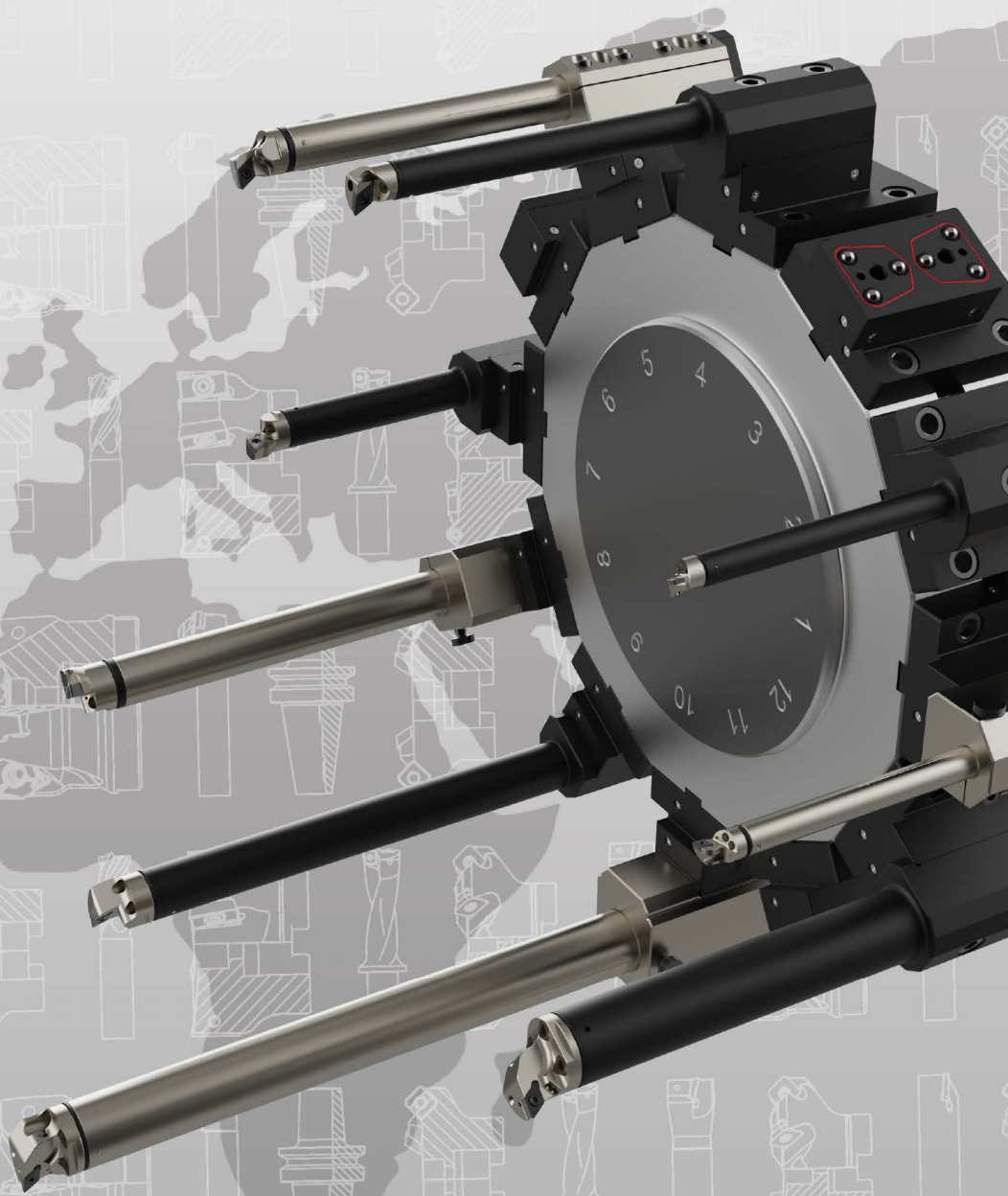


DABtool

Damper Antivibration Bar



03
EDIZIONE



finest metalworking solutions

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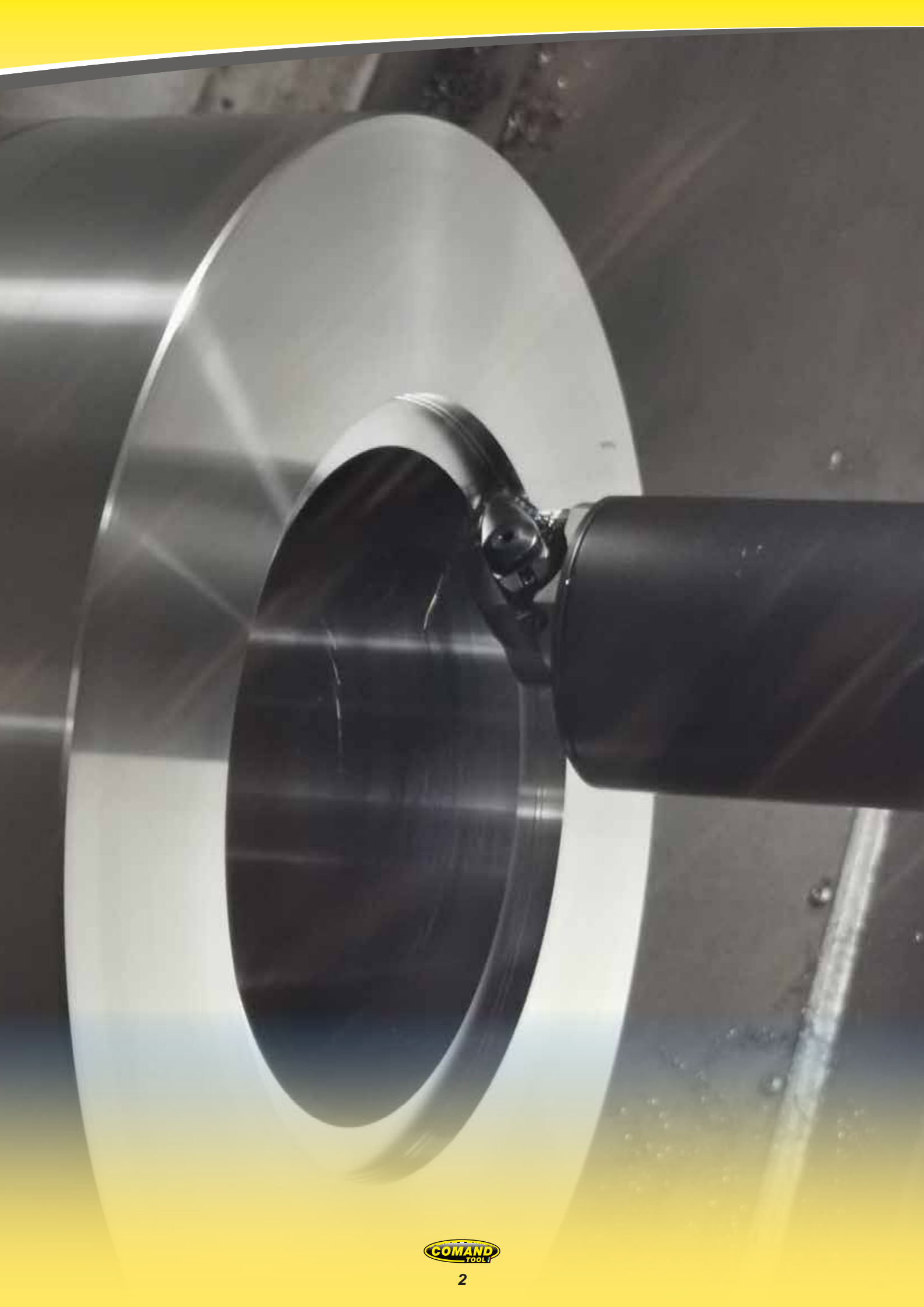
Cartucce **Bareni antivibranti** **MSS-AFS** pag. 55
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Bases for boring bar cartridges BASE



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DABtool[®] sistema di barenatura modulare antivibrante

Modular antivibration boring system

DABtool è la linea di punta di Comand Tool, in ambito di tornitura interna, progettata per eliminare le vibrazioni armoniche durante le operazioni di barenatura profonda.

DABtool is Comand Tool's leading line of products for internal turning, designed to eliminate harmonic vibrations during deep boring operations.

Grazie ad un meccanismo interno, permette lavorazioni stabili anche con rapporti di sbalzo estremi, garantendo finiture superficiali superiori e precisione dimensionale costante.

Thanks to an internal mechanism, it enables stable machining even with extreme overhang ratios, ensuring superior surface finishes and consistent dimensional accuracy.

TECNOLOGIA DI SMORZAMENTO / DAMPING TECHNOLOGY



MASSA INERZIALE

Un nucleo ad alta densità sospeso all'interno della barra contrasta in modo istantaneo le onde d'urto della barenatura.

INERTIAL MASS

A high-density core suspended within the bar instantly absorbs the shock waves generated during machining.



FLUIDO VISCOSO

Lo smorzatore opera in un bagno di fluido silicico speciale che dissipa l'energia cinetica sotto forma di calore.

VISCOUS FLUID

The damper operates immersed in a special silicone fluid that dissipates kinetic energy in the form of heat.



SINTONIZZAZIONE

Ogni barra è pre-tarata per operare alla frequenza di risonanza ottimale per il suo diametro e la sua lunghezza.

TUNING

Each bar is pre-calibrated to operate at the optimal resonance frequency for its diameter and length.

SISTEMA MODULARE / MODULAR SYSTEM

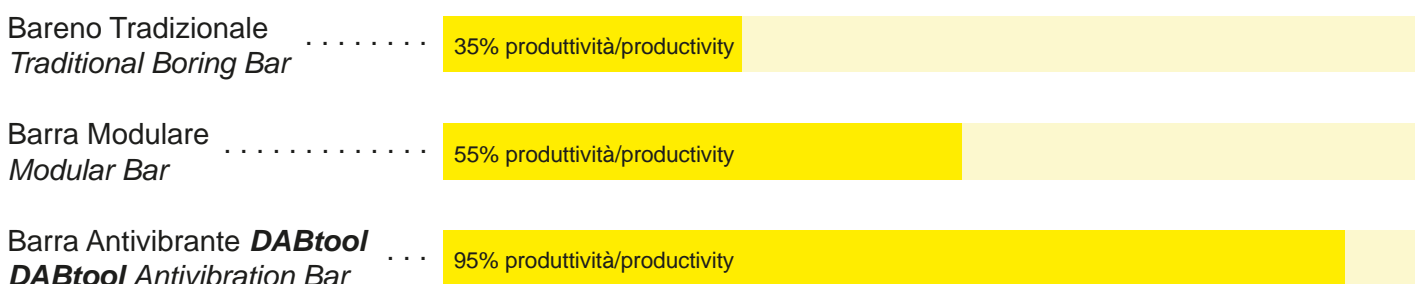
Il sistema **DABtool** utilizza un attacco rapido e preciso che consente di cambiare solo la testina di taglio, mantenendo lo stelo antivibrante in macchina.

Di conseguenza i tempi di attrezzaggio sono ridotti drasticamente in favore di un incremento della produttività.

The DABtool system uses a quick-release coupling that allows only the cutting head to be changed, whilst keeping the anti-vibration shaft in the machine.

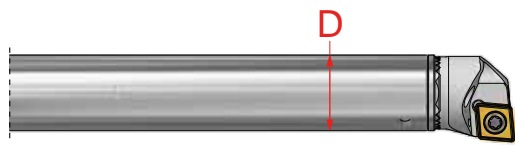
As a result, set-up times are drastically reduced, leading to increased productivity.

EFFICIENZA PRODUTTIVA / PRODUCTION EFFICIENCY



Gamma di soluzioni per Tornitura con Barre Modulari

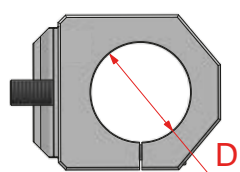
Range of solutions for Turning with Modular Bars



Barre Modulari Modular Bars	x D
	x 3
	x 4
	x 5
Barre Modulari Antivibranti Antivibration Modular Bars	x 6
	x 8
	x 10
	x 12
	x 14

D	10	12	16	20
---	----	----	----	----

				MSS-ANS
				MSS-ANS
				ANS
SFS	SFS	AFS MSS-AFS	AFS MSS-AFS	
SFH	SFH	AFH MSS-AFS	AFS MSS-AFS	
SFH	SFH	AFH MSS-AFS	AFS MSS-AFS	
				AFH
				AFH



Portabarra Boring Bar Holder
--

MTS-E9D10-B	MTS-E9D12-B	MTS-E9D16-B MSS-E9D16	MSS-E9D20
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DABtool ModulSTAR

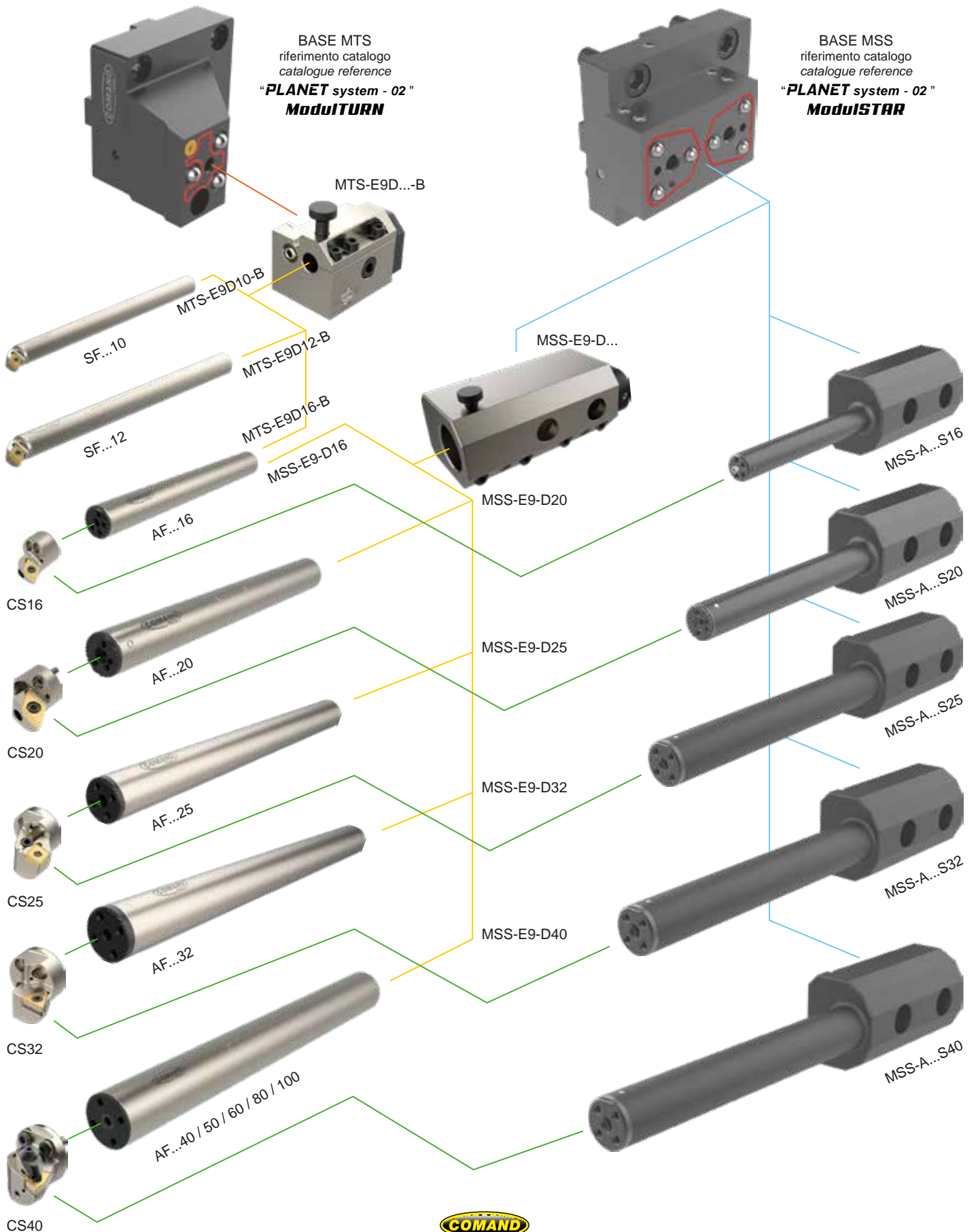
25	32	40	50	60	80	100
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MSS-ANS	MSS-ANS	MSS-ANS	MSS-ANS			
MSS-ANS	MSS-ANS	MSS-ANS	MSS-ANS			
ANS	ANS	ANS	ANS	ANS	ANS	ANS
AFS MSS-AFS	AFS MSS-AFS	AFS MSS-AFS	AFS	AFS	AFS	AFS
AFS MSS-AFS	AFS MSS-AFS	AFS MSS-AFS	AFS	AFS	AFS	AFS
AFS MSS-AFS	AFS MSS-AFS	AFS MSS-AFS	AFS	AFS	AFS	AFS
AFH	AFH	AFH	AFH	AFH		
AFH	AFH	AFH	AFH	AFH		

MSS-E9D25	MSS-E9D32	MSS-E9D40				
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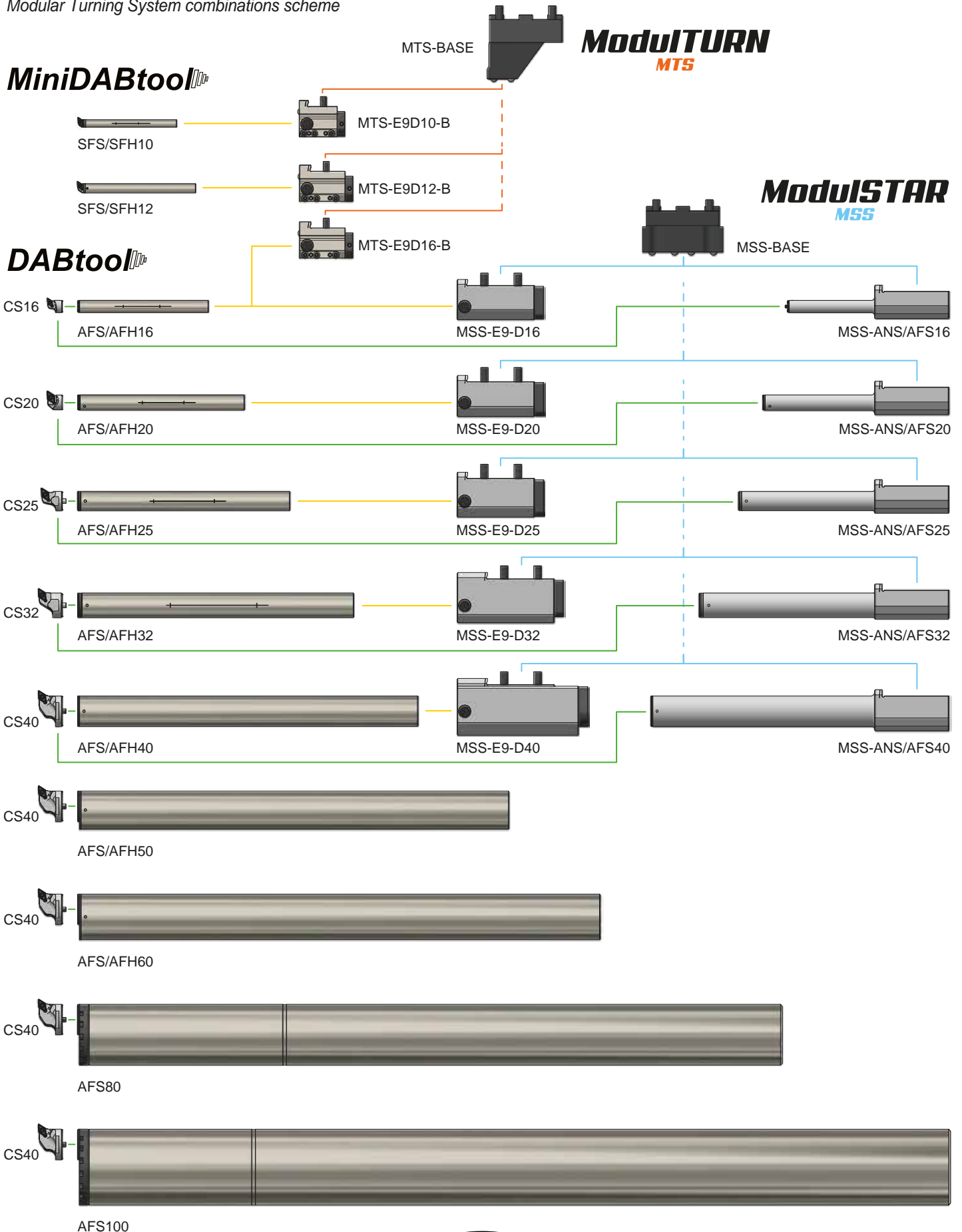
Combinazioni con sistema di Tornitura Modulare

Modular Turning System Combinations



Schema combinazioni sistema di Tornitura Modulare

Modular Turning System combinations scheme



DABtool: incremento produttività +400%

DABtool: productivity increase +400%

L'utilizzo della gamma di barre antivibranti **DABtool**, consente di ottimizzare il rendimento produttivo con incrementi del +50% nell'uso di barre di alesatura corte, raggiungendo un **INCREMENTO del +400%** in presenza di sporgenze più lunghe.

*The use of the **DABtool** anti-vibration bars allows you to optimise production performance with increases of +50% in the use of short boring bars, achieving an **INCREASE of +400%** in the presence of longer overhangs.*

Generalmente nelle lavorazioni di BARENATURA PROFONDA il diametro della barra è limitato dal diametro del foro da lavorare. Più piccolo è il foro, più piccolo è il diametro della barra da utilizzare. Questo significa che una barra "piccola" potrebbe causare delle vibrazioni se il foro da lavorare fosse troppo profondo.

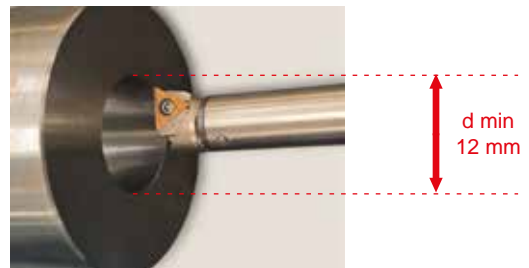
Normally in DEEP HOLE BORING operations the diameter of the boring bar is limited by the dimensions of the hole diameter to be bored.

The smaller the hole the smaller the diameter of the bar and has to be.

This also means that a "thin" bar will possibly cause vibrations if the hole to be machined is deep.

LE GAMMA DELLE BARRE ANTIVIBRANTI DABtool DISPONE DI PICCOLI DIAMETRI CHE POSSONO EVITARE LA MAGGIOR PARTE DELLE VIBRAZIONI.

DABtool ANTI-VIBRATIONS BARS PROVIDE SMALL DIAMETERS AND CAN PREVENT MOST VIBRATIONS.



Gli utensili standard arrivano al massimo ad un rapporto di profondità di barenatura di 3 volte il diametro. Gli utensili in Metallo Duro hanno un rapporto massimo di profondità di barenatura 5 volte il diametro. Solo utensili come le barre antivibranti **DABtool** svolgono perfettamente la lavorazione oltre i 6 x D.

Standard tools can only reach a maximum cutting ratio of 3 x Diameter.

Tools in HM can reach a cutting ratio of 5 x D.

*But, beyond this, only specialized tools, such as a **DABtool** anti-vibration bars, can get the job done.*

Le barre antivibranti **DABtool** garantiscono **DABtool** anti-vibrations bars **can manage**:

- **LAVORAZIONI ACCURATE / ACCURATE MACHINING**
- **TOLLERANZE PRECISE / PRECISE TOLERANCES**
- **OTTIME FINITURE / GOOD FINISH**

Inoltre l'utilizzo di **DABtool** riduce al minimo questi problemi comuni:
Using DABtool reduces these common problems:

Limitata durata dell'inserto / *Poor insert life*

Difficoltà nel mantenere le tolleranze / *Poor machining tolerance*

Finiture non soddisfacenti / *Poor surface finishes*



DABtool lavorazione / *machining*

DABtool: gamma di barre

DABtool: range of boring bars

L'esperienza, la ricerca e lo sviluppo interno in **COMAND TOOL** hanno consentito la progettazione e realizzazione di due linee di barre antivibranti, **MiniDABtool** e **DABtool**, ed una linea di barre modulari.

COMAND TOOL's experience, research and in-house development have enabled the design and manufacture of two lines of antivibration boring bars, **MiniDABtool** and **DABtool**, and one line of modular bars.

● **MiniDABtool** (barre antivibranti con testina integrata / antivibration boring bars with integrated head)



damper acciaio steel si può tagliare can be cut

ACCIAIO + DAMPER
STEEL + DAMPER

Diametro / Diameter D = 10 / 12 mm
Rapporto / Ratio (L:D) 6 x D



damper metallo duro solid carbide non tagliare don't cut

ACCIAIO + METALLO DURO + DAMPER
STEEL + SOLID CARBIDE + DAMPER

Diametro / Diameter D = 10 / 12 mm
Rapporto / Ratio (L:D) 8 / 10 x D

● **DABtool** (barre antivibranti modulari / antivibration modular boring bars)



damper acciaio steel si può tagliare can be cut [AcquaStream](#)

ACCIAIO + DAMPER
STEEL + DAMPER

Diametri / Diameters
D = 16 / 20 / 25 / 32 / 40 / 50 / 60 / 80 / 100 mm
Rapporto / Ratio (L:D) 6 / 8 / 10 x D



damper metallo duro solid carbide non tagliare don't cut [AcquaStream](#)

ACCIAIO + METALLO DURO + DAMPER
STEEL + SOLID CARBIDE + DAMPER

Diametri / Diameters
D = 16 (8/10xD) / 20 / 25 / 32 / 40 / 50 / 60 mm
Rapporto / Ratio (L:D) 12 / 14 x D

● **Barre Modulari** (modular boring bars)



No damper acciaio steel si può tagliare can be cut [AcquaStream](#)

ACCIAIO
STEEL

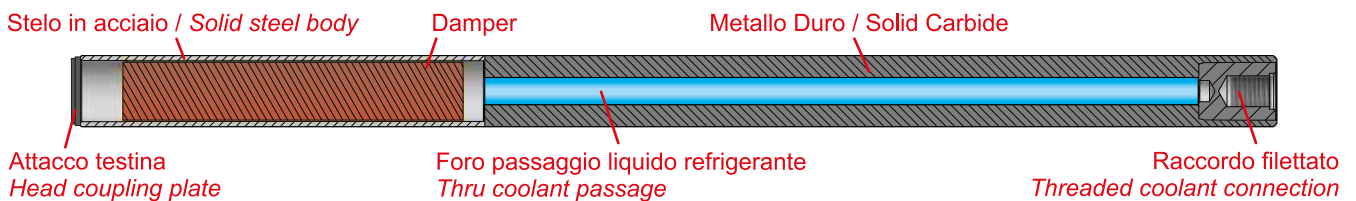
Diametro / Diameter
D = 20 / 25 / 32 / 40 / 50 / 60 / 80 / 100 mm
Rapporto / Ratio (L:D) 5 x D

Caratteristiche delle barre

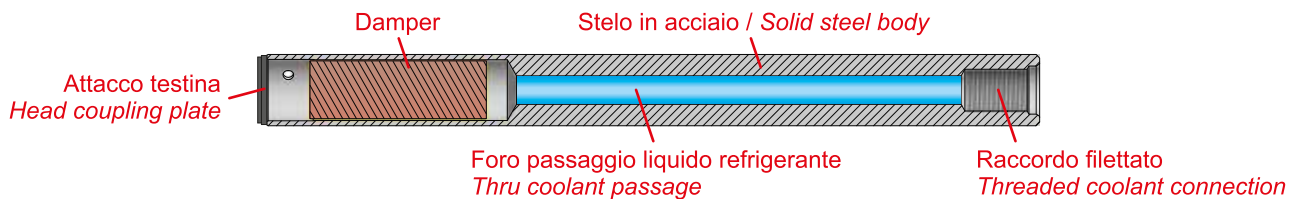
Bars features

- Stelo in acciaio speciale e/o metallo duro.
Special steel and/or solid carbide shank.
- I materiali vengono trattati appositamente per ottenere il massimo smorzamento delle vibrazioni.
The materials are specially treated to achieve maximum vibration damping.
- Damper per assorbimento delle vibrazioni con foro per il passaggio del liquido refrigerante.
Vibration damper system with through coolant passage.
- Raccordo filettato resistente fino a 70 bar.
Threaded coolant connection for high pressure 70 bar max.
- Attacco rapido e preciso che consente di cambiare solo la testina, mantenendo lo stelo in macchina.
Quick-release coupling that allows only the head to be changed, whilst keeping the shaft in the machine.
- Attacco accoppiamento testina compatibile con più marche.
Head coupling with multi brand compatible attachment.

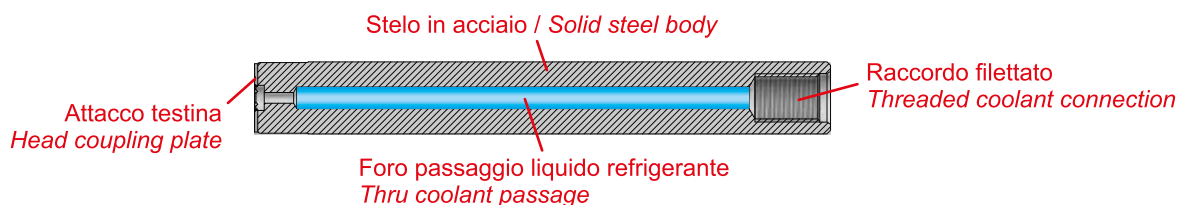
● DABtool 12/14xD - ACCIAIO + METALLO DURO + DAMPER / STEEL + SOLID CARBIDE + DAMPER



● DABtool 6/8/10xD - ACCIAIO + DAMPER / STEEL + DAMPER



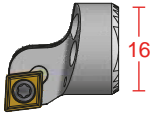

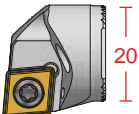

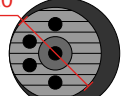
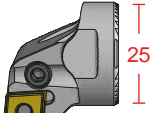



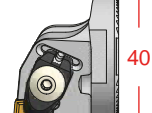

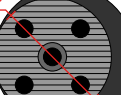
● Barre Modulari / Modular Bars 5xD - ACCIAIO / STEEL



Linee di testine

Lines of Heads

5 LINEE di TESTINE che si dividono in / **5 LINE of HEADS** that are mainly divided into:

Linea testina Head's line	N° modelli N. models	Es. linea testina Ex. head line	Attacco testina - barra Head - bar coupling plate
CS16	14 modelli / <i>models</i> (destra e sinistra / <i>right and left</i>) montare su barre con attacco testina di diametro 16 mm <i>mount on bars with head coupling plate diameter 16 mm</i>	 CS16	 AF...16-...
CS20	28 modelli / <i>models</i> (destra e sinistra / <i>right and left</i>) montare su barre D20/25/32 con attacco testina di diametro 20 mm <i>mount on bars D20/25/32 with head coupling plate diameter 20 mm</i>	 CS20	 AF...20-...  AF...25/32-...
CS25	26 modelli / <i>models</i> (destra e sinistra / <i>right and left</i>) montare su barre con attacco testina di diametro 25 mm <i>mount on bars with head coupling plate diameter 25 mm</i>	 CS25	 AF...25-...-CS25
CS32	30 modelli / <i>models</i> (destra e sinistra / <i>right and left</i>) montare su barre con attacco testina di diametro 32 mm <i>mount on bars with head coupling plate diameter 32 mm</i>	 CS32	 AF...32-...-CS32
CS40	50 modelli / <i>models</i> (destra e sinistra / <i>right and left</i>) montare su barre D40/50/60/80/100 con attacco testina di diametro 40 mm <i>mount on bars D40/50/60/80/100 with head coupling plate diameter 40 mm</i>	 CS40	 AF...40-...  AF...50/60/80/100-...



CS16



CS20



CS25



CS32



CS40

Caratteristiche delle testine

Heads features

Le linee di testine **CS16**, **CS25** e **CS32** vanno montate in modo esclusivo su barre dello stesso diametro, quindi rispettivamente **D16**, **D25** e **D32**.

Le testine della linea **CS20** e **CS40** invece possono essere montate anche su barre di diverso diametro.

- Testine **CS20** sono compatibili con barre di diametro D20 / D25 / D32.
- Testine **CS40** vengono invece utilizzate su barre di diametro D40 / D50 / D60 / D80 / D100.

In questi casi la testina può risultare disassata, in quanto montata su una barra di diametro maggiore rispetto a quello d'attacco della testina stessa.

*The heads of **CS16**, **CS25** and **CS32** lines must be mounted exclusively on bars of the same diameter, **D16**, **D25** and **D32** respectively.*

*The heads of **CS20** and **CS40** lines can also be mounted on bars of different diameters.*

- Heads **CS20** are compatible with bars with a diameter of D20 / D25 / D32.
- Heads **CS40** are used on bars with diameters of D40 / D50 / D60 / D80 / D100.

