
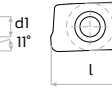
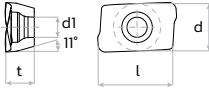
CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

SERTI
SERTS
$$\frac{z}{z^2 + 1}$$

100

FRESATURA | MILLING

ARTICOLO	DIMENSIONI - DIMENSIONS						HP1015	HP2506	HP2559	HP2560	HP3001	HP3051	HP3056	HX2510	HX3510	HM3101	HM4060	HM4061	HN10	HK1006	HC1510
	l	d	t	r	d1	a															
 	ADGT 1505 PDFR	15,0	9,525	5,6	0,8	4,5															
 	ADKT 1505 PDR	15,0	9,525	5,6	0,8	4,5															
 	APKT 1003 PDSR-41	10,5	6,7	3,5	0,5	2,85															
 	1604 PDSR-41	16,4	9,525	4,76	0,8	4,4															
 	APKT 1003 PDER-M	10,5	6,7	3,5	0,5	2,85															
 	1604 PDER-M	16,4	9,525	4,76	0,8	4,4															
 	APTG 1604 PDFR-AL	16,4	9,525	4,76	0,4	4,4															
 	APTG 1003 PDER-AL	11	6,7	3,5	0,4	2,85															
 	12T3 PDFR-AL	11,3	6,2	3,5	0,8	2,85															
 	1604 PDFR-AL2	16,4	9,525	4,76	0,8	4,4															
 	APLT 12T3 PDER-N3	11,2	6,2	3,5	0,8	2,85															

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

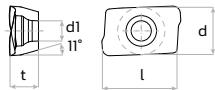
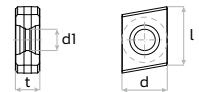
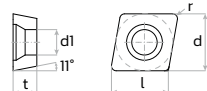
CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FRESATURA | MILLING

ARTICOLO		DIMENSIONI - DIMENSIONS						HP1015	HP2506	HP2559	HP2560	HP3001	HP3051	HP3056	HX2510	HX3510	HM3101	HM4060	HM4061	HN10	HK1006	HC1510
		l	d	t	r	d1	a															
		APKT 1604 PDTR-MNOB	16,4	9,525	4,76	0,8	4,4															
		CNEU 1205	12,5	10	5,4		4,4															
		CNEX 1205	12,5	10	5,4		4,4															
		CPMT 05T104-EN	5,6	5,56	1,98	0,4	2,5															
		MPFW 0402 PPTR	4,76	4,76	2,38		2,4															
		0402 PPTL	4,76	4,76	2,38		2,4															
		ODMT 0605 ZZN	6,5	15,87	5,56		5,5															
		RPET 1505 MOS-M		15,78	5,56		5,5															
																						

MATERIALI | MATERIALS

 **P rivestito** per acciaio
P coated for steel

 **M rivestito** per acciaio-acciaio inossidabile
M coated for steel-stainless steel

 **X rivestito** per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

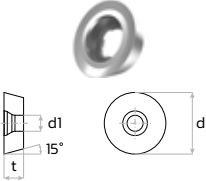
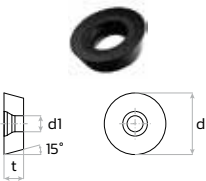
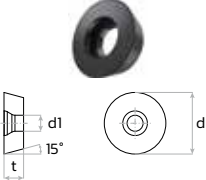
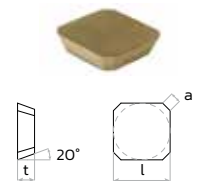
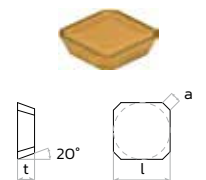
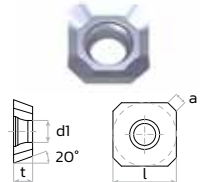
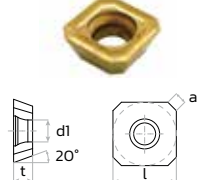
 **CERMET nudo**: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

 **K rivestito** per ghisa
K coated for cast iron

 **CERMET rivestito** per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

 **N nudo** per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FRESATURA | MILLING

	ARTICOLO	DIMENSIONI - DIMENSIONS						HP1015	HP2506	HP2559	HP2560	HP3001	HP3051	HP3056	HX2510	HX3510	HM3101	HM4060	HM4061	HN10	HK1006	HC1510
		l	d	t	r	d1	a															
	RDHT 0702 M0-FA		7	2,38		2,8																
	1003 M0-FA		10	3,18		3,9																
	12T3 M0-FA		12	3,97		3,9																
	1604 M0-FA		16	4,76		5,2																
	RDGT 0702 MOT		7	2,38		2,8																
	1003 MOT		10	3,18		3,9																
	12T3 MOT		12	3,97		3,9																
	1604 MOT		16	4,76		5,2																
	RDHX 0702 MOT		7	2,38		2,8																
	1003 MOT		10	3,18		3,9																
	12T3 MOT		12	3,97		3,9																
	1604 MOT		16	4,76		5,2																
	SEEN 1203 AFFN	12,7	12,7	3,18			2,3															
	SEKR 1203 AFTN	12,7	12,7	3,18			2,3															
	SEGT 1204 AFFN-AL	12,7	12,7	4,76		5,5	3															
	SEKT 1204 AFSN	12,7	12,7	4,76		5,5	3															

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

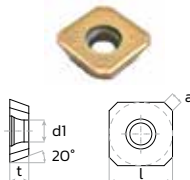
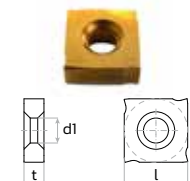
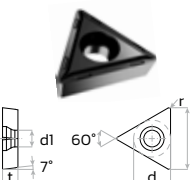
CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FRESATURA | MILLING

ARTICOLO	DIMENSIONI - DIMENSIONS						HP1015	HP2506	HP2559	HP2560	HP3001	HP3051	HP3056	HX2510	HX3510	HM3101	HM4060	HM4061	HN10	HK1006	HC1510
	l	d	t	r	d1	a															
	SEMT 13T3 AEFN	13,4	13,4	3,97		4,2	2,5														
	SNHX 1102	11		2,3		4,3															
	1103	11		2,7		4,3															
	1203	12,7		3,18		4,8															
	1204	12,7		4		4,8															
	1245	12,7		4,5		4,8															
	1205	12,7		5,4		4,8															
	1207	12,7		7		4,8															
	TCMX 16T3	16,5	9,525	3,97	0,8	4,4															

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

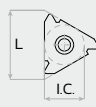
K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FILETTATURA | THREADING

IDENTIFICAZIONE INSERTO TORNITURA FILETTI | THREAD TURNING INSERTS CODES

	16	E	R		1.0	ISO	HP2052								
M = Maggiorato / Plus		E = Esterno / External I = Interno / Internal	R = Destro / Right	X = Rompitruciolo / Chip-breaker	Passo / Pitch in millimetri o filetti per pollice In mm or threads per inch	Profilo / Profiles ISO W = Whitworth	Rivestimento / Coating HP1551 Acciai legati HP2052 Generico HM3053 Inox HP1551 Alloy steel HP2052 Generic HM3053 Inox								
	<table><tr><th>L</th><th>I.C.</th></tr><tr><td>11</td><td>1/4"</td></tr><tr><td>16</td><td>3/8"</td></tr><tr><td>22</td><td>1/2"</td></tr></table>	L	I.C.	11	1/4"	16	3/8"	22	1/2"						
L	I.C.														
11	1/4"														
16	3/8"														
22	1/2"														

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

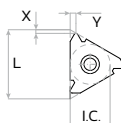
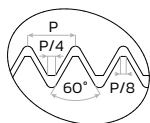
CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

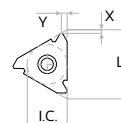
FILETTATURA | THREADING

profilo parziale 60° | partial thread 60°

esterno | external



interno | internal



L	I.C.	PASSO PITCH	TPI
11	1/4	0,5-1,5	48-16
		0,5-1,5	48-16
16	3/8	1,75-3,0	14-8
		0,5-3,0	48-8
22	1/2	3,5-5,0	7-5

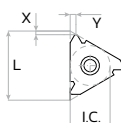
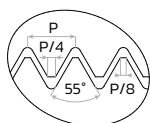
ISO	DIMENSIONS		HP1551
	X	Y	
11 ER A60	0,8	0,9	
16 ER A60	0,8	0,9	
16 ER G60	1,2	1,7	
16 ER AG60	1,2	1,7	
22 ER N60	1,7	2,5	

ISO	DIMENSIONS		HP1551
	X	Y	
11 IR A60	0,8	0,9	
16 IR A60	0,8	0,9	
16 IR G60	1,2	1,7	
16 IR AG60	1,2	1,7	
22 IR N60	1,7	2,5	

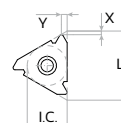
FILETTATURA | THREADING

profilo parziale 55° | partial thread 55°

esterno | external



interno | internal



L	I.C.	PASSO PITCH	TPI
11	1/4	0,5-1,5	48-16
16	3/8	0,5-3,0	48-8
22	1/2	3,5-5,0	7-5

ISO	DIMENSIONS		HP1551
	X	Y	
11 ER A55	0,8	0,9	
16 ER AG55	1,2	1,7	
22 ER N55	1,7	2,5	

ISO	DIMENSIONS		HP1551
	X	Y	
11 IR A55	0,8	0,9	
16 IR AG55	1,2	1,7	
22 IR N55	1,7	2,5	

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

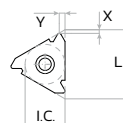
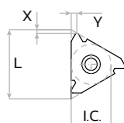
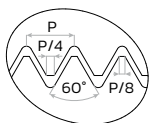
N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FILETTATURA | THREADING

ISO metrica | ISO metric

esterno | external

interno | internal



L	I.C.	PASSO PITCH	ISO	DIMENSIONS		HP1551	HP2052	HM3052	ISO	DIMENSIONS		HP1551	HP2052	HM3052
				X	Y					X	Y			
11	1/4	0,35	11 ER 0,35 ISO	0,8	0,4				11 IR 0,35 ISO	0,8	0,3			
		0,4	11 ER 0,4 ISO	0,7	0,4				11 IR 0,4 ISO	0,8	0,4			
		0,45	11 ER 0,45 ISO	0,7	0,4				11 IR 0,45 ISO	0,8	0,4			
		0,5	11 ER 0,5 ISO	0,6	0,6				11 IR 0,5 ISO	0,6	0,6			
		0,6	11 ER 0,6 ISO	0,6	0,6				11 IR 0,6 ISO	0,6	0,6			
		0,7	11 ER 0,7 ISO	0,6	0,6				11 IR 0,7 ISO	0,6	0,6			
		0,75	11 ER 0,75 ISO	0,6	0,6				11 IR 0,75 ISO	0,6	0,6			
		0,8	11 ER 0,8 ISO	0,6	0,6				11 IR 0,8 ISO	0,6	0,6			
		1,0	11 ER 1,0 ISO	0,7	0,7				11 IR 1,0 ISO	0,6	0,7			
		1,25	11 ER 1,25 ISO	0,8	0,9				11 IR 1,25 ISO	0,8	0,8			
		1,5	11 ER 1,5 ISO	0,8	1,0				11 IR 1,5 ISO	0,8	1,0			
		1,75	11 ER 1,75 ISO	0,8	1,1				11 IR 1,75 ISO	0,8	1,1			
		2,0	-	-	-				11 IR 2,0 ISO	0,8	0,9			
		2,5	-	-	-				11 IR 2,5 ISO	0,8	1,2			
16	3/8	0,35	16 ER 0,35 ISO	0,8	0,4				16 IR 0,35 ISO	0,8	0,3			
		0,4	16 ER 0,4 ISO	0,7	0,4				16 IR 0,4 ISO	0,8	0,4			
		0,45	16 ER 0,45 ISO	0,7	0,4				16 IR 0,45 ISO	0,8	0,4			
		0,5	16 ER 0,5 ISO	0,6	0,6				16 IR 0,5 ISO	0,6	0,6			
		0,6	16 ER 0,6 ISO	0,6	0,6				16 IR 0,6 ISO	0,6	0,6			
		0,7	16 ER 0,7 ISO	0,6	0,6				16 IR 0,7 ISO	0,6	0,6			
		0,75	16 ER 0,75 ISO	0,6	0,6				16 IR 0,75 ISO	0,6	0,6			
		0,8	16 ER 0,8 ISO	0,6	0,6				16 IR 0,8 ISO	0,6	0,6			
		1,0	16 ER 1,0 ISO	0,7	0,7				16 IR 1,0 ISO	0,6	0,7			
		1,25	16 ER 1,25 ISO	0,8	0,9				16 IR 1,25 ISO	0,8	0,9			
		1,5	16 ER 1,5 ISO	0,8	1,0				16 IR 1,5 ISO	0,8	1,0			
		1,75	16 ER 1,75 ISO	0,9	1,2				16 IR 1,75 ISO	0,9	1,2			
		2,0	16 ER 2,0 ISO	1,0	1,3				16 IR 2,0 ISO	1,0	1,3			
		2,5	16 ER 2,5 ISO	1,1	1,5				16 IR 2,5 ISO	1,1	1,5			
		3,0	16 ER 3,0 ISO	1,2	1,6				16 IR 3,0 ISO	1,1	1,5			
		3,5	16 ER 3,5 ISO	1,2	1,7				16 IR 3,5 ISO	1,2	1,7			
22	1/2	3,5	22 ER 3,5 ISO	1,6	2,3				22 IR 3,5 ISO	1,6	2,3			
		4,0	22 ER 4,0 ISO	1,6	2,3				22 IR 4,0 ISO	1,6	2,3			
		4,5	22 ER 4,5 ISO	1,7	2,4				22 IR 4,5 ISO	1,6	2,4			
		5,0	22 ER 5,0 ISO	1,7	2,5				22 IR 5,0 ISO	1,6	2,3			

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

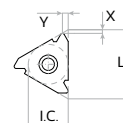
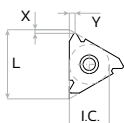
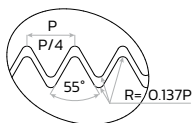
N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FILETTATURA | THREADING

whitworth 55° | whitworth 55°

esterno | external

interno | internal



L	I.C.	PASSO PITCH	ISO	DIMENSIONS		HP1551	HP2052	HM3052
				X	Y			
11	1/4	72	11 ER 72 W	0,7	0,4			
		60	11 ER 60 W	0,7	0,4			
		56	11 ER 56 W	0,7	0,4			
		48	11 ER 48 W	0,6	0,6			
		40	11 ER 40 W	0,6	0,6			
		36	11 ER 36 W	0,6	0,6			
		32	11 ER 32 W	0,6	0,6			
		28	11 ER 28 W	0,6	0,7			
		26	11 ER 26 W	0,7	0,7			
		24	11 ER 24 W	0,7	0,8			
		22	11 ER 22 W	0,8	0,9			
		20	11 ER 20 W	0,8	0,9			
		19	11 ER 19 W	0,8	1,0			
		18	11 ER 18 W	0,8	1,0			
		16	11 ER 16 W	0,9	1,1			
		14	11 ER 14 W	0,9	1,1			
		12	11 ER 12 W	1,0	1,1			
		11	11 ER 11 W	0,9	1,2			
16	3/8	72	16 ER 72 W	0,7	0,4			
		60	16 ER 60 W	0,7	0,4			
		56	16 ER 56 W	0,7	0,4			
		48	16 ER 48 W	0,6	0,6			
		40	16 ER 40 W	0,6	0,6			
		36	16 ER 36 W	0,6	0,6			
		32	16 ER 32 W	0,6	0,6			
		28	16 ER 28 W	0,6	0,7			
		26	16 ER 26 W	0,7	0,7			
		24	16 ER 24 W	0,7	0,8			
		22	16 ER 22 W	0,8	0,9			
		20	16 ER 20 W	0,8	0,9			
		19	16 ER 19 W	0,8	1,0			
		18	16 ER 18 W	0,8	1,0			
		16	16 ER 16 W	0,9	1,1			
		14	16 ER 14 W	0,9	1,1			
		12	16 ER 12 W	1,0	1,1			
		11	16 ER 11 W	0,9	1,2			
		10	16 ER 10 W	1,1	1,5			
		9	16 ER 9 W	1,1	1,5			
		72	16 IR 72 W	0,7	0,4			
		60	16 IR 60 W	0,7	0,4			
		56	16 IR 56 W	0,7	0,4			
		48	16 IR 48 W	0,6	0,6			
		40	16 IR 40 W	0,6	0,6			
		36	16 IR 36 W	0,6	0,6			
		32	16 IR 32 W	0,6	0,6			
		28	16 IR 28 W	0,6	0,7			
		26	16 IR 26 W	0,7	0,7			
		24	16 IR 24 W	0,7	0,8			
		22	16 IR 22 W	0,8	0,9			
		20	16 IR 20 W	0,8	0,9			
		19	16 IR 19 W	0,8	1,0			
		18	16 IR 18 W	0,8	1,0			
		16	16 IR 16 W	0,9	1,1			
		14	16 IR 14 W	0,9	1,1			
		12	16 IR 12 W	1,0	1,1			
		11	16 IR 11 W	0,9	1,2			
		10	16 IR 10 W	1,1	1,5			
		9	16 IR 9 W	1,2	1,7			