In these cases, the head may be misaligned, as it is mounted on a bar with a larger diameter than that of the head attachment itself.



esempio di una testina CS40 montata su una barra di diametro maggiore (D 60)
example of a CS40 head mounted on a larger diameter bar (D 60)

DIAMETRI MINIMI DI LAVORAZIONE / MINIMUM MACHINING DIAMETERS (d min *)

CS16	CS20	CS25	CS32	CS40															
				<table border="1"> <thead> <tr> <th>DT</th> <th>DB</th> <th>d min*</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>50</td> <td>58 / 62,5</td> </tr> <tr> <td>40</td> <td>60</td> <td>68 / 72,5</td> </tr> <tr> <td>40</td> <td>80</td> <td>80 / 92,5</td> </tr> <tr> <td>40</td> <td>100</td> <td>108 / 112,5</td> </tr> </tbody> </table>	DT	DB	d min*	40	50	58 / 62,5	40	60	68 / 72,5	40	80	80 / 92,5	40	100	108 / 112,5
DT	DB	d min*																	
40	50	58 / 62,5																	
40	60	68 / 72,5																	
40	80	80 / 92,5																	
40	100	108 / 112,5																	

● Diametro attacco testina / Heads connection diameter

● Diametro barra / Boring bar diameter

● Diametro minimo lavorazione / Min machining diameter

*Diametro minimo variabile in funzione del modello di testina / Minimum diameter is variable according to the model of the head

Metodo di bloccaggio della barra

Bar holding methods

PROPORZIONI DI SPORGENZA E BLOCCAGGIO

Le barre antivibranti **DABtool** hanno precisi valori da rispettare durante il processo di bloccaggio. Ad esempio, nel caso della barra 60 mm 10 x D la lunghezza totale della barra è di 840 mm e deve così suddividersi:

- 600 mm di sporgenza
- 240 mm per il bloccaggio

Se queste indicazioni e misure non vengono rispettate la capacità di smorzamento delle vibrazioni della barra viene meno ed il potenziale antivibrante non verrà espresso al massimo.

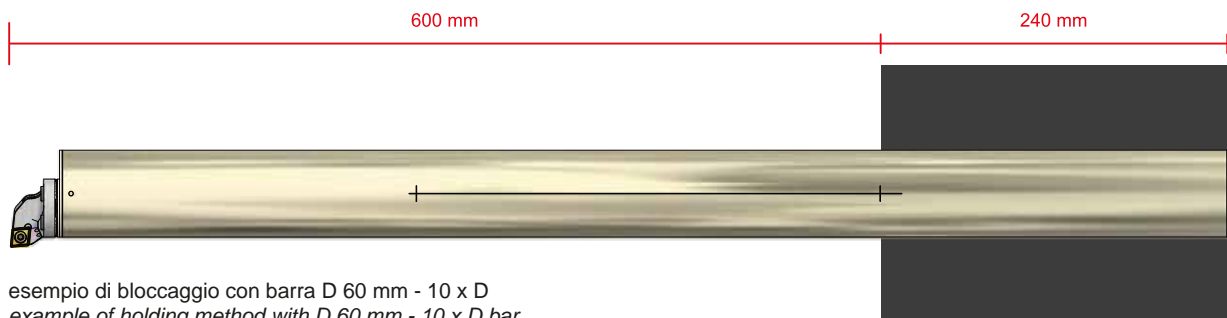
OVERHANG PROPORTIONS

DABtool antivibration bars must have a very precise overhang length.

In the case of 60 mm 10 x D the overall length will be of 840 mm so divided:

- 600 mm overhang
- 240 mm for clamping in collet

Going over suggested lengths will minimize vibration damping capabilities. Staying below suggested values means the full potential of the **DABtool** system bars will not be expressed.



esempio di bloccaggio con barra D 60 mm - 10 x D
example of holding method with D 60 mm - 10 x D bar

Ci sono **4 metodi di bloccaggio**, alcuni non consoni per sfruttare al massimo il potenziale antivibrante delle barre ed altri eccellenti. Per bloccare e far rendere al meglio le barre DABtool i metodi migliori sono il 3° e il 4°.

There are **4 methods** to hold the bars. DABtool suggests to use method 3 or 4 for the best possible results.

Descrizione Description	Vite Screw	Bussola Bushing	Portabarra Boring bar holder	Valutazione Rating
Un solo punto di contatto. Single point contact.	Singola Single	No No	Intero One piece	Non accettabile Not suitable
Un solo punto di contatto con bussola tagliata. Single point contact with split bushing.	Singola Single	Tagliata Split	Intero One piece	Accettabile Suitable
Più punti di contatto con portabarra tagliato MSS-E9 . Multipoint contact with split boring bar holder MSS-E9 .	Multiple Multiple	Non necessaria Not necessary	Tagliato Split	Molto Buono Very Good
Massima forza di bloccaggio grazie al PLANET system e alla tecnologia WALLCUT . Maximum clamping force thanks to the PLANET system and WALLCUT technology.	Doppia Double	Non necessaria Not necessary	Integrato Integrated	Ottimo Excellent

Metodo di bloccaggio della barra

Bar holding methods



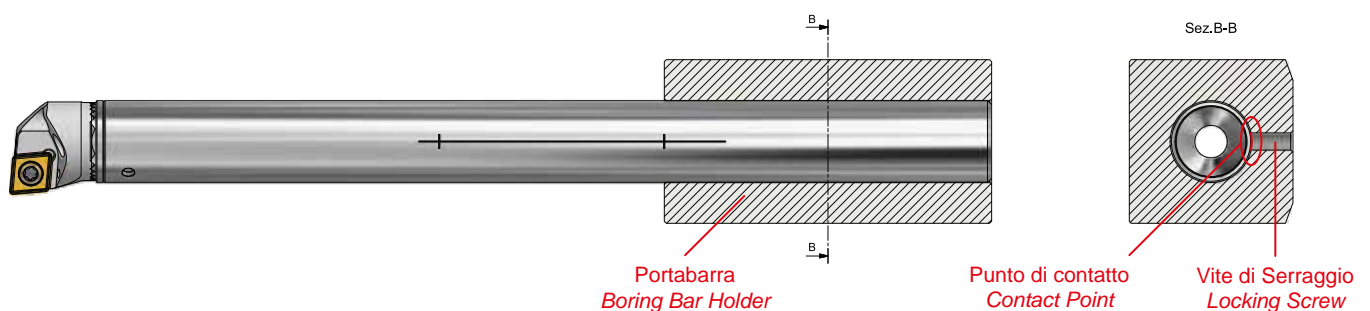
METODO NON ADATTO / NOT SUITABLE METHOD

SOLUZIONE #1 – NON ADATTA ALLO SMORZAMENTO DELLE VIBRAZIONI

Un singolo contatto che poggia direttamente sulla barra non offre sufficiente bloccaggio perché il **punto di contatto è solo 1**.

SOLUTION #1 – NOT SUITABLE FOR EFFICIENT VIBRATION DAMPING

Single locking pushing directly on the bar. Will not offer sufficient hold as there is **only 1 contact point**.



METODO POCO ADATTO / SUITABLE METHOD

SOLUZIONE #2 – POCO ADATTA ALLO SMORZAMENTO DELLE VIBRAZIONI

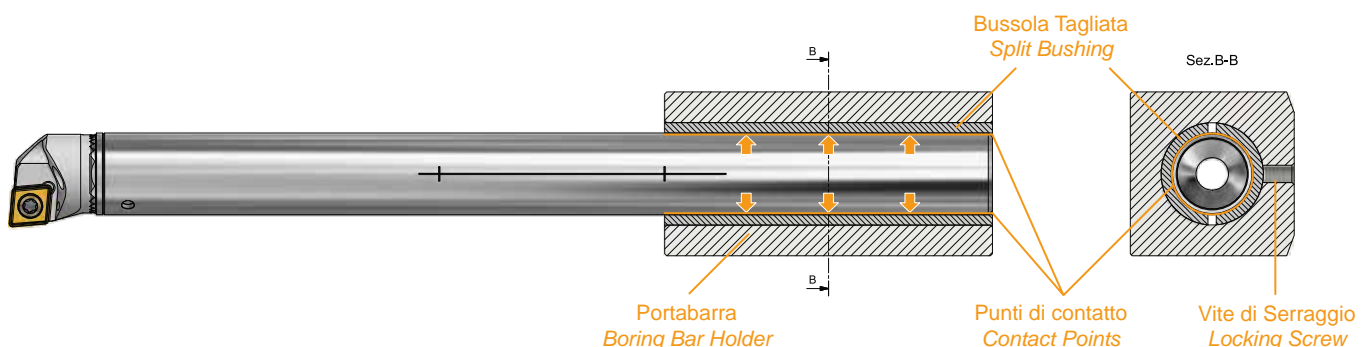
Un singolo contatto che poggia sulla barra attraverso una BUSSOLA TAGLIATA. Nonostante il singolo contatto, la forza di serraggio è distribuita lungo la lunghezza della bussola tagliata.

Offre un sistema adatto, ma non perfetto, per lo smorzamento delle vibrazioni.

SOLUTION #2 – SUITABLE FOR VIBRATION DAMPING

Single locking pushing on the bar through a SPLIT BUSHING. Despite the single contact the clamping force is distributed along the length of the split bushing.

It offers a suitable system for vibration damping.



Metodo di bloccaggio della barra

Bar holding methods

 **METODO MOLTO BUONO / VERY GOOD METHOD** con / with **ModulSTAR System - MSS-E9**

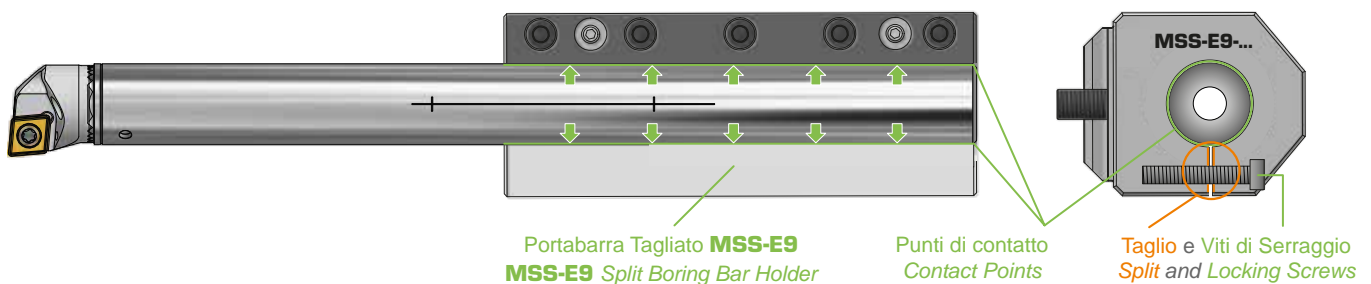
SOLUZIONE #3 – MOLTO BUONA PER LO SMORZAMENTO DELLE VIBRAZIONI

Serraggio **MULTIPLO** grazie alle viti che bloccano la barra attraverso il **PORTABARRA TAGLIATO “MSS-E9”** progettato appositamente per le barre antivibranti **DABtool**, garantendo altissima forza di bloccaggio. **Questo metodo un validissimo sistema per lo smorzamento delle vibrazioni.**

SOLUTION #3 – VERY GOOD FOR VIBRATION DAMPING

MULTIPLE locking screws pushing on the bar through a **SPLIT BORING BAR HOLDER “MSS-E9”** specially designed for **DABtool** anti-vibration bars, ensuring very high clamping force. **It provides a very good solution for vibration damping.**

ModulSTAR system MSS-E9... disponibile per barre / available for bar **D16 / D20 / D25 / D32 / D40**



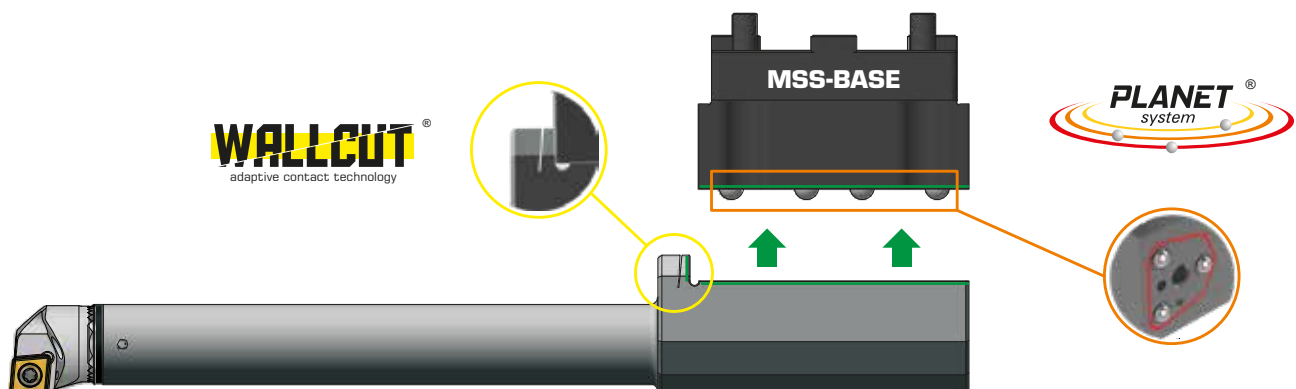
 **METODO OTTIMALE / EXCELLENT METHOD** con / with **ModulSTAR System - MSS-ANS/AFS**

SOLUZIONE #4 – OTTIMALE PER LO SMORZAMENTO DELLE VIBRAZIONI

Grazie al **PLANET system** con posizionamento a tre sfere e alla tecnologia di contatto adattiva **WALLCUT**, la rigidità del sistema e la **massima forza di bloccaggio** sono garantite. **Questo metodo è il migliore per lo smorzamento delle vibrazioni.**

SOLUTION #4 – EXCELLENT FOR VIBRATION DAMPING

Thanks to the **PLANET system** with three-sphere positioning and **WALLCUT** adaptive contact technology, the rigidity of the system and **maximum clamping force** are guaranteed. **It provides the best solution for vibration damping.**



ModulSTAR system MSS-ANS/AFS

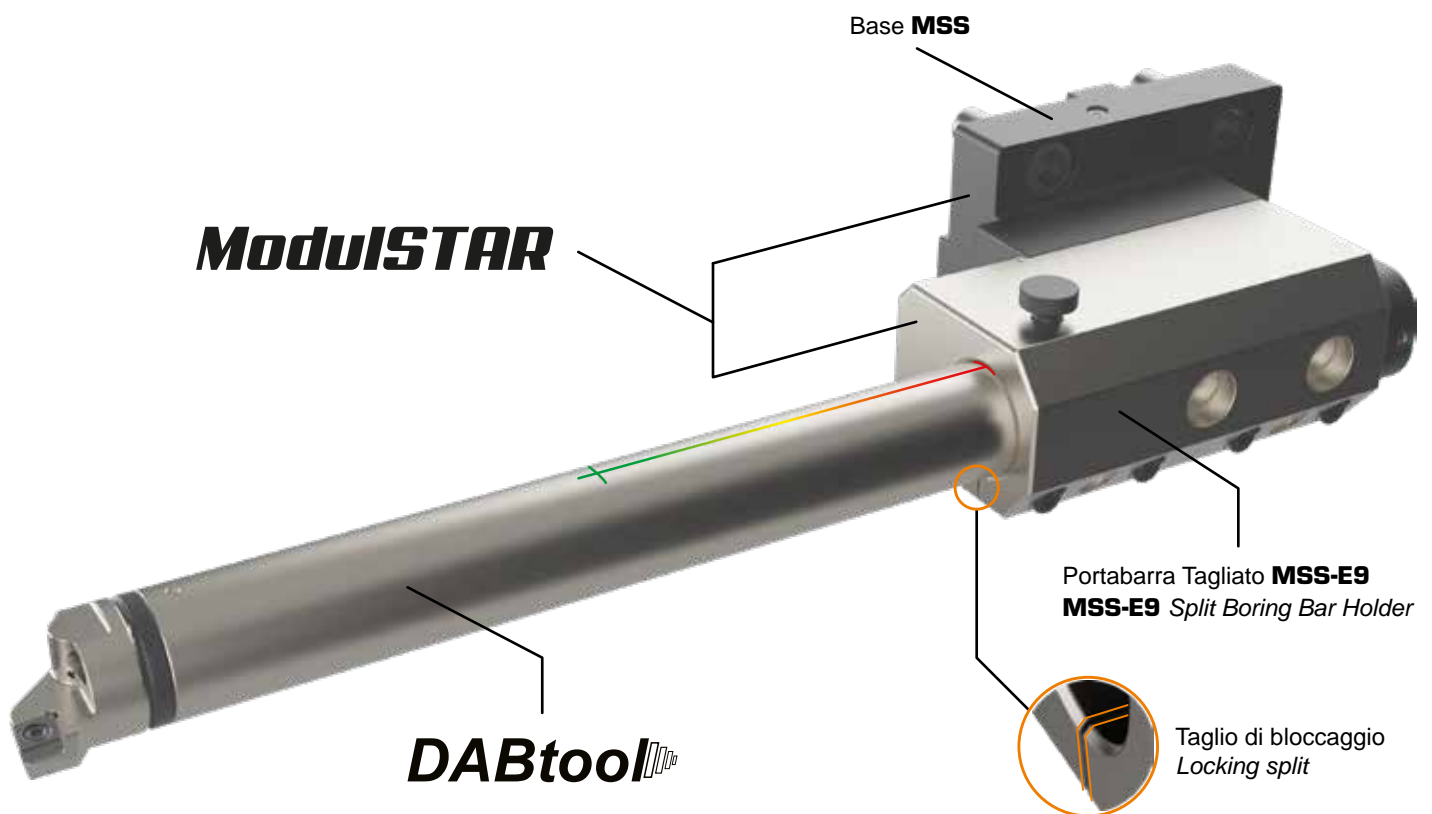
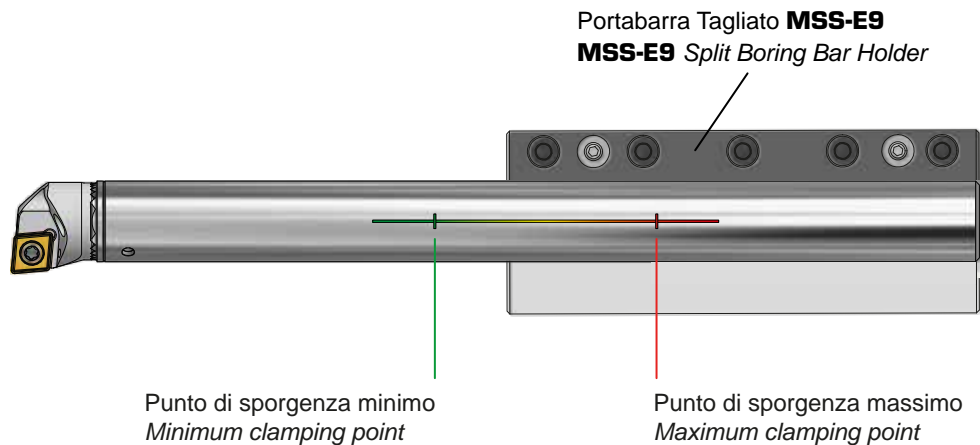


Metodo di centraggio della barra

Bar centering methods

Trovare il centraggio perfetto nelle barre antivibranti **DABtool** è molto semplice: basta regolarsi con la linea tracciata sulla barra e posizionarsi tra le due tacche limite.

*Perfect centering in the **DABtool** anti-vibration boring bars is very simple: adjust with the line drawn on the bar and position between the two notches.*



Massima performance

Best performance

Bisogna tenere in considerazione alcune variabili per essere certi che le barre antivibranti **DABtool** si esprimano al massimo del proprio potenziale.

Un metodo "a colpo d'occhio" è dato dalla "matrice di vibrazioni" che tiene conto di tutte le variabili potenziali che possono determinare le prestazioni della barra antivibrante.

La scelta di un inserto "sbagliato" nella sua geometria, nel raggio, nell'angolo di taglio e/o spoglia e le condizioni del tagliente influiscono negativamente sulla lavorazione.

Utilizzare il raggio più piccolo possibile dell'inserto per le lavorazioni, come:

- **V** per **profilatura e finitura**
- **D** per **lavorazioni generali**
- **T** per **sgrossatura superficiale e finitura**
- **C** per **sgrossatura profonda**

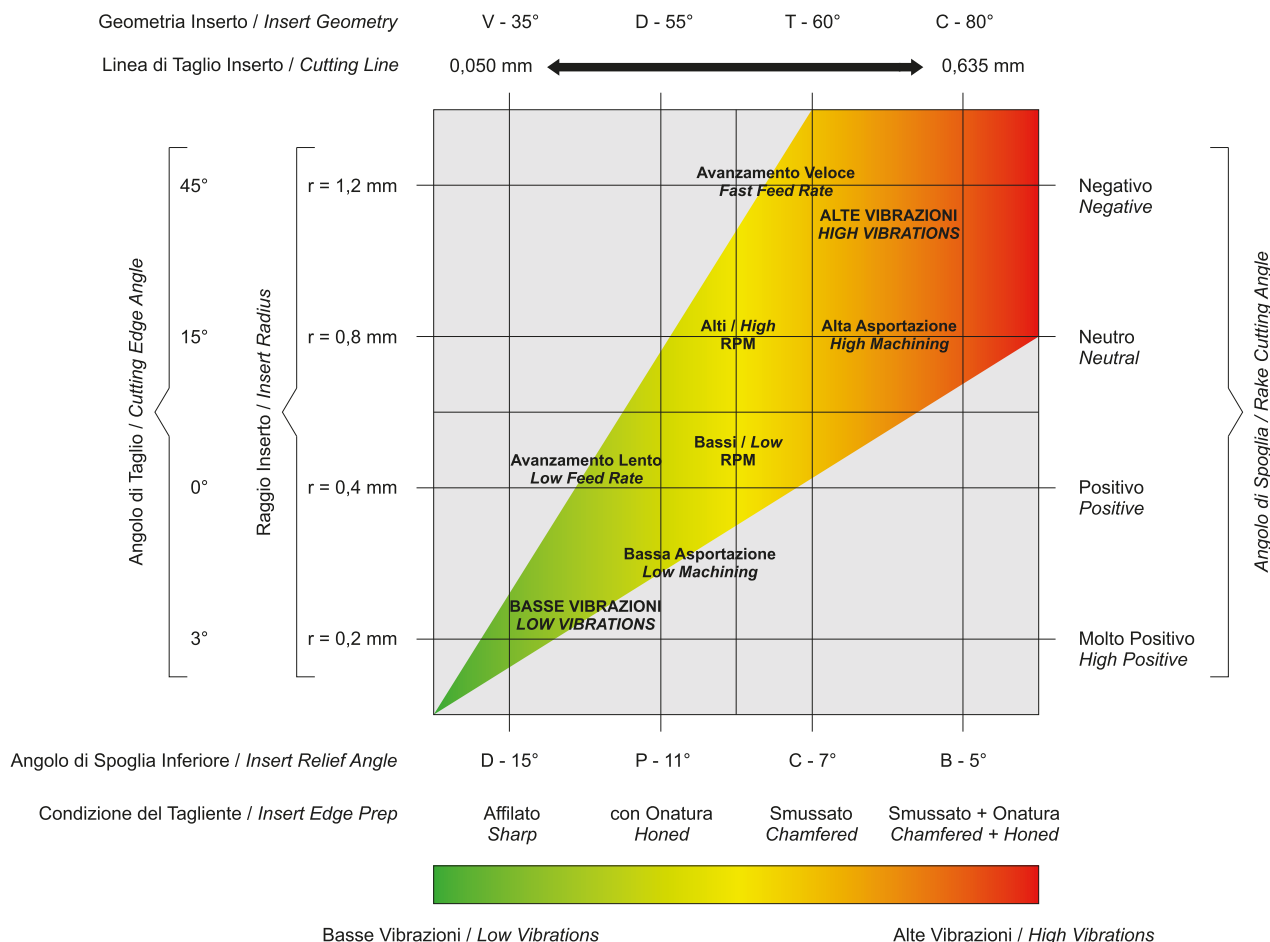
*Many variables must be taken into consideration to make sure your **DABtool** boring bars are always performing at the peak of their specifications.*

An "at a glance" method is given by the "vibration matrix" which takes into account all potential variables that can determine the antivibration bar's performance.

Choosing an "incorrect" insert in its geometry, radius, cut and / or blade angle and cutting edge conditions will adversely affect machining.

Use the smallest insert angle geometry for the operation, like:

- **V** for **profiling and finishing**
- **D** for **general application**
- **T** for **light roughing and finishing**
- **C** for **heavy roughing**



Parametri di taglio

Cutting parameters

	MATERIALE MATERIAL	INSERTO INSERT	VELOCITÀ DI TAGLIO CUTTING SPEED	PROFONDITÀ DI TAGLIO CUTTING DEPTH	AVANZAMENTO FEED
P	Acciaio legato <i>Alloy steel</i>	DCMT 11T304	200 m/min	0.5 mm	0.15 mm/rev
M	Acciaio inox <i>Stainless steel</i>	DCMT 11T304	150 m/min	0.5 mm	0.15 mm/rev
K	Ghisa <i>Cast iron</i>	DCMT 11T304	250 m/min	0.5 mm	0.15 mm/rev
N	Alluminio <i>Aluminium</i>	DCGT 11T304	600 m/min	0.5 mm	0.15 mm/rev
S	Superleghe <i>Superalloys</i>	DCMT 11T304	80 m/min	0.5 mm	0.15 mm/rev
H	Acciaio temprato <i>Hardened steel</i>	DCGW 11T304	100 m/min	0.25 mm	0.15 mm/rev



Progettazione e realizzazione

Design and production

LE BARRE **DABtool** SONO PROGETTATE, TESTATE E APPROVATE PER L'USO IN COMAND TOOL. TUTTI I PROCESSI SONO ESEGUITI ALL'INTERNO DELL'AZIENDA PER CONTROLLARE COSTANTEMENTE LA PRODUZIONE E GARANTIRE LA MASSIMA QUALITÀ.

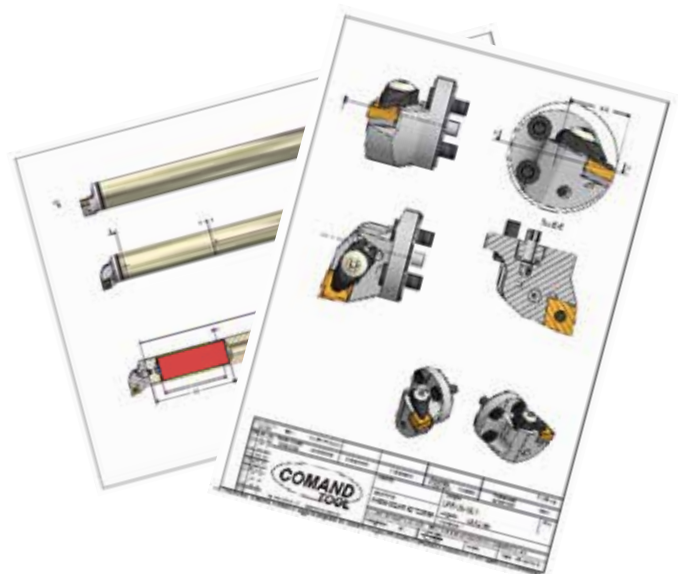
*THE **DABtool** ARE DESIGNED, ENGINEERED TESTED AND VALIDATED IN COMAD TOOL. PRODUCTION PROCESS IS KEPT WITHIN THE COMPANY TO MAINTAIN CONSTANT CONTROL OF QUALITY AND SPECIFICATION.*



Comand Tool progetta e sviluppa ogni barra e ogni singola testina nei minimi dettagli. È necessaria la massima precisione per realizzarle, per questo il controllo è costante in tutte le fasi del processo di produzione.

Comand Tool designs, develops and engineers each bar and each head down to the last detail. When maximum precision is required bars and head must be seen through every step of production.

Frequent quality controls are carried out during all of the production process.



Le barre e le testine **DABtool** sono realizzate con sistemi tecnologici e utensili di ultima generazione. Tavole girevoli a 5 assi e centri di lavoro di ultima generazione consentono di produrre e assicurare altissima qualità alla linea **DABtool**.

*Cutting edge technology for fast and precise production of **DABtool** heads. 5 axis direct drive rotary tables, brand new machine tools and the most accurate positioning systems to ensure quality in every step of the production line.*



Test d'esempio

Example test

DABtool utilizzata per il test AFS50-10-668:
700 mm lunghezza (D 50 - 10 x D)
500 mm - porzione di barra fuori dal bloccaggio
Tipo testina: CS40-STUCR-16
Inserto: TCMT16T304-CT4125

Lavorazione - Sgrossatura profonda
Diametro esterno pezzo: 120 mm
Diametro interno lavorato: 85 mm
Profondità di taglio (a_p): 1,5 mm
N° passate: 4
Velocità di taglio (v_c): 200 mt/min
Velocità di avanzamento (f_n): 0,2 mm

DABtool used for the test AFS50-10-668:
700 mm length (D 50 - 10 x D)
500 mm - portion of bar out of tool holder
Head: CS40-STUCR-16
Insert: TCMT16T304-CT4125

Machining - Deep grooving
External diameter: 120 mm
Internal diameter machining: 85 mm
Depth cut (a_p): 1,5 mm
Nr machining operations: 4
Cutting speed (v_c): 200 mt/min
Feed rate (f_n): 0,2 mm

RISULTATI:

Nonostante la difficoltà per ottenere buone finiture con l'acciaio **Fe510C** il risultato è stato molto positivo. La **manca** di vibrazioni e la **stabilità dell'utensile** hanno consentito di raggiungere **Ra 1,9** finitura.

Tipicamente i risultati di Ra da diversi processi di lavorazione sono i seguenti:

- Fresatura Ra 3,2
- Rettifica Ra 1,6
- Lappatura 0,8

Il test ha evidenziato come, con le barre **DABtool**, si possa ottenere fin da subito una lavorazione molto vicina ai valori della rettifica e quindi una superficie interna lavorata con ottimi risultati in sgrossatura e finitura, il tutto con un solo utensile.

RESULTS:

Despite the difficulty of achieving good finishes with Fe510C steel the result was very positive. Lack of vibrations and tool stability allowed to reach Ra 1,9 finish.

Typically Ra results from different machining processes are the following:

- Milling Ra 3,2
- Grinding Ra 1,6
- Honing 0,8

The test was a fraction above grinding process so **DABtool** managed to provide a machined internal surface with excellent values in finish and rough cutting, all with one tool.



Chiave di lettura dei Codici - Minibarre

MiniDABtool

Code Key - Minibars

esempio codice / example code

1	2	3	4	5	6
S	F	S	10	06	SCLCR-06

1 - Barra / Bar
S
Barra senza refrigerazione Bars without coolant hole

2 - Caratteristiche Barra / Bar Features
F
Con Dispositivo Antivibrante With Antivibration device

3 - Materiale Barra / Bar Material	
S	H
Acciaio Steel	Metallo Duro all'interno Solid Carbide inside

4 - Diametro Barra / Boring Bar Diameter	
10	12
D	

5 - Rapporto / Boring Ratio		
06	08	10
SFS...	SFH...	

6 - Testina - Inserto / Head - Insert		
SCLCR/L-06	SDUCR/L-07	STUCR/L-09
CC..06	DC..07	TC..09

Chiave di lettura dei Codici - Barre

DABtool

Code Key - Bars

esempio codice / example code

1	2	3	4	5	6	7
A	F	H	25	12	380	CS25


1 - Barra / Bar
A
Barra con Foro Refrigerazione Bars with Coolant Hole

2 - Caratteristiche Barra / Bar Features	
F	N
Con Dispositivo Antivibrante With Antivibration device	Senza Dispositivo Antivibrante Without Antivibration device

3 - Materiale Barra / Bar Material	
S	H
Attacco in Acciaio Steel Shank	Metallo Duro all'interno Carbide Shank inside

4 - Diametro Barra / Boring Bar Diameter								
16	20	25	32	40	50	60	80	100
D								

5 - Lunghezza di Lavoro x D / Work Length x D					
05	06	08	10	12	14
ANS...	AFS...	AFH16 / AFS...		AFH...	

6 - Lunghezza Totale Barra / Total Bar Length

L

7 - Sistema Attacco Testina / Shank Head System				
CS16	CS20	CS25	CS32	CS40
D16	D20	D25	D32	D40

Chiave di lettura dei Codici - Baren

ModulSTAR

Code Key - Boring Bars

esempio codice / example code

0	1	2	3	4	5
MSS	A	N	S	32	128

0 - Famiglia / Family
MSS
ModulSTAR System

1 - Barra
A
Boring Bar

2 - Caratteristiche Attacco / Shank's Features	
N	F
Senza Dispositivo Antivibrante Without Antivibrations Device	Con Dispositivo Antivibrante With Antivibrations Device

3 - Materiale / Material	
S	H
Acciaio / Steel	MD interno Carbide inside

4 - Diametro Barra / Boring Bar Diameter (D)						
16	20	25	32	40	50	60

5 - Lunghezza di Lavoro / Work Length	
3 / 4 / 5 / 6 / 7 / 8 / 10 x D	
Ricavata dal numero di ripetizioni del Diametro Barra (D) Obtained from the number of repetitions of the Bar Diameter (D)	




Chiave di lettura Codici - Testine **DABtool** ModulSTAR







Code Key - Heads

esempio codice / example code




0	1	2	3	4	5	9
CS20	S	C	L	C	R	09



0 - Sistema / System D Attacco Testina / D Shank Head				
CS16	CS20	CS25	CS32	CS40
D16	D20	D25	D32	D40

1 - Sistema Bloccaggio / Clamping Type		
D 	P 	S 
Staffa+Vite / Clamp+Screw	Leva / Lever	Vite / Screw

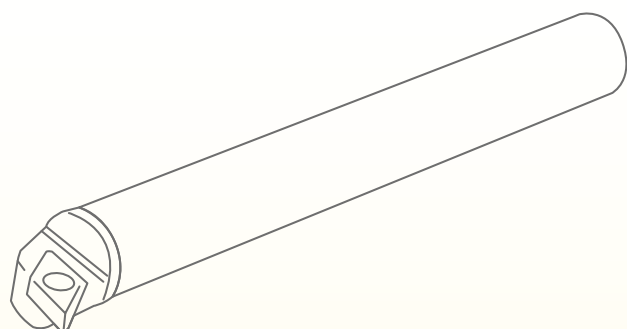
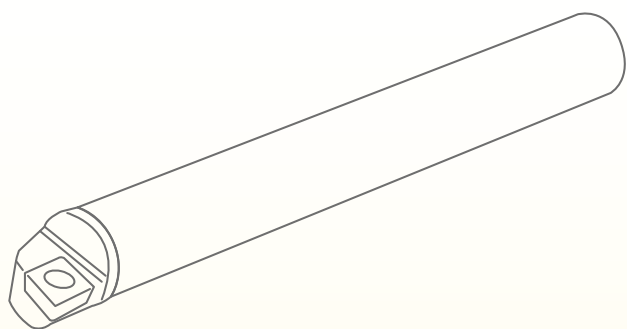
2 - Forma dell'Inserto / Insert Shape					
					
C - 80°	D - 55°	T - 60°	V - 35°	W - 80°	I - 60°

3 - Tipo di Attacco / Shank Type					
L	N	Q	R	U	X
95°	63°	15°	75°	93°	Special

4 - Angolo Spoglia Inserto / Rake Angles		
B 	C 	N 
B - 5°	C - 7°	N - 0°

5 - Lato Lavorazione / Machining Side	
R 	L 
Destra / Right	Sinistra / Left

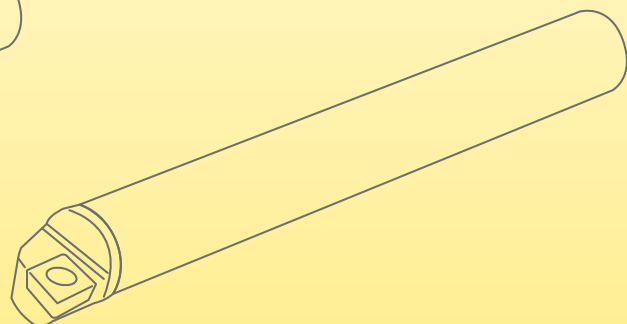
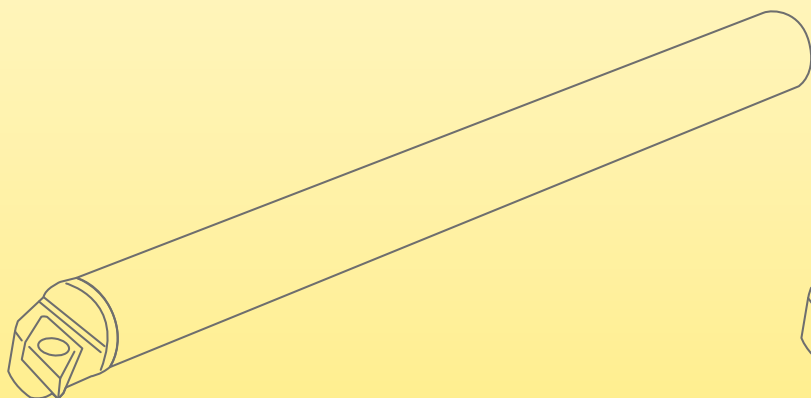
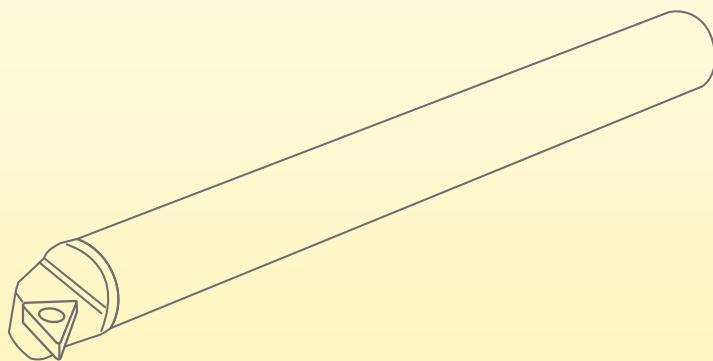
9 - Lunghezza Tagliante / Cutting Edge Length											
C 	D 	T 	V 	W 	I 						
09	12	07	11	15	11	16	22	11	16	08	16



SFS / SFH

Minibarre Antivibranti / *Antivibration Minibars*

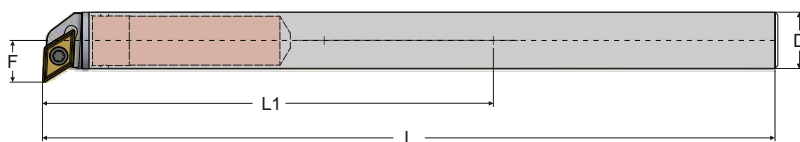
MiniDABtool 



MiniDABtool SFS10 6 x D

integral

Minibarre Integrali Antivibranti D10 - 6xD / Antivibration Integral Minibars D10 - 6xD



Inserti disponibili / Available inserts



95°

SCLCR/L06



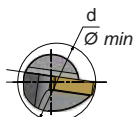
93°

SDUCR/L07



93°

STUCR/L09



damper

acciaio
steel

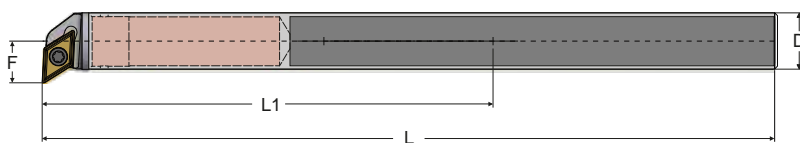
si può tagliare
can be cut

Codice Articolo Item Code	D	Rapporto Boring Ratio	Inserto Insert	L	L1	F	d Ø min			Peso Weight
SFS10-06-SCLCR06	10	6 x D	CCMT06	110	60	5,5	12	TX2506	BTX08	0,10 kg
SFS10-06-SDUCR07	10	6 x D	DCMT07	110	60	8	14	TX2506	BTX08	0,10 kg
SFS10-06-STUCR09	10	6 x D	TCMT09	110	60	6	12	TX2207	BTX07	0,10 kg
SFS10-06-SCLCL06	10	6 x D	CCMT06	110	60	5,5	12	TX2506	BTX08	0,10 kg
SFS10-06-SDUCL07	10	6 x D	DCMT07	110	60	8	14	TX2506	BTX08	0,10 kg
SFS10-06-STUCL09	10	6 x D	TCMT09	110	60	6	12	TX2207	BTX07	0,10 kg

MiniDABtool SFH10 8 x D

integral

Minibarre Integrali Antivibranti in Metallo Duro D10 - 8xD / Solid Carbide Antivibration Integral Minibars D10 - 8xD



Inserti disponibili / Available inserts



95°

SCLCR/L06



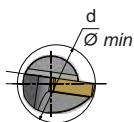
93°

SDUCR/L07



93°

STUCR/L09



damper

metallo duro
solid carbide

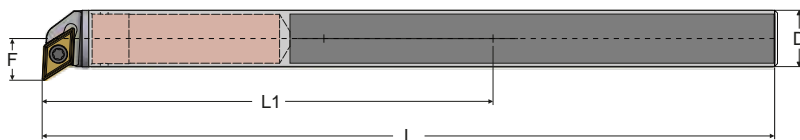
non tagliare
don't cut

Codice Articolo Item Code	D	Rapporto Boring Ratio	Inserto Insert	L	L1	F	d Ø min			Peso Weight
SFH10-08-SCLCR06	10	8 x D	CCMT06	130	80	5,5	12	TX2506	BTX08	0,15 kg
SFH10-08-SDUCR07	10	8 x D	DCMT07	130	80	8	14	TX2506	BTX08	0,15 kg
SFH10-08-STUCR09	10	8 x D	TCMT09	130	80	6	12	TX2207	BTX07	0,15 kg
SFH10-08-SCLCL06	10	8 x D	CCMT06	130	80	5,5	12	TX2506	BTX08	0,15 kg
SFH10-08-SDUCL07	10	8 x D	DCMT07	130	80	8	14	TX2506	BTX08	0,15 kg
SFH10-08-STUCL09	10	8 x D	TCMT09	130	80	6	12	TX2207	BTX07	0,15 kg

MiniDABtool SFH10 10 x D

integral

Minibarre Integrali Antivibranti in Metallo Duro D10 - 10xD / Solid Carbide Antivibration Integral Minibars D10 - 10xD



Inseri disponibili / Available inserts



95°

SCLCR/L06



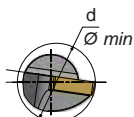
93°

SDUCR/L07



93°

STUCR/L09



damper

metallo duro
solid carbide

non tagliare
don't cut

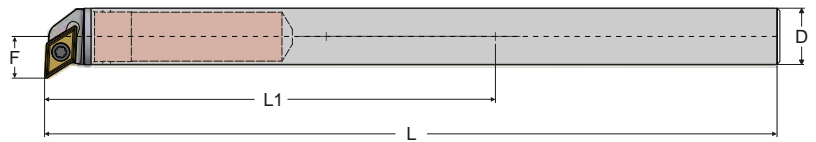
Codice Articolo Item Code	D	Rapporto Boring Ratio	Insero Insert	L	L1	F	d Ø min			Peso Weight
SFH10-10-SCLCR06	10	10 x D	CCMT06	150	100	5,5	12	TX2506	BTX08	0,20 kg
SFH10-10-SDUCR07	10	10 x D	DCMT07	150	100	8	14	TX2506	BTX08	0,20 kg
SFH10-10-STUCR09	10	10 x D	TCMT09	150	100	6	12	TX2207	BTX07	0,20 kg
SFH10-10-SCLCL06	10	10 x D	CCMT06	150	100	5,5	12	TX2506	BTX08	0,20 kg
SFH10-10-SDUCL07	10	10 x D	DCMT07	150	100	8	14	TX2506	BTX08	0,20 kg
SFH10-10-STUCL09	10	10 x D	TCMT09	150	100	6	12	TX2207	BTX07	0,20 kg



MiniDABtool SFS12 6 x D

integral

Minibarre Integrali Antivibranti D12 - 6xD / Antivibration Integral Minibars D12 - 6xD



Inseri disponibili / Available inserts



95°

SCLCR/L06



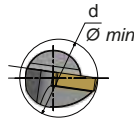
93°

SDUCR/L07



93°

STUCR/L09



damper

acciaio steel

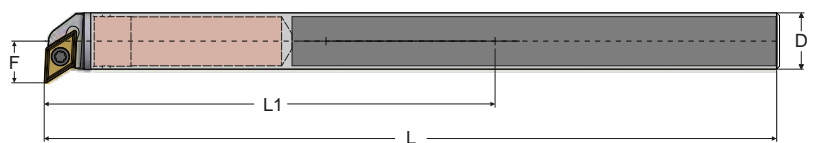
si può tagliare can be cut

Codice Articolo Item Code	D	Rapporto Boring Ratio	Insero Insert	L	L1	F	d Ø min			Peso Weight
SFS12-06-SCLCR06	12	6 x D	CCMT06	132	72	6,5	14	TX2506	BTX08	0,20 kg
SFS12-06-SDUCR07	12	6 x D	DCMT07	132	72	9	16	TX2506	BTX08	0,20 kg
SFS12-06-STUCR09	12	6 x D	TCMT09	132	72	8	15	TX2207	BTX07	0,20 kg
SFS12-06-SCLCL06	12	6 x D	CCMT06	132	72	6,5	14	TX2506	BTX08	0,20 kg
SFS12-06-SDUCL07	12	6 x D	DCMT07	132	72	9	16	TX2506	BTX08	0,20 kg
SFS12-06-STUCL09	12	6 x D	TCMT09	132	72	8	15	TX2207	BTX07	0,20 kg

MiniDABtool SFH12 8 x D

integral

Minibarre Integrali Antivibranti in Metallo Duro D12 - 8xD / Solid Carbide Antivibration Integral Minibars D12 - 8xD

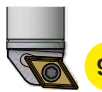


Inseri disponibili / Available inserts



95°

SCLCR/L06



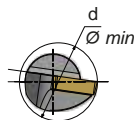
93°

SDUCR/L07



93°

STUCR/L09



damper

metallo duro
solid carbide

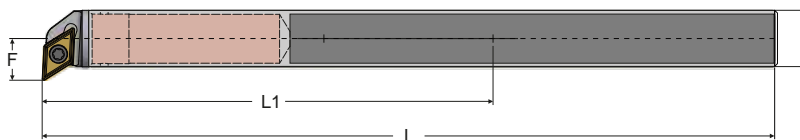
non tagliare
don't cut

Codice Articolo Item Code	D	Rapporto Boring Ratio	Insero Insert	L	L1	F	d Ø min			Peso Weight
SFH12-08-SCLCR06	10	8 x D	CCMT06	156	96	6,5	14	TX2506	BTX08	0,25 kg
SFH12-08-SDUCR07	10	8 x D	DCMT07	156	96	9	16	TX2506	BTX08	0,25 kg
SFH12-08-STUCR09	10	8 x D	TCMT09	156	96	8	15	TX2207	BTX07	0,25 kg
SFH12-08-SCLCL06	10	8 x D	CCMT06	156	96	6,5	14	TX2506	BTX08	0,25 kg
SFH12-08-SDUCL07	10	8 x D	DCMT07	156	96	9	16	TX2506	BTX08	0,25 kg
SFH12-08-STUCL09	10	8 x D	TCMT09	156	96	8	15	TX2207	BTX07	0,25 kg

MiniDABtool[®] SFH12 10 x D

integral

Minibarre Integrali Antivibranti in Metallo Duro D12 - 10xD / Solid Carbide Antivibration Integral Minibars D12 - 10xD



Inseri disponibili / Available inserts



95°

SCLCR/L06



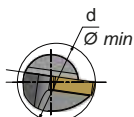
93°

SDUCR/L07



93°

STUCR/L09



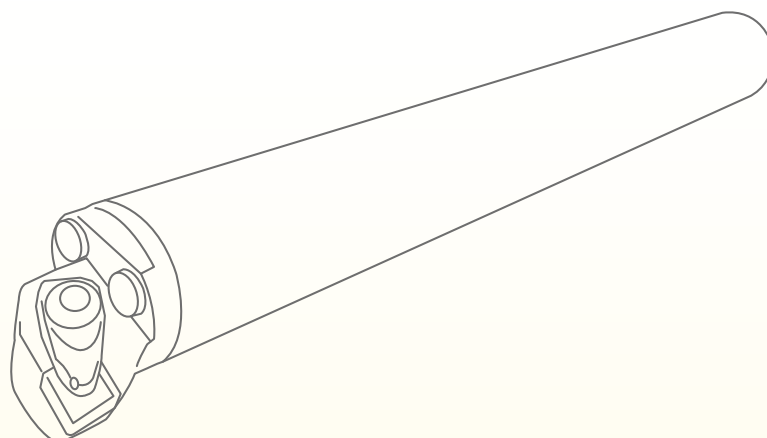
damper

metallo duro
solid carbide

non tagliare
don't cut

Codice Articolo Item Code	D	Rapporto Boring Ratio	Insero Insert	L	L1	F	d Ø min			Peso Weight
SFH12-10-SCLCR06	12	10 x D	CCMT06	180	120	6,5	14	TX2506	BTX08	0,30 kg
SFH12-10-SDUCR07	12	10 x D	DCMT07	180	120	9	16	TX2506	BTX08	0,30 kg
SFH12-10-STUCR09	12	10 x D	TCMT09	180	120	8	15	TX2207	BTX07	0,30 kg
SFH12-10-SCLCL06	12	10 x D	CCMT06	180	120	6,5	14	TX2506	BTX08	0,30 kg
SFH12-10-SDUCL07	12	10 x D	DCMT07	180	120	9	16	TX2506	BTX08	0,30 kg
SFH12-10-STUCL09	12	10 x D	TCMT09	180	120	8	15	TX2207	BTX07	0,30 kg

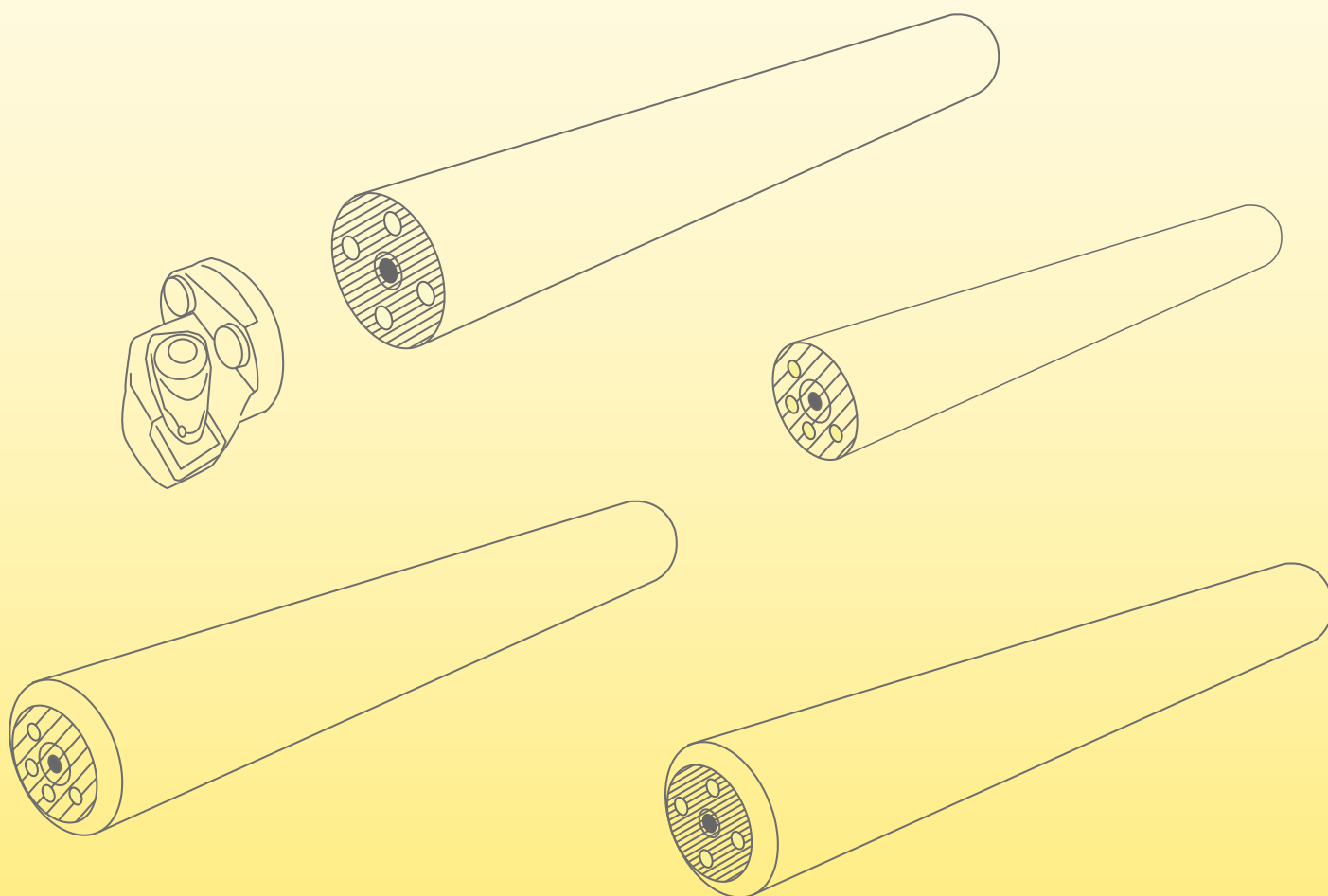




AFS / AFH

Barre Antivibranti / *Antivibration Boring Bars*

DABtool 

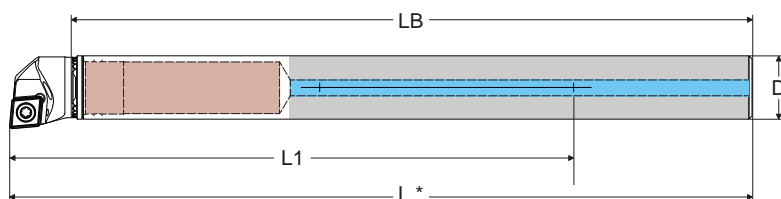


DABtool AFS16

6 x D



Barre Antivibranti D16 - CS16 / Antivibration Bars D16 - CS16



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS16-06-140	16	6 x D	160	96	140	-	0,30 kg

Testine / Heads



CS16

Parti di Ricambio / Spare Parts

1



TX3010
10 pz / pcs

2



BTX09
1 pz / pc

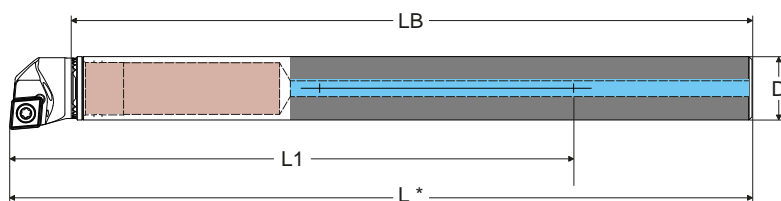
3

DABtool AFH16

8/10 x D



Barre Antivibranti in Metallo Duro D16 - CS16 / Solid Carbide Antivibration Bars D16 - CS16



damper

metallo duro solid carbide

non tagliare don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH16-08-172	16	8 x D	192	128	172	-	0,40 kg
AFH16-10-204	16	10 x D	224	160	204	-	0,50 kg

Testine / Heads



CS16

Parti di Ricambio / Spare Parts

1



TX3010
10 pz / pcs

2



BTX09
1 pz / pc

3

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

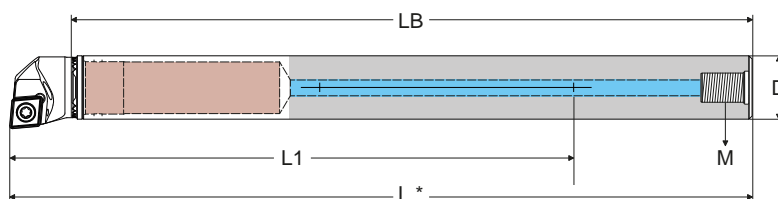


DABtool AFS20

6/8/10 x D



Barre Antivibranti D20 - CS20 / Antivibration Bars D20 - CS20



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS20-06-180	20	6 x D	200	120	180	1/4 G	0,45 kg
AFS20-08-220	20	8 x D	240	160	220	1/4 G	0,60 kg
AFS20-10-260	20	10 x D	280	200	260	1/4 G	0,70 kg

Testine / Heads



CS20

Parti di Ricambio / Spare Parts



CSC72
5 pz / pcs



VB0308
10 pz / pcs



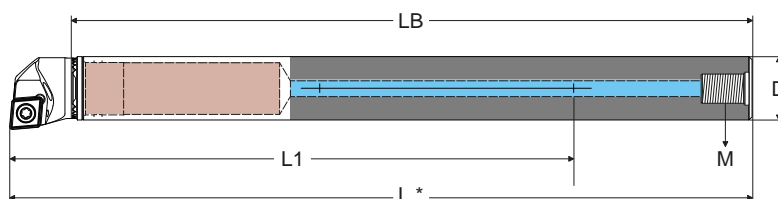
CBR25
1 pz / pc

DABtool AFH20

12/14 x D



Barre Antivibranti in Metallo Duro D20 - CS20 / Solid Carbide Antivibration Bars D20 - CS20



damper

metallo duro solid carbide

non tagliare don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH20-12-300	20	12 x D	320	240	300	1/8 G	1,30 kg
AFH20-14-340	20	14 x D	360	280	340	1/8 G	1,45 kg

Testine / Heads



CS20

Parti di Ricambio / Spare Parts



CSC72
5 pz / pcs



VB0308
10 pz / pcs



CBR25
1 pz / pc

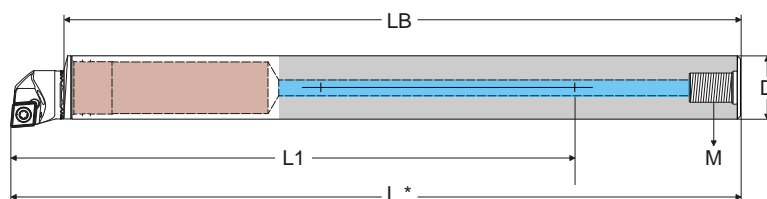
* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used



DABtool AFS25 6/8/10 x D



Barre Antivibranti D25 - CS20 / Antivibration Bars D25 - CS20



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS25-06-230	25	6 x D	250	150	230	1/4 G	0,90 kg
AFS25-08-280	25	8 x D	300	200	280	1/4 G	1,10 kg
AFS25-10-330	25	10 x D	350	250	330	1/4 G	1,30 kg

Testine / Heads



CS20

Parti di Ricambio / Spare Parts



CSC72
5 pz / pcs



VB0308
10 pz / pcs

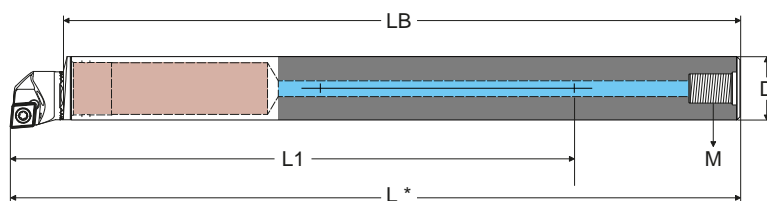


CBR25
1 pz / pc

DABtool AFH25 12/14 x D



Barre Antivibranti in Metallo Duro D25 - CS20 / Solid Carbide Antivibration Bars D25 - CS20



damper

metallo duro solid carbide

non tagliare don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH25-12-380	25	12 x D	400	300	380	1/4 G	2,45 kg
AFH25-14-430	25	14 x D	450	350	430	1/4 G	2,75 kg

Testine / Heads



CS20

Parti di Ricambio / Spare Parts



CSC72
5 pz / pcs



VB0308
10 pz / pcs



CBR25
1 pz / pc

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

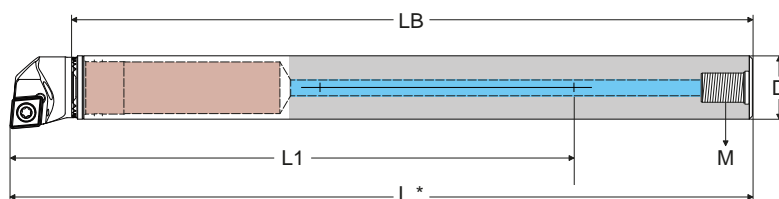


DABtool AFS25

6/8/10 x D



Barre Antivibranti D25 - CS25 / Antivibration Bars D25 - CS25



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS25-06-230-CS25	25	6 x D	250	150	230	1/4 G	0,90 kg
AFS25-08-280-CS25	25	8 x D	300	200	280	1/4 G	1,10 kg
AFS25-10-330-CS25	25	10 x D	350	250	330	1/4 G	1,30 kg

Testine / Heads



CS25

Parti di Ricambio / Spare Parts



TX4012CS
10 pz / pcs



CLX15
1 pz / pc

Parti di Ricambio / Spare Parts - Compat. SANDVIK



VB0410
10 pz / pcs



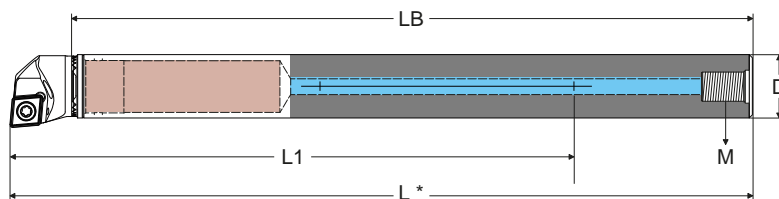
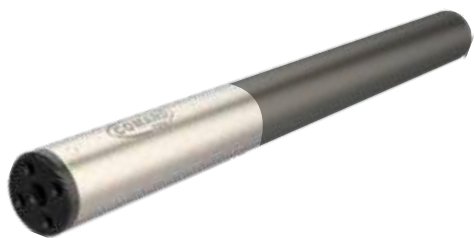
CBR30
1 pz / pc

DABtool AFH25

12/14 x D



Barre Antivibranti in Metallo Duro D25 - CS25 / Solid Carbide Antivibration Bars D25 - CS25



damper

metallo duro
solid carbide

non tagliare
don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH25-12-380-CS25	25	12 x D	400	300	380	1/4 G	2,45 kg
AFH25-14-430-CS25	25	14 x D	450	350	430	1/4 G	2,75 kg

Testine / Heads



CS25

Parti di Ricambio / Spare Parts



TX4012CS
10 pz / pcs



CLX15
1 pz / pc

Parti di Ricambio / Spare Parts - Compat. SANDVIK



VB0410
10 pz / pcs



CBR30
1 pz / pc

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

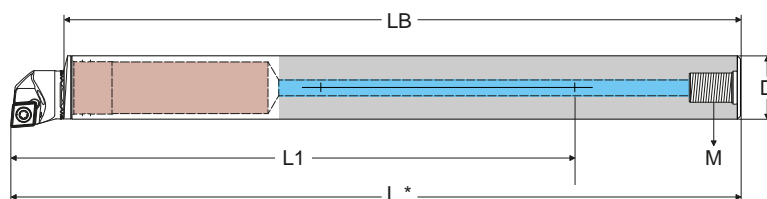


DABtool AFS32

6/8/10 x D



Barre Antivibranti D32 - CS20 / Antivibration Bars D32 - CS20



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS32-06-300	32	6 x D	320	192	300	3/8 G	1,60 kg
AFS32-08-364	32	8 x D	384	256	364	3/8 G	2,20 kg
AFS32-10-428	32	10 x D	448	320	428	3/8 G	3,00 kg

Testine / Heads



CS20

Parti di Ricambio / Spare Parts



CSC72
5 pz / pcs



VB0308
10 pz / pcs



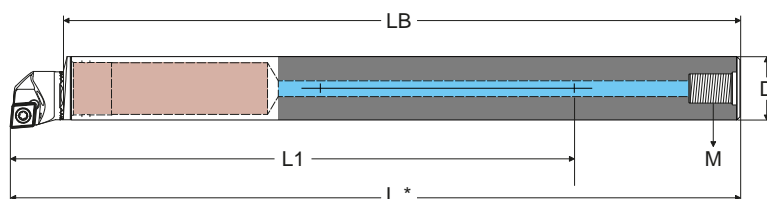
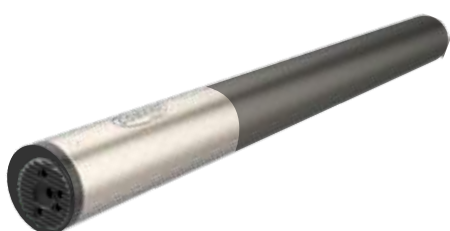
CBR25
1 pz / pc

DABtool AFH32

12/14 x D



Barre Antivibranti in Metallo Duro D32 - CS20 / Solid Carbide Antivibration Bars D32 - CS20



damper

metallo duro solid carbide

non tagliare don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH32-12-492	32	12 x D	512	384	492	1/4 G	5,15 kg
AFH32-14-556	32	14 x D	576	448	556	1/4 G	5,85 kg