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

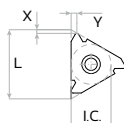
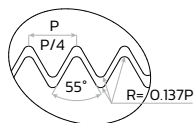
CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

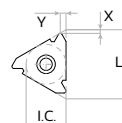
FILETTATURA | THREADING

whitworth 55° | whitworth 55°

esterno | external



interno | internal



L	I.C.	PASSO PITCH
16	3/8	8
22	1/2	7
		6
		5

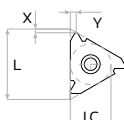
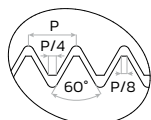
ISO	DIMENSIONS		HP1551	HP2052	HM3052
	X	Y			
16 ER 8 W	1,2	1,7			
22 ER 7 W	1,6	2,3			
22 ER 6 W	1,6	2,3			
22 ER 5 W	1,6	2,3			

ISO	DIMENSIONS		HP1551	HP2052	HM3052
	X	Y			
16 IR 8 W	1,2	1,5			
22 IR 7 W	1,6	2,3			
22 IR 6 W	1,6	2,3			
22 IR 5 W	1,7	2,4			

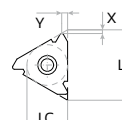
FILETTATURA | THREADING

ISO tipo M | ISO M type

esterno | external



interno | internal



L	I.C.	PASSO PITCH
16	3/8	0,5
		0,75
		1,0
		1,25
		1,5
		1,75
		2,0
		2,5
		3,0
22	1/2	3,5
		4,0
		4,5
		5,0
		5,5
		6,0

ISO	DIMENSIONS		HP1551	HP2052	HM3052
	X	Y			
M 16 ER 0,5 ISO	1,3	0,6			
M 16 ER 0,75 ISO	1,3	0,6			
M 16 ER 1,0 ISO	1,3	0,7			
M 16 ER 1,25 ISO	1,3	0,9			
M 16 ER 1,5 ISO	1,3	1,0			
M 16 ER 1,75 ISO	1,3	1,2			
M 16 ER 2,0 ISO	1,3	1,3			
M 16 ER 2,5 ISO	1,3	1,5			
M 16 ER 3,0 ISO	1,3	1,6			
M 22 ER 3,5 ISO	1,7	2,3			
M 22 ER 4,0 ISO	1,7	2,3			
M 22 ER 4,5 ISO	1,7	2,4			
M 22 ER 5,0 ISO	1,4	2,5			
M 22 ER 5,5 ISO	1,1	2,6			
M 22 ER 6,0 ISO	0,9	2,7			

ISO	DIMENSIONS		HP1551	HP2052	HM3052
	X	Y			
M 16 IR 0,5 ISO	1,3	0,6			
M 16 IR 0,75 ISO	1,3	0,6			
M 16 IR 1,0 ISO	1,3	0,7			
M 16 IR 1,25 ISO	1,3	0,9			
M 16 IR 1,5 ISO	1,3	1,0			
M 16 IR 1,75 ISO	1,3	1,2			
M 16 IR 2,0 ISO	1,3	1,3			
M 16 IR 2,5 ISO	1,3	1,5			
M 16 IR 3,0 ISO	1,3	1,5			
M 22 IR 3,5 ISO	1,6	2,3			
M 22 IR 4,0 ISO	1,6	2,3			
M 22 IR 4,5 ISO	1,6	2,4			
M 22 IR 5,0 ISO	1,4	2,3			
M 22 IR 5,5 ISO	1,1	2,3			
M 22 IR 6,0 ISO	0,9	2,4			

L16 = H4.10
L22 = H5.76



NOTA:
Spessore maggiorato

NOTE:
Higher thickness

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

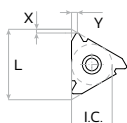
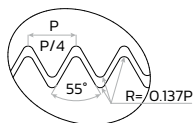
CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

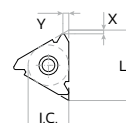
FILETTATURA | THREADING

whitworth tipo M | whitworth M type

esterno | external



interno | internal



L	I.C.	PASSO PITCH	ISO	DIMENSIONS		HP1551	HP2052	HM3052
				X	Y			
16	3/8	19	M 16 ER 19 W	1,3	1,0			
		16	M 16 ER 16 W	1,3	1,1			
		14	M 16 ER 14 W	1,3	1,2			
		11	M 16 ER 11 W	1,3	1,5			
		10	M 16 ER 10 W	1,3	1,5			
22	1/2	7	M 22 ER 7 W	1,7	2,3			
		6	M 22 ER 6 W	1,7	2,3			
		5	M 22 ER 5 W	1,4	2,4			
		4,5	M 22 ER 4,5 W	1,6	2,6			
		4	M 22 ER 4 W	0,6	2,9			

L16 = H4.10
L22 = H5.76



NOTA:
Spessore maggiorato

NOTE:
Higher thickness

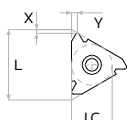
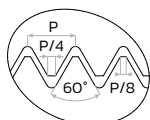
ISO	DIMENSIONS		HP1551	HP2052	HM3052
	X	Y			
M 16 IR 19 W	1,3	1,0			
M 16 IR 16 W	1,3	1,1			
M 16 IR 14 W	1,3	1,2			
M 16 IR 11 W	1,3	1,5			
M 16 IR 10 W	1,3	1,5			
M 22 IR 7 W	1,6	2,3			
M 22 IR 6 W	1,6	2,3			
M 22 IR 5 W	1,4	2,4			
M 22 IR 4,5 W	1,0	2,6			
M 22 IR 4 W	0,7	2,8			

FILETTATURA | THREADING

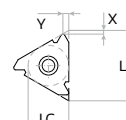
ISO tipo X | ISO X type

inserto con rompitrucciolo sinterizzato | sintered chip-breaker

esterno | external



interno | internal



L	I.C.	PASSO PITCH	ISO	DIMENSIONS		HP1551	HP2052	HM3052
				X	Y			
16	3/8	0,8	16 ERX 0,8 ISO	0,6	0,6			
		1,0	16 ERX 1,0 ISO	0,7	0,7			
		1,25	16 ERX 1,25 ISO	0,8	0,9			
		1,5	16 ERX 1,5 ISO	0,8	1,0			
		1,75	16 ERX 1,75 ISO	0,9	1,2			
		2,0	16 ERX 2,0 ISO	1,0	1,3			
		2,5	16 ERX 2,5 ISO	1,1	1,5			
		3,0	16 ERX 3,0 ISO	1,2	1,6			

ISO	DIMENSIONS		HP1551	HP2052	HM3052
	X	Y			
-	-	-			
16 IRX 1,0 ISO	0,7	0,7			
16 IRX 1,25 ISO	0,8	0,9			
16 IRX 1,5 ISO	0,8	1,0			
16 IRX 1,75 ISO	0,9	1,2			
16 IRX 2,0 ISO	1,0	1,3			
16 IRX 2,5 ISO	1,1	1,5			
16 IRX 3,0 ISO	1,2	1,6			

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-inossidabile-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

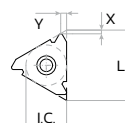
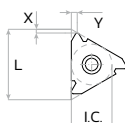
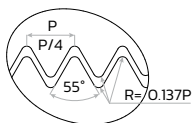
FILETTATURA | THREADING

whitworth tipo X | whitworth X type

inserto con rompitruciolo X sinterizzato | insert with sinthered chip-breaker X

esterno | external

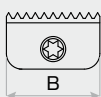
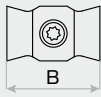
interno | internal



L	I.C.	PASSO PITCH	ISO	DIMENSIONS		HP1551	HP2052	HM3052	ISO	DIMENSIONS		HP1551	HP2052	HM3052
				X	Y					X	Y			
16	3/8	19	16 ERX 19 W	0,8	1,0				16 IRX 19 W	0,8	1,0			
		16	16 ERX 16 W	0,9	1,1				16 IRX 16 W	0,9	1,1			
		14	16 ERX 14 W	1,0	1,2				16 IRX 14 W	1,0	1,2			
		11	16 ERX 11 W	1,1	1,5				16 IRX 11 W	1,1	1,5			
		10	16 ERX 10 W	1,1	1,5				16 IRX 10 W	1,1	1,5			

FRESATURA FILETTI | THREAD MILLING

IDENTIFICAZIONE INSERTO FRESATURA FILETTI | MILL-THREAD INSERTS CODES

TM	30	E	2.0	ISO	HP2551
		E = Esterno / External I = Interno / Internal - = Ext + Int	Passo / Pitch in millimetri o filetti per pollice in mm or Threads per inch	Profilo / Profiles ISO W = Whitworth	Rivestimento / Coating HP2551 generico / generic
	14 21 30 40				
TM	G1	I	1,5 - 2,5	ISO	HP2551
		I = Interno / Internal	Passo / Pitch in millimetri o filetti per pollice in mm or Threads per inch	Profilo / Profiles ISO W = Whitworth	Rivestimento / Coating HP2551 generico / generic
	G1 G2 G3				

AVANZAMENTO PEZZO DA IMPOSTARE PER FRESATURA FILETTATA PIECE FEEDING SETTING FOR THREADING MILLING

$$Vf_1 = \frac{Vf \times (D-d)}{D} = (\text{mm/min})$$

LEGENDA - LEGEND

Vf_1	Avanzamento pezzo a centro fresa - Piece feeding on mill center (mm/min)
Vf	Avanzamento pezzo - piece feeding (mm/min)
D	Diametro del componente da filettare - Diameter of the threading (mm)
d	Diametro nominale - nominal diameter

MATERIALI | MATERIALS

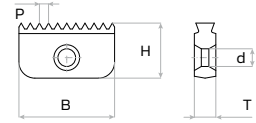
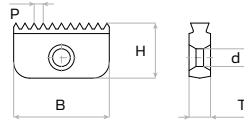
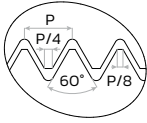
P rivestito per acciaio P coated for steel	CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale CERMET uncoated: for steel-stainless steel, spheroidal cast iron	CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale CERMET coated for steel-stainless steel, spheroidal cast iron
M rivestito per acciaio-acciaio inossidabile M coated for steel-stainless steel	K rivestito per ghisa K coated for cast iron	N nudo per alluminio-materiale non ferrosi N uncoated for aluminum-non ferrous materials
X rivestito per acciaio-acciaio inox-superleghe X coated for steel-stainless steel-super alloys		

FRESATURA FILETTI | THREAD MILLING

ISO metrica | thread ISO

esterno | external

interno | internal



B	d	PASSO PITCH	ISO	DIMENSIONS		HP2551				ISO	DIMENSIONS		HP2551					
				H	T						H	T						
14	3,3	0,5	-	-	-					TM 14 I 0,5 ISO	7,5	3,1						
		0,75	TM 14 E 0,75 ISO	7,5	3,1					TM 14 I 0,75 ISO	7,5	3,1						
		1,0	TM 14 E 1,0 ISO	7,5	3,1					TM 14 I 1,0 ISO	7,5	3,1						
		1,25	TM 14 E 1,25 ISO	7,5	3,1					TM 14 I 1,25 ISO	7,5	3,1						
		1,5	TM 14 E 1,5 ISO	7,5	3,1					TM 14 I 1,5 ISO	7,5	3,1						
		1,75	TM 14 E 1,75 ISO	7,5	3,1					TM 14 I 1,75 ISO	7,5	3,1						
		2,0	TM 14 E 2,0 ISO	7,5	3,1					TM 14 I 2,0 ISO	7,5	3,1						
		2,5	TM 14 E 2,5 ISO	7,5	3,1					TM 14 I 2,5 ISO	7,5	3,1						
21	4,2	1,0	TM 21 E 1,0 ISO	12	4,7					TM 21 I 1,0 ISO	12	4,7						
		1,5	TM 21 E 1,5 ISO	12	4,7					TM 21 I 1,5 ISO	12	4,7						
		1,75								TM 21 I 1,75 ISO	12	4,7						
		2,0	TM 21 E 2,0 ISO	12	4,7					TM 21 I 2,0 ISO	12	4,7						
		2,5	TM 21 E 2,5 ISO	12	4,7					TM 21 I 2,5 ISO	12	4,7						
		3,0	TM 21 E 3,0 ISO	12	4,7					TM 21 I 3,0 ISO	12	4,7						
		3,5	-	-	-					TM 21 I 3,5 ISO	12	4,7						
30	5,6	1,5	TM 30 E 1,5 ISO	16	5,5					TM 30 I 1,5 ISO	16	5,5						
		2,0	TM 30 E 2,0 ISO	16	5,5					TM 30 I 2,0 ISO	16	5,5						
		3,0	TM 30 E 3,0 ISO	16	5,5					TM 30 I 3,0 ISO	16	5,5						
		3,5	TM 30 E 3,5 ISO	16	5,5					TM 30 I 3,5 ISO	16	5,5						
		4,0	TM 30 E 4,0 ISO	16	5,5					TM 30 I 4,0 ISO	16	5,5						
		4,5	-	-	-					TM 30 I 4,5 ISO	16	5,5						
		5,0	-	-	-					TM 30 I 5,0 ISO	16	5,5						
40	5,7	1,5	TM 40 E 1,5 ISO	20	6,3					TM 40 I 1,5 ISO	20	6,3						
		2,0	TM 40 E 2,0 ISO	20	6,3					TM 40 I 2,0 ISO	20	6,3						
		3,0	TM 40 E 3,0 ISO	20	6,3					TM 40 I 3,0 ISO	20	6,3						
		3,5	-	-	-					TM 40 I 3,5 ISO	20	6,3						
		4,0	TM 40 E 4,0 ISO	20	6,3					TM 40 I 4,0 ISO	20	6,3						
		4,5	-	-	-					TM 40 I 4,5 ISO	20	6,3						
		5,0	TM 40 E 5,0 ISO	20	6,3					TM 40 I 5,0 ISO	20	6,3						
		5,5	-	-	-					TM 40 I 5,5 ISO	20	6,3						
		6,0	TM 40 E 6,0 ISO	20	6,3					TM 40 I 6,0 ISO	20	6,3						

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

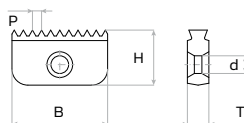
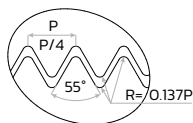
CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FRESATURA FILETTI | THREAD MILLING

whitworth 55° | whitworth 55°

esterno-interno | external-internal



B	d	PASSO PITCH	ISO	DIMENSIONS		HP2551		
				H	T			
14	3,3	24	TM 14-24 W	7,5	3,1			
		20	TM 14-20 W	7,5	3,1			
		19	TM 14-19 W	7,5	3,1			
		16	TM 14-16 W	7,5	3,1			
		14	TM 14-14 W	7,5	3,1			
21	4,2	20	TM 21-20 W	12	4,7			
		19	TM 21-19 W	12	4,7			
		16	TM 21-16 W	12	4,7			
		14	TM 21-14 W	12	4,7			
		11	TM 21-11 W	12	4,7			
30	5,6	16	TM 30-16 W	16	5,5			
		14	TM 30-14 W	16	5,5			
		11	TM 30-11 W	16	5,5			
40	5,7	11	TM 40-11 W	20	6,3			
		8	TM 40-8 W	20	6,3			

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

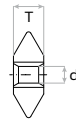
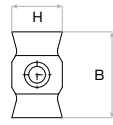
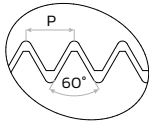
CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FRESATURA FILETTI | THREAD MILLING

ISO 60° | ISO metric 60°

esterno-interno | external-internal

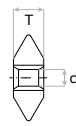
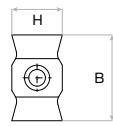
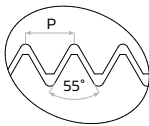


B	d	PASSO PITCH	ISO	DIMENSIONS		HP2551		
				H	T			
9	2,8	1,5-2,5	TM G1 I 1,5-2,5 ISO	5,5	3,18			
		2,5-4,0	TM G1 I 2,5-4,0 ISO	5,6	3,18			
13,5	3,4	1,5-2,5	TM G2 I 1,5-2,5 ISO	8,4	4,3			
		2,5-5,5	TM G2 I 2,5-5,5 ISO	8,4	4,3			
15,9	4	3-6	TM G3 I 3-6 ISO	9,4	5,3			

FRESATURA FILETTI | THREAD MILLING

whitworth 55° | whitworth 55°

esterno-interno | external-internal



B	d	PASSO PITCH	ISO	DIMENSIONS		HP2551		
				H	T			
13,5	3,4	14-11	TM G2 I 14-11 W	8,4	4,3			

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

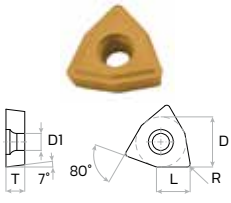
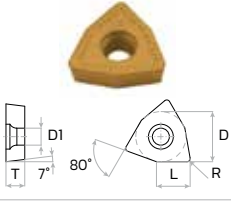
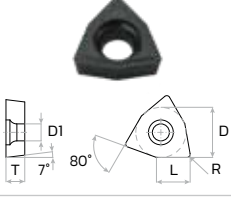
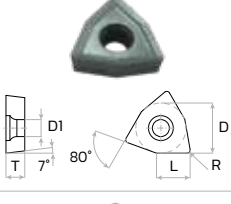
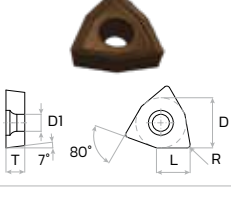
CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

FORATURA | DRILLING

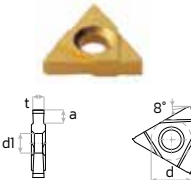
ARTICOLO	DIMENSIONS					HP2501	HX3510	HM2510	HM3060	HN10
	L	D	T	R	D1					
 WCMT 030208-D31	3.8	5.56	2.38	0.8	2.5					
040208-D31	4.3	6.35	2.38	0.8	2.8					
050308-D31	5.4	7.94	3.18	0.8	3.4					
06T308-D31	6.5	9.525	3.97	0.8	4					
080412-D31	8.7	12.7	4.76	1.2	4.3					
 WCMT 050308-ET	5.4	7.94	3.18	0.8	3.4					
06T308-ET	6.5	9.525	3.97	0.8	4					
080412-ET	8.7	12.7	4.76	1.2	4.3					
 WCGX 030204-T	3.8	5.56	2.38	0.4	2.5					
040204-T	4.3	6.35	2.38	0.4	2.8					
050308-T	5.4	7.94	3.18	0.8	3.4					
06T308-T	6.5	9.525	3.97	0.8	4					
080408-T*	8.7	12.7	4.76	0.8	4.3					
 WCKT 030208-EB	3.8	5.56	2.38	0.8	2.5					
040208-EB	4.3	6.35	2.38	0.8	2.8					
050308-EB	5.4	7.94	3.18	0.8	3.4					
06T308-EB	6.5	9.525	3.97	0.8	4					
080408-EB	8.7	12.7	4.76	0.8	4.3					
 WCHX 030208-AZ	3.8	5.56	2.38	0.8	2.5					
040208-AZ	4.3	6.35	2.38	0.8	2.8					
050308-AZ	5.4	7.94	3.18	0.8	3.4					
06T308-AZ	6.5	9.525	3.97	0.8	4					
080412-AZ	8.7	12.7	4.76	1.2	4.3					

* per l'utilizzo di questi inserti sostituire le viti della punta Speedy Drill con viti RUV0303 / use screw RUV0303 when using this insert on Speedy Drills

MATERIALI | MATERIALS

 P rivestito per acciaio P coated for steel	 CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale CERMET uncoated: for steel-stainless steel, spheroidal cast iron	 CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale CERMET coated for steel-stainless steel, spheroidal cast iron
 M rivestito per acciaio-acciaio inossidabile M coated for steel-stainless steel	 K rivestito per ghisa K coated for cast iron	 N nudo per alluminio-materiale non ferrosi N uncoated for aluminum-non ferrous materials
 X rivestito per acciaio-acciaio inox-superleghe X coated for steel-stainless steel-super alloys		

INSERTI CANALINI SEEGER | INSERTS FOR SEEGER GROOVES

ARTICOLO	DIMENSIONS				HP2559			
	t	a	d	d1				
	SEEGER 110	1,23	1,5	9,525	3,7			
	130	1,43	1,5	9,525	3,7			
	160	1,73	2,0	9,525	3,7			
	185	1,83	2,0	9,525	3,7			
	215	2,03	2,5	9,525	3,7			
	265	2,28	3,5	9,525	3,7			
	315	3,28	4,0	9,525	3,7			
	415	4,28	4,0	9,525	3,7			

MATERIALI | MATERIALS

P rivestito per acciaio
P coated for steel

M rivestito per acciaio-acciaio inossidabile
M coated for steel-stainless steel

X rivestito per acciaio-acciaio inox-superleghe
X coated for steel-stainless steel-super alloys

CERMET nudo: per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET uncoated: for steel-stainless steel, spheroidal cast iron

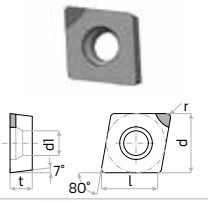
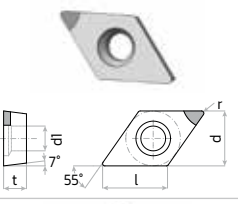
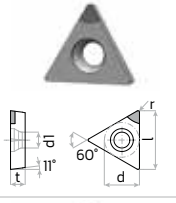
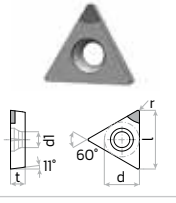
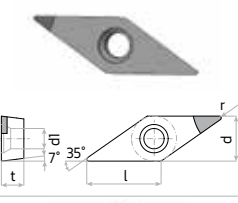
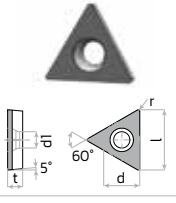
K rivestito per ghisa
K coated for cast iron

CERMET rivestito per acciaio-acciaio inossidabile, ghisa sferoidale
CERMET coated for steel-stainless steel, spheroidal cast iron

N nudo per alluminio-materiale non ferrosi
N uncoated for aluminum-non ferrous materials

TORNITURA PCD | PCD TURNING INSERTS

NEW

ARTICOLO	DIMENSIONI - DIMENSIONS					CBN	PCD
	l	d	t	r	d1		
	CCGW 060204 PCD Z1	6,5	6,35	2,38	0,4	2,8	
	09T308 PCD Z1	9,7	9,525	9,97	0,8	4,4	
	09T304 PCD Z1	9,7	9,525	3,97	0,4	4,4	
	120408 PCD Z1	12,9	12,7	4,76	0,8	5,5	
	DCGW 070202 PCD Z1	7,8	6,35	2,38	0,2	2,8	
	070204 PCD Z1	7,8	6,35	2,38	0,4	2,8	
	11T302 PCD Z1	11,6	9,525	3,97	0,2	4,4	
	11T304 PCD Z1	11,6	9,525	3,97	0,4	4,4	
	11T308 PCD Z1	11,6	9,525	3,97	0,8	4,4	
	TCGW 090204 PCD Z1	9,6	5,56	2,38	0,4	3	
	110204 PCD Z1	11	6,35	3,18	0,4	3,5	
	16T304 PCD Z1	16,5	9,525	4,76	0,4	4,4	
	TPGW 080204 PCD Z1	8,2	4,76	2,38	0,4	2,3	
	090204 PCD Z1	9,6	5,56	2,38	0,4	3	
	110304 PCD Z1	11	6,35	3,18	0,4	3,5	
	VCGW 160402 PCD Z1	16,5	9,525	4,76	0,2	4,4	
	160404 PCD Z1	16,5	9,525	4,76	0,4	4,4	
	TBGW 060104 PCD FULL FACE	8,2	4,76	2,38	0,4	2,3	

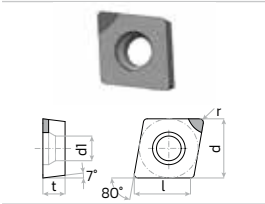
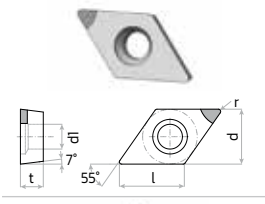
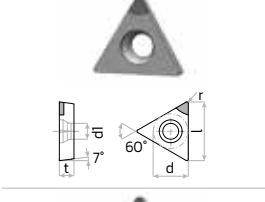
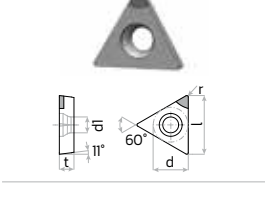
MATERIALI | MATERIALS

■ **CBN** per ghisa
CBN for cast iron

■ **PCD** per alluminio-materiali non ferrosi
PCD for aluminium-non ferrous materials

TORNITURA CBN | CBN TURNING INSERTS
per ghisa | cast iron

NEW

	ARTICOLO	DIMENSIONI - DIMENSIONS					CBN	PCD
		l	d	t	r	d1		
	CCGW 060204 CBN Z1	6,5	6,35	2,38	0,4	2,8	■	
	09T304 CBN Z1	9,7	9,525	3,97	0,4	4,4	■	
	09T308 CBN Z1	9,7	9,525	3,97	0,8	4,4	■	
	120408 CBN Z1	12,9	12,7	4,76	0,8	5,5	■	
	DCGW 070204 CBN Z1	7,8	6,35	2,38	0,4	2,8	■	
	11T304 CBN Z1	11,6	9,525	3,97	0,4	4,4	■	
	11T308 CBN Z1	11,6	9,525	3,97	0,8	4,4	■	
	TCGW 090204 CBN Z1	9,6	5,56	2,38	0,4	2,5	■	
	110204 CBN Z1	11	6,35	3,18	0,4	3,5	■	
	16T308 CBN Z1	16,5	9,525	3,98	0,8	4,4	■	
	TPGW 080204 CBN Z1	8,2	4,76	2,38	0,4	2,3	■	
	090204 CBN Z1	9,6	5,56	2,38	0,4	3	■	
	110304 CBN Z1	11	6,35	3,18	0,4	3,5	■	

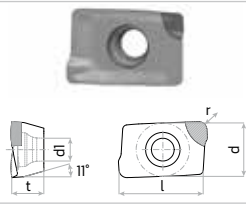
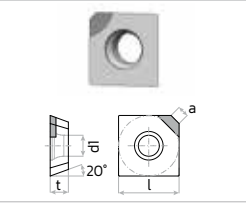
MATERIALI | MATERIALS

■ **CBN** per ghisa
CBN for cast iron

■ **PCD** per alluminio-materiali non ferrosi
PCD for aluminium-non ferrous materials