Testine / Heads



CS20

Parti di Ricambio / Spare Parts



CSC72
5 pz / pcs



VB0308
10 pz / pcs



CBR25
1 pz / pc

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

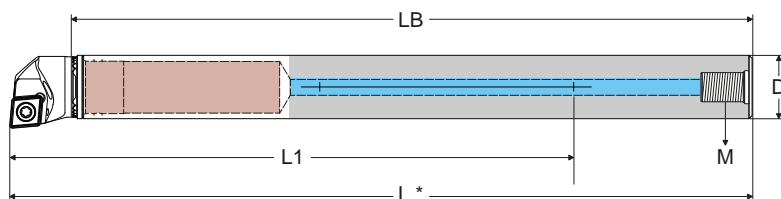


DABtool AFS32

6/8/10 x D



Barre Antivibranti D32 - CS32 / Antivibration Bars D32 - CS32



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS32-06-300-CS32	32	6 x D	320	192	300	3/8 G	1,60 kg
AFS32-08-364-CS32	32	8 x D	384	256	364	3/8 G	2,20 kg
AFS32-10-428-CS32	32	10 x D	448	320	428	3/8 G	3,00 kg

Testine / Heads



CS32

Parti di Ricambio / Spare Parts



TX5018CS
10 pz / pcs



CLX15
1 pz / pc

Parti di Ricambio / Spare Parts - Compat. SANDVIK



VB0512
10 pz / pcs



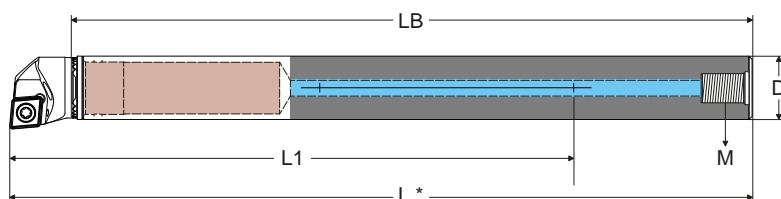
CBR40
1 pz / pc

DABtool AFH32

12/14 x D



Barre Antivibranti in Metallo Duro D32 - CS32 / Solid Carbide Antivibration Bars D32 - CS32



damper

metallo duro
solid carbide

non tagliare
don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH32-12-492-CS32	32	12 x D	512	384	492	1/4 G	5,15 kg
AFH32-14-556-CS32	32	14 x D	576	448	556	1/4 G	5,85 kg

Testine / Heads



CS32

Parti di Ricambio / Spare Parts



TX5018CS
10 pz / pcs



CLX15
1 pz / pc

Parti di Ricambio / Spare Parts - Compat. SANDVIK



VB0512
10 pz / pcs



CBR40
1 pz / pc

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

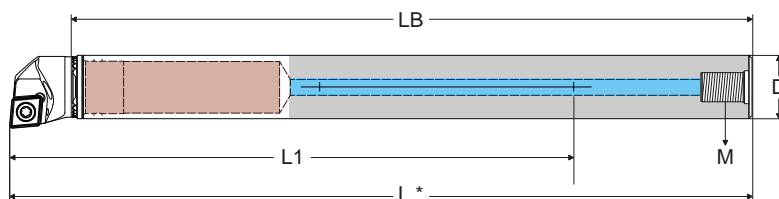


DABtool AFS40

6/8/10 x D



Barre Antivibranti D40 - CS40 / Antivibration Bars D40 - CS40



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS40-06-368	40	6 x D	400	240	368	1/2 G	3,40 kg
AFS40-08-448	40	8 x D	480	320	448	1/2 G	4,00 kg
AFS40-10-528	40	10 x D	560	400	528	1/2 G	5,30 kg

Testine / Heads



CS40

Parti di Ricambio / Spare Parts

1



VB0612
10 pz / pcs

2



CBR50
1 pz / pc

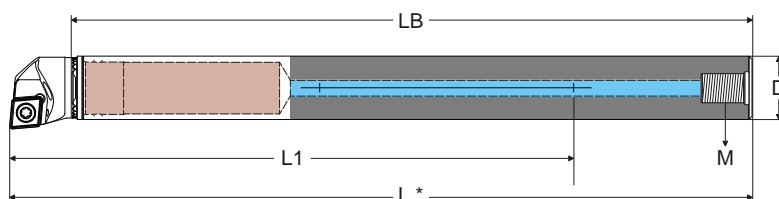
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DABtool AFH40

12/14 x D



Barre Antivibranti D40 - CS40 / Antivibration Bars D40 - CS40



damper

metallo duro
solid carbide

non tagliare
don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH40-12-608	40	12 x D	640	480	608	1/2 G	9,20 kg
AFH40-14-688	40	14 x D	720	560	688	1/2 G	11,00 kg

Testine / Heads



CS40

Parti di Ricambio / Spare Parts

1



VB0612
10 pz / pcs

2



CBR50
1 pz / pc

3

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

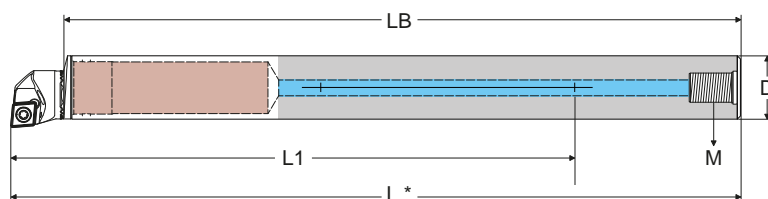


DABtool AFS50

6/8/10 x D



Barre Antivibranti D50 - CS40 / Antivibration Bars D50 - CS40



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS50-06-468	50	6 x D	500	300	468	1/2 G	7,00 kg
AFS50-08-568	50	8 x D	600	400	568	1/2 G	8,20 kg
AFS50-10-668	50	10 x D	700	500	668	1/2 G	11,00 kg

Testine / Heads



CS40

Parti di Ricambio / Spare Parts

1



VB0612
10 pz / pcs

2



CBR50
1 pz / pc

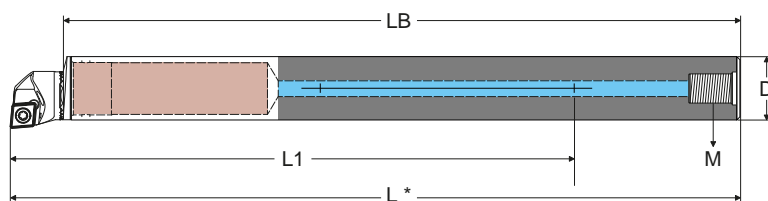
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DABtool AFH50

12/14 x D



Barre Antivibranti D50 - CS40 / Antivibration Bars D50 - CS40



damper

metallo duro solid carbide

non tagliare don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH50-12-768	50	12 x D	800	600	768	1/2 G	20,10 kg
AFH50-14-868	50	14 x D	900	700	868	1/2 G	22,70 kg

Testine / Heads



CS40

Parti di Ricambio / Spare Parts

1



VB0612
10 pz / pcs

2



CBR50
1 pz / pc

3

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

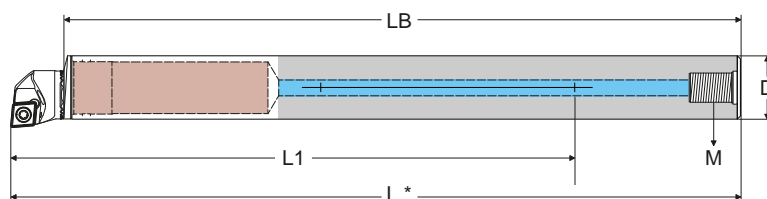


DABtool AFS60

6/8/10 x D



Barre Antivibranti D60 - CS40 / Antivibration Bars D60 - CS40



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS60-06-568	60	6 x D	600	360	568	1/2 G	11,80 kg
AFS60-08-688	60	8 x D	720	480	688	1/2 G	14,20 kg
AFS60-10-808	60	10 x D	840	600	808	1/2 G	19,20 kg

Testine / Heads



CS40

Parti di Ricambio / Spare Parts

1



VB0612
10 pz / pcs

2



CBR50
1 pz / pc

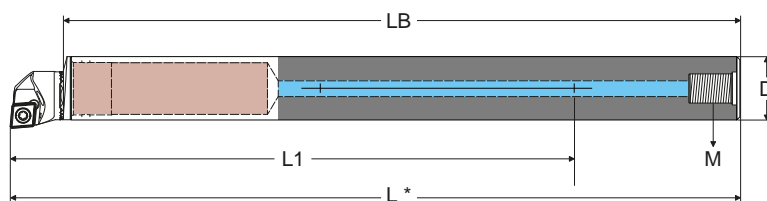
3

DABtool AFH60

12/14 x D



Barre Antivibranti D60 - CS40 / Antivibration Bars D60 - CS40



damper

metallo duro solid carbide

non tagliare don't cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFH60-12-928	60	12 x D	960	720	928	1/2 G	34,40 kg
AFH60-14-1048	60	14 x D	1080	840	1048	1/2 G	38,90 kg

Testine / Heads



CS40

Parti di Ricambio / Spare Parts

1



VB0612
10 pz / pcs

2



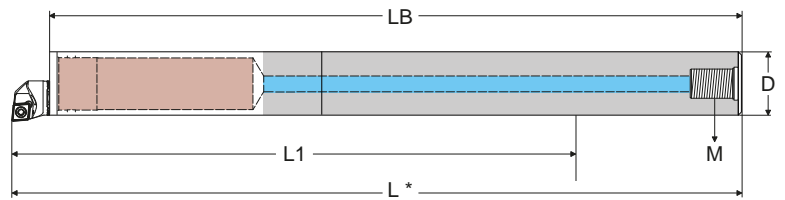
CBR50
1 pz / pc

3

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used




Barre Antivibranti D80 - CS40 / Antivibration Bars D80 - CS40



 damper

 acciaio steel

 si può tagliare can be cut



Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS80-06-768	50	6 x D	800	480	768	1 G	29,00 kg
AFS80-08-928	50	8 x D	960	640	928	1 G	33,00 kg
AFS80-10-1088	50	10 x D	1120	800	1088	1 G	39,00 kg

Testine / Heads



CS40

Parti di Ricambio / Spare Parts

1



VB0612
10 pz / pcs

2



CBR50
1 pz / pc

3

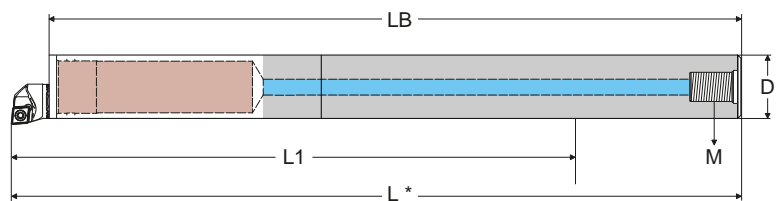
* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used



DABtool AFS100 6/8/10 x D



Barre Antivibranti D100 - CS40 / Antivibration Bars D100 - CS40



damper

acciaio steel

si può tagliare can be cut

AcquaStream

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
AFS100-06-968	100	6 x D	1000	600	968	1 G	55,00 kg
AFS100-08-1168	100	8 x D	1200	800	1168	1 G	66,00 kg
AFS100-10-1368	100	10 x D	1400	1000	1368	1 G	77,00 kg

Testine / Heads



CS40

Parti di Ricambio / Spare Parts

1



VB0612
10 pz / pcs

2

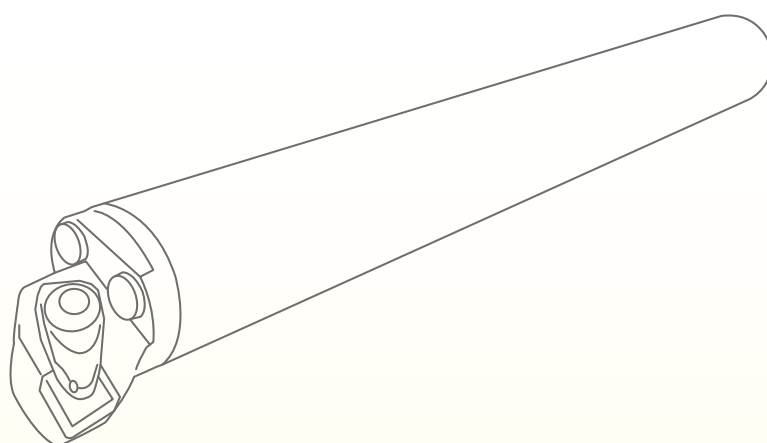


CBR50
1 pz / pc

3

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

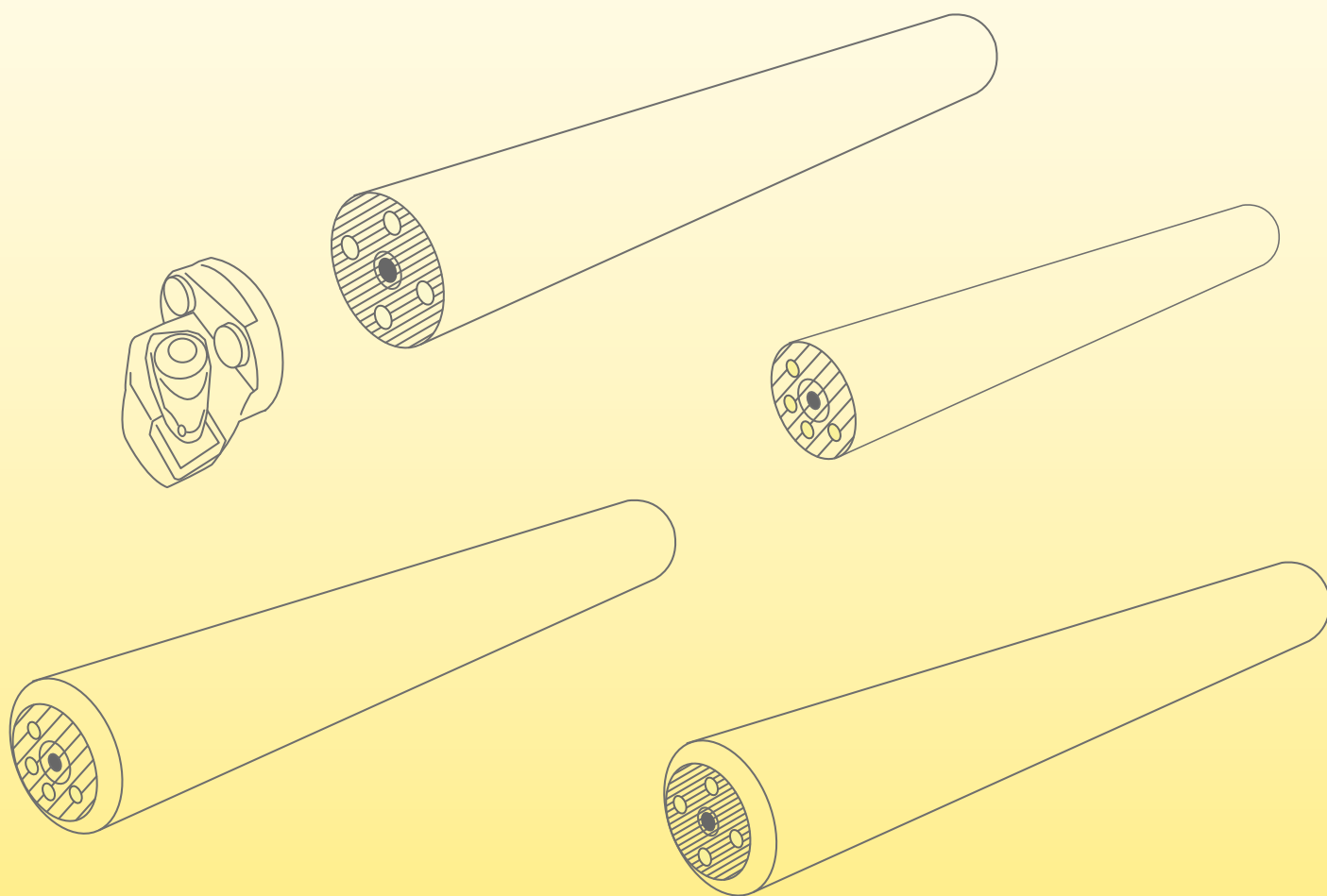




ANS...-05

Barre Modulari

Modular Bars



Barre Modulari ANS20/25/32 5 x D

Barre Modulari per Tornitura Interna CS20/25/32 / Internal Turning Modular Bars CS20/25/32

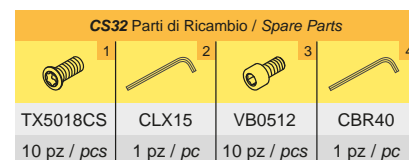
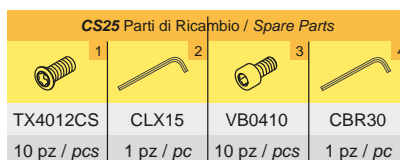
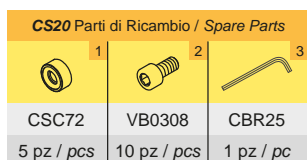
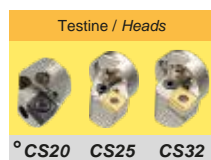


No damper

acciaio steel

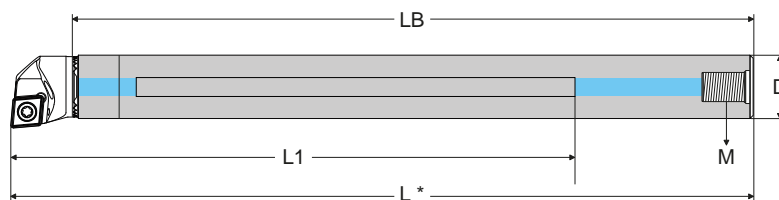
si può tagliare can be cut

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
ANS20-05-160 °	20	5 x D	180	100	160	1/4 G	0,35 kg
ANS25-05-205 °	25	5 x D	225	125	205	1/4 G	0,73 kg
ANS25-05-205-CS25	25	5 x D	225	125	205	1/4 G	0,73 kg
ANS32-05-268 °	32	5 x D	288	800	268	1/4 G	1,60 kg
ANS32-05-268-CS32	32	5 x D	288	800	268	1/4 G	1,60 kg



Barre Modulari ANS40/50/60/80/100 5 x D

Barre Modulari per Tornitura Interna CS40 / Internal Turning Modular Bars CS40



No damper

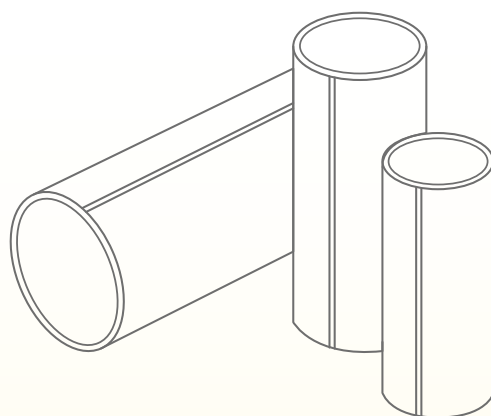
acciaio steel

si può tagliare can be cut

Codice Articolo Item Code	D	Rapporto Boring Ratio	L*	L1	LB	M	Peso Weight
ANS40-05-328	40	5 x D	360	200	328	1/2 G	2,60 kg
ANS50-05-418	50	5 x D	450	250	418	1/2 G	5,70 kg
ANS60-05-508	60	5 x D	540	300	508	1/2 G	10,20 kg
ANS80-05-688	80	5 x D	720	400	688	1 G	42,40 kg
ANS100-05-868	100	5 x D	900	500	868	1 G	53,40 kg




* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

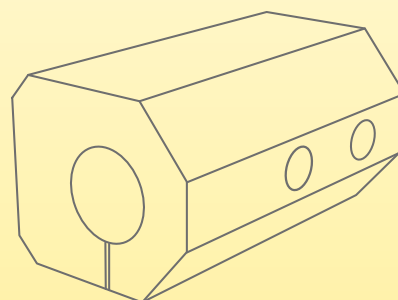
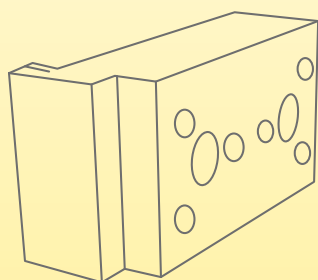


Accessori / Accessories

Bussole - Portabarra

Bushing - Boring Bar Holder

DABtool  - **ModuSTAR**
System

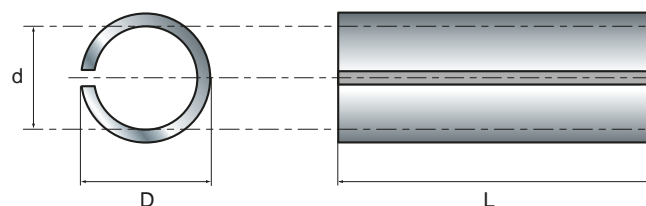


Bussole - BDT...

accessori

Bussole per Bloccaggio Barre / *Boring Bar Holder Bushing*

accessories



Codice Articolo <i>Item Code</i>	d <i>Diametro Interno / Internal Diameter</i>	D <i>Diametro Esterno / External Diameter</i>	L <i>Length</i>
BDT 2016-064	16	20	64
BDT 2516-064	16	25	64
BDT 3216-064	16	32	64
BDT 2520-080	20	25	80
BDT 3220-080	20	32	80
BDT 4020-080	20	40	80
BDT 3225-100	25	32	100
BDT 4025-100	25	40	100
BDT 5025-100	25	50	100
BDT 4032-128	32	40	128
BDT 5032-128	32	50	128
BDT 6032-128	32	60	128
BDT 5040-160	40	50	160
BDT 6040-160	40	60	160
BDT 6050-200	50	60	200

Caratteristiche Generali / *Technical Data*

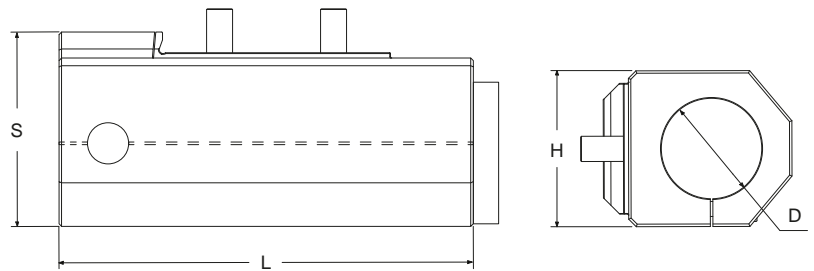
Le **Bussole di Bloccaggio Barra** consentono il corretto fissaggio delle **Barre Antivibranti DABtool** su portautensili.
The Toolholder Bushing allow DABtool Antivibrations Bar to be fixed to the toolholders of the machine tools.

MSS-E9-...

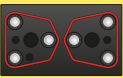

accessori







Portabarra Tagliato per Barre Antivibranti / Split Boring Bar Holder for Antivibrations Bar

accessories

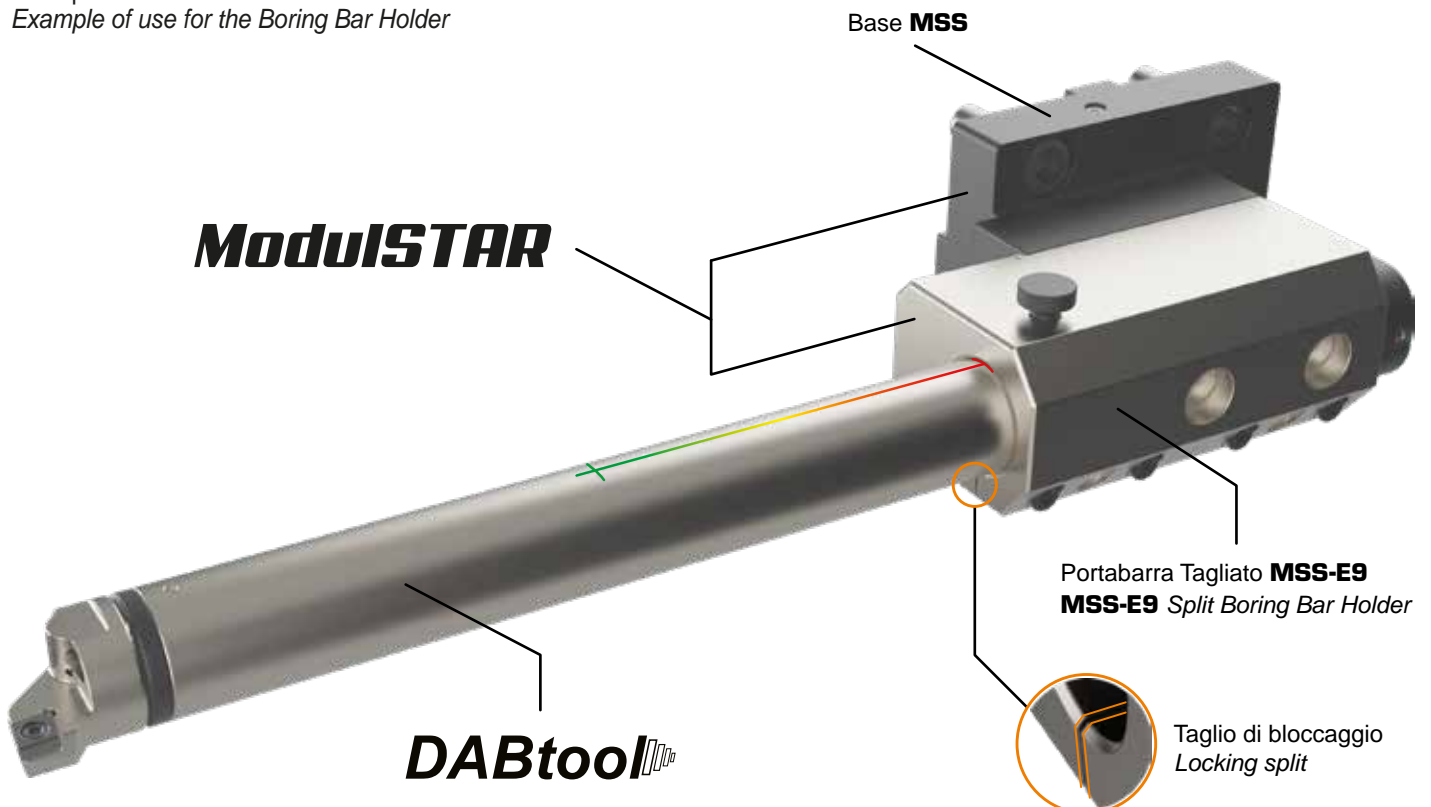


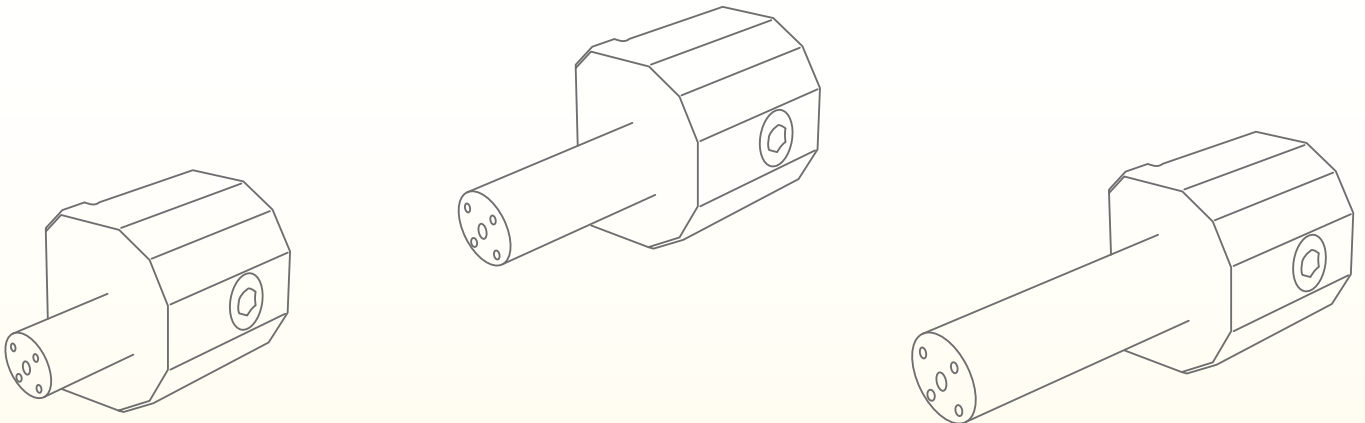
Codice Articolo Item Code	D	H	L	S	Peso Weight
MSS-E9-D16	16	52	102	45	1,46 kg
MSS-E9-D20	20	52	102	45	1,38 kg
MSS-E9-D25	25	52	102	49,5	1,44 kg
MSS-E9-D32	32	58	128	60	2,26 kg
MSS-E9-D40	40	67	160	62	3,10 kg

Base/Base	Viti/Screws
	 2x
MSS	VTR1025

Ricambi / Spare Parts					
	MSS-E9-D16	MSS-E9-D20	MSS-E9-D25	MSS-E9-D32	MSS-E9-D40
					
GR0610	VB0625	VB0625	VB0625	VB0625	VB0625
2 pc/pcs	3 pc/pcs	3 pc/pcs	4 pc/pcs	5 pc/pcs	5 pc/pcs

Esempio di utilizzo del Portabarra
Example of use for the Boring Bar Holder

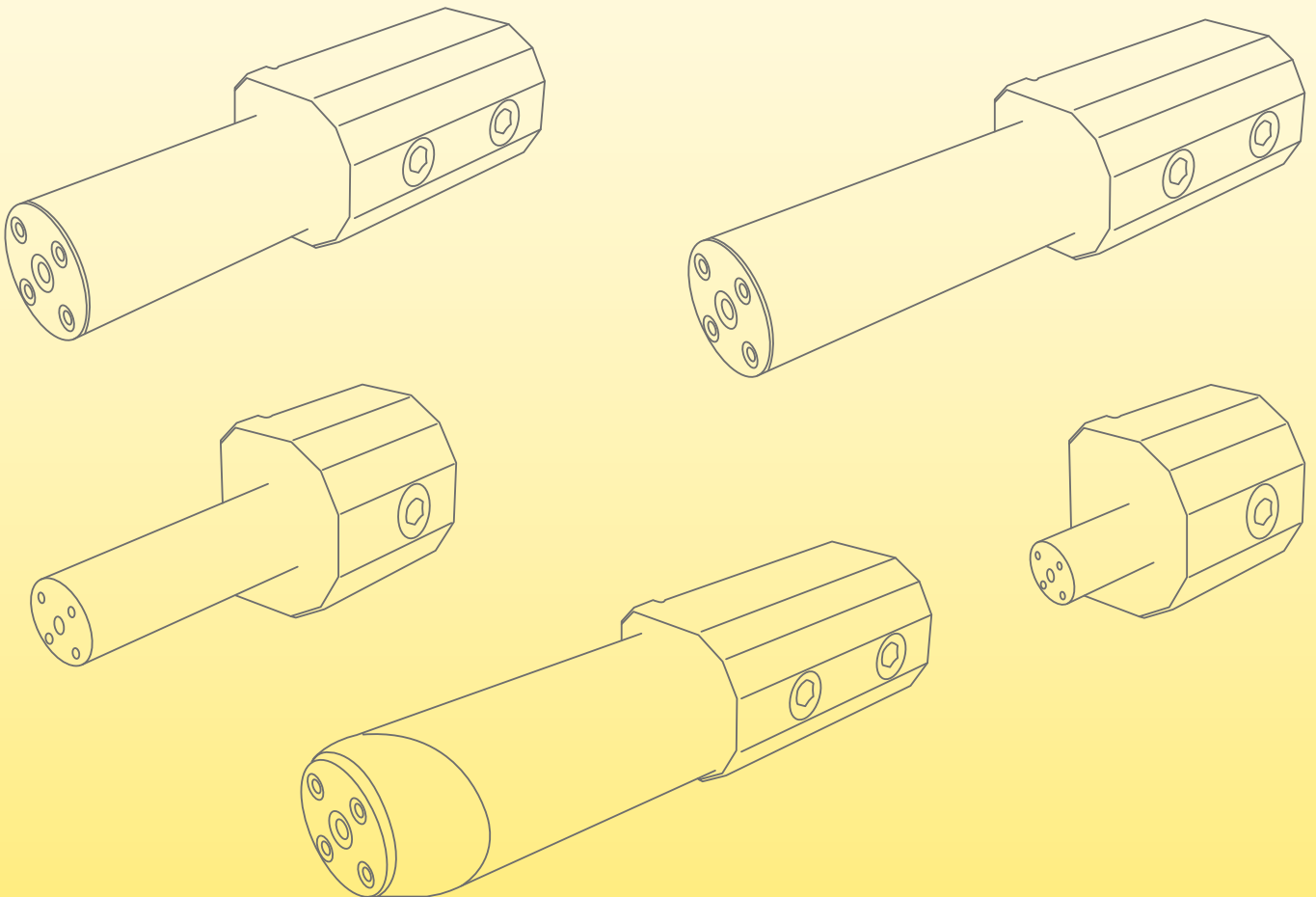




ANS

Cartucce Bareno / *Boring Bar Cartridges*

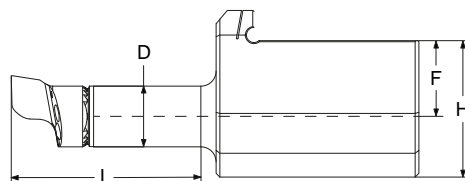
ModuSTAR ***System***



MSS-ANS16-048

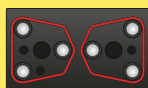
D16 - 3 x D

Cartuccia Bareno D16 - 3 x D / Cartridge Boring Bar D16 - 3 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight	
MSS-ANS16-048	16	3 x D	48	20	36	0,70 kg	