FRESATURA PCD | PCD MILLING INSERTS

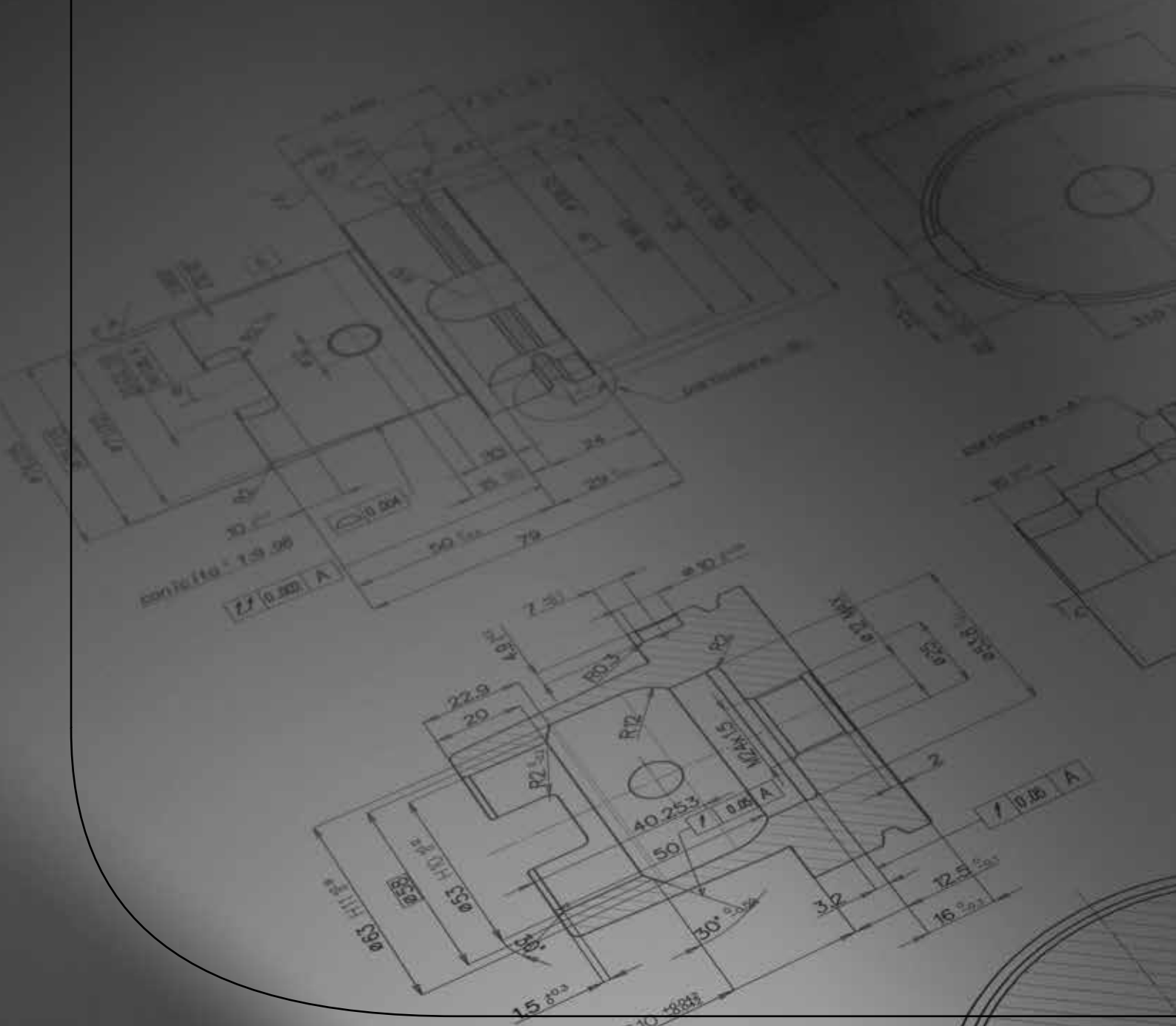
NEW

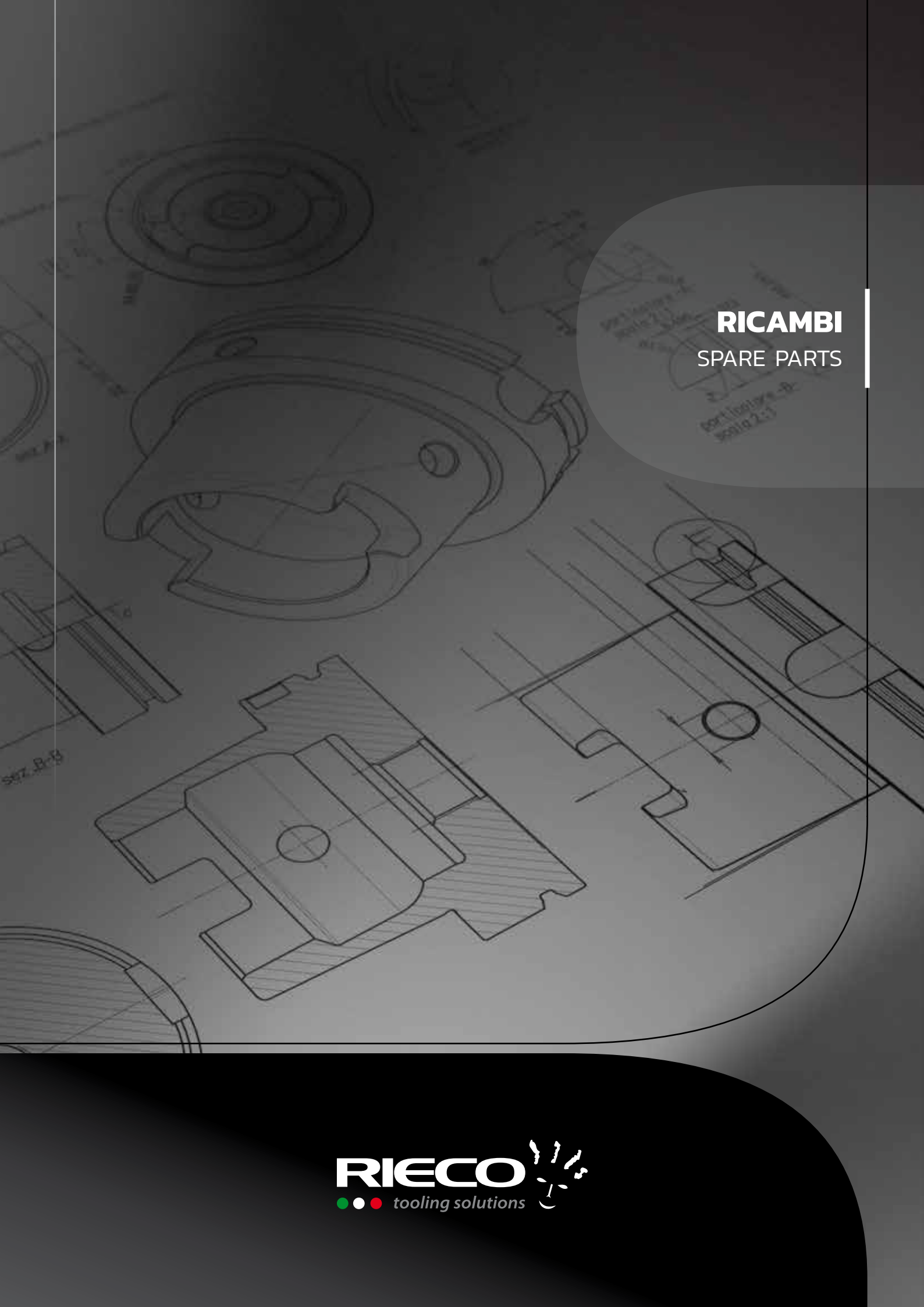
	ARTICOLO	DIMENSIONI - DIMENSIONS						CBN	PCD
		l	d	t	r	d1	a		
	APKT 1003 PCD Z1	10,5	6,7	3,5	0,5	2,85			
	SEHW 1204 PCD Z1	12,7	12,7	4,76	-	5,5	3		

MATERIALI | MATERIALS

 **CBN** per ghisa
CBN for cast iron

 **PCD** per alluminio-materiali non ferrosi
PCD for aluminium-non ferrous materials



The background of the entire page is a detailed technical drawing of various mechanical components, including a large central casting, a circular flange-like part at the top, and several smaller rectangular and cylindrical parts. The drawing is rendered in a light gray line-art style on a dark gray background.

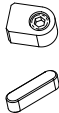
RICAMBI SPARE PARTS

		DESCRIZIONE - DESCRIPTION	
	SRALM7355	Slitta porta cartucce	Slide cartridge's holder
	SRALM8134	Slitta porta unità	Slide micro unit's holder
	SRALM8135	Slitta porta unità	Slide micro unit's holder
	SRALM23822	Slitta porta unità	Slide micro unit's holder
	SRALM23824	Slitta portacartucce	Slide cartridge's holder
	APM0014	Mandrino Gr.2	Chuck Gr.2
	APM0015	Mandrino Gr.1	Chuck Gr.1
	CAF0014	Ugello PWZ d.8	Nozzle PWZ d.8
	CAF0015	Ugello PWZ d.10	Nozzle PWZ d.10
	CAF0016	Ugello PWZ d.12	Nozzle PWZ d.12
	CAI0006	Mandrino autos. CAP 3-16 B16	Chuck cap 3-16 B16
	CAI0007	Mandrino autos. CAP 1-13 B16	Chuck cap 1-13 B16
	CASA0010	Grano per p. testine d.40	Grub screw for micro head holder d.40
	CASA0025	Grano per p. testine d.50	Grub screw for micro head holder d.50
	CASA0026	Grano per p. testine d.63/D.80	Grub screw for micro head holder d.63/D.80
	CASA0034	Grano per p. testine d.25/D.32	Grub screw for micro head holder d.25/D.32
	CAXC0010	Chiave DIN894 27	Key DIN894 27
	CAXC0011	Chiave DIN894 32	Key DIN894 32
	CAXC0012	Chiave DIN894 36	Key DIN894 36
	CAXC0013	Chiave DIN894 41	Key DIN894 41
	CAXC0014	Chiave DIN894 50	Key DIN894 50
	CAXCB0028	Chiave esagono 10	Allen key 10
	CAXCB0044	Chiave esagono 1,5 (150)	Allen key 1,5
	CAXCB0045	Chiave esagono 3	Allen key 3
	CAXCB0046	Chiave esagono 4	Allen key 4
	CAXCB0047	Chiave esagono 5	Allen key 5
	CAXCB0054	Chiave esagono 2,5	Allen key 2,5
	CAXCB0058	Chiave esagono 2	Allen key 2
	CAXCB0075	Chiave esagono 6	Allen key 6
	CAXCB0076	Chiave esagono 3,5	Allen key 3,5
	CAXCB0164	Chiave esagono 3/16	Allen key 3/16
	CAXCB0165	Chiave esagono 14	Allen key 14
	CAXCF0005	Inserto a chiave per morsa CAM0028	Key insert for CAM0028
	CAXCF0006	Inserto a chiave per morsa CAM0115	Key insert for CAM0115
	CAXCF0007	Inserto a chiave per morsa CAM0020	Key insert for CAM0020
	CAXCF0008	Inserto a chiave per morsa CAM0001	Key insert for CAM0001
	CAXCF0009	Inserto a chiave per morsa CAM0056	Key insert for CAM0056
  	CAXCS0082	Chiave dinamom. 140-980Nm (260)	Torque wrench 140-980Nm
	CAXCS0092	Chiave dinam. 100-500Nm (260)	Torque wrench 100-500Nm
	CAXCS0094	Moltiplicatore max 2700Nm (150)	Torque multiplier max 2700Nm
	CAXCS0095	Chiave a bussola att. 3/4" E.32 (150)	Socket wrench key 3/4" E.32
	CAXCS0096	Chiave a bussola att. 3/4" E.36 (150)	Socket wrench key 3/4" E.36 (150)
	CAXCS0097	Chiave a bussola att. 3/4" E.41 (150)	Socket wrench key 3/4" E.41 (150)
	CAXCS0098	Chiave a bussola att. 1" E.36 (150)	Socket wrench key 1" E.36 (150)
	CAXCS0099	Chiave a bussola att. 1" E.36 (150)	Socket wrench key 1" E.36 (150)
	CAXCS0100	Chiave a bussola att. 1" E.41 (150)	Socket wrench key 1" E.41 (150)
	CAXCS0184	Chiave dinamometrica	Keytorque key

		DESCRIZIONE - DESCRIPTION	
	SRCOM8358	Slitta bilanciatrice per AMBA 110-150	Balancing slide for AMBA 110-150
	SRCOM8359	Slitta bilanciatrice per AMBA 145-260	Balancing slide for AMBA 145-260
	SRCOM23823	Slitta bilanciatrice per AMBA 255-655	Balancing slide for AMBA 255-655
	SRCOM24160	Deviatriciolo	Chip switcher
	ECM0003	Chiave CH16m mini	Key CH16m mini
	ECM0004	Chiave CH20m mini	Key CH20m mini
	ECM0006	Chiave CH11m mini	Key CH11m mini
	ECM0009	Chiave CH25m mini	Key CH25m mini
	ECS0003	Chiave CH32s standard	Key CH32s standard
	ECS0004	Chiave CH40s standard	Key CH40s standard
	EGM0002	Ghiera 11ER mini	Clamping nut 11ER mini
	EGM0003	Ghiera 16ER mini	Clamping nut 16ER mini
	EGM0004	Ghiera 20ER mini	Clamping nut 20ER mini
	EGM0005	Ghiera 25ER mini	Clamping nut 25ER mini
	EGS0001	Ghiera G32S standard	Clamping nut G32S standard
	EGS0004	Ghiera G40S standard	Clamping nut G40S standard
	RAF0007	Chiave CH27 VTC 4564	Key CH27 VTC 4564
	RAF0008	Chiave CH32 VTC 4565	Key CH32 VTC 4565
	RAF0009	Chiave CH40 VTC 4566	Key CH40 VTC 4566
	RAF0011	Chiave CH16 VTC 4562	Key CH16 VTC 4562
	RAF0014	Chiave CH22VTC 4563	Key CH22VTC 4563
	RAF0017	Chiave per connett. Refr. HSK 63	Key for taper wiper for coolant HSK 63
	RAF0018	Chiave per connett. Refr. HSK 100	Key for taper wiper for coolant HSK 100
	RAF0020	Chiave per connett. CH50VTC 4567	Key for CH50VTC 4567
	RAN0006	Grano per WE20 M16x2x16	Grub screw for WE20 M16x2x16
	RAN0010	Grano per WE32/40 M20x2x20	Grub screw for WE32/40 M20x2x20
	RAN0011	Grano per WE6 M6x1x10	Grub screw for WE6 M6x1x10
	RAN0012	Grano per WE12 M12x1.75x16	Grub screw for WE12 M12x1.75x16
	RAN0013	Grano per WE8 M8x1.25x10	Grub screw for WE8 M8x1.25x10
	RAN0014	Grano per WE10 M10x1.5x12	Grub screw for WE10 M10x1.5x12
	RAN0021	Grano di reg. assiale x mod.50	Axial regulation grub screw for mod.50
	RAN0022	Grano di reg. assiale x mod.63	Axial regulation grub screw for mod.63
	RAN0023	Grano per WE16 M14x2x16	Grub screw for WE16 M 14x2x16
	RAN0024	Grano per WE25 M18x2x20	Grub screw for WE25 M18x2x20
	RAN0045	Grano P.P. M5x15 UNI5923	Grub screw M5x15 UNI5923
	RAN0046	Grano P.P. M5x20 UNI5923	Grub screw M5x20 UNI5923
	RAN0047	Grano P.P. M6x25 UNI5923	Grub screw M6x25 UNI5923
	RAN0048	Grano P.P. M6x30 UNI5923	Grub screw M6x30 UNI5923
	RAN0050	Grano P.P. M6x12 UNI5923	Socket head grub screw M6x12 UNI5923
	RAN0051	Grano P.P. M6x40 UNI5923	Socket head grub screw M6x40 UNI5923
	RAN0052	Grano P.P. M6x50 UNI5923	Socket head grub screw M6x50 UNI5923
	RAN0054	Grano P.P. M3x10 UNI5923)	Socket head grub screw M3x10 UNI5923
	RAN0055	Grano P.P. M4x12 UNI5923	Socket head grub screw M4x12 UNI5923
	RAN0056	Grano P.P. M4x18 UNI5923	Socket head grub screw M4x18 UNI5923
	RAN0057	Grano P.P. M4x20 UNI5923	Socket head grub screw M4x20 UNI5923
	RAN0058	Grano P.P. M4x4 UNI5923	Socket head grub screw M4x4 UNI5923
	RAN0059	Grano P.P. M5x5 UNI5923	Socket head grub screw M5x5 UNI5923
	RAN0060	Grano P.P. M6x6 UNI5923	Grub screw M6x6 UNI5923
	RAN0061	Grano P.P. M8x8 UNI5923	Grub screw M8x8 UNI5923
	RAN0063	Grano P.P. M12x12 UNI5923	Grub screw M12x12 UNI5923

		DESCRIZIONE - DESCRIPTION	
	RAN0064	Grano P.P. M10x10 UNI5923	Grub screw M10x10 UNI5923
	RAN0065	Grano P.P. M8x10 UNI5923	Grub screw M8x10 UNI5923
	RAN0066	Grano P.P. M3x5 UNI5923	Grub screw M3x5 UNI5923
	RAN0067	Grano P.P. M4x6 UNI5923	Grub screw M4x6 UNI5923
	RAN0068	Grano P.P. M4x8 UNI5923	Grub screw M4x8 UNI5923
	RAN0069	Grano 1/8"	Grub screw 1/8"
	RAN0070	Grano P.P. M6x20 UNI5923	Grub screw M6x20 UNI5923
	RAN0072	Grano P.P. M5x8 UNI5923	Grub screw M5x8 UNI5923
	RAP0004	Connettore refrigerante HSK 63	Taper wiper for coolant HSK 63
	RAP0005	Connettore refrigerante HSK 100	Taper wiper for coolant HSK 100
	RAT0005	Anello DIN6366 x portafrese 16	Ring DIN6366 for face mill adaptor 16
	RAV0004	Vite VTC M12 x portafrese 27	VTC screw M12 for face mill adaptor 27
	RAV0005	Vite VTC M16 x portafrese 32	VTC screw M16 for face mill adaptor 32
	RAV0006	Vite VTC M20 x portafrese 40	VTC screw M20 for face mill adaptor 40
	RAV0008	Vite VTC M10 x portafrese 22	VTC screw M10 for face mill adaptor 22
	RAV0009	Vite VTC M8 x portafrese 16	VTC screw M8 for face mill adaptor 16
	RAV0023	Vite VTC M24 x portafrese 60-50	VTC screw M24 for face mill adaptor 60-50
	RAV0048	Vite fiss. Tass. M20x100	Screws for T-slot dowels M20x100
	RAV0049	Vite fiss. Tass. M22x100	Screws for T-slot dowels M22x100
	RAV0050	Vite fiss. Tass. M24x100	Screws for T-slot dowels M24x100
	RAV0051	Vite fiss. Tass. M27x100	Screws for T-slot dowels M27x100
	RAV0052	Vite fiss. Tass. M30x100	Screws for T-slot dowels M30x100
	RAV0053	Vite fiss. Tass. M20x120	Screws for T-slot dowels M20x120
	RAV0054	Vite fiss. Tass. M22x120	Screws for T-slot dowels M22x120
	RAV0055	Vite fiss. Tass. M24x120	Screws for T-slot dowels M24x120
	RAV0056	Vite fiss. Tass. M27x120	Screws for T-slot dowels M27x120
	RAV0057	Vite fiss. Tass. M30x120	Screws for T-slot dowels M30x120
	RAV0058	Vite fiss. Tass. M20x140	Screws for T-slot dowels M20x140
	RAV0059	Vite fiss. Tass. M22x140	Screws for T-slot dowels M22x140
	RAV0060	Vite fiss. Tass. M24x140	Screws for T-slot dowels M24x140
	RAV0061	Vite fiss. Tass. M27x140	Screws for T-slot dowels M27x140
	RAV0062	Vite fiss. Tass. M30x140	Screws for T-slot dowels M30x140
	RAV0085	Vite TCEI M10x35 UNI5931	Screw TCEI M10x35
	RAV0086	Vite TCEI M12x35 UNI5931	Screw TCEI M12x35
	RAV0087	Vite TCEI M10x25 UNI5931	Screw TCEI M10x25
	RAV0088	Vite TCEI M12x25 UNI5931	Screw TCEI M12x25
	RAV0089	Vite TCEI M6x16 DIN7984	Screw TCEI M6x16 DIN7984
	RAV0090	Vite TCEI M8x25 UNI5931	Screw TCEI M8x25 UNI5931
	RAV0091	Vite TCEI M12x30 UNI5931	Screws TCEI M12x30 UNI5931
	RAV0092	Vite TCEI M20x60 UNI5931	Screw TCCE M20x60 UNI5931
	RAV0093	Vite TCEI M20x120 UNI5931	Screw TCCE M20x120 UNI5931
	RAV0094	Vite TCEI M6x12 UNI5931	Screw TCEI M6x12 UNI5931
	RAV0095	Vite TCEI M8x16 DIN7984	Screw TCEI M8x16 DIN7984
	RAV0130	Vite TCCE M3x6 UNI9327	Screw TCCE M3x6 UNI9327
	RBG0005	Serie griffe per CAI0006	Jaw series for CAI0006
	RBG0010	Serie griffe per CAI0007	Jaw series for CAI0007
	RFC0017	Cartuccia PCD per sgrossatura UTB24282	PCD cartridge for roughing UTB24842
	RFC0018	Cartuccia PCD per finitura UTB24283	PCD cartridge for finishing UTB24843

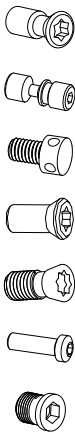
	DESCRIZIONE - DESCRIPTION	
	RFE0007	Bandierina torx t25 Torx key t25
	RFE0009	Bandierina torx t6 Torx key t6
	RFE0010	Bandierina torx t8 Torx key t8
	RFE0011	Bandierina torx t9 Torx key t9
	RFE0012	Bandierina torx t10 Torx key t10
	RFE0013	Bandierina torx t7 Torx key t7
	RFE0014	Bandierina torx t15 Torx key t15
	RFE0015	Bandierina torx t20 Torx key t20
	RFE0016	Cacciavite torx t30 Screwdriver t30
	RFR0005	Rondella - staffa per RD..1604 Washer - bracket for RD..1604
  	RFV0089	Vite M2.5x5.5 Tx8 Screw M2.5x5.5 Tx8
	RFV0090	Vite M3x8 Tx9 Screw M3x8 Tx9
	RFV0091	Vite M3.5x10.4 Tx15 Screw M3.5x10.4 Tx15
	RFV0139	Vite staffa per rd..1203 Screw bracket for rd..1203
	RFV0141	Vite M4.5x10 Tx20 Screw M4.5x10 Tx20
	RFV0162	Vite M2.5x6 Tx8 Screw M2.5x6 Tx8
	RFV0164	Vite fissaggio TM 14 Fixing screw TM 14
	RFV0167	Vite fissaggio TM 21 Fixing screw TM 21
	RFV0168	Vite fissaggio TM 30 Fixing screw TM 30
	RFV0169	Vite fissaggio TM 40 Fixing screw TM 40
	RFV0254	Vite fissaggio SE 1203 Fixing screw SE 1203
	RMA0001	Deviaflusso per AMBA... Flux switcher for AMBA...
  	RMC0001	Leva blocc. per portatest.. D.25 Blocking level for boring head holder d.25
	RMC0002	Leva blocc. per portatest.D.32 Blocking level for boring head holder d.32
	RMC0003	Leva blocc. per portatest.D.40 Blocking level for boring head holder d.40
	RMC0004	Leva blocc. per portatest.. D.50 Blocking level for boring head holder d.50
	RMC0005	Leva blocc. per portatest. D.63 Blocking level for boring head holder d.63
	RMC0007	Vite blocc. per portatest. 25÷32 Blocking level for boring head holder d.25÷32
	RMC0008	Vite blocc. per portatest. 40÷80 Blocking level for boring head holder d.40÷80
	RMC0009	Molla per portatestina D.25 Spring for boring head holder D.25
	RMC0010	Molla per portatestina D.32÷40 Spring for boring head holder D.32÷40
	RMC0011	Molla per portatestina D.50÷80 Spring for boring head holder D.50÷80
	RMC0012	Leva blocc. per portatestine D.80 Blocking level for boring head holder D.80
	RMG0001	Ghiera per modulare 50 Ring for mod.50
	RMG0002	Ghiera per modulare 63-80 Ring for mod.63-80
	RMG0004	Ghiera per mod.50 HSK63-HSK100 Ring for mod.50 HSK63-HSK100
	RMG0005	Ghiera per mod.63-80 HSK100 Ring for mod.63-80 HSK100
	RMG0006	Ghiera per CaptoC6-C8 Ring for Capto C6-C8
	RMG0007	Ghiera per PSC 40 Ring for PSC 40
	RMG0008	Ghiera per PSC 32 Ring for PSC 32

DESCRIZIONE - DESCRIPTION			
	RMH0001	Linguetta+vite M4x8 per mod.50	Feather+screw M4x8 for mod. 50
	RMH0002	Linguetta +vite M6x12 per mod.63	Feather+screw M6x12 for mod.63
	RMH0003	Linguetta+vite M6x16 per mod.80	Feather+screw M6x16 for mod.80
	RMH0004	Linguetta+vite M4 portafr. 22	Feather+screw M4 mill holder 22
	RMH0006	Linguetta+vite M6 portafr. 32	Feather+screw M6 mill holder 32
	RMH0011	Linguetta+vite M8 portafr. 60	Feather+screw M8 mill holder 60
	RMH0012	Linguetta+vite M3x5 per mod.28	Feather+screw M3x5 for mod.28
	RMH0013	Linguetta+vite M3x5 per mod.35	Feather+screw M3x5 for mod.35
	RMH0016	Linguetta 12x8 x25 UNI6604 A	Feather key 12x8 UNI6604 A
	RMH0017	Chiavetta 4x4x10 UNI6604	Feather key 4x4x10 UNI6604
	RMH0018	Chiavetta 6x6x16 UNI6604	Feather key 6x6x16 UNI6604
	RMH0019	Chiavetta 7x7x16 UNI6604	Feather key 7x7x16 UNI6604
	RMH0020	Chiavetta 8x7x20 UNI6604	Feather key 8x7x20 UNI6604
	RMH0021	Chiavetta 6x6x10 UNI6604	Feather key 6x6x10 UNI6604
	RMH0022	Chiavetta 10x8x20 UNI6604	Feather key 10x8x20 UNI6604
	RMH0023	Chiavetta 4x4x25 UNI6604	Feather key 4x4x25 UNI6604
	RMH0024	Chiavetta 6x6x35 UNI6604	Feather key 6x6x35 UNI6604
	RMH0025	Chiavetta 8x7x55 UNI6604	Feather key 8x7x55 UNI6604
	RMH0026	Chiavetta 10x8x55 UNI6604	Feather key 10x8x55 UNI6604
	RMH0027	Chiavetta 7x7x50 UNI6604	Feather key 7x7x50 UNI6604
	RMH0028	Chiavetta 12x8x50 UNI6604	Feather key 12x8x50 UNI6604
	RMM0001	Grano per modulare mini d.18	Grub screw for modular mini d.18
	RMM0002	Grano per modulare mini d.22	Grub screw for modular mini d.22
	RMM0003	Grano per modulare mini d.28	Grub screw for modular mini d.28
	RMM0004	Grano per modulare mini d.35	Grub screw for modular mini d.35
	RMV0001	Vite per modulare 50	Screw for mod. 50
	RMV0002	Vite per modulare 63-80	Screw for mod. 63-80
	RMV0003	Vite per modulare 63-80 esagono 10	Screw for mod. 63-80 Hexagon 10
	RMV0004	Vite centrale per mod.50 lunga	Central screw for mod. 50
	RMV0005	Vite centrale per mod.63-80 lunga	Central screw for mod. 63-80
	RMV0006	Vite centrale per mod.63--80 lunga esagono ridotto	Central screw for mod.63-80 long reduced hexagon
	RMV0009	Vite TCEI M5x15 per AMPS..	TCEI screw M5x15 for AMPS..
	RMV0010	Vite TCEI M6x25 per AMPS..	TCEI screw M6x25 for AMPS..
	RMV0011	Vite TCEI M8x25 per AMPS..	TCEI screw M8x25 for AMPS..
	RMV0012	Vite TCEI M8x30 per AMPS..	TCEI screw M8x30 for AMPS..
	RMV0013	Vite per C.M. 1	Screw for morse taper 1
	RMV0014	Vite per C.M. 2	Screw for morse taper 2
	RMV0015	Vite per C.M. 3	Screw for morse taper 3
	RMV0016	Vite per C.M. 4	Screw for morse taper 4
	RMV0017	Vite per C.M. 5	Screw for morse taper 5
	RMV0020	Vite per mod.80-63 per HSK100-HSK63	Screw for mod.80-63 for HSK100-HSK63
	RMV0024	Vite per cm4	Screw for cm4
	RMV0027	Vite per PSC 63-80	Screw for PSC 63-80
	RMV0028	Vite per PSC 50	Screw for PSC 50
	RMV0029	Vite per PSC 50 forata	Screw for PSC 50 perforated
	RMV0030	Vite per PSC 40 forata	Screw for PSC 40 perforated
	RMV0031	Vite per PSC 32 forata	Screw for PSC 32 perforated
	RMV0032	Vite per Capto c6-c8	Screw for Capto c6-c8
	RMV0033	Vite per PSC 63 ISO40 esagono 10	Extended screw for PSC 63 ISO 40
	RMV0034	Vite per PSC 50 prolungata	Extended screw for PSC 50
	RMV0035	Vite per PSC 63 prolungata	Extended screw for PSC 63
	RMV0036	Vite per PSC 80 prolungata	Extended screw for PSC 80

DESCRIZIONE - DESCRIPTION

	RUA0002	Sottoplacchetta per TN1604 fissaggio tipo M	Shim for TN1604 fixing type M
	RUA0003	Sottoplacchetta per TN1604 fissaggio tipo P	Shim for TN1604 fixing type P
	RUA0005	Sottoplacchetta per SN1204	Shim for SN1204
	RUA0006	Sottoplacchetta per WN0804	Shim for WN0804
	RUA0013	Sottoplacchetta per KN1604 SX	Shim for KN1604 SX
	RUA0017	Sottoplacchetta per CN1204	Shim for CN1204
	RUA0018	Sottoplacchetta per KN1604	Shim for KN1604
	RUA0021	Sottoplacchetta per VN1604	Shim for VN1604
	RUA0024	Sottoplacchetta per DN1506	Shim for DN1506
	RUA0025	Sottoplacchetta per SC1204	Shim for SC1204
	RUA0029	Sottoplacchetta per TC16T3	Shim for TC16T3
	RUA0030	Sottoplacchetta per TN2204	Shim for TN2204 (211)
	RUA0039	Sottoplacchetta per CC1204	Shim for CC1204
	RUA0086	Sottoplacchetta per RC1606	Shim for RC1606
	RUA0087	Sottoplacchetta per RC2006	Shim for RC2006
	RUA0046	Sottoplacchetta per DC11T3	Shim for DC11T3
	RUA0085	Sottoplacchetta per SC09T3	Shim for SC09T3
	RUA0092	Sottoplacchetta per TN1604 int.	Shim for TN1604 int.
	RUA0176	Sottoplacchetta dx inserto 16 est.	Right shim ins. 16 Ext.
	RUA0179	Sottoplacchetta dx inserto 22 est.	Right shim ins. 22 Ext.
	RUA0183	Sottoplacchetta dx ins. 16 Int.	Right shim ins. 16 Int.
	RUA0192	Sottoplacchetta dx ins. 22 Int.	Right shim ins. 22 Int.
	RUA0193	Sottoplacchetta dx ins. 16 Est. +4,5	Right shim ins. 16 Ext. +4,5
	RUA0194	Sottoplacchetta dx ins. 16 Int. +4,5	Right shim ins. 16 Int. +4,5
	RUA0195	Sottoplacchetta dx ins. 22 Est. +4,5	Right shim ins. 22 Ext. +4,5
	RUA0196	Sottoplacchetta dx ins. 22 Int. +4,5	Right shim ins. 22 Int. +4,5
	RUA0197	Sottoplacchetta dx ins. 16 Est. +3,5	Right shim ins. 16 Ext. +3,5
	RUA0198	Sottoplacchetta dx ins. 16 Int. +3,5	Right shim ins. 16 Int. +3,5
	RUA0199	Sottoplacchetta dx ins. 22 Est. +3,5	Right shim ins. 22 Ext. +3,5
	RUA0200	Sottoplacchetta dx ins. 22 Int. +3,5	Right shim ins. 22 Int. +3,5
	RUA0201	Sottoplacchetta dx ins. 16 Est. +2,5	Right shim ins. 16 Ext. +2,5
	RUA0202	Sottoplacchetta dx ins. 16 Int. +2,5	Right shim ins. 16 Int. +2,5
	RUA0203	Sottoplacchetta dx ins. 22 Est. +2,5	Right shim ins. 22 Ext. +2,5
	RUA0204	Sottoplacchetta dx ins. 22 Int. +2,5	Right shim ins. 22 Int. +2,5
	RUA0205	Sottoplacchetta dx ins. 16 Est. +0,5	Right shim ins. 16 Ext. +0,5
	RUA0206	Sottoplacchetta dx ins. 16 Int. +0,5	Right shim ins. 16 Int. +0,5
	RUA0207	Sottoplacchetta dx ins. 22 Est. +0,5	Right shim ins. 22 Ext. +0,5
	RUA0208	Sottoplacchetta dx ins. 22 Int. +0,5	Right shim ins. 22 Int. +0,5
	RUA0209	Sottoplacchetta dx ins. 16 Est. -0,5	Right shim ins. 16 Ext. -0,5
	RUA0210	Sottoplacchetta dx ins. 16 Int. -0,5	Right shim ins. 16 Int. -0,5
	RUA0212	Sottoplacchetta dx ins. 22 Int. -0,5	Right shim ins. 22 Int. -0,5
	RUA0213	Sottoplacchetta dx ins. 16 Est. -1,5	Right shim ins. 16 Ext. -1,5
	RUA0214	Sottoplacchetta dx ins. 16 Int. -1,5	Right shim ins. 16 Int. -1,5
	RUA0215	Sottoplacchetta dx ins. 22 Est. -1,5	Right shim ins. 22 Ext. -1,5
	RUA0216	Sottoplacchetta dx ins. 22 Int. -1,5	Right shim ins. 22 Int. -1,5
	RUB0001	Spina elastica per TN1604	Elastic plug for TN1604
	RUB0002	Spina elastica per CN/SN1204 DN1506	Elastic plug for CN/SN1204 DN1506
	RUB0009	Bussola M3.5	Socket wrench M3.5
	RUB0010	Bussola per RC2006	Socket wrench for RC2006
	RUB0017	Bussola M4 passo fine	Socket wrench M4 fine metric
	RUB0027	Bussola per RC1606	Socket wrench for RC1606
	RQ00003	Spina cil. DIN6325 D.2,5x10	Cylindrical plug DIN6325 D.2,5x10
	RQ00004	Spina cil. DIN6325 D.3x10	Cylindrical plug DIN6325 D.3x10
	RQ00005	Spina cil. DIN6325 D.4x14	Cylindrical plug DIN6325 D.4x14
	RQ00006	Spina cil. DIN6325 D.5x14	Cylindrical plug DIN6325 D.5x14

		DESCRIZIONE - DESCRIPTION	
	RUF0008	Chiave di registrazione gr.1	Setting key gr.1
	RUF0009	Chiave di registrazione gr.2	Setting key gr.2
	RUF0010	Chiave di registrazione gr.3	Setting key gr.3
	RUF0011	Chiave di registrazione gr.4	Setting key gr.4
	RUL0001	Leva per TN1604	Lever for TN1604
	RUL0002	Leva per CN/SN1204	Lever for CN/SN1204
	RUL0006	Leva per CN/SN 1204	Lever for CN/SN1204
	RUL0007	Leva per DN1506	Lever for DN1506
	RUL0010	Leva per CN/SN1204 12CA	Lever for CN/SN1204 12CA
	RUL0020	Leva per TN1604 12CA	Lever for TN1604 12CA
	RUL0021	Leva per RC1606	Lever for RC1606
	RUL0022	Leva per RC2006	Lever for RC2006
	RUM0001	Molla per KN1604	Spring for KN1604
	RUN0001	Grano per TN1604	Grus screw for TN1604
	RUN0002	Grano per TN2204	Grub screw for TN2204
	RU00001	Spina per KN1604	Plug for KN1604
	RUP0001	Perno per TN1604	Pin for TN1604
	RUP0002	Perno per TN2204-WN0804	Pin for TN2204-WN0804
	RUP0003	Perno per WN0804 int.	Pin for WN0804 int.
	RUP0009	Molla di centraggio per KN1604	Centering spring for KN1604
	RUP0013	Perno per TN1604 int.	Pin for TN1604 int.
	RUS0002	Cuneo/staffa per TN1604	Bracket for TN1604
	RUS0003	Cuneo/staffa for WN0804	Bracket for WN0804
	RUS0008	Staffa per KN1604 dx	Bracket for KN1604 dx
	RUS0011	Cuneo/staffa per TN2204	Bracket for TN2204
	RUS0028	Cuneo/staffa per KN1604 sx	Bracket for KN1604