Base / Base



MSS

Testine / Heads



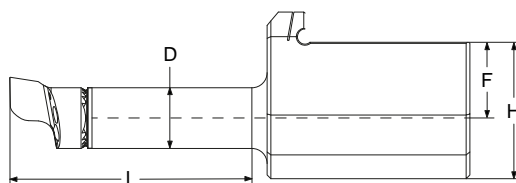
CS16

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS16-064

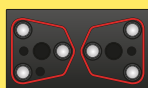
D16 - 4 x D

Cartuccia Bareno D16 - 4 x D / Cartridge Boring Bar D16 - 4 x D



Codice Articolo Item Code	D	Ratio	L	F	H	Peso Weight	
MSS-ANS16-064	16	4 x D	64	20	36	0,80 kg	

Base / Base



MSS

Testine / Heads



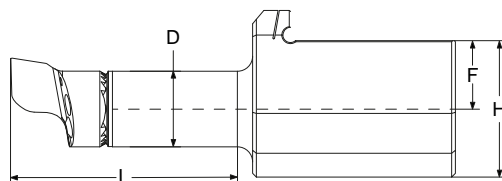
CS16

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS20-060

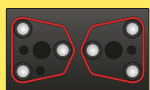
D20 - 3 x D

Cartuccia Bareno D20 - 3 x D / Cartridge Boring Bar D20 - 3 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS20-060	20	3 x D	60	20	36	0,80 kg

Base / Base



MSS

Testine / Heads



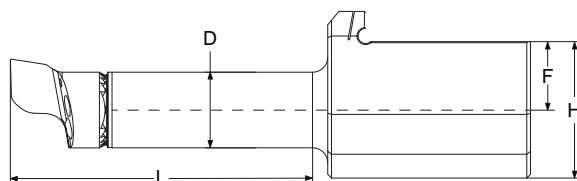
CS20

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS20-080

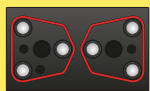
D20 - 4 x D

Cartuccia Bareno D20 - 4 x D / Cartridge Boring Bar D20 - 4 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS20-080	20	4 x D	80	20	36	0,90 kg

Base / Base



MSS

Testine / Heads



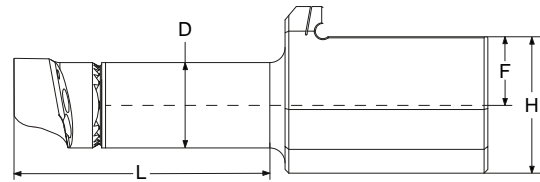
CS20

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS25-075

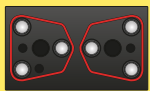
D25 - 3 x D

Cartuccia Bareno D25 - 3 x D / Cartridge Boring Bar D25 - 3 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS25-075	25	3 x D	75	20	36	0,90 kg

Base / Base



MSS

Testine / Heads



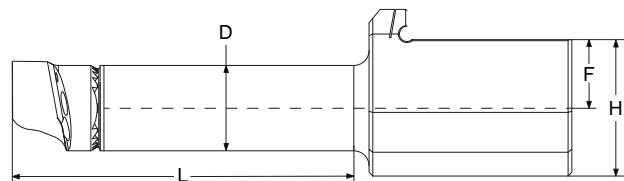
CS25

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS25-100

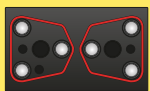
D25 - 4 x D

Cartuccia Bareno D25 - 4 x D / Cartridge Boring Bar D25 - 4 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS25-100	25	4 x D	100	20	36	1,10 kg

Base / Base



MSS

Testine / Heads



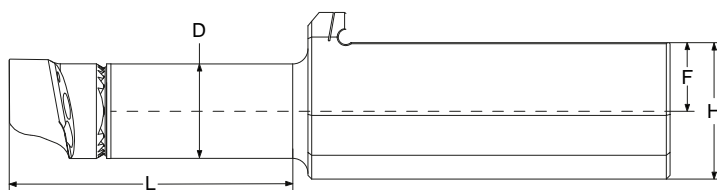
CS25

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS32-096

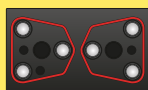
D32 - 3 x D

Cartuccia Bareno D32 - 3 x D / Cartridge Boring Bar D32 - 3 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS32-096	32	3 x D	96	20	38	1,20 kg

Base / Base



MSS

Testine / Heads



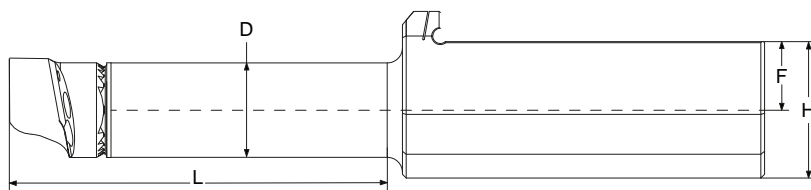
CS32

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS32-128

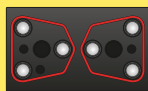
D32 - 4 x D

Cartuccia Bareno D32 - 4 x D / Cartridge Boring Bar D32 - 4 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS32-128	32	4 x D	128	20	38	1,50 kg

Base / Base



MSS

Testine / Heads



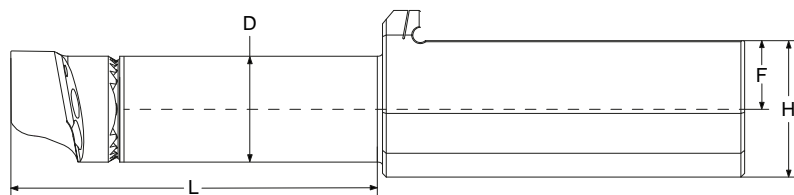
CS32

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS40-120

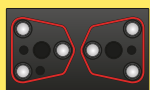
D40 - 3 x D

Cartuccia Bareno D40 - 3 x D / Cartridge Boring Bar D40 - 3 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS40-120	40	3 x D	120	20	46	2,50 kg

Base / Base



MSS

Testine / Heads



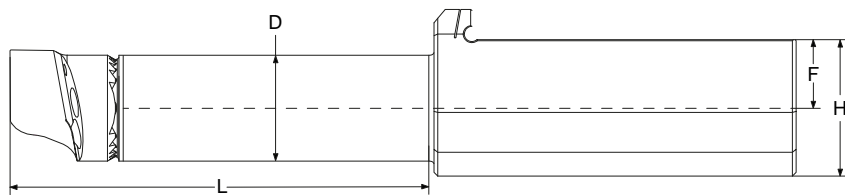
CS40

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS40-160

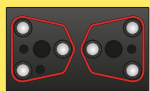
D40 - 4 x D

Cartuccia Bareno D40 - 4 x D / Cartridge Boring Bar D40 - 4 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS40-160	40	4 x D	160	20	46	3,30 kg

Base / Base



MSS

Testine / Heads



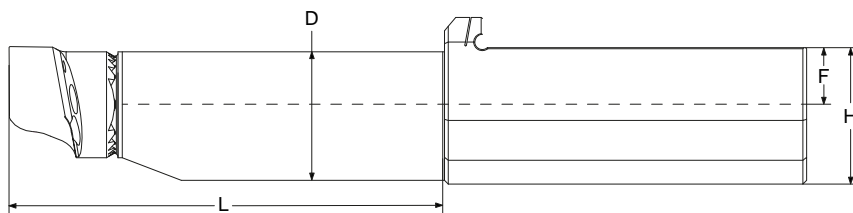
CS40

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS50-150

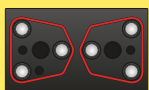
D50 - 3 x D

Cartuccia Bareno D50 - 3 x D / Cartridge Boring Bar D50 - 3 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS50-150	50	3 x D	150	15	46	3,50 kg

Base / Base



MSS

Testine / Heads



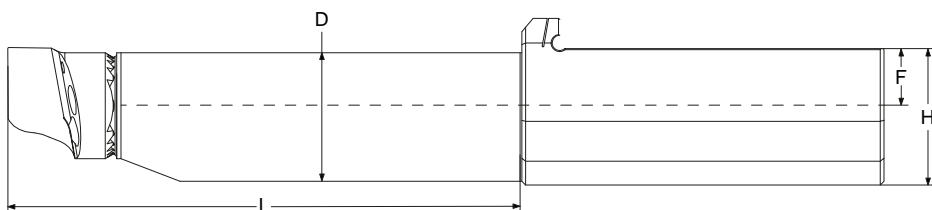
CS40

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-ANS50-200

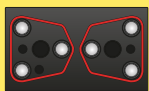
D50 - 4 x D

Cartuccia Bareno D50 - 4 x D / Cartridge Boring Bar D50 - 4 x D



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-ANS50-200	50	4 x D	200	15	46	5,00 kg

Base / Base



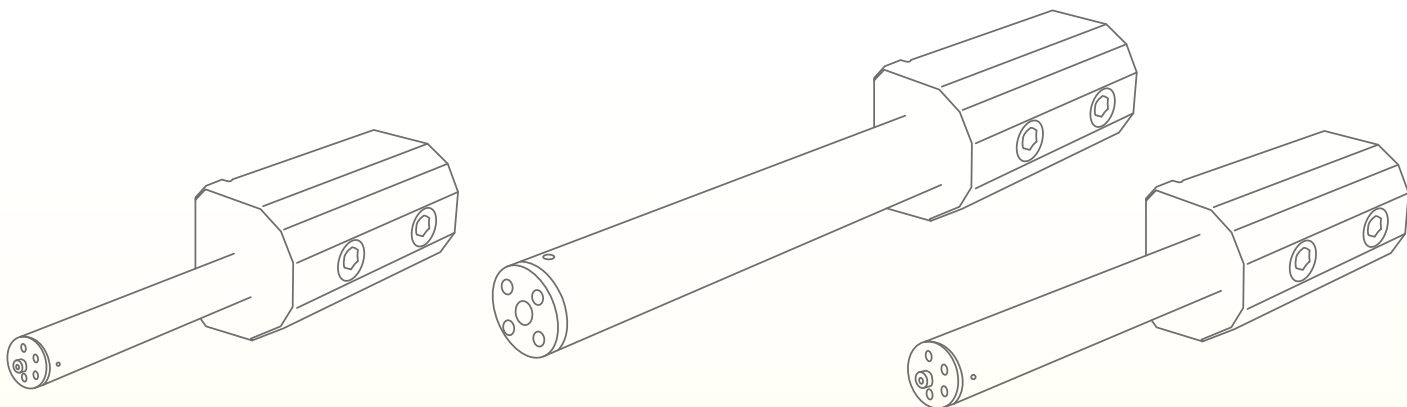
MSS

Testine / Heads



CS40

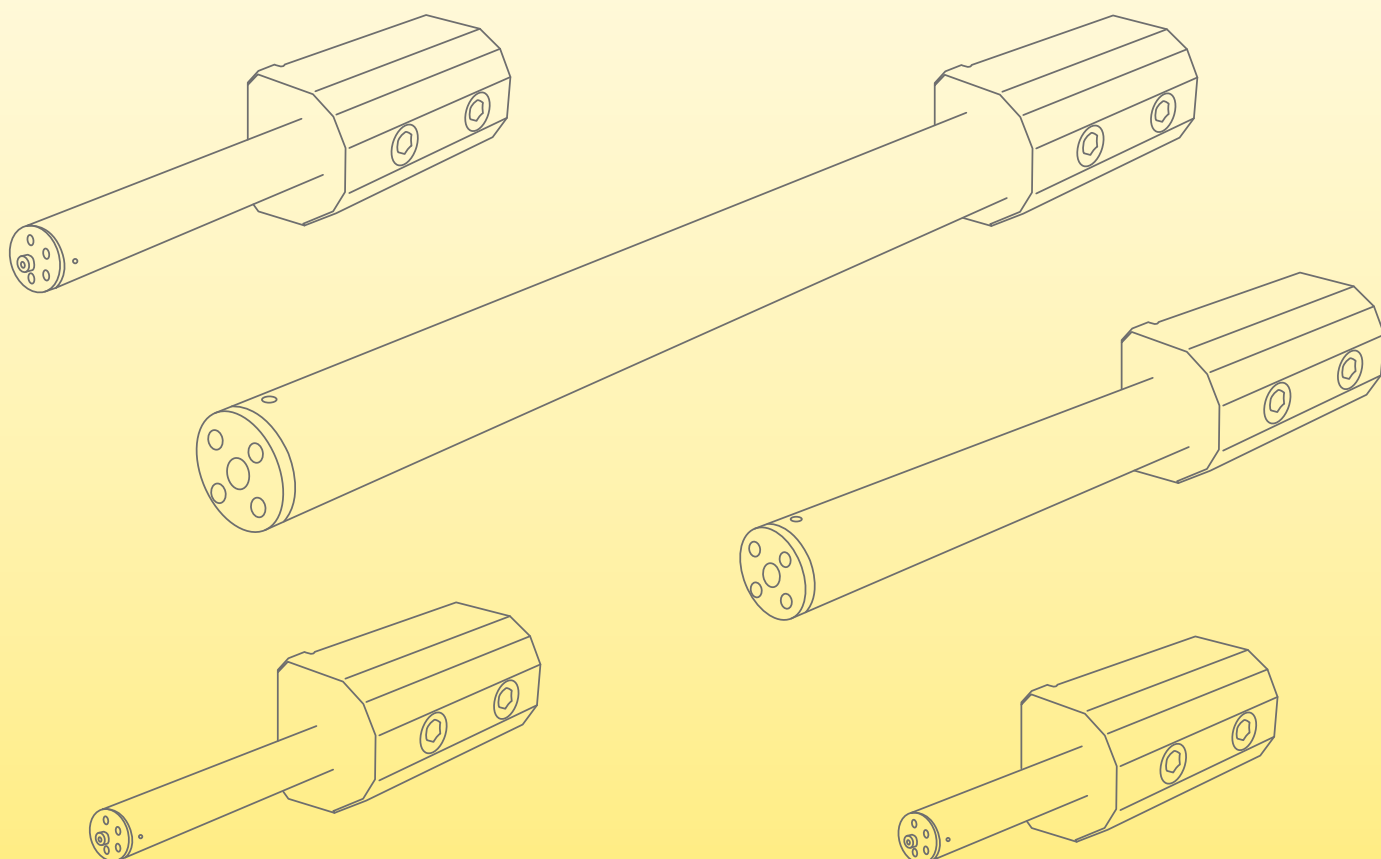
* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used



AFS

Cartucce Barena Antivibranti
Antivibrations Boring Bar Cartridges

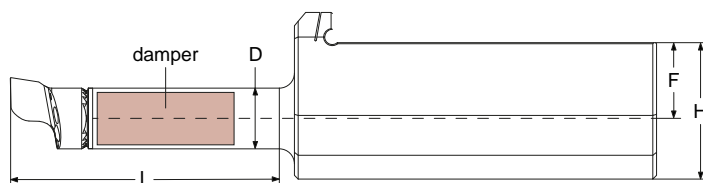
ModuSTAR
System



MSS-AFS16-...

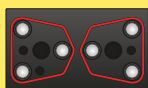
D16

Cartuccia Barena Antivibrante D16 / Cartridge Antivibrations Boring Bar D16



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-AFS16-096	16	6 x D	96	20	36	1,40 kg
MSS-AFS16-128	16	8 x D	128	20	36	1,50 kg
MSS-AFS16-160	16	10 x D	160	20	36	1,60 kg

Base / Base



MSS

Testine / Heads



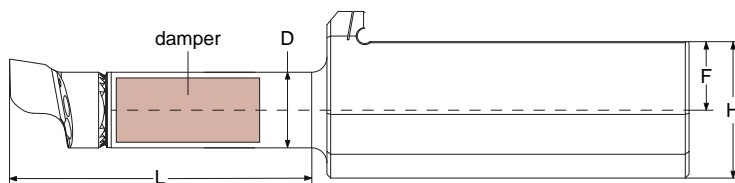
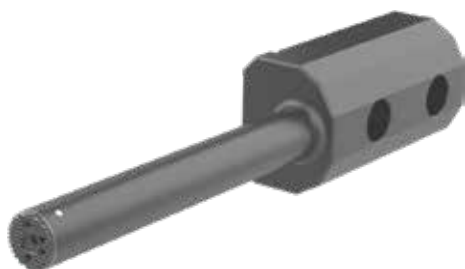
CS16

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-AFS20-...

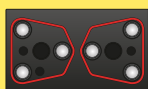
D20

Cartuccia Barena Antivibrante D20 / Cartridge Antivibrations Boring Bar D20



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-AFS20-120	20	6 x D	120	20	36	1,50 kg
MSS-AFS20-160	20	8 x D	160	20	36	1,60 kg
MSS-AFS20-200	20	10 x D	200	20	36	1,70 kg

Base / Base



MSS

Testine / Heads



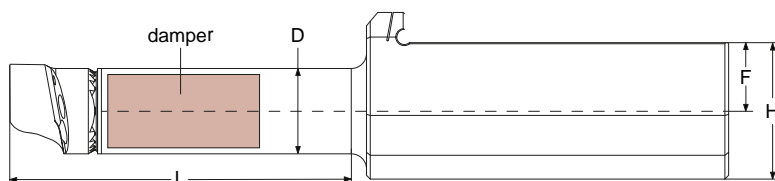
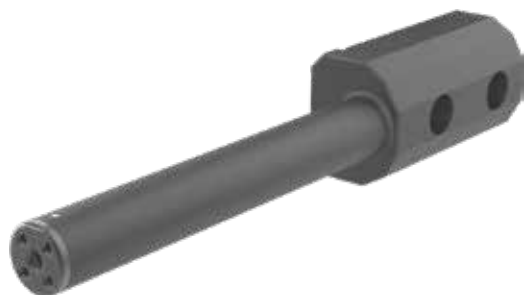
CS20

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-AFS25-...

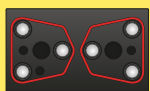
D25

Cartuccia Barena Antivibrante D25 / Cartridge Antivibrations Boring Bar D25



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-AFS25-150	25	6 x D	150	20	36	1,80 kg
MSS-AFS25-200	25	8 x D	200	20	36	2,00 kg
MSS-AFS25-250	25	10 x D	250	20	36	2,20 kg

Base / Base



MSS

Testine / Heads



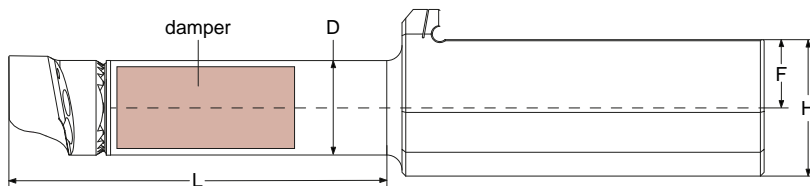
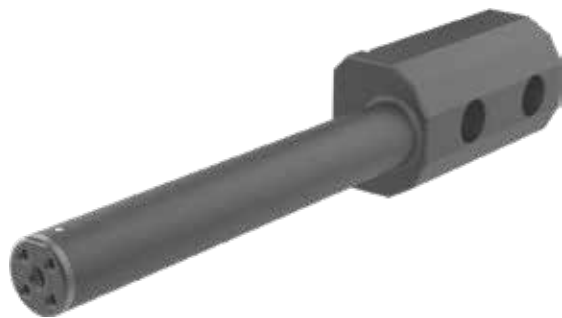
CS25

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

MSS-AFS32-...

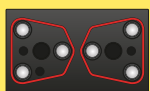
D32

Cartuccia Barena Antivibrante D32 / Cartridge Antivibrations Boring Bar D32



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-AFS32-192	32	6 x D	192	20	38	2,50 kg
MSS-AFS32-256	32	8 x D	256	20	38	2,80 kg
MSS-AFS32-320	32	10 x D	320	20	38	3,10 kg

Base / Base



MSS

Testine / Heads



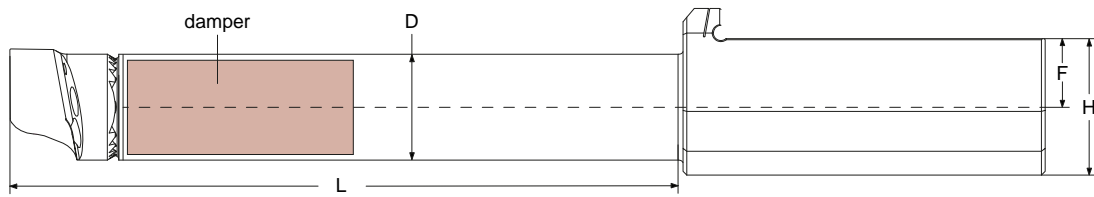
CS32

* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used

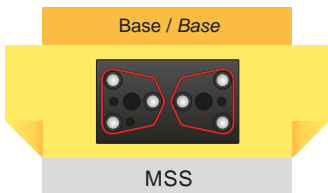
MSS-AFS40-...

D40

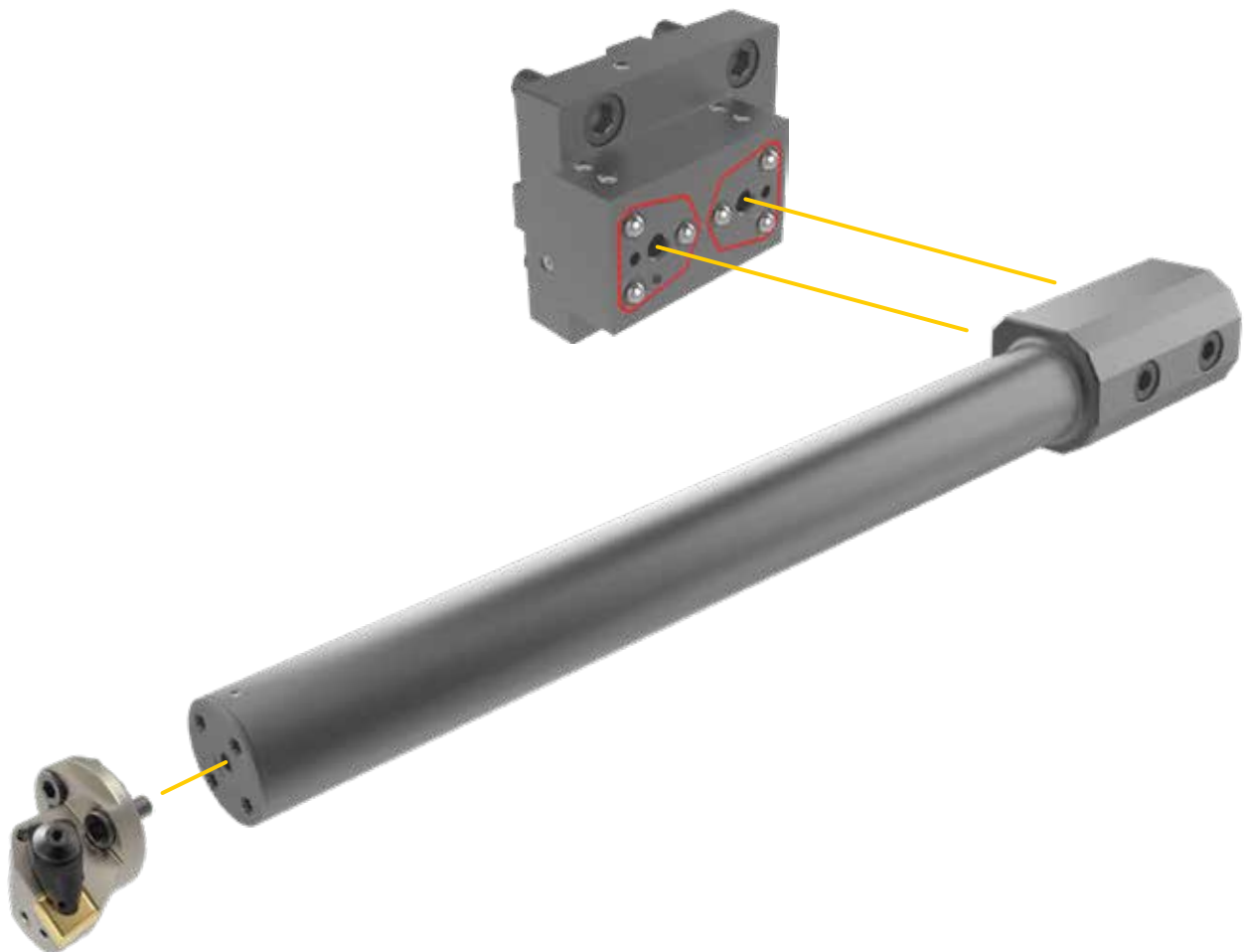
Cartuccia Bareno Antivibrante D40 / Cartridge Antivibrations Boring Bar D40



Codice Articolo Item Code	D	Ratio	L*	F	H	Peso Weight
MSS-AFS40-240	40	6 x D	240	20	46	3,40 kg
MSS-AFS40-320	40	8 x D	320	20	46	4,50 kg
MSS-AFS40-400	40	10 x D	400	20	46	5,90 kg



* Lunghezza variabile in funzione della testina abbinata
Length varies depending on the head used



Basi per lavorazioni interne

Base for internal machining



BASI - ATTACCO BMT
BMT Base

pag. 156
Cat. "Planet System 02"



BASI - ATTACCO BMT (DMG-MORI)
BMT Base

pag. 156
Cat. "Planet System 02"



BASI - ATTACCO DOOSAN (statico)
Doosan (static) Base

pag. 157
Cat. "Planet System 02"



BASI - ATTACCO BIGLIA
Biglia Base

pag. 158
Cat. "Planet System 02"



BASI - ATTACCO CMZ (DMG-MORI)
CMZ Base

pag. 159
Cat. "Planet System 02"



BASI - ATTACCO NAKAMURA (CMZ)
NAKAMURA Base

pag. 160
Cat. "Planet System 02"



BASI - ATTACCO TAKISAWA TAIWAN
TAKISAWA TAIWAN Base

pag. 160
Cat. "Planet System 02"



BASI - ATTACCO MAZAK
MAZAK Base

pag. 161
Cat. "Planet System 02"

Riferimento catalogo / Catalogue reference "PLANET system - 02"

Testine per Barre **DABtool** e Cartucce Bareni **ModuSTAR**

Heads for Boring Bars and Boring Bar Cartridges



TESTINE CS16 per Barre/Bareni D16

pag. 61

CS16 Heads for D16 Boring Bar



TESTINE CS20 per Barre/Bareni D20

pag. 67

CS20 Heads for D20 Boring Bar



TESTINE CS25 per Barre/Bareni D25

pag. 75

CS25 Heads for D25 Boring Bar



TESTINE CS32 per Barre/Bareni D32

pag. 83

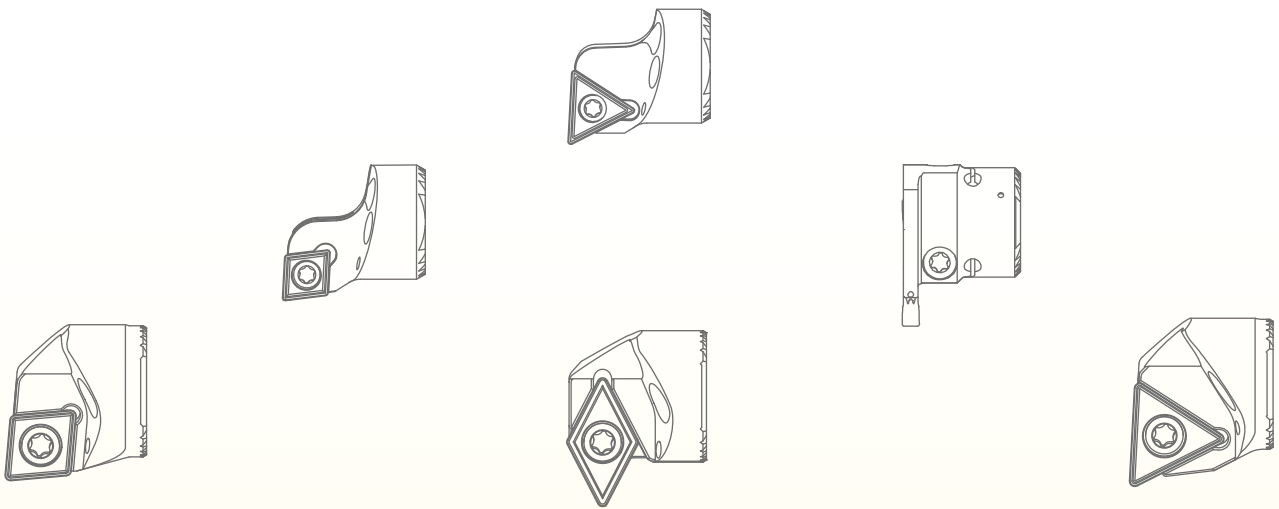
CS32 Heads for D32 Boring Bar



TESTINE CS40 per Barre/Bareni D40/50/60/80/100


pag. 93

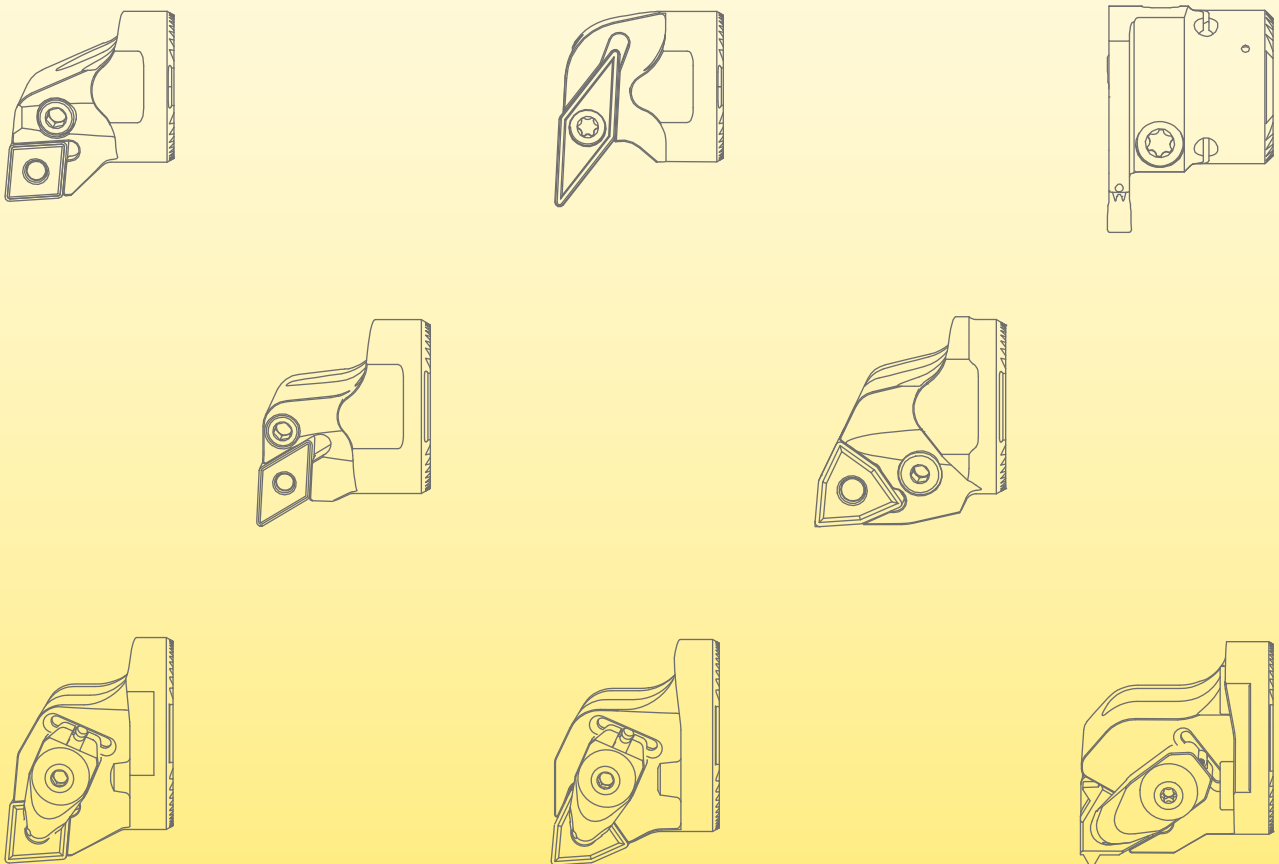
CS40 Heads for D40/50/60/80/100 Boring Bar