	DESCRIZIONE - DESCRIPTION	
	RUV0001	Vite fs244 M4x9 t15 Screw fs244 M4x9 t15
	RUV0003	Vite M5x10.5 Tx20 Screw M5x10.5 Tx20
	RUV0004	Vite a leva per TN1604 Lever screw for TN1604
	RUV0005	Vite M2x4,5 TX6 Screw M2x4,5 TX6
	RUV0009	Vite M4 passo fine (V40) Screw M4 fine metric (V40)
	RUV0021	Vite M3,5x12 TX15 Screw M3,5x12 TX15
	RUV0024	Vite per KN1604 Screw for KN1604
	RUV0037	Vite M4x8 TX15 Screw M4x8 TX15
	RUV0039	Vite azionamento leva per DN1506 Lever screw for DN1506
	RUV0041	Vite a leva per SN/CN 1204 Lever screw for SN/CN 1204
	RUV0065	Vite M2x4 Tx6 Screw M2x4 Tx6
	RUV0068	Vite M2,5x6 T8 SFS Screw M2,5x6 T8 SFS
	RUV0078	Vite azionamento leva per CN1204 Lever screw for CN1204
	RUV0082	Vite M2,2x6 TX6 Screw M2,2x6 TX6
	RUV0096	Vite per Seeger Screw for Seeger
	RUV0103	Vite M4x10 TX15 Screw M4x10 TX15
	RUV0137	Vite azionamento leva per CN1204 int. corta Lever screw for CN1204 int. short
	RUV0139	Vite azionamento leva per SN/CN 1204 Lever screw for SN/CN 1204
	RUV0140	Vite azionamento leva per TN1604 Lever screw for TN1604
	RUV0143	Vite azionamento leva per RC1606 Lever screw for RC1606
	RUV0144	Vite azionamento leva per RC2006 Lever screw for RC2006
	RUV0159	Vite supporto inserto lato 22 Screw for insert's bracket side 22
	RUV0202	Vite per 10CA-12CA (M5) Screw for 10CA-12CA (M5)
	RUV0203	Vite per 08CA (M4) Screw for 08CA (M4)
	RUV0204	Vite per 16CA (M6) Screw for 16CA (M6)
	RUV0205	Vite per 06CA (M3) Screw for 06CA (M3)
	RUV0226	Vite M5x12,5 TX25 Screw M5x12,5 TX25
	RUV0234	Vite fiss. cartuccia 06CA M3x10 Screw for cartridge 06CA M3x10
	RUV0235	Vite fiss. cartuccia 08CA M4x12 Screw for cartridge 08CA M4x12
	RUV0237	Vite fiss. cartuccia M8x30 Screw for cartridge M8x30
	RUV0268	Vite M4x11 Tx15 Screw M4x11 Tx15
	RUV0271	Vite inserto lato 16 Screw for insert side 16
	RUV0277	Vite inserto lato 22 Screw for insert side 22
	RUV0280	Vite inserto lato 11 Screw for insert side 11
	RUV0281	Vite TSEI fiss. unità micro gr.4 M5x12 TSEI screw for micro unit fixing gr.4 M5x12
	RUV0283	Vite fiss. cartuccia 12CA M6x25 Screw for cartridge 12CA M6x25
	RUV0286	Vite supporto inserto lato 16 Screw for insert's bracket side 16
	RUV0288	Vite fiss. cartuccia 10CA M6x20 Screw for cartridge 10CA M6x20
	RUV0303	Vite per ins. WCGX08 Screw for insert WCGX08
	RUV0384	Vite fiss. cartuccia M10x65 Screw for cartridge M10x65
	RUV0385	Vite fiss. Cartuccia M10x45 Screw for cartridge M10x45
	SRCOM25351	Chiave quadra 25,4 Squared key 25,4
	SRCOM3549	Chiave per smontaggio ghiera su modulari 50-63-80 Key for disassembling ring on mod. 50-63-80
	SRCOM7850	Chiave per CM4 Key for morse taper 4
	SRCOM8357	Chiave per CM5 Key for morse taper 5
	SRCOM7442	Piastra fiss. allargatore 109-165 Counterbore fixing plate 109-165
	SRCOM7446	Piastra fiss. allargatore 83-124 Counterbore fixing plate . 83-124
	SRCOM7602	Piastra fiss. allargatore 64-91 Counterbore fixing plate 64-91
	SRCOM7614	Piastra fiss. allargatore 51-71 Counterbore fixing plate 51-71
	SRCOM7619	Piastra fiss. allargatore 39-53 Counterbore fixing plate . 39-53
	SRCOM7622	Piastra fiss. allargatore 30-41 Counterbore fixing plate 30-41
	SRCOM7625	Piastra fiss. allargatore 24-32 Counterbore fixing plate 24-32

DESCRIZIONE - DESCRIPTION		
	SRCOM8133/1	Vite fiss. allargatore 24-32 Counterbore fixing screw. 24-32
	SRCOM8133/2	Vite fiss. allargatore 30-41 Counterbore fixing screw. 30-41
	SRCOM8133/3	Vite fiss. allargatore 39-53 Counterbore fixing screw 39-53
	SRCOM8133/4	Vite fiss. allargatore 51-71 Counterbore fixing screw 51-71
	SRCOM8133/5	Vite fiss. allargatore 64-91 Counterbore fixing screw. 64-91
	SRCOM8133/6	Vite fiss. allargatore 83-124 Counterbore fixing screw 83-124
	SRCOM8133/7	Vite fiss. allargatore 109-165 Counterbore fixing screw. 109-165
 	SRMAS17597	Sottopiastra interfaccia basi (135) Base interface plate
	SRMAS20138	Morsetto per morsa SRM... H120 larghezza 110 (135) Clamp for vise SRM... H120x110 bracket not included (135)
	SRMAS20141	Tassello per morsa SRM... H120 larghezza 110 (135) Bracket for vise SRM... H120x110 (135)
	SRMAS21438	Morsetto per morsa SRM... H250 larghezza 110 (135) Clamp for vise SRM... H250x110 bracket not included (135)
	SRMAS21439	Tassello per morsa SRM... H250 larghezza 110 (135) Bracket for vise SRM... H250x110 (135)
	SRMAS23840/1	Morsetto per morsa SRM... H120 larghezza 89 (135) Clamp for vise SRM... H120x89 bracket not included (135)
	SRMAS23840/2	Tassello dent. per morsa MAS... H120 larghezza 89 (135) Bracket for vise SRM... H120x89 (135)
	SRTAU11320	Ghiera per mod.63-80 C.M.5 (2) Ring for mod.63-80 Morse taper.5 (2)

11/11/2016

**RICAMBI
SPARE PARTS**

MORSE SPECIALI

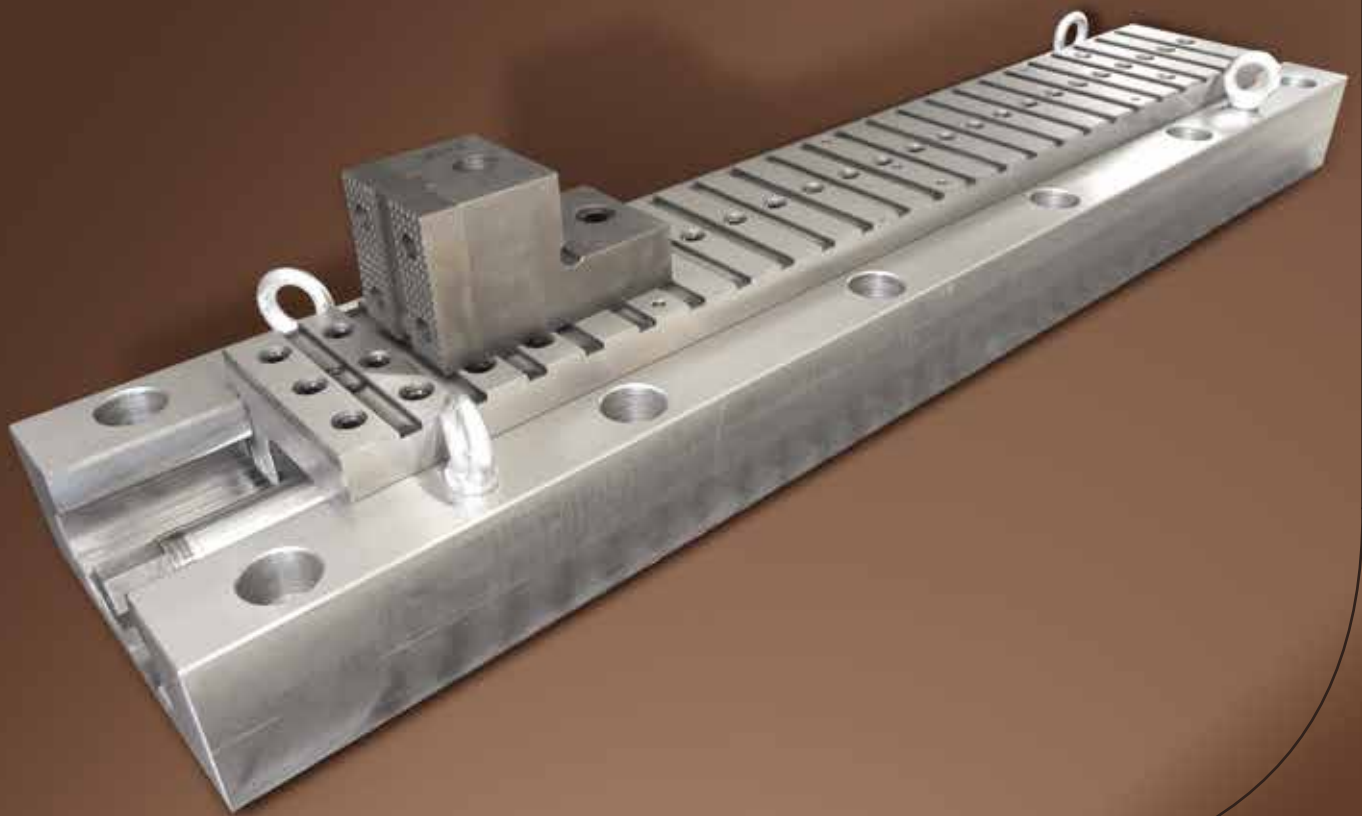
SPECIAL VISES



MISURE FUORI STANDARD A RICHIESTA
CUSTOMIZED DIMENSIONS ON REQUEST

SISTEMI PRESA PEZZO

VICES



INDICE

INDEX



CAM

morse monoblocco
monoblock vises

L 3



CASS

staffe di fissaggio morsa monoblocco
mountinL brackets for monoblock vises

L 4



CASG

ganasce prismatiche per morsa monoblocco
prismatic jaws for monoblock vises

L 4



CASG

ganasce dentate per morsa monoblocco
toothed jaws for monoblock vises

L 5



CASG

ganasce presa pezzo XL
XL piece clampinL jaws

L 5



CASP

coppia di parallele magnetiche
per morsa monoblocco
pair of magnetic parallels for
monoblock vises

L 6



CASF

fermo laterale
side piece stop

L 6



CASK

kit ingombro ridotto morsa monoblocco
reduced size monoblock vises kit

L 7



SRM

morsa standard Rieco
Rieco standard vise

L 8



SRMAS

(A) morsetti presa pezzo e (B) tasselli
(A) clampinL pieces and (B) dowels

L 8



SRM

morse per plateau
special vise for plateau

L 9



SRMAS

(A) morsetti presa pezzo e (B) tasselli
(A) clampinL pieces and (B) dowels

L 10



CAST

tasselli per cave a "T"
T-slot dowels

L 11



accessori di serraggio
tighteninL accessories

L 12



bussole di riduzione
reduction socket wrenches

L 12

MORSE MONOBLOCCO | MONOBLOCK VISES

Le morse di precisione Rieco sono studiate in ogni particolare per garantire un'alta qualità e precisione.

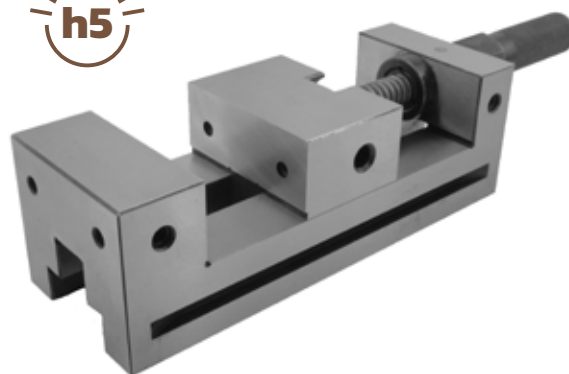
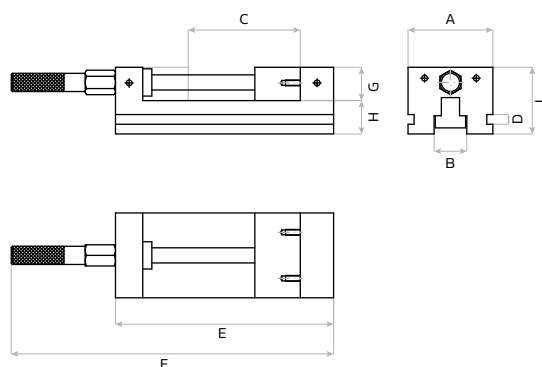
Tutte le lavorazioni e i trattamenti termici sui singoli particolari garantiscono l'indeformabilità nel tempo e la costante integrità delle superfici di riferimento. Inoltre per l'elevato grado di precisione con il quale vengono costruite, risultano particolarmente indicate per le lavorazioni di fresatura e di rettifica.

Esse risultano rettificata in h5 in tutte le superfici (H5 nei fori) in modo da garantire perfettamente la planarità, il parallelismo e l'ortogonalità in tutte le posizioni in cui vengono installate, e non presentano chiavette di allineamento per poter permettere il posizionamento a zero senza alcun vincolo.

Rieco precision vises are carefully developed to guaranty high quality and precision.

All machining and thermal treatments on the single parts guaranty the indeformability in the long term and the constant integrity of the reference surfaces. They are characterized by a high precision grade, so they result particularly adapted to the grinding and milling machining.

All sides of our vises are perfectly grinded h5 on each surface (and H5 on all holes), so they guarantee a perfect planarity, parallelism and squareness on any installation positioning. They don't have alignment keys so they allow the zero positioning without obligation.



CAM

morse monoblocco | monoblock vises

MATERIALE A RICHIESTA - MATERIAL ON REQUEST

	DIMENSIONI - DIMENSIONS											ACCESSORIES	
	A	B	C	D	E	F	G	H	I		apertura chiave wrench slot		staffe brackets
CAM0028	80 H5	40 H5	107	7,5	220	322	36 H5	34 H5	70 H5	6	27	4 x CASS0071	CAXC0010
CAM0112	100 H5	40 H5	132	10	265	376	42 H5	40 H5	82 H5	11	32	4 x CASS0072	CAXC0011
CAM0020	120 H5	47 H5	159	16	320	458	50 H5	50 H5	100 H5	18	36	4 x CASS0073	CAXC0012
CAM0001	140 H5	54 H5	185	16	360	532	55 H5	55 H5	110 H5	26	41	4 x CASS0074	CAXC0013
CAM0056	180 H5	72 H5	225	16	440	644	65 H5	65 H5	130 H5	51	50	4 x CASS0075	CAXC0014

Le morse vengono fornite con 4 staffe speciali di bloccaggio indispensabili ad evitare danneggiamenti durante l'utilizzo (vedi pag G 4).

Vises are supplied with 4 special blocking brackets, needful to avoid damages while using them (see pg G 4).

bloccaggio pezzi* | clamping the workpiece*

	spinta max - kN stress max - kN	coppia max - Nm torque max - Nm	chiave dinamometrica wrench key	inserto a chiave key slot
CAM0028	20	44	CAXCS0184	CAXCF0005
CAM0112	25	57,5	CAXCS0184	CAXCF0006
CAM0020	30	90	CAXCS0184	CAXCF0007
CAM0001	40	136	CAXCS0184	CAXCF0008
CAM0056	50	170	CAXCS0184	CAXCF0009

* A richiesta - On request

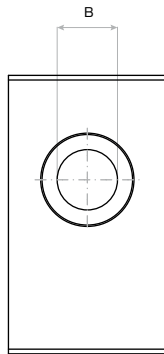
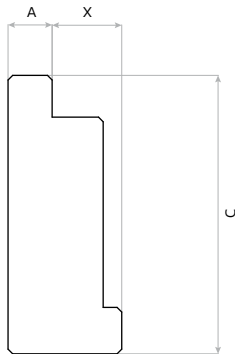
Per la lista degli accessori di serraggio vedi pag. G 12 - Complete list of tightening accessories at pg. G 12

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

ACCESSORI PER MORSE MONOBLOCCO | MONOBLOCK VISES' ACCESSORIES

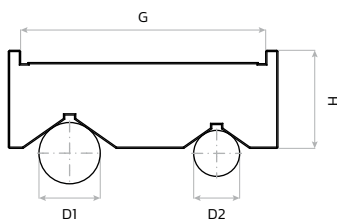
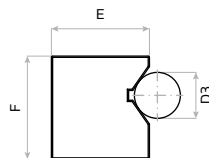
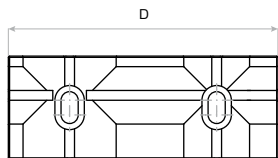


CASS

staffe di fissaggio morse monoblocco | mounting brackets for monoblock vises

MATERIALE A RICHIESTA - MATERIAL ON REQUEST

		DIMENSIONI - DIMENSIONS			
		X	A	B	C
CASS0071	CAM0028	12	7,2	11	50
CASS0072	CAM0112	15	9,5	13	60
CASS0073	CAM0020	15	13,5	15	70
CASS0074	CAM0001	15	13,5	17	70
CASS0075	CAM0056	20	13,5	17	80



MATERIALE A RICHIESTA - MATERIAL ON REQUEST

CASG

ganasse prismatiche per morse monoblocco | prismatic jaws for monoblock vises

Venduta singolarmente - individually supplied

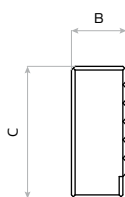
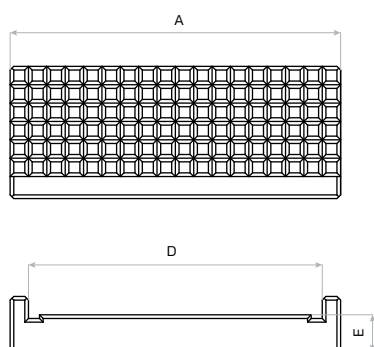
		DIMENSIONI - DIMENSIONS							
		D	E	F	G	H	D1	D2	D3
							from - to	from - to	from - to
CASG0042	CAM0028	90	32	36	80	27	12,5-38	7-20	10-08
CASG0043	CAM0112	110	40	42	100	35	19-55	14-35	10-08
CASG0044	CAM0020	130	50	50	120	45	21-62	15-42	13,5-40
CASG0045	CAM0001	150	60	55	140	52	26,5-80	16,5-50	16,5-45
CASG0046	CAM0056	195	80	65	180	70	37,5-110	25,5-70	23,5-55

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

ACCESSORI PER MORSE MONOBLOCCO | MONOBLOCK VISES' ACCESSORIES



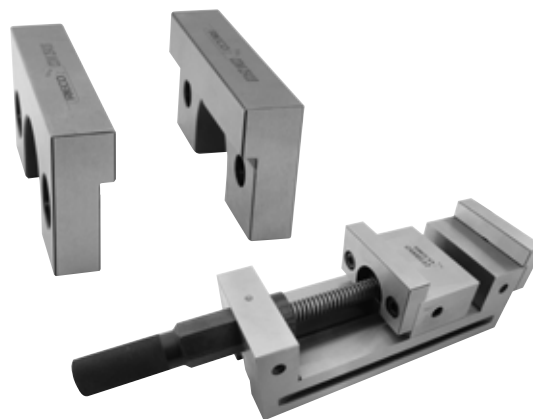
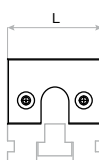
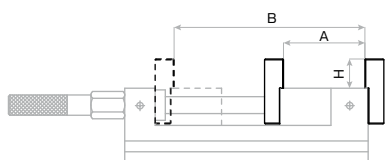
MATERIALE A RICHIESTA - MATERIAL ON REQUEST

CASG

ganasse dentate per morse monoblocco | toothed jaws for monoblock vises

Vendute in coppia - Pair supplied

	MORSA VISE	DIMENSIONI - DIMENSIONS				
		A	B	C	D	E
CASG0037	CAM0028	90	15	36	80	10
CASG0038	CAM0112	110	20	42	100	15
CASG0039	CAM0020	130	20	50	120	15
CASG0040	CAM0001	155	25	55	140	20
CASG0041	CAM0056	195	30	65	180	25



MATERIALE A RICHIESTA - MATERIAL ON REQUEST

CASG

ganasse presa pezzo XL | XL piece clamping jaws

Attenzione: serraggio limitato. Ridurre coppia di serraggio del 50% - Vendute in coppia
Please note: limited clamping. Reduce torque force -50% - Pair supplied

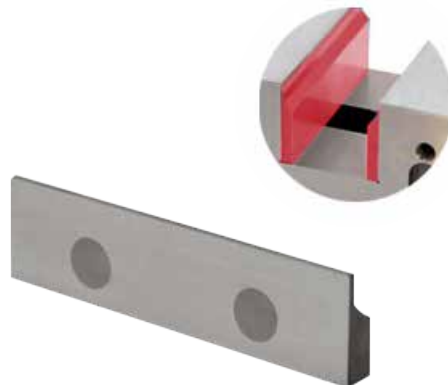
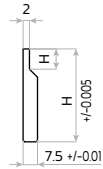
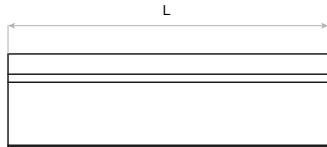
	MORSA VISE	DIMENSIONI - DIMENSIONS			
		A	B	H	L
CASG0047	CAM0028	78	170	15	80
CASG0048	CAM0112	94	205	18	100
CASG0049	CAM0020	110	250	21	120
CASG0050	CAM0001	120	280	23	140
CASG0051	CAM0056	145	350	27	180

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

ACCESSORI PER MORSE MONOBLOCCO | MONOBLOCK VISES' ACCESSORIES

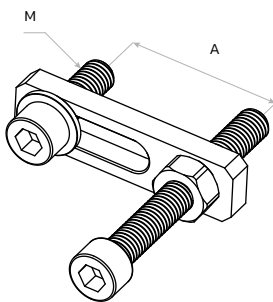


CASP

Vendute in coppia - Pair supplied

coppia di parallele magnetiche per morse monoblocco | pair of magnetic parallels for monoblock vises

	MORSA VISE	DIMENSIONI - DIMENSIONS										
		L	H	H	H	H	H	H	H	H	H	H
CASP0067H..	COM24569	100	20	25	30	35	37	40	45	47	-	-
CASP0068H..	COM24571	140	20	25	30	35	-	40	45	50	52	-
CASP0069H..	COM24572	175	-	25	30	35	-	40	45	50	55	60



CASF

MATERIALE A RICHIESTA - MATERIAL ON REQUEST

fermo laterale | side piece stop

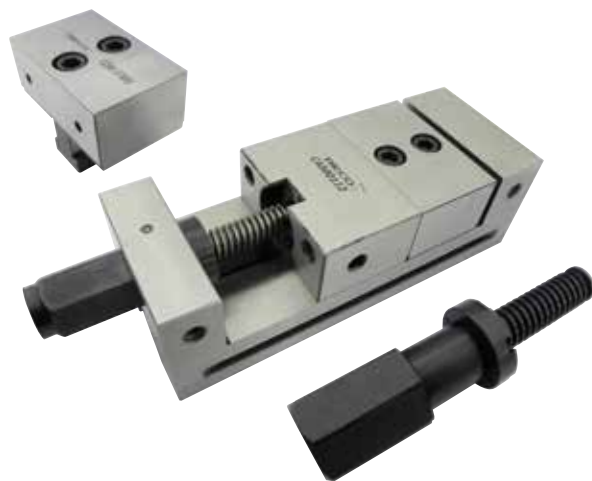
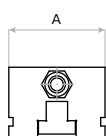
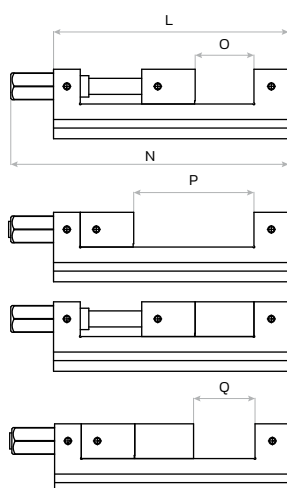
	MORSA VISE	DIMENSIONI - DIMENSIONS			
		M	A	-	-
CASF0017	CAM0028	M8	70		
CASF0018	CAM0112/0020	M10	70	-	-
CASF0019	CAM0001/0056	M12	105	-	-

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

ACCESSORI PER MORSE MONOBLOCCO | MONOBLOCK VISES' ACCESSORIES



CASK

kit ingombro ridotto morse monoblocco | reduced size monoblock vises kit

MATERIALE A RICHIESTA - MATERIAL ON REQUEST

	MORSA VISE	DIMENSIONI - DIMENSIONS						
		A	L	a	N	O	P	Q
CASK0015	CAM0028	80	220	40	260	46	102	51
CASK0016	CAM0112	100	265	50	315	58	125	62
CASK0017	CAM0020	120	320	60	380	72	155	78
CASK0018	CAM0001	140	360	70	430	85	180	90
CASK0019	CAM0056	180	440	80	520	110	225	115

Il kit è stato creato per ridurre le dimensioni d'ingombro della morsa: viene ridotta la lunghezza della vite interna alla morsa con conseguente riduzione d'ingombro del manico della stessa. È possibile montare uno spessore temprato e rettificato sulla ganascia mobile in funzione della dimensione del pezzo da serrare in morsa.

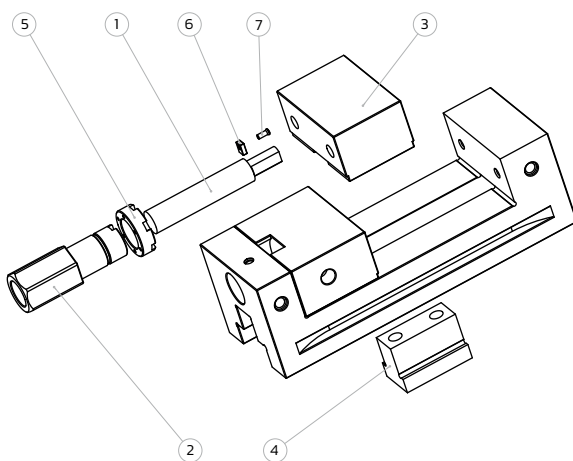
Il kit è composto da:

- 1) vite
- 2) manico ridotto
- 3) spessore temprato e rettificato
- 4) tassello a "T"
- 5) ghiera
- 6) linguetta
- 7) vite torx

This kit has been developed in order to reduce the dimensions of the vise: the screw's length is smaller, so also the handle is smaller. It's possible to mount a hardened and grinded thickness on the sliding jaw on the basis of the dimension of the piece which must be tighten.

The kit is composed by:

- 1) screw
- 2) reduced handle
- 3) shim hardened and grinded
- 4) "T" dowel
- 5) ring
- 6) spline
- 7) torx screw



NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

MORSE STANDARD RIECO | RIECO STANDARD VISES

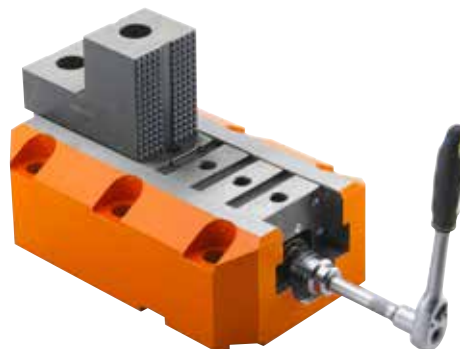
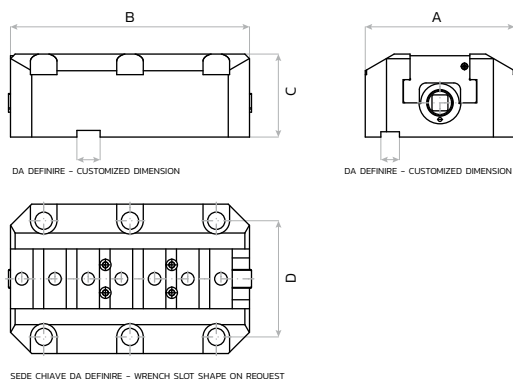
Questa tipologia di morse è stata studiata appositamente dai nostri tecnici per ovviare ai molteplici problemi riscontrati durante le lavorazioni su torni verticali di grosse dimensioni. Punto di forza del nostro prodotto è appunto l'abbattimento dei tempi per il posizionamento del morsetto di presa al diametro del pezzo da tornire. Le morse vengono fornite con manuale d'istruzione completo di certificati di conformità alle normative attualmente in vigore.

In seguito riportiamo alcuni esempi di morse già eseguite e già in uso.

Our standard vises, entirely designed and produced by our company, have been developed in order to solve the difficulties when machining on large vertical lathes. Our strenght is on the easiness and rapidity of positioning the holding clamps on the diameter of the object which must be lathed.

Vises are supplied complete of instruction manual and certificate of compliance to the current specifications.

See examples of our productions here below.



SRM

morsa standard Rieco | Rieco standard vise

MATERIALE A RICHIESTA - MATERIAL ON REQUEST

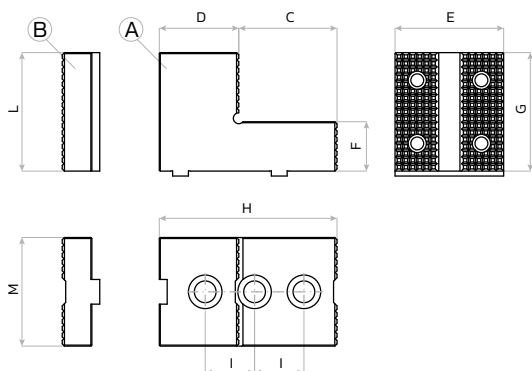
	DIMENSIONI - DIMENSIONS							
	A	B	C	D	Spinta max KN Max stress KN	Coppia max Nm Max torque Nm	Chiave dinamometrica Wrench key	kg
SRM360	225	360	125	150-180	50	252	CAXCS0082	116
SRM400	295	400	125	180-250	50	252	CAXCS0082	160

Prezzi a richiesta - Prices on request

Possibilità di personalizzazione delle dimensioni - Possibility to change the dimensions

Escluso kit linguette di scorrimento ed allineamento - Sliding and alignment feathers not included

Per la lista degli accessori di serraggio v. pag. G 12 - Complete list of tightening accessories at pg. G 12



SRMAS

Ⓐ morsetti presa pezzo e Ⓑ tasselli | Ⓐ clamping pieces and Ⓑ dowels

MATERIALE A RICHIESTA - MATERIAL ON REQUEST

	DIMENSIONI - DIMENSIONS									
	C	D	E	F	G	H	I	tasselli dowels	L	M
SRMAS23840/1	101,5	76	89	50	120	177,5	50	MAS23840/2	120	89
SRMAS38846/1	101,5	76	89	180	250	167,5	50	MAS38846/2	250	89

Prezzi a richiesta - Prices on request

Possibilità di personalizzazione delle dimensioni - Possibility to change the dimensions