CS16

Testine / Heads

DABtool  - **ModuSTAR**
System



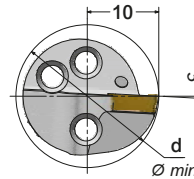
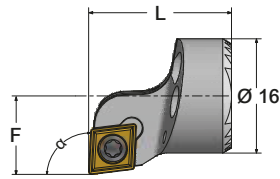
CS16-SCLCR/L-06

D16

Testine CS16 per Cartucce Bareno A...S16 / Heads CS16 for Cartridge Boring Bar A...S16




$\alpha = 95^\circ$



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS16-SCLCR/L-06	MSS-A...S16-...	20	20	11	CC..0602..	0,15 Kg

Parti di Ricambio / Spare Parts

1		
	TX2506	
	5 pz/pcs	

Le immagini raffigurano la testina destra / Pictures represent right head

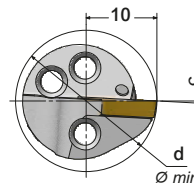
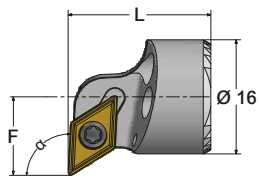
CS16-SDUCR/L-07

D16

Testine CS16 per Cartucce Bareno A...S16 / Heads CS16 for Cartridge Boring Bar A...S16



$\alpha = 93^\circ$



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS16-SDUCR/L-07	MSS-A...S16-...	20	20	11	DC..0702..	0,15 Kg

Parti di Ricambio / Spare Parts

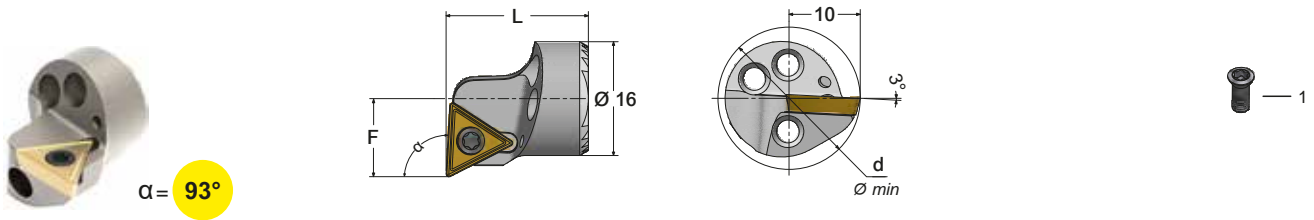
1		
	TX2506	
	5 pz/pcs	

Le immagini raffigurano la testina destra / Pictures represent right head

CS16-STUCR/L-11


D16

Testine CS16 per Cartucce Bareno A...S16 / Heads CS16 for Cartridge Boring Bar A...S16



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS16-STUCR/L-11	MSS-A...S16-...	20	20	11	TC..1102..	0,15 Kg

Parti di Ricambio / Spare Parts

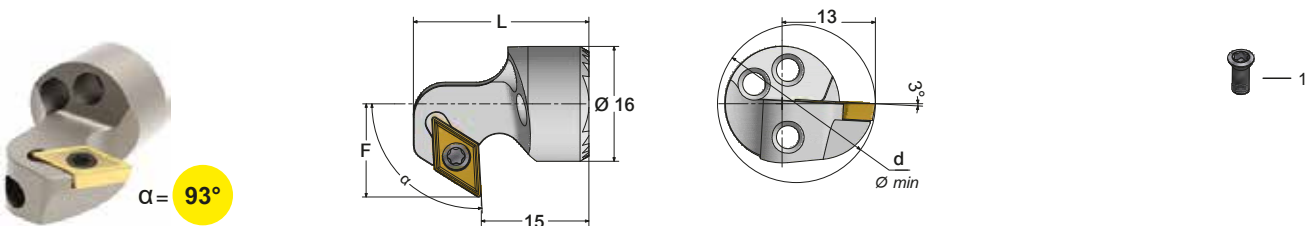
1		
	TX2506	
	5 pz/pcs	

Le immagini raffigurano la testina destra / Pictures represent right head

CS16-SDXCR/L-07


D16

Testine CS16 per Cartucce Bareno A...S16 / Heads CS16 for Cartridge Boring Bar A...S16



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS16-SDXCR/L-07	MSS-A...S16-...	22	24,5	13	DC..0702..	0,15 Kg

Parti di Ricambio / Spare Parts

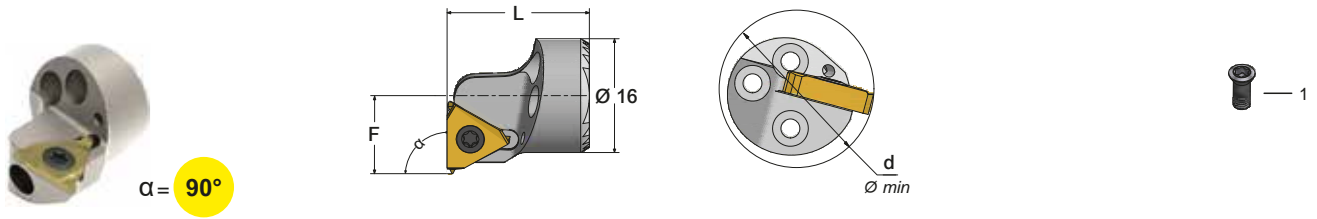
1		
	TX2506	
	5 pz/pcs	

Le immagini raffigurano la testina destra / Pictures represent right head

CS16-SIR/L-11


D16

Testine CS16 per Cartucce Bareno A...S16 / Heads CS16 for Cartridge Boring Bar A...S16



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS16-SIR/L-11	MSS-A...S16-...	20	20	11	11IR...	0,15 Kg

Parti di Ricambio / Spare Parts

1		
	TX2506	
	5 pz/pcs	

Le immagini raffigurano la testina destra / Pictures represent right head

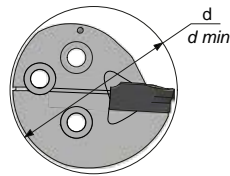
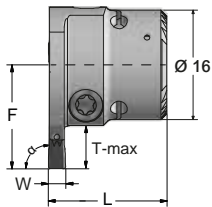
CS16-CIGR/L-20-06

D16

Testine di Troncatura CS16 per Cartucce Bareno A...S16 / Grooving Heads CS16 for Cartridge Boring Bar A...S16




$\alpha = 90^\circ$



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS16-CIGR/L-20-06	MSS-A...S16-...	25	20	15	2,0	6	CTSN 10-20	0,15 Kg

Parti di Ricambio / Spare Parts

1								
	TX4009							
	5 pz/pcs							

Le immagini raffigurano la testina destra / Pictures represent right head

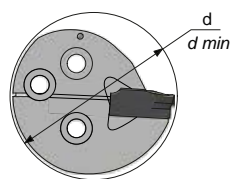
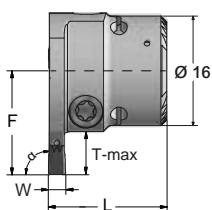
CS16-CIGR/L-30-06

D16

Testine di Troncatura CS16 per Cartucce Bareno A...S16 / Grooving Heads CS16 for Cartridge Boring Bar A...S16




$\alpha = 90^\circ$

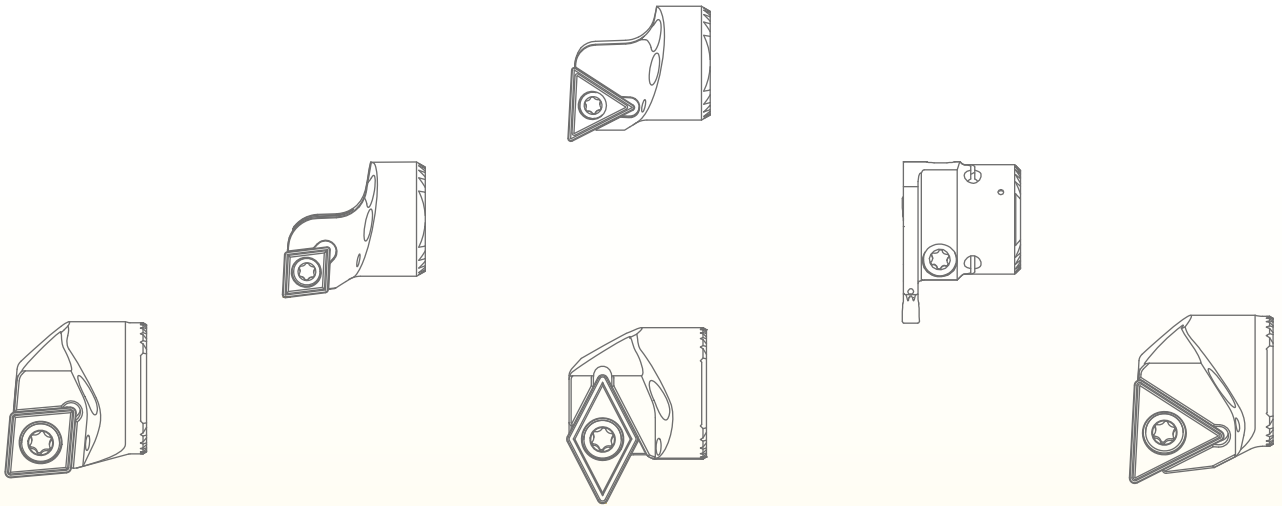


Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS16-CIGR/L-30-06	MSS-A...S16-...	25	20	15	3,0	6	CTSN 10-30	0,15 Kg

Parti di Ricambio / Spare Parts


1								
	TX4009							
	5 pz/pcs							

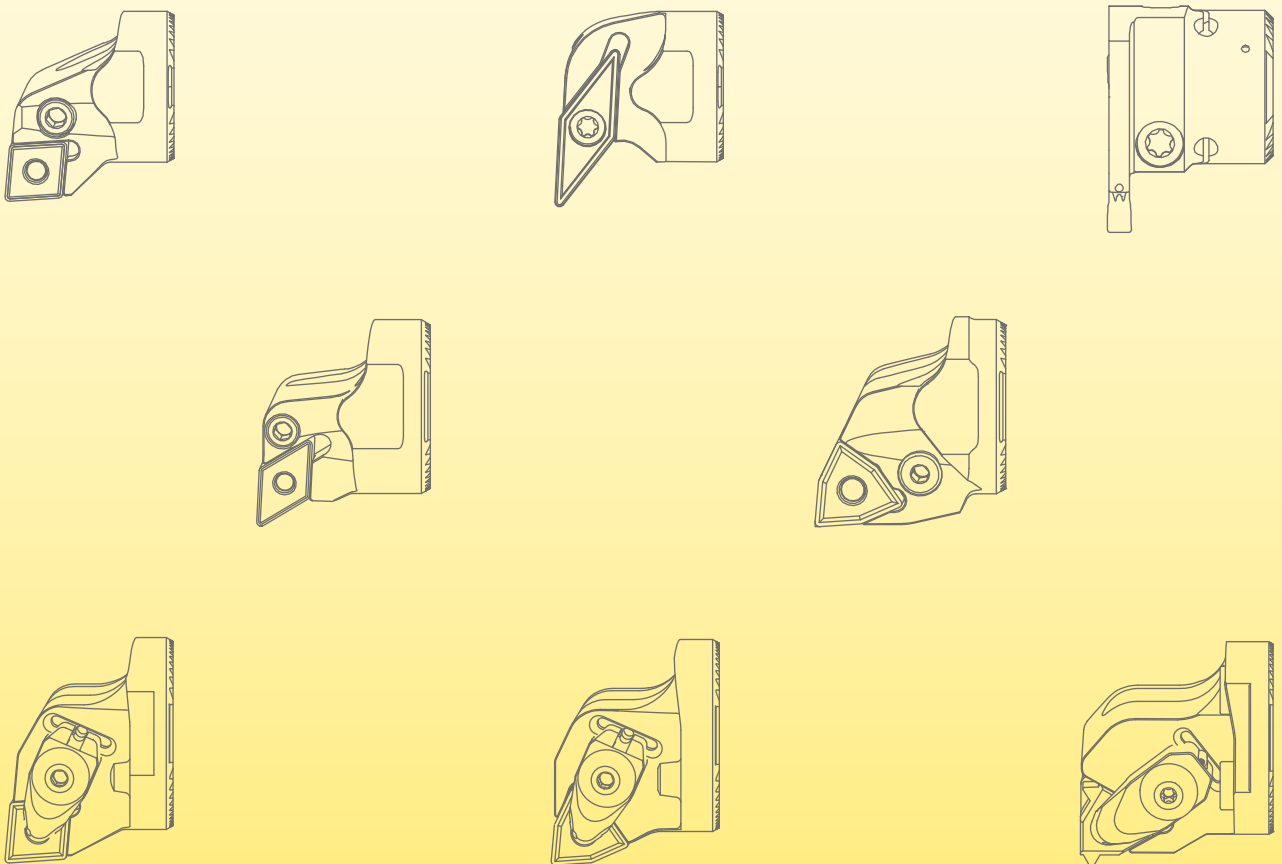
Le immagini raffigurano la testina destra / Pictures represent right head



CS20

Testine / Heads

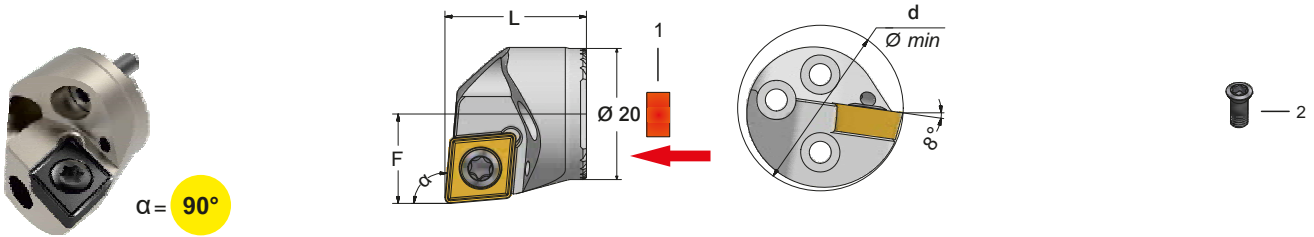
DABtool  - **ModulSTAR**
System



CS20-SCLCR/L-09

D20

Testine CS20 per Barre e Cartucce Boreno / Heads CS20 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Boreno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SCLCR/L-09	A...20-...-...	MSS-A...S20-...	24	20,5	13	CC..09	0,15 Kg
	A...25-...-...	-	29				
	A...32-...-...	-	36				

Parti di Ricambio / Spare Parts

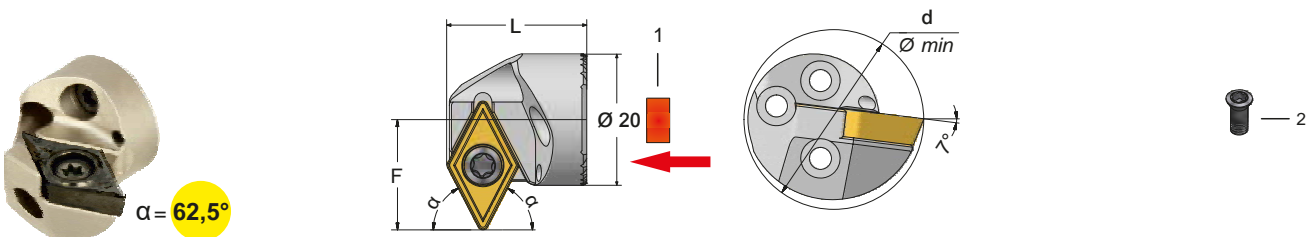
1	2
CSC72	TX3509
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

CS20-SDNCR/L-11

D20

Testine CS20 per Barre e Cartucce Boreno / Heads CS20 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Boreno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SDNCR/L-11	A...20-...-...	MSS-A...S20-...	26	20,5	16	DC..11	0,15 Kg
	A...25-...-...	-	31				
	A...32-...-...	-	38				

Parti di Ricambio / Spare Parts

1	2
CSC72	TX3509
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head



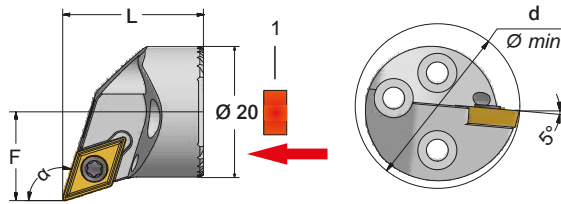
CS20-SDQCR/L-07

D20

Testine CS20 per Barre e Cartucce Boreno / Heads CS20 for Boring Bars and Cartridge Boring Bars



$\alpha = 107,5^\circ$



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Boreno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SDQCR/L-07	A...20-...-...	MSS-A...S20-...	24	20,5	13	DC..07	0,15 Kg
	A...25-...-...	-	29				
	A...32-...-...	-	36				

Parti di Ricambio / Spare Parts

1	2
CSC72	TX2506
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

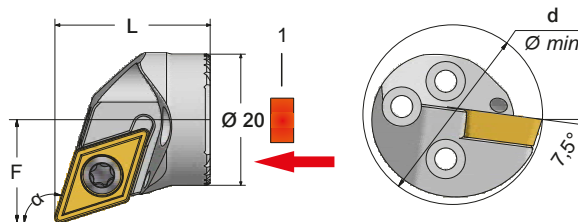
CS20-SDQCR/L-11

D20

Testine CS20 per Barre e Cartucce Boreno / Heads CS20 for Boring Bars and Cartridge Boring Bars



$\alpha = 107,5^\circ$



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Boreno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SDQCR/L-11	A...20-...-...	MSS-A...S20-...	26	22,5	16	DC..11	0,15 Kg
	A...25-...-...	-	31				
	A...32-...-...	-	38				

Parti di Ricambio / Spare Parts

1	2
CSC72	TX3509
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head



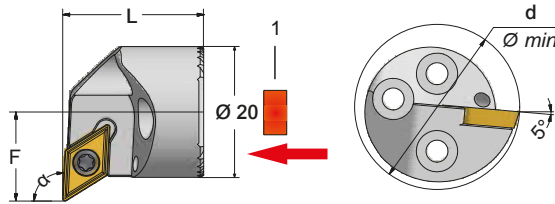
CS20-SDUCR/L-07

D20

Testine CS20 per Barre e Cartucce Barena / Heads CS20 for Boring Bars and Cartridge Boring Bars



$\alpha = 93^\circ$



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Barena Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SDUCR/L-07	A...20-...-...	MSS-A...S20-...	24	20,5	13	DC..07	0,15 Kg
	A...25-...-...	-	29				
	A...32-...-...	-	36				

Parti di Ricambio / Spare Parts

1	2
CSC72	TX2506
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

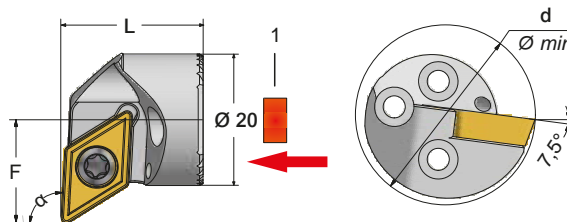
CS20-SDUCR/L-11

D20

Testine CS20 per Barre e Cartucce Barena / Heads CS20 for Boring Bars and Cartridge Boring Bars



$\alpha = 93^\circ$



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Barena Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SDUCR/L-11	A...20-...-...	MSS-A...S20-...	26	22,5	15	DC..11	0,15 Kg
	A...25-...-...	-	31				
	A...32-...-...	-	38				

Parti di Ricambio / Spare Parts

1	2
CSC72	TX3509
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head



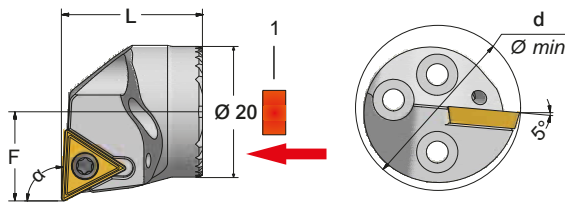
CS20-STUCR/L-11

D20

Testine CS20 per Barre e Cartucce Barena / Heads CS20 for Boring Bars and Cartridge Boring Bars



$\alpha = 93^\circ$



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Barena Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-STUCR/L-11	A...20-...-...	MSS-A...S20-...	24	20,5	13	TC..11	0,15 Kg
	A...25-...-...	-	29				
	A...32-...-...	-	36				

Parti di Ricambio / Spare Parts

1	2
CSC72	TX2506
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

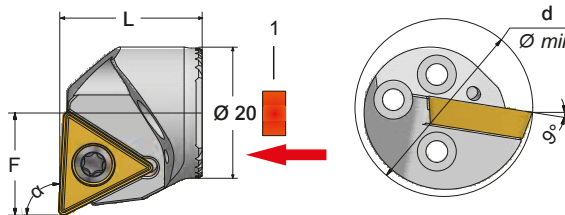
CS20-STUCR/L-16

D20

Testine CS20 per Barre e Cartucce Barena / Heads CS20 for Boring Bars and Cartridge Boring Bars



$\alpha = 93^\circ$



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Barena Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-STUCR/L-16	A...20-...-...	MSS-A...S20-...	26	21	15	TC..16	0,15 Kg
	A...25-...-...	-	31				
	A...32-...-...	-	38				

Parti di Ricambio / Spare Parts

1	2
CSC72	TX3509
5 pz/pcs	5 pz/pcs

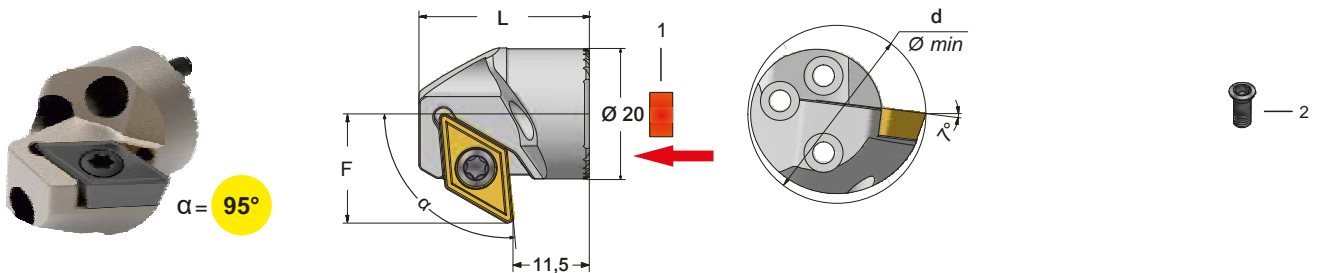
Le immagini raffigurano la testina destra / Pictures represent right head



CS20-SDXCR/L-11

D20

Testine CS20 per Barre e Cartucce Bareno / Heads CS20 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SDXCR/L-11	A...20-...-...	MSS-A...S20-...	26	25	16	DC..11	0,15 Kg
	A...25-...-...	-	31				
	A...32-...-...	-	38				

Parti di Ricambio / Spare Parts

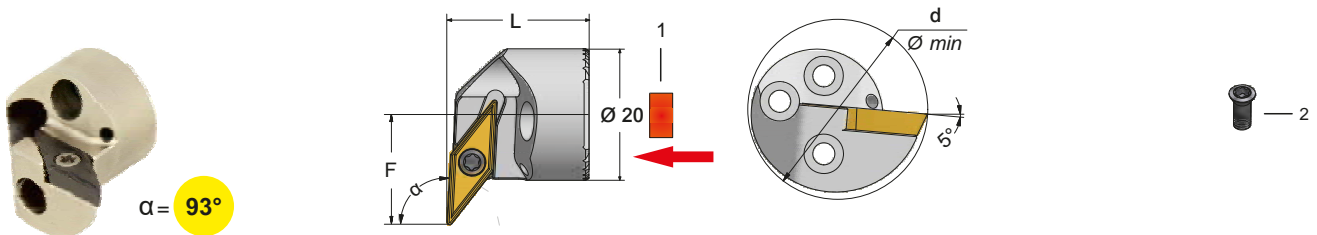
1	2
CSC72	TX3509
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

CS20-SVUCR/L-11

D20

Testine CS20 per Barre e Cartucce Bareno / Heads CS20 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SVUCR/L-11	A...20-...-...	MSS-A...S20-...	26	20,5	16	VC..11	0,15 Kg
	A...25-...-...	-	31				
	A...32-...-...	-	38				

Parti di Ricambio / Spare Parts

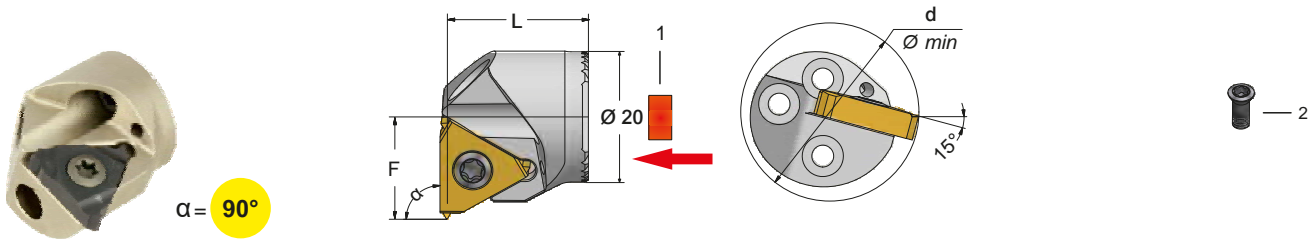
1	2
CSC72	TX2506
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

CS20-SIR/L-16

D20

Testine CS20 per Barre e Cartucce Barena / Heads CS20 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Barena Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS20-SIR/L-16	A...20-...-...	MSS-A...S20-...	26	21,7	15	16IR..	0,15 Kg
	A...25-...-...	-	31				
	A...32-...-...	-	38				

Parti di Ricambio / Spare Parts

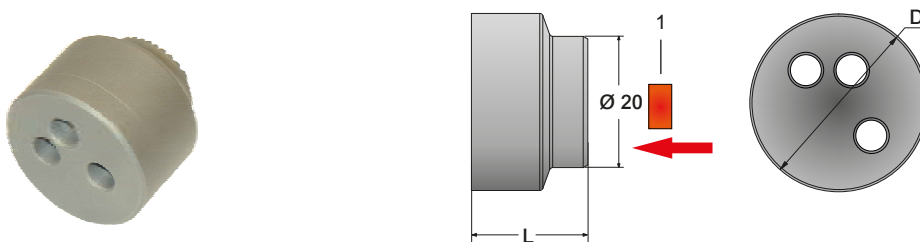
1	2
CSC72	TX3509
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

CS20-XXR/L

D20

Testine Neutre CS20 per Barre e Cartucce Barena / Blank Heads CS20 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Barena Cartridge Boring Bar	D	L	F	Inserto Insert	Peso Weight
CS20-XXR/L	A...20-...-...	MSS-A...S20-...	29	24,8	-	-	0,15 Kg
	A...25-...-...	-					
	A...32-...-...	-					

Parti di Ricambio / Spare Parts

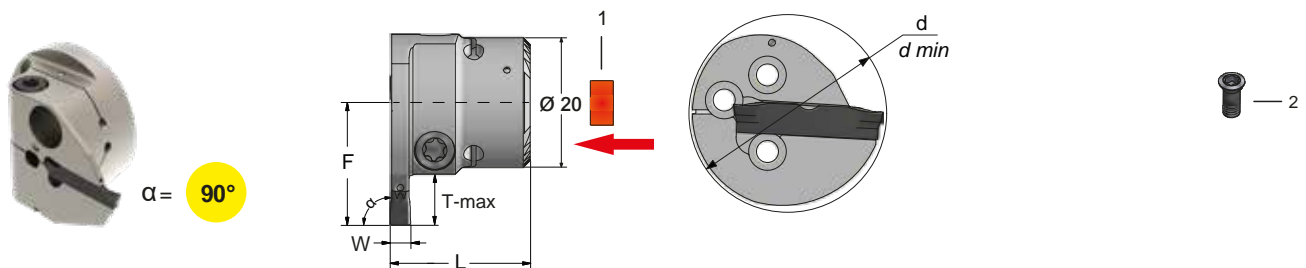
1
CSC72
5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

CS20-CIGR/L-20-07

D20

Testine di Troncatura CS20 per Barre e Cartucce Boreno / Grooving Heads CS20 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Boreno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS20-CIGR/L-20-07	A...20-...-...	MSS-A...S20-...	29						
	A...25-...-...	-	34	20,5	18	2,0	7	CTSN 22-20	0,15 Kg
	A...32-...-...	-	41						

Parti di Ricambio / Spare Parts

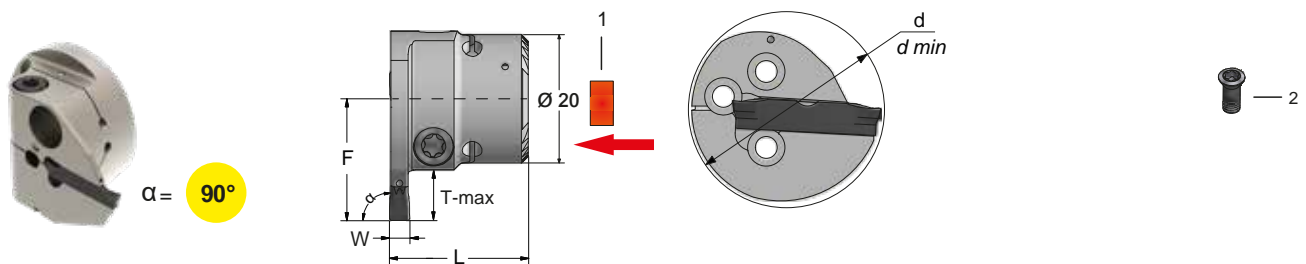
1	2
CSC72	TX4010
5 pz/pcs	5 pz/pcs

Le immagini raffigurano la testina destra / Pictures represent right head

CS20-CIGR/L-30-07

D20

Testine di Troncatura CS20 per Barre e Cartucce Boreno / Grooving Heads CS20 for Boring Bars and Cartridge Boring Bars

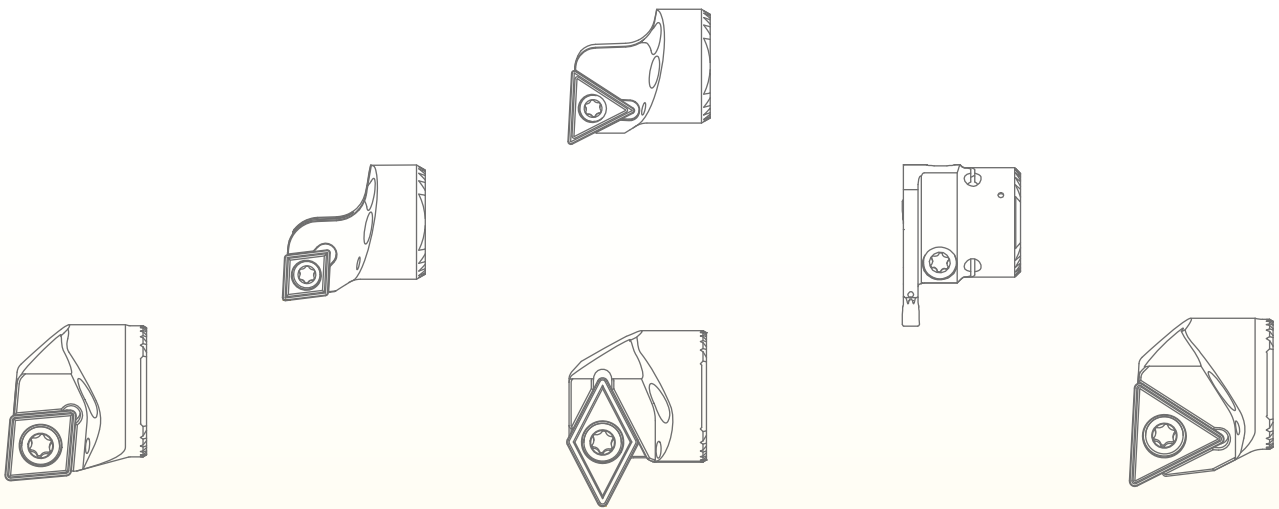


Codice Articolo Item Code	Barra Boring Bar	Cartuccia Boreno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS20-CIGR/L-30-07	A...20-...-...	MSS-A...S20-...	29						
	A...25-...-...	-	34	20,5	18	3,0	7	CTSN 22-30	0,15 Kg
	A...32-...-...	-	41						