Tabella viti di fissaggio a pag. G 10 - Fixing screws' list at pg. G 10

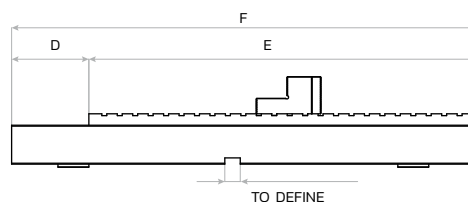
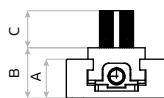
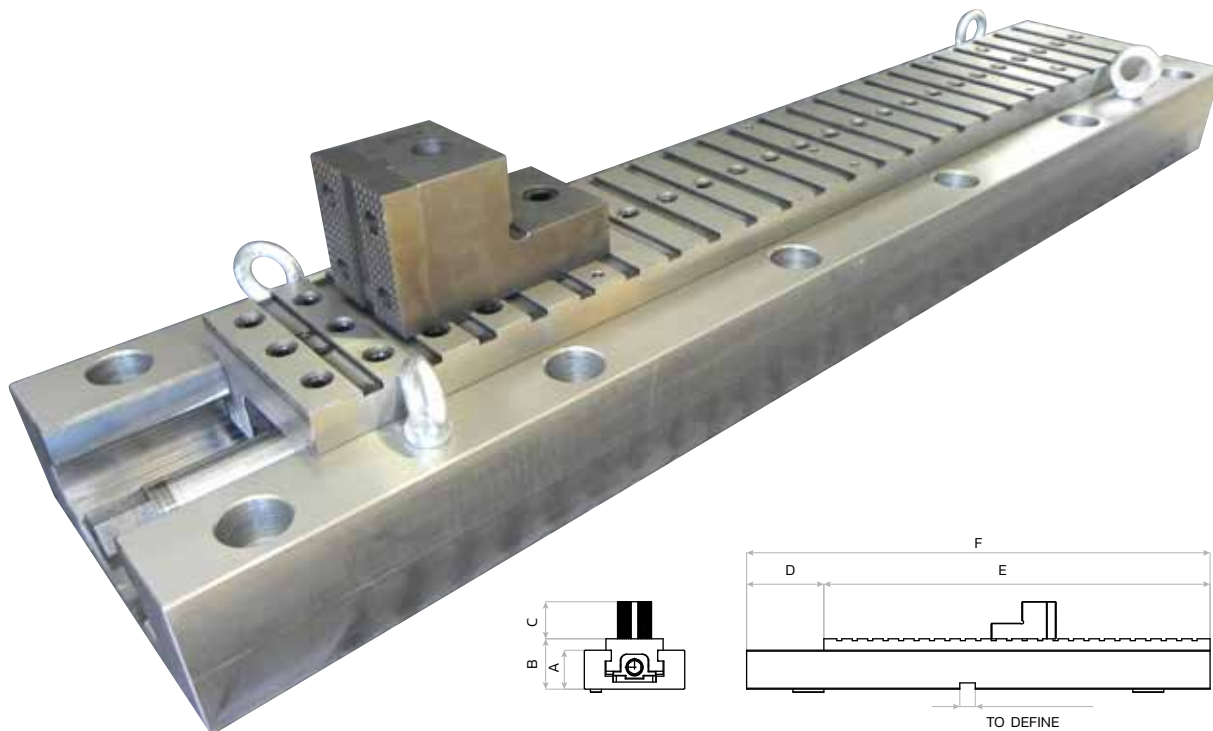
Per la lista degli accessori di serraggio v. pag. G 12 - Complete list of tightening accessories at pg. G 12

NOTE

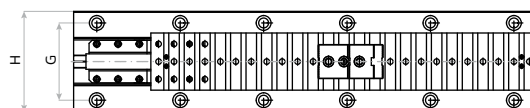
Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

MORSE STANDARD RIECO | RIECO STANDARD VISES



SEDE CHIAVE DA DEFINIRE
WRENCH SLOT SHAPE ON REQUEST



MATERIALE A RICHIESTA - MATERIAL ON REQUEST

SRM

morse per plateau | special vise for plateau

	DIMENSIONI - DIMENSIONS								Spinta max KN Max stress KN	Coppia max Nm Max torque Nm	Chiave dinamometrica Wrench key
	A	B	C	D	E	F	G	H			
SRM1000	126	163	120	250	750	1000	200-300	260-360	200	1510	CAXCS0092 + CAXCS0094
SRM1200	126	163	120	250	950	1200	200-300	260-360			
SRM1500	126	163	120	250	1250	1500	200-300	260-360			
SRM1800	126	163	120	250	1550	1800	200-300	260-360			
SRM2000	126	163	120	250	1750	2000	200-300	260-360			
SRM2500	126	163	120	250	2250	2500	200-300	260-360			

Dimensioni e prezzi a richiesta - Dimensions and prices on request

Per la lista degli accessori di serraggio v. pag. G 12 - Complete list of tightening accessories at pg. G 12

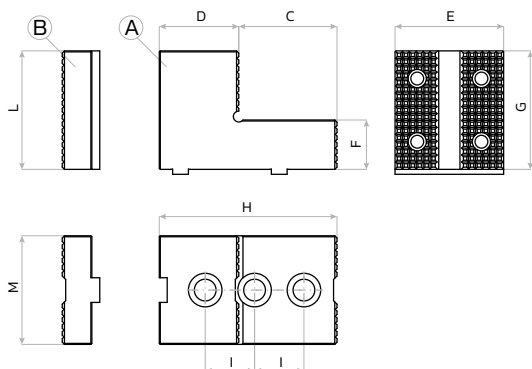
DIMENSIONI PERSONALIZZABILI - CUSTOMIZABLE DIMENSIONS

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

MORSE STANDARD RIECO | RIECO STANDARD VISE



MATERIALE A RICHIESTA - MATERIAL ON REQUEST

SRMAS

Ⓐ morsetti presa pezzo e Ⓑ tasselli | Ⓐ clamping pieces and Ⓑ dowels

	DIMENSIONI - DIMENSIONS								L	M
	C	D	E	F	G	H	I	tasselli dowels		
SRMAS20138	99,5	80,5	110	50	120	180	50	MAS20141	120	110
SRMAS21438	99,5	80,5	110	180	250	180	50	MAS21439	250	110

Prezzi a richiesta - Prices on request

Possibilità di personalizzazione delle dimensioni - Possibility to change the dimensions

viti di fissaggio per morsetto | screws for Rieco standard vise

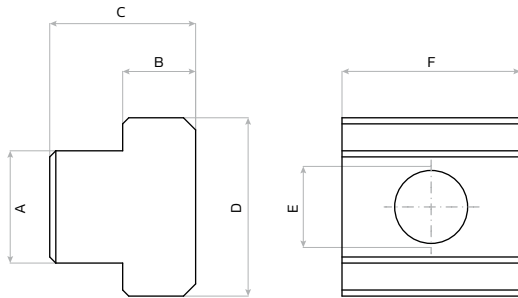
DESCRIZIONE - DESCRIPTION	RICAMBI - SPARE PARTS				Q.TÀ - Q.TY
					
viti fissaggio elemento A-B screws for fixing A-B elements	RAV0091	-	-	-	4/8
linguetta di riferimento A-B reference spline	-	RMH0016	-	-	1
vite fissaggio su cursore per SRMAS20138-23840/1 fixing screw for SRMAS20138-23840/1	-	-	RAV0092	-	3
vite fissaggio su cursore per SRMAS21438-38846/1 fixing screw for SRMAS21438-38846/1	-	-	-	RAV0093	3

NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

MORSE STANDARD RIECO | RIECO STANDARD VISE



MATERIALE A RICHIESTA - MATERIAL ON REQUEST

CAST

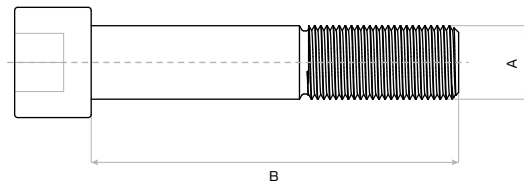
tasselli per cave a "T" | T-slot dowels

	DIMENSIONI - DIMENSIONS					
	A	B	C	D	E	F
CAST0038	27,7	18	36	44	M20	44
CAST0067	27,7	18	36	44	M22	44
CAST0040	27,7	18	36	44	M24	44
CAST0068	31,6	20	40	50	M27	50
CAST0060	31,6	22	44	54	M30	54

Possibilità di personalizzazione delle dimensioni - Possibility to change the dimensions

viti di fissaggio tasselli a "T" | screws for T-slot dowels

	DIMENSIONI - DIMENSIONS	
	A	B
RAV0048	M20	100
RAV0049	M22	100
RAV0050	M24	100
RAV0051	M27	100
RAV0052	M30	100
RAV0053	M20	120
RAV0054	M22	120
RAV0055	M24	120
RAV0056	M27	120
RAV0057	M30	120
RAV0058	M20	140
RAV0059	M22	140
RAV0060	M24	140
RAV0061	M27	140
RAV0062	M30	140



NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

MORSE STANDARD RIECO | RIECO STANDARD VISE

accessori di serraggio | tightening accessories

chiave dinamometrica keytorque wrench	DIMENSIONI - DIMENSIONS			
	moltiplicatore multiplier	Nm	quadro uscita exit square	innesto femmina
CAXCS0184	-	40-200	-	14x18
CAXCS0082	-	140-980	3/4"	-
CAXCS0092	+	CAXCS0094	540-2700	1"



bussole di riduzione | reduction socket wrenches

DIMENSIONI - DIMENSIONS		
sede uscita exit square	quadro entrata 3/4" entry square 3/4"	quadro entrata 1" entry square 1"
32	CAXCS0095	CAXCS0098
36	CAXCS0096	CAXCS0099
41	CAXCS0097	CAXCS0100
25,4	SRCOM25351	-



inserti con attacco maschio 14x18 | inserts for torque wrenches 14x18

DIMENSIONI - DIMENSIONS	
sede uscita exit square	chiave wrench
27	CAXCF0005
32	CAXCF0006
36	CAXCF0007
41	CAXCF0008
50	CAXCF0009

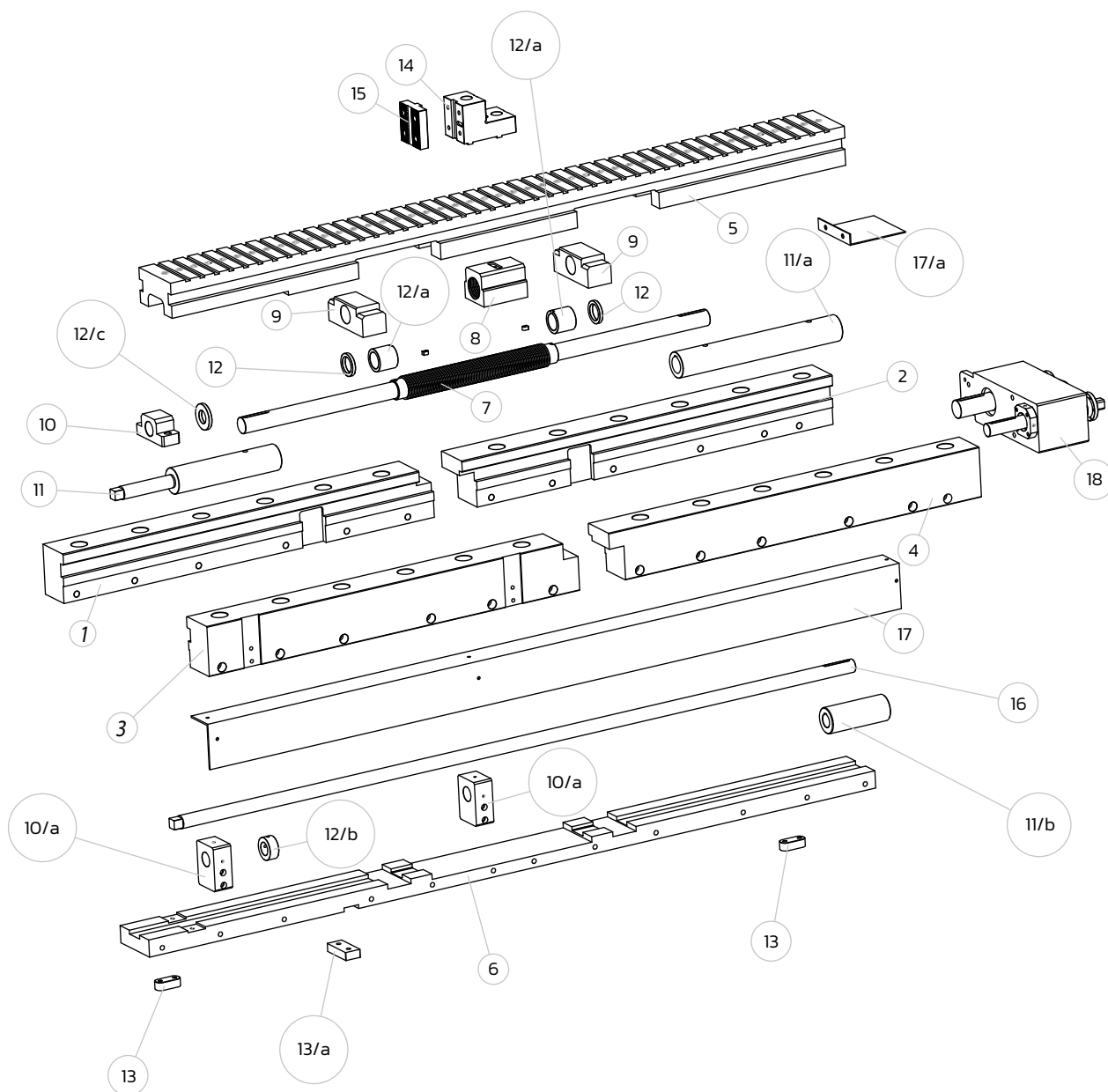


NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

COMPLESSIVO MORSA 2500 | ASSEMBLED VISE 2500



Coppia massima di chiusura: 800 Nm
Spinta massima al morsetto: 300.000 N

Max tightening torque: 800 Nm
Max drive to clamp: 300.000 N

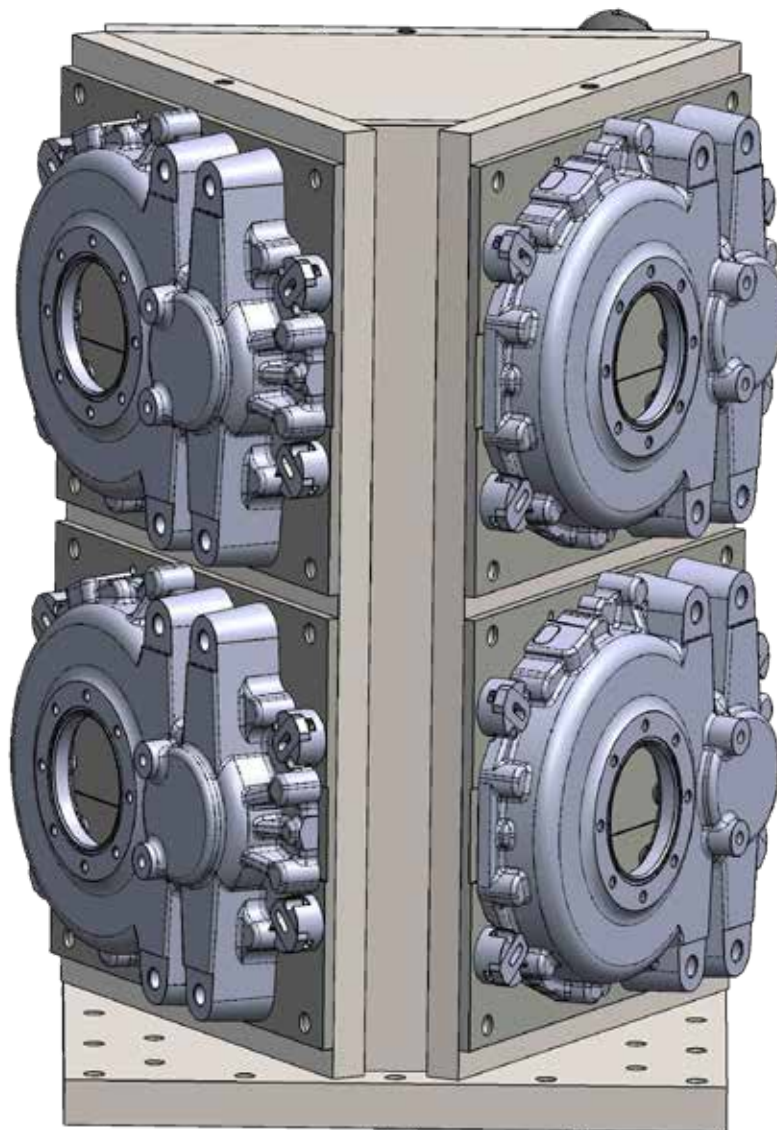
NOTE

Specifiche dei componenti di ricambio in sezione I - ricambi.

Specifications of spare parts in section I - spare parts.

MASCHERAGGIO SPECIALE PRESA PEZZO

SPECIAL WELDING MASK





SINCE
1996



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