Parti di Ricambio / Spare Parts


1	2
CSC72	TX4010
5 pz/pcs	5 pz/pcs

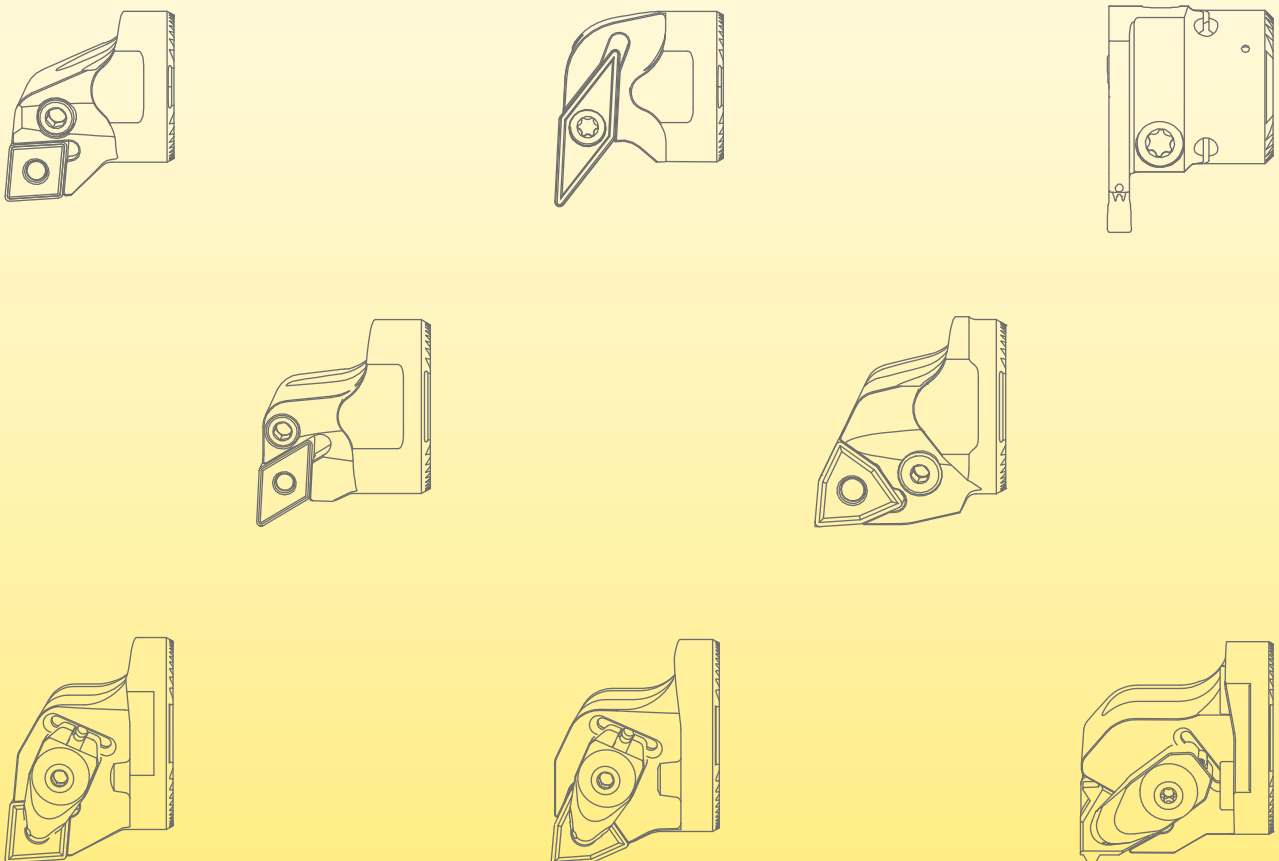
Le immagini raffigurano la testina destra / Pictures represent right head



CS25

Testine / Heads

DABtool  - **ModulSTAR**
System



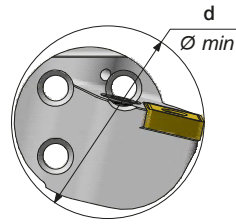
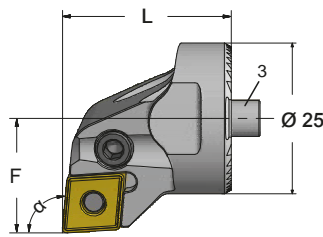
CS25-PCLNR/L-09

D25

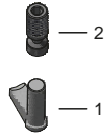
Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars/





$\alpha = 95^\circ$



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-PCLNR/L-09	MSS-A...S25-...	32	28	19	CN..09	0,15 Kg

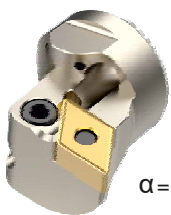
Parti di Ricambio / Spare Parts			Spare Parts Kit
			
LV01	V0601	CS-25-002	KIT-PC09
5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

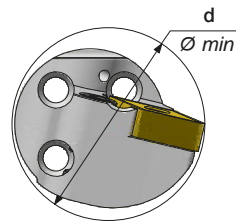
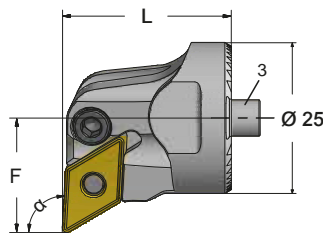
CS25-PDUNR/L-11

D25

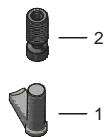
Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars







$\alpha = 93^\circ$



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-PDUNR/L-11	MSS-A...S25-...	32	28	19	DN..11	0,15 Kg

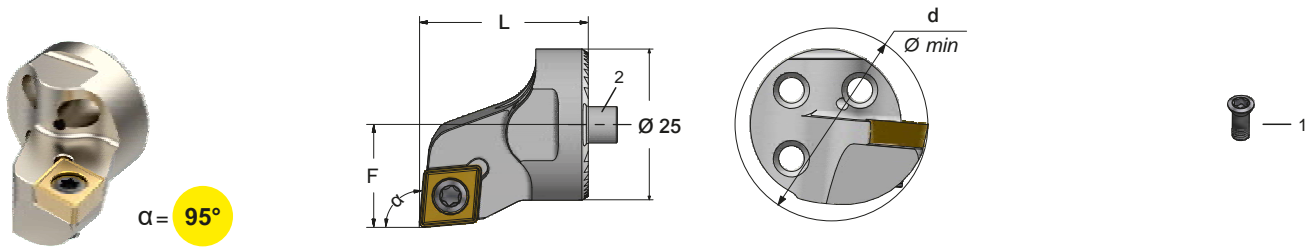
Parti di Ricambio / Spare Parts			Spare Parts Kit
			
LV01	V0601	CS-25-002	KIT-PD11-25
5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

CS25-SCLCR/L-09

D25

Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-SCLCR/L-09	MSS-A...S25-...	32	28	17	CC..09	0,15 Kg

Parti di Ricambio / Spare Parts

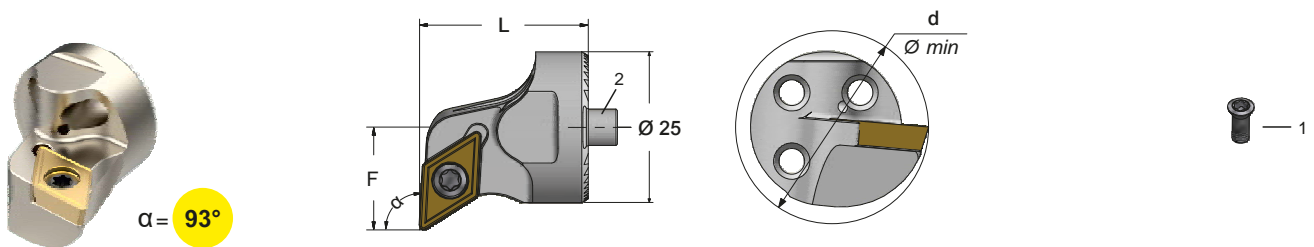
1	2
TX3511	CS-25-002
5 pz/pcs	1 pz/pc

Le immagini raffigurano la testina destra / Pictures represent right head

CS25-SDUCR/L-11

D25

Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-SDUCR/L-11	MSS-A...S25-...	32	28	17	DC..11	0,15 Kg

Parti di Ricambio / Spare Parts

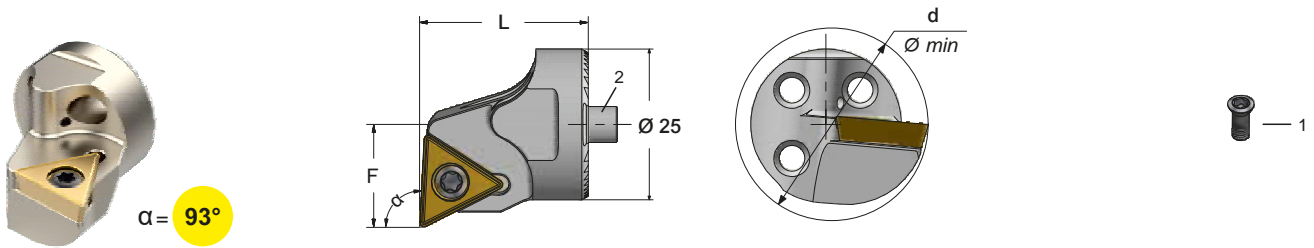
1	2
TX3511	CS-25-002
5 pz/pcs	1 pz/pc

Le immagini raffigurano la testina destra / Pictures represent right head

CS25-STUCR/L-16

D25

Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-STUCR/L-16	MSS-A...S25-...	32	28	17	TC..16	0,15 Kg

Parti di Ricambio / Spare Parts

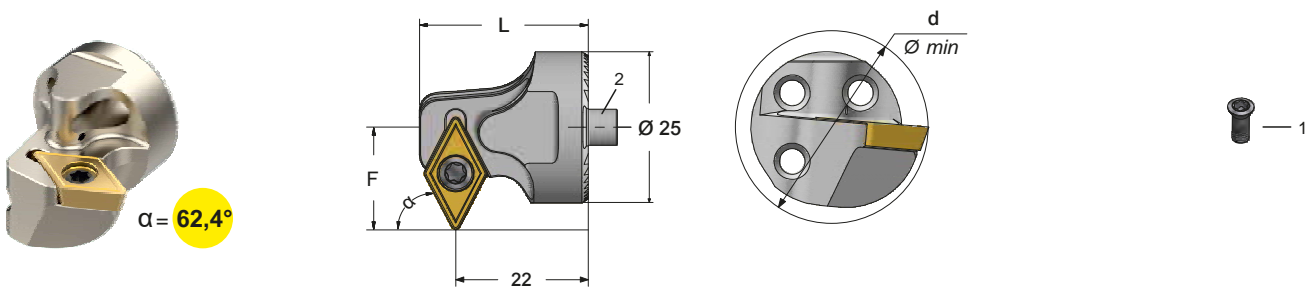
1	2
TX3511	CS-25-002
5 pz/pcs	1 pz/pc

Le immagini raffigurano la testina destra / Pictures represent right head

CS25-SDNCR/L-11

D25

Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-SDNCR/L-11	MSS-A...S25-...	32	28	17	DC..11	0,15 Kg

Parti di Ricambio / Spare Parts

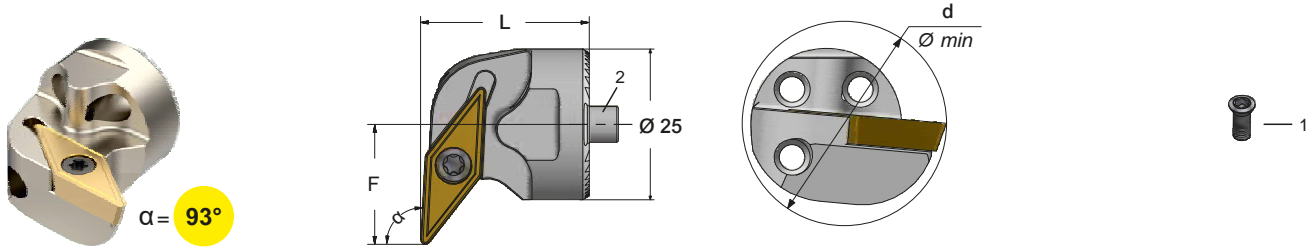
1	2
TX3511	CS-25-002
5 pz/pcs	1 pz/pc

Le immagini raffigurano la testina destra / Pictures represent right head

CS25-SVUBR/L-16

D25

Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-SVUBR/L-16	MSS-A...S25-...	34	28	20	VB..16	0,15 Kg

Parti di Ricambio / Spare Parts

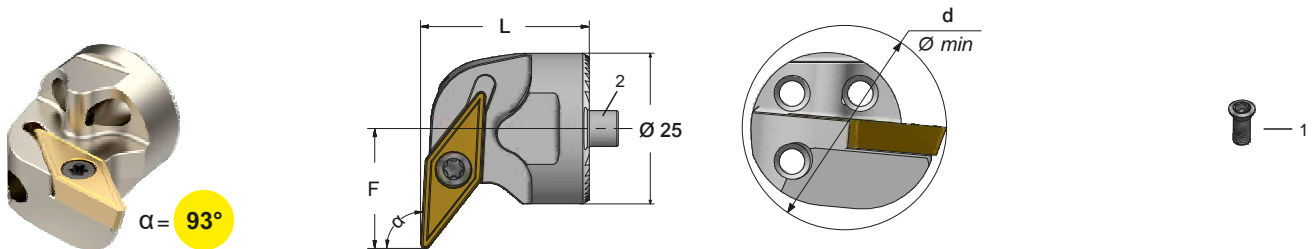
1	2
TX3511	CS-25-002
5 pz/pcs	1 pz/pc

Le immagini raffigurano la testina destra / Pictures represent right head

CS25-SVUCR/L-16

D25

Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-SVUCR/L-16	MSS-A...S25-...	34	28	20	VC..16	0,15 Kg

Parti di Ricambio / Spare Parts

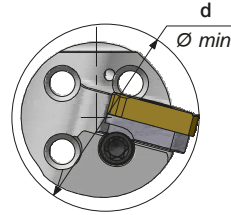
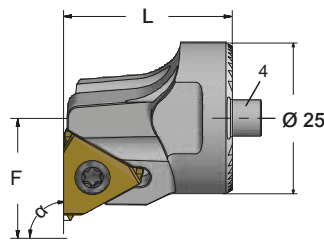
1	2
TX3511	CS-25-002
5 pz/pcs	1 pz/pc

Le immagini raffigurano la testina destra / Pictures represent right head

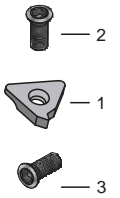
CS25-SIR/L-16

D25






Testine CS25 per Barre e Cartucce Bareno / Heads CS25 for Boring Bars and Cartridge Boring Bars



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS25-SIR/L-16	MSS-A...S25-...	31	28	17	16IR..	0,15 Kg

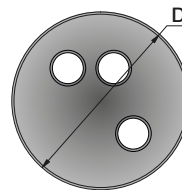
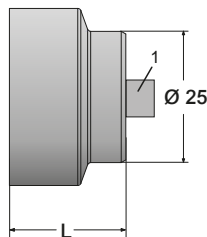
Parti di Ricambio / Spare Parts				Spare Parts Kit
 1	 2	 3	 4	
R = AI16 L = AE16 5 pz/pcs	TX3510 5 pz/pcs	TX3513 5 pz/pcs	CS-25-002 1 pz/pc	KIT-SI16R/L 1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

CS25-XXR/L

D25

Testine Neutre CS25 per Barre e Cartucce Bareno / Blank Heads CS25 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	D	L	F	Inserto Insert	Peso Weight
CS25-XXR/L	MSS-A...S25-...	41	31,9	-	-	0,15 Kg

 1						
CS-25-002 1 pz/pc						

Le immagini raffigurano la testina destra / Pictures represent right head

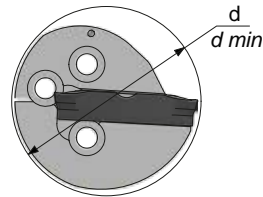
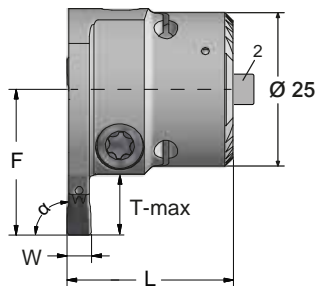
CS25-CIGR/L-20-09

D25

Testine di Troncatura CS25 per Barre e Cartucce Bareno / Grooving eads CS25 for Boring Bars and Cartridge Boring Bars



$\alpha = 90^\circ$



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS25-CIGR/L-20-09	MSS-A...S25-...	36	28	22,5	2,0	9	CTSN 22-20	0,15 Kg

Parti di Ricambio / Spare Parts

1	2							
TX4012	CS-25-002							
5 pz/pcs	1 pz/pc							

Le immagini raffigurano la testina destra / Pictures represent right head

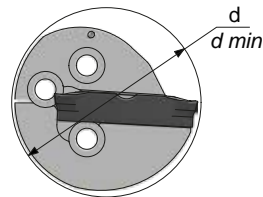
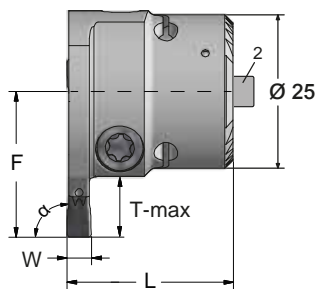
CS25-CIGR/L-30-09

D25

Testine di Troncatura CS25 per Barre e Cartucce Bareno / Grooving eads CS25 for Boring Bars and Cartridge Boring Bars



$\alpha = 90^\circ$



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS25-CIGR/L-30-09	MSS-A...S25-...	36	28	22,5	3,0	9	CTSN 22-30	0,15 Kg

Parti di Ricambio / Spare Parts

1	2							
TX4012	CS-25-002							
5 pz/pcs	1 pz/pc							

Le immagini raffigurano la testina destra / Pictures represent right head

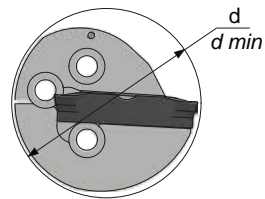
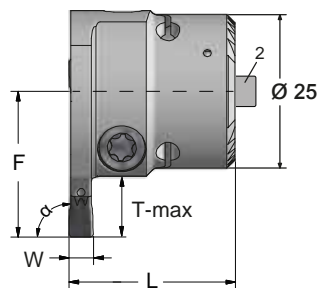
CS25-CIGR/L-40-09

D25

Testine di Troncatura CS25 per Barre e Cartucce Bareno / Grooving eads CS25 for Borign Bars and Cartridge Boring Bars



$\alpha = 90^\circ$

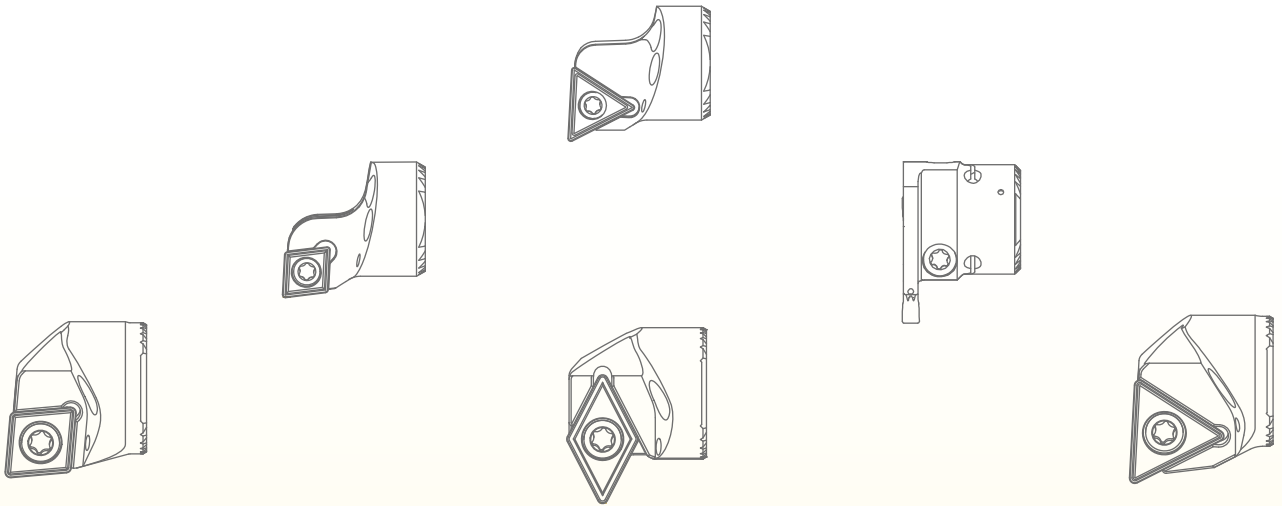


Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS25-CIGR/L-40-09	MSS-A...S25-...	36	28	22,5	4,0	9	CTSN 25-40	0,15 Kg

Parti di Ricambio / Spare Parts

1	2						
							
TX4012	CS-25-002						
5 pz/pcs	1 pz/pc						

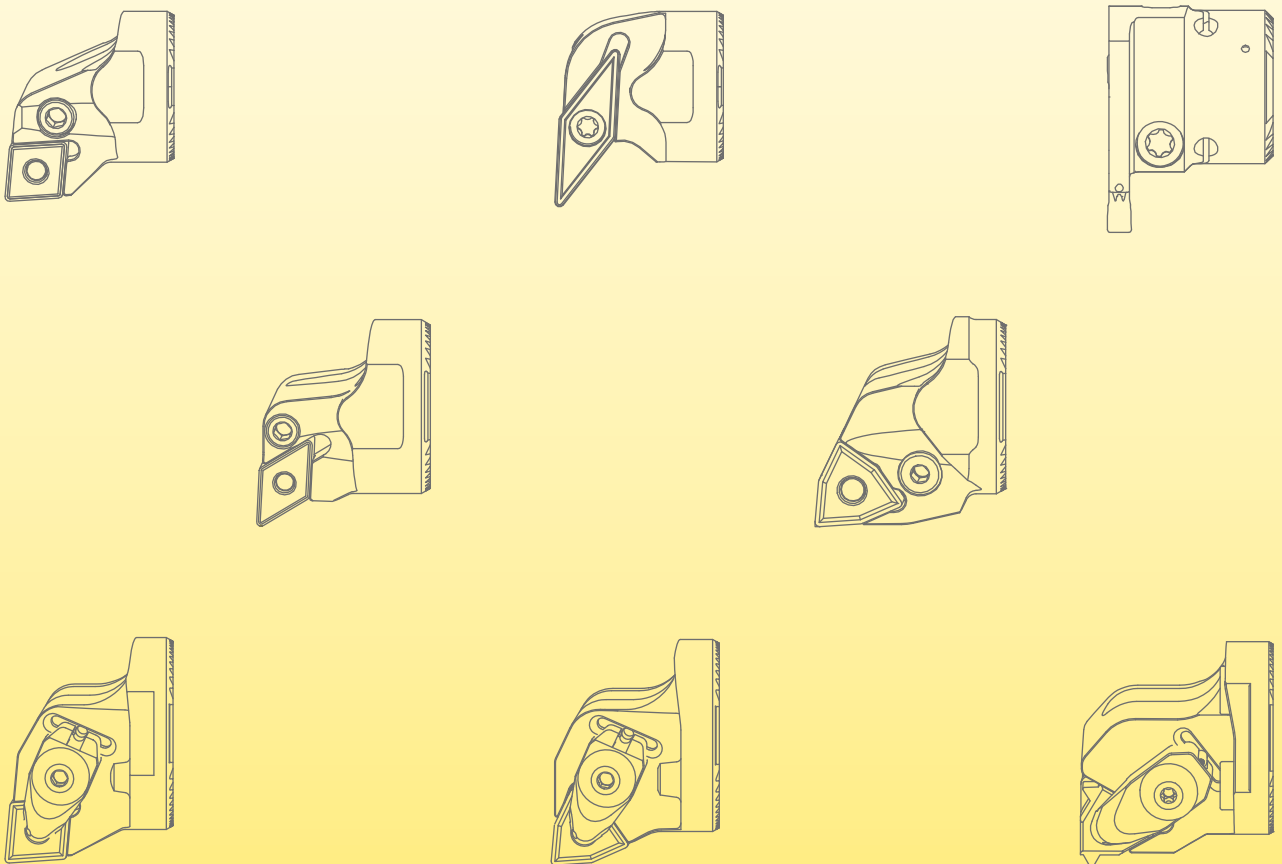
Le immagini raffigurano la testina destra / Pictures represent right head



CS32

Testine / Heads

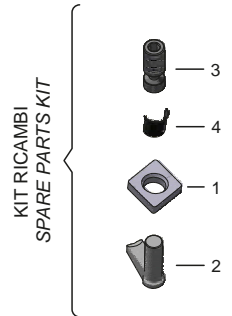
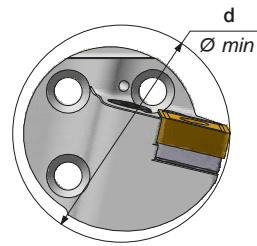
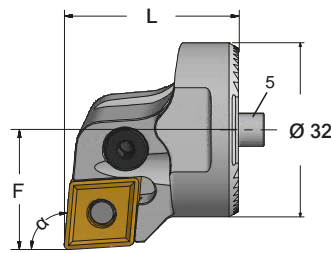
DABtool - **ModuSTAR**
System









CS32-PCLNR/L-12

D32

Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-PCLNR/L-12	MSS-A...S32-...	40	32	22	CN..09	0,15 Kg

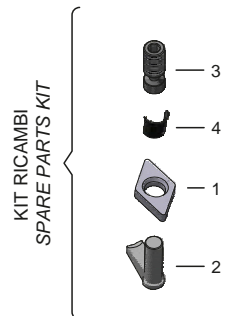
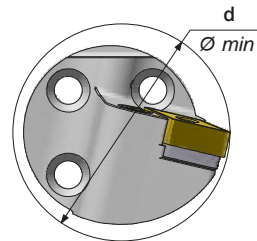
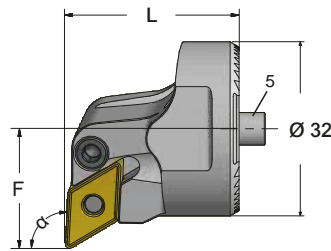
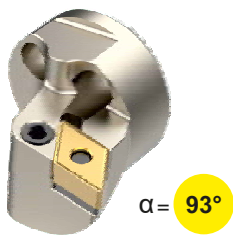
Parti di Ricambio / Spare Parts					Spare Parts Kit
 1	 2	 3	 4	 5	
S8012N	LV02	V0802	S635	CS-25-002	KIT-PC12
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head







CS32-PDUNR/L-11

D32

Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-PDUNR/L-11	MSS-A...S32-...	40	32	22	DN..11	0,15 Kg

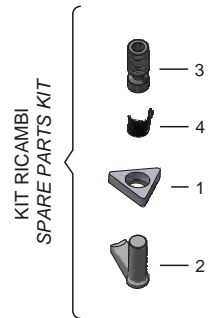
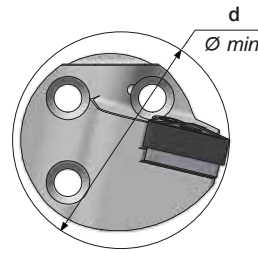
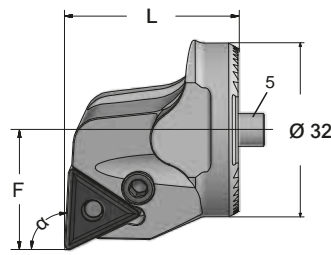
Parti di Ricambio / Spare Parts					Spare Parts Kit
 1	 2	 3	 4	 5	
S5511N	LV01	V0601	S535	CS-25-002	KIT-PD11-32
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head






CS32-PTUNR/L-16

D32

Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-PTUNR/L-16	MSS-A...S32-...	40	32	22	TN..16	0,15 Kg

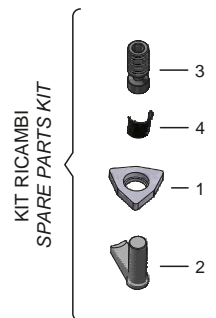
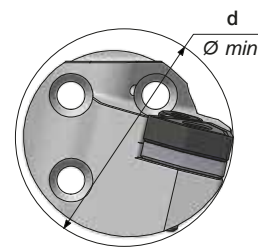
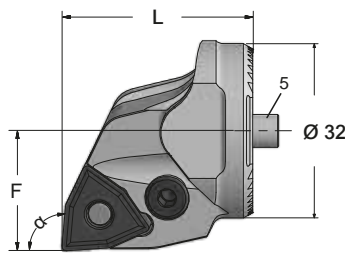
Parti di Ricambio / Spare Parts					Spare Parts Kit
 1	 2	 3	 4	 5	
S6016N	LV01	V0601	S535	CS-25-002	KIT-PT16
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head







CS32-PWLNR/L-08

D32

Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-PWLNR/L-08	MSS-A...S32-...	40	35	22	WN..08	0,15 Kg

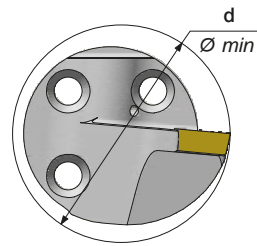
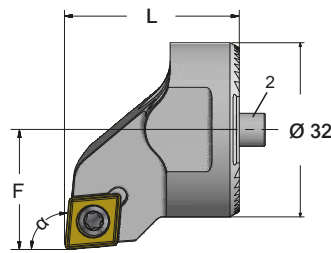
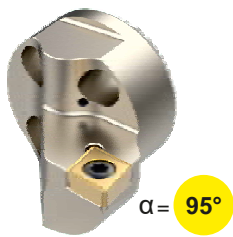
Parti di Ricambio / Spare Parts					Spare Parts Kit
 1	 2	 3	 4	 5	
S8008N	LV02	V0802	S635	CS-25-002	KIT-PW08
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

CS32-SCLCR/L-09

D32

Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-SCLCR/L-09	MSS-A...S32-...	40	32	22	CN..09	0,15 Kg

Parti di Ricambio / Spare Parts

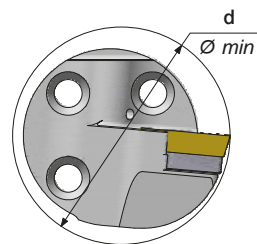
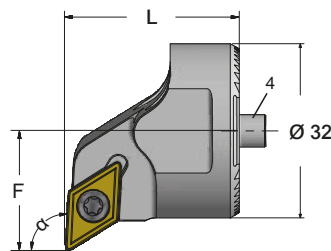
1	2
TX3511	CS-25-002
5 pz/pcs	1 pz/pc

Le immagini raffigurano la testina destra / Pictures represent right head

CS32-SDUCR/L-11

D32

Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-SDUCR/L-11	MSS-A...S32-...	40	32	22	DN..11	0,15 Kg

Parti di Ricambio / Spare Parts

Spare Parts Kit

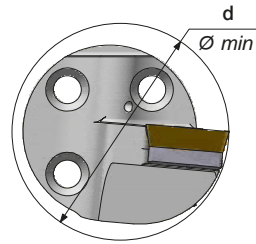
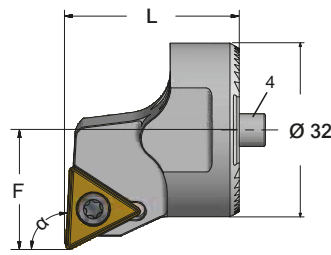
1	2	3	4	1 2 3
S5511P	B0509	TX3513	CS-25-002	KIT-SD11
5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

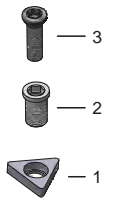
CS32-STUCR/L-16

D32






Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-STUCR/L-16	MSS-A...S32-...	40	32	22	TC..16	0,15 Kg

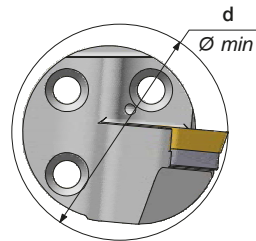
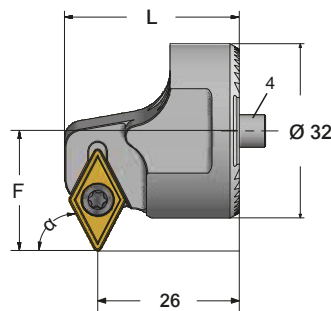
Parti di Ricambio / Spare Parts				Spare Parts Kit
				
S6016P	B0509	TX3513	CS-25-002	KIT-ST16
5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

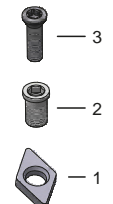
CS32-SDNCR/L-11

D32






Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-SDNCR/L-11	MSS-A...S32-...	40	32	22	DN..11	0,15 Kg

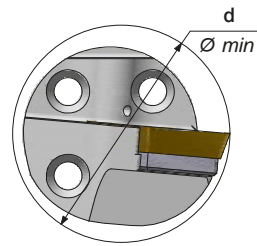
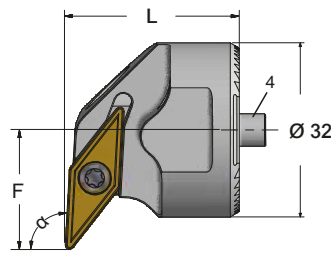
Parti di Ricambio / Spare Parts				Spare Parts Kit
				
S5511P	B0509	TX3513	CS-25-002	KIT-SD11
5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

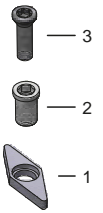
CS32-SVUBR/L-16

D32






Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars/



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-SVUBR/L-16	MSS-A...S32-...	40	32	22	VB..16	0,15 Kg

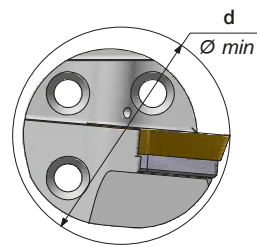
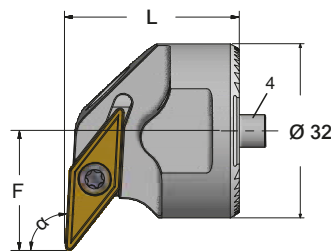
Parti di Ricambio / Spare Parts				Spare Parts Kit
 1	 2	 3	 4	
S3516P	B0509	TX3513	CS-25-002	KIT-SV16
5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

CS32-SVUCR/L-16

D32






Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-SVUCR/L-11	MSS-A...S32-...	40	32	22	VC..16	0,15 Kg

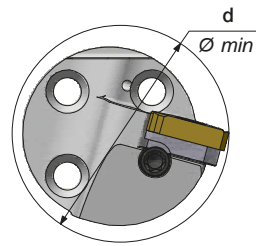
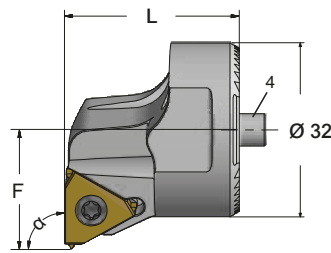
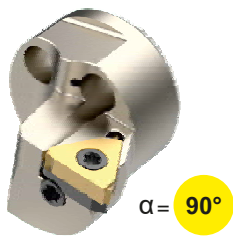
Parti di Ricambio / Spare Parts				Spare Parts Kit
 1	 2	 3	 4	
S3516P	B0509	TX3513	CS-25-002	KIT-SV16
5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

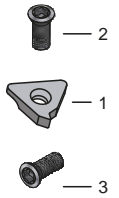
CS32-SIR/L-16

D32


Testine CS32 per Barre e Cartucce Bareno / Heads CS32 for Boring Bars and Cartridge Boring Bars



KIT RICAMBI
SPARE PARTS KIT



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS32-SIR/L-16	MSS-A...S32-...	40	32	22	16IR..	0,15 Kg

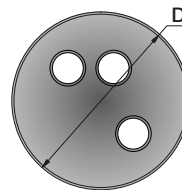
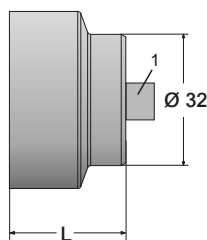
Parti di Ricambio / Spare Parts				Spare Parts Kit
 1	 2	 3	 4	
R = A116 L = AE16 5 pz/pcs	TX3510 5 pz/pcs	TX3513 5 pz/pcs	CS-25-002 1 pz/pc	KIT-SI16R/L 1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head

CS32-XXR/L

D32

Testine Neutre CS32 per Barre e Cartucce Bareno / Neutral Heads CS32 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	D	L	F	Inserto Insert	Peso Weight
CS32-XXR/L	MSS-A...S32-...	47	35,9	-	-	0,15 Kg

 1						
CS-25-002 1 pz/pc						

Le immagini raffigurano la testina destra / Pictures represent right head

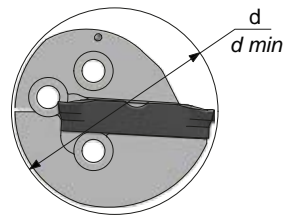
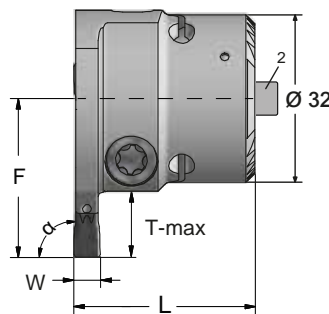
CS32-CIGR/L-20-11

D32

Testine di Troncatura CS32 per Barre e Cartucce Bareno / Grooving Heads CS32 for Borign Bars and Cartridge Boring Bars



$\alpha = 90^\circ$



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS32-CIGR/L-20-11	MSS-A...S32-...	45	32	28	2,0	11	CTSN 22-20	0,15 Kg

Parti di Ricambio / Spare Parts

1	2							
TX4012	CS-25-002							
5 pz/pcs	1 pz/pc							

Le immagini raffigurano la testina destra / Pictures represent right head

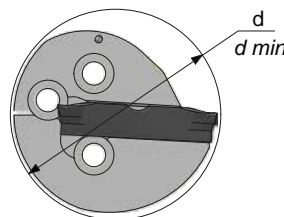
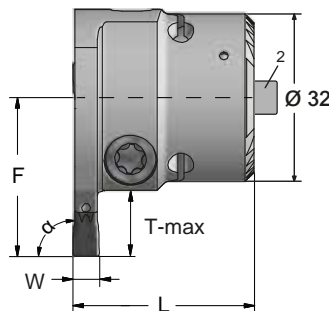
CS32-CIGR/L-30-11

D32

Testine di Troncatura CS32 per Barre e Cartucce Bareno / Grooving Heads CS32 for Borign Bars and Cartridge Boring Bars



$\alpha = 90^\circ$



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS32-CIGR/L-30-11	MSS-A...S32-...	45	32	28	3,0	11	CTSN 22-30	0,15 Kg

Parti di Ricambio / Spare Parts

1	2							
TX4012	CS-25-002							
5 pz/pcs	1 pz/pc							

Le immagini raffigurano la testina destra / Pictures represent right head

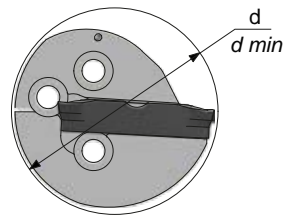
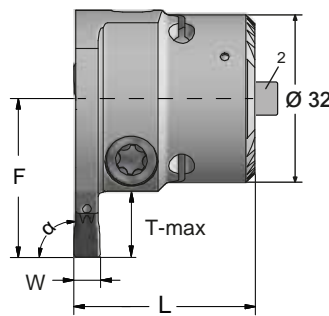
CS32-CIGR/L-40-11

D32

Testine di Troncatura CS32 per Barre e Cartucce Bareno / Grooving Heads CS32 for Boring Bars and Cartridge Boring Bars




$\alpha = 90^\circ$

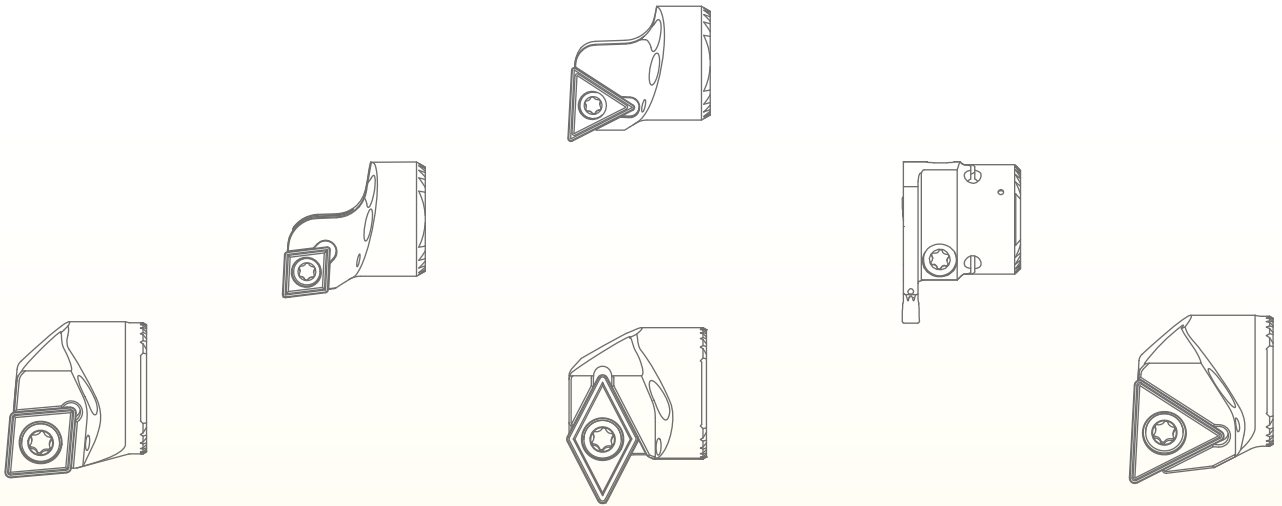


Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS32-CIGR/L-40-11	MSS-A...S32-...	45	32	28	4,0	11	CTSN 25-40	0,15 Kg

Parti di Ricambio / Spare Parts

1	2	3					
							
TX4012	CS-25-002						
5 pz/pcs	1 pz/pc						

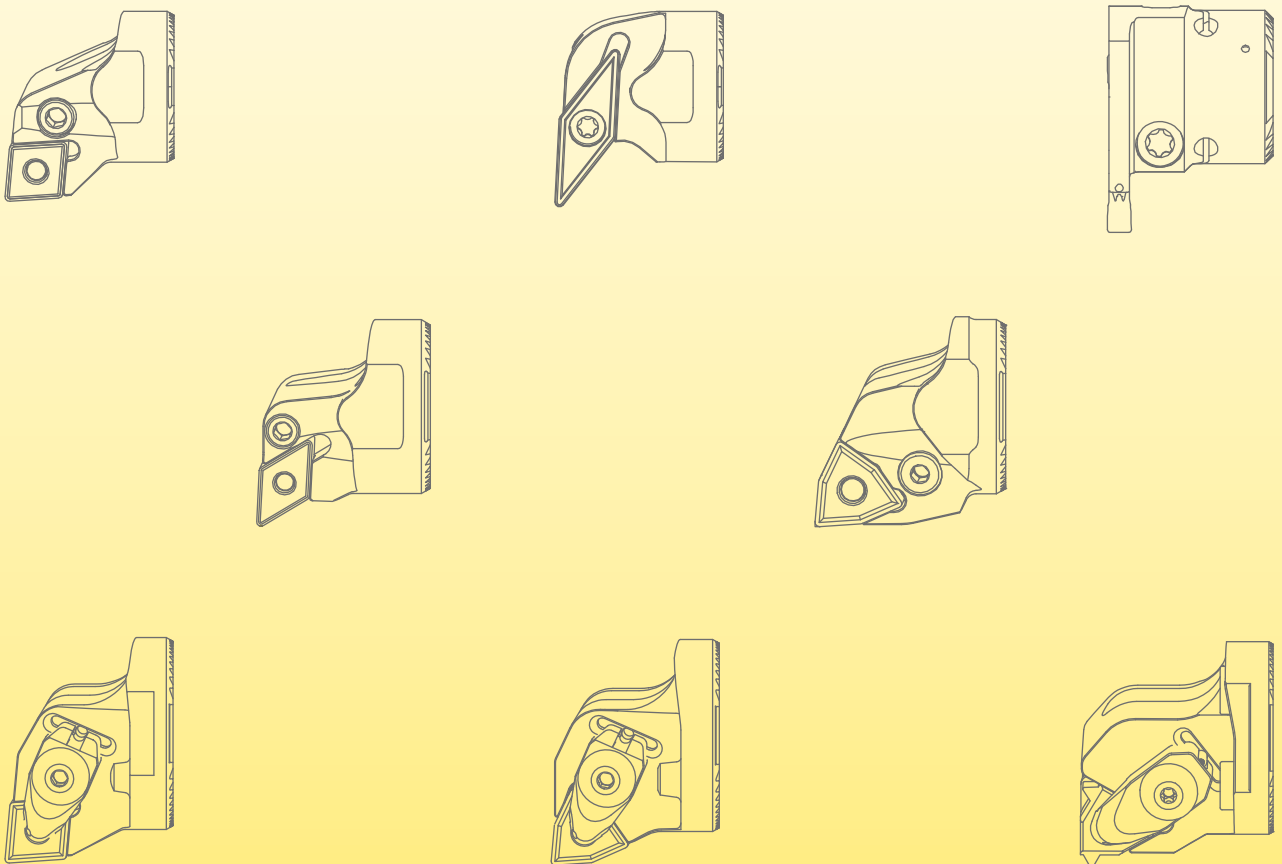
Le immagini raffigurano la testina destra / Pictures represent right head



CS40

Testine / Heads

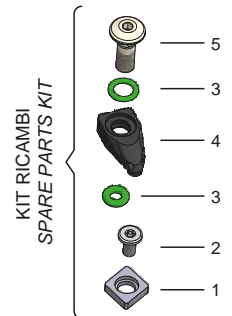
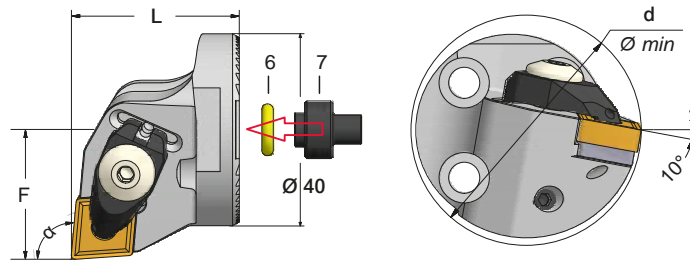
DABtool - **ModuSTAR**
System



CS40-DCLNR/L-12

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DCLNR/L-12	A...40-...-...	MSS-A...S40-...	48	35,0	27	CN..12	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts

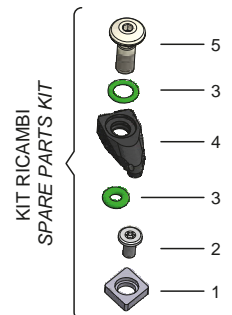
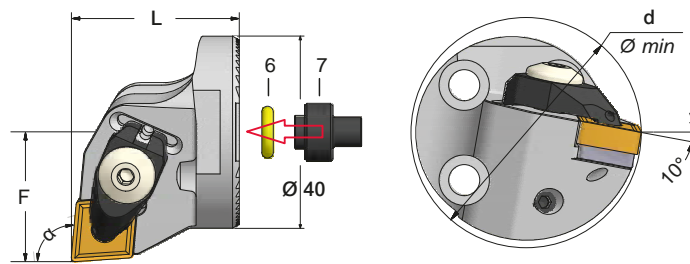
Spare Parts Kit

1	2	3	4	5	6	7	1 2 3 4 5
S8012P	VD0408	OR-SET	R = CTC031 L = CTC032	V6017TX	OR-CS40	DM-05-000	KIT-DC12R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

CS40-DCLNR/L-16

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DCLNR/L-16	A...40-...-...	MSS-A...S40-...	48	35,0	27	CN..16	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts

Spare Parts Kit

1	2	3	4	5	6	7	1 2 3 4 5
S8016N	VD0510-8.5	OR-SET	R = CTC056 L = CTC057	V6017TX	OR-CS40	DM-05-000	KIT-DC16R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

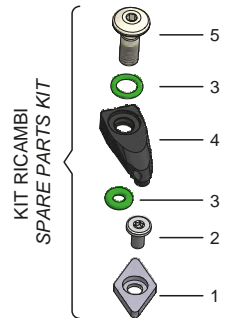
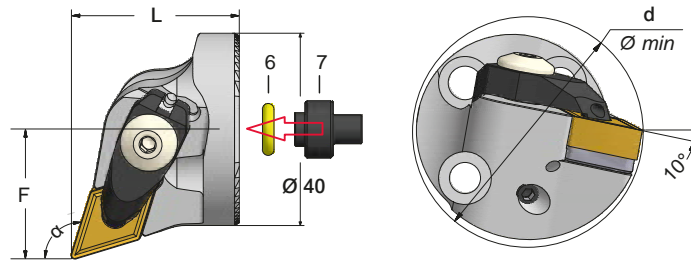
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-DDQNR/L-15

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DDQNR/L-15	A...40-...-...	MSS-A...S40-...	48	35,0	27	DN..15	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts

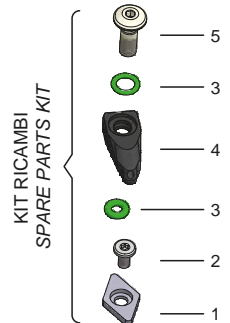
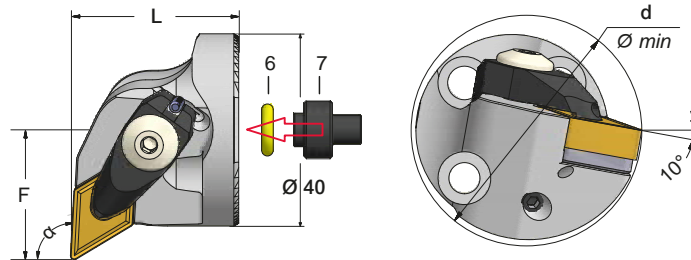
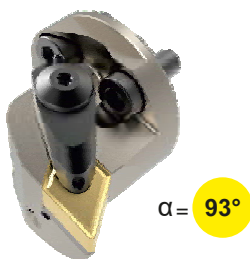
Spare Parts Kit

1	2	3	4	5	6	7	1 2 3 4 5
S5515D	VD0408	OR-SET	R = CTC038 L = CTC039	V6017TX	OR-CS40	DM-05-000	KIT-DD15R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

CS40-DDUNR/L-15

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DDUNR/L-15	A...40-...-...	MSS-A...S40-...	48	35,0	27	DN..15	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts

Spare Parts Kit

1	2	3	4	5	6	7	1 2 3 4 5
S5515D	VD0408	OR-SET	CTC033	V6017TX	OR-CS40	DM-05-000	KIT-DD15N
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

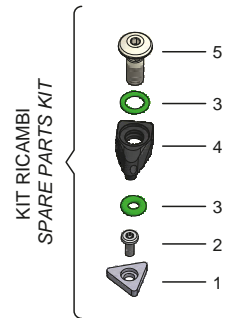
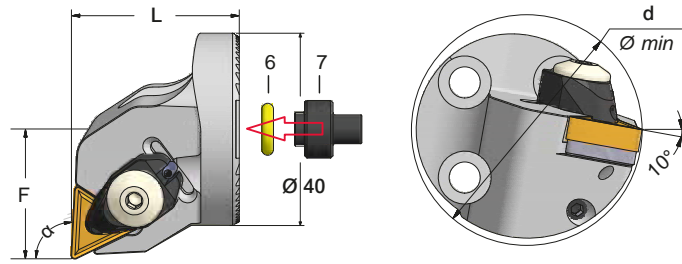
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-DTUNR/L-16

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



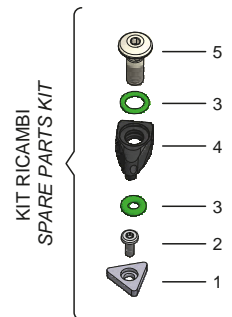
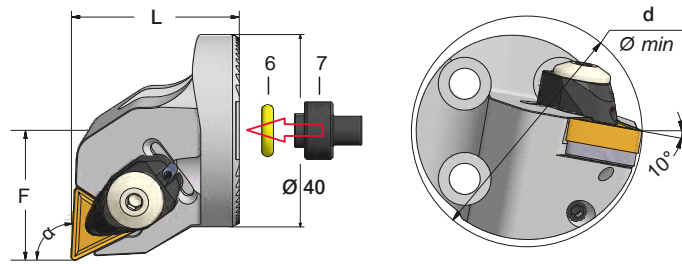
Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DTUNR/L-16	A...40-...-...	MSS-A...S40-...	48	35,0	27	TN..16	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts							Spare Parts Kit
S6016D	VD0308	OR-SET	R = CTC034 L = CTC035	V6017TX	OR-CS40	DM-05-000	KIT-DT16R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

CS40-DTUNR/L-22

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DTUNR/L-22	A...40-...-...	MSS-A...S40-...	48	40,0	27	TN..22	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts							Spare Parts Kit
S6022D	VD0408	OR-SET	R = CTC032 L = CTC031	V6017TX	OR-CS40	DM-05-000	KIT-DT22R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

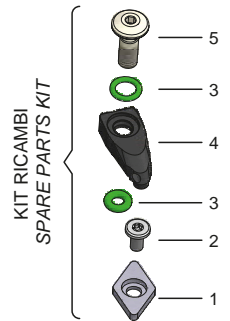
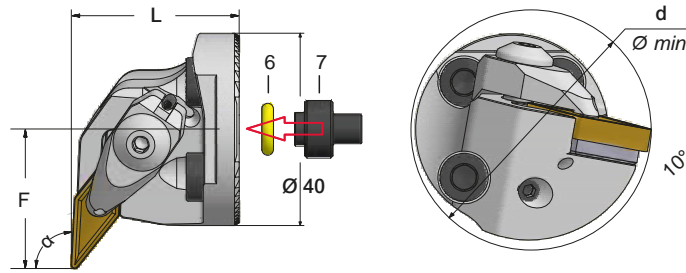
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-DVUNR/L-16

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DVUNR/L-16	A...40-...-...	MSS-A...S40-...	50	35,0	29	VN..16	0,20 Kg
	A...50-...-...	MSS-A...S50-...	60				
	A...60-...-...	-	70				
	A...80-...-...	-	90				
	A...100-...-...	-	110				

Parti di Ricambio / Spare Parts

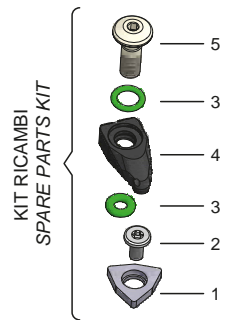
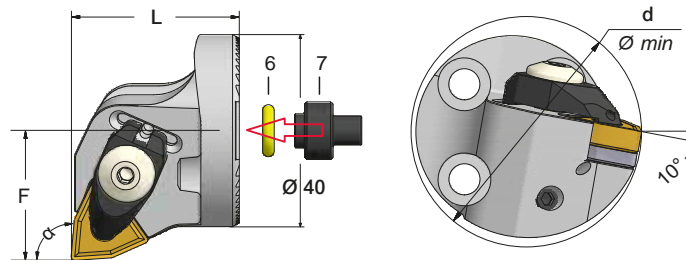
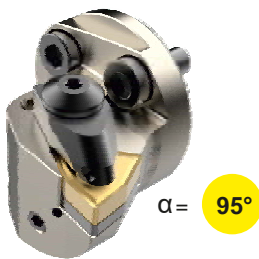
Spare Parts Kit

1	2	3	4	5	6	7	1 2 3 4 5
S3516P	VD4007	OR-SET	R = CTC037 L = CTC036	V6017TX	OR-CS40	DM-05-000	KIT-DV16R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

CS40-DWLNR/L-08

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DWLNR/L-08	A...40-...-...	MSS-A...S40-...	48	35,0	27	WN..08	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts

Spare Parts Kit

1	2	3	4	5	6	7	1 2 3 4 5
S8008P	VD0408B	OR-SET	R = CTC031 L = CTC032	V6017TX	OR-CS40	DM-05-000	KIT-DW08R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

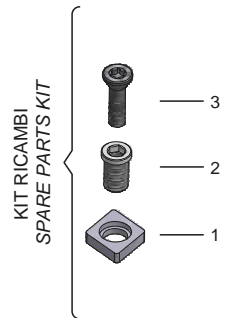
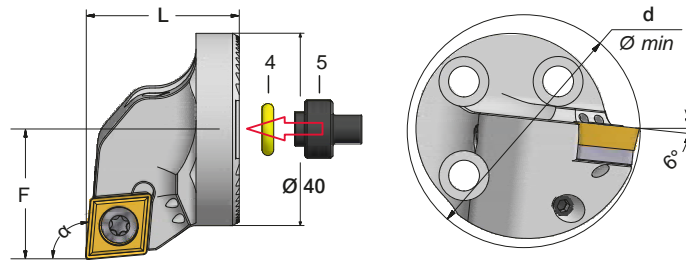
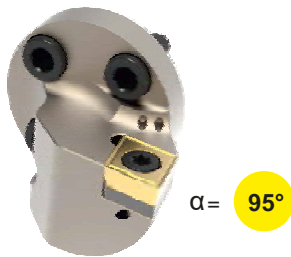
Le immagini raffigurano la testina destra / Pictures represent right head









CS40-SCLCR/L-12

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



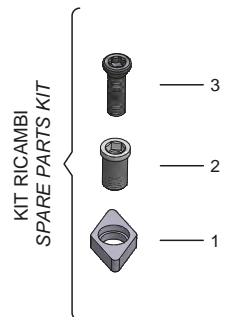
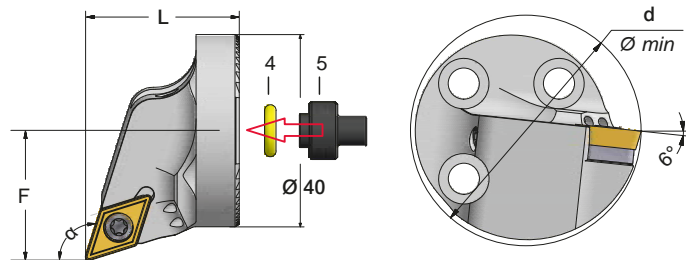
Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-SCLCR/L-12	A...40-...-...	MSS-A...S40-...	49	32,0	27	CC..12	0,20 Kg
	A...50-...-...	MSS-A...S50-...	59				
	A...60-...-...	-	69				
	A...80-...-...	-	89				
	A...100-...-...	-	109				

Parti di Ricambio / Spare Parts					Spare Parts Kit
 1	 2	 3	 4	 5	 1 2 3
S8012P	B0609	TX4014	OR-CS40	DM-05-000	KIT-SC12
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.







CS40-SDQCR/L-11

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-SDQCR/L-11	A...40-...-...	MSS-A...S40-...	48	32,0	27	DC..11	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts					Spare Parts Kit
 1	 2	 3	 4	 5	 1 2 3
S5511P	B0509	TX3513	OR-CS40	DM-05-000	KIT-SD11
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head



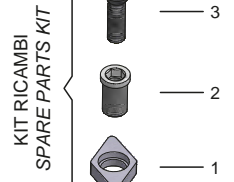
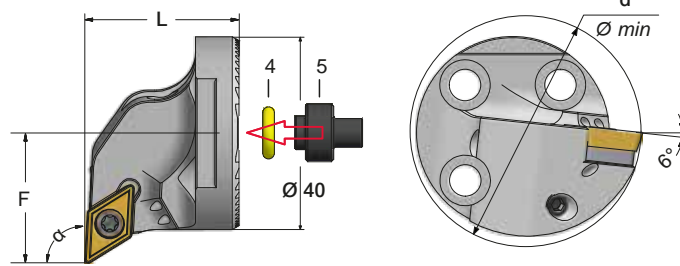
CS40-SDUCR/L-11

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



$\alpha = 93^\circ$



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-SDUCR/L-11	A...40-.....	MSS-A...S40-...	49	32,0	27	DC..11	0,20 Kg
	A...50-.....	MSS-A...S50-...	59				
	A...60-.....	-	69				
	A...80-.....	-	89				
	A...100-.....	-	109				

Parti di Ricambio / Spare Parts

Spare Parts Kit

1	2	3	4	5	1 2 3
S5511P	B0509	TX3513	OR-CS40	DM-05-000	KIT-SD11
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

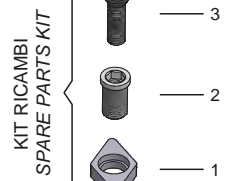
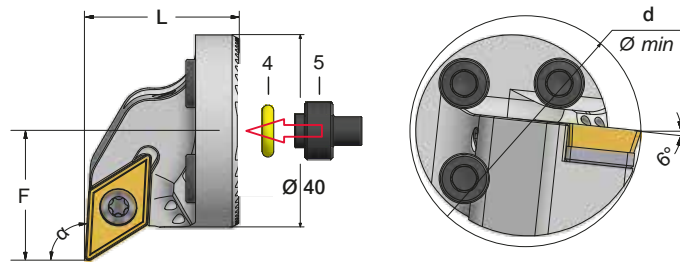
CS40-SDUCR/L-15

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



$\alpha = 93^\circ$



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-SDUCR/L-15	A...40-.....	MSS-A...S40-...	49	32,0	27	DC..15	0,20 Kg
	A...50-.....	MSS-A...S50-...	59				
	A...60-.....	-	69				
	A...80-.....	-	89				
	A...100-.....	-	109				

Parti di Ricambio / Spare Parts

Spare Parts Kit

1	2	3	4	5	1 2 3
S5515N	B0609D	TX4014	OR-CS40	DM-05-000	KIT-SD15
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

Le immagini raffigurano la testina destra / Pictures represent right head



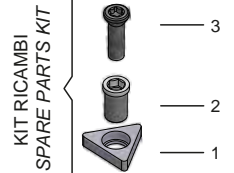
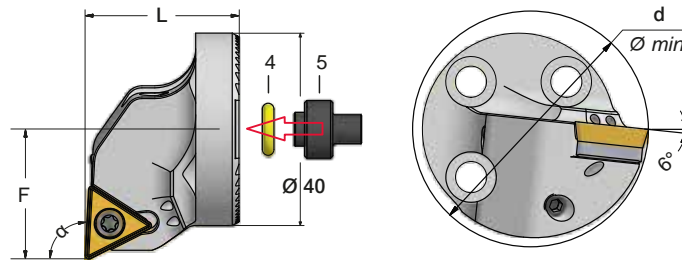
CS40-STUCR/L-16

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



$\alpha = 93^\circ$



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-STUCR/L-16	A...40-...-...	MSS-A...S40-...	49	32,0	27	TC..16	0,20 Kg
	A...50-...-...	MSS-A...S50-...	59				
	A...60-...-...	-	69				
	A...80-...-...	-	89				
	A...100-...-...	-	109				

Parti di Ricambio / Spare Parts

Spare Parts Kit

1	2	3	4	5		
S6016P	B0509	TX3513	OR-CS40	DM-05-000		KIT-ST16
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc		1 pz/pc cad.

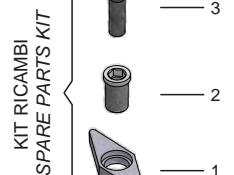
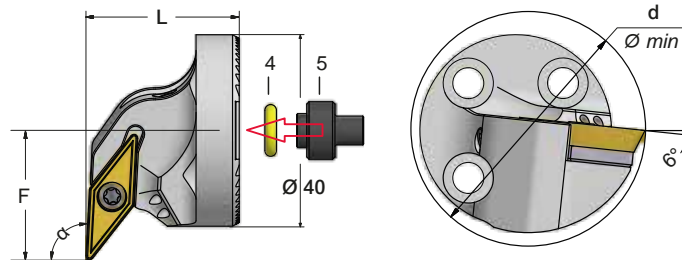
CS40-SVUBR/L-16

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



$\alpha = 93^\circ$



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-SVUBR/L-16	A...40-...-...	MSS-A...S40-...	49	32,0	27	VB..16	0,20 Kg
	A...50-...-...	MSS-A...S50-...	59				
	A...60-...-...	-	69				
	A...80-...-...	-	89				
	A...100-...-...	-	109				

Parti di Ricambio / Spare Parts

Spare Parts Kit

1	2	3	4	5		
S3516P	B0509	TX3513	OR-CS40	DM-05-000		KIT-SV16
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc		1 pz/pc cad.

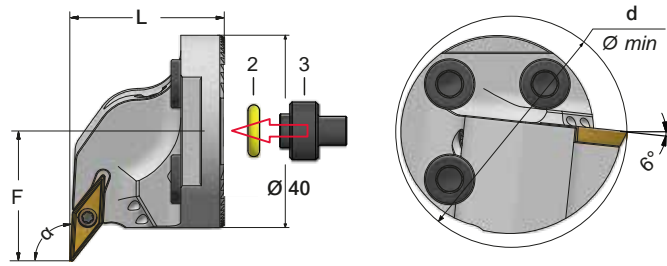
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-SVUCR/L-11

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-SVUCR/L-11	A...40-...-...	MSS-A...S40-...	49	32,0	27	VC..11	0,20 Kg
	A...50-...-...	MSS-A...S50-...	59				
	A...60-...-...	-	69				
	A...80-...-...	-	89				
	A...100-...-...	-	109				

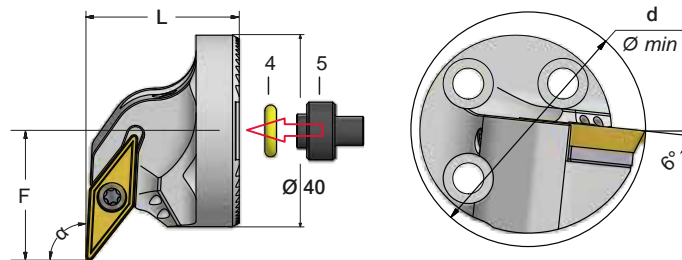
Parti di Ricambio / Spare Parts

1	2	3					
TX2506	OR-CS40	DM-05-000					
5 pz/pcs	5 pz/pcs	1 pz/pc					

CS40-SVUCR/L-16

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-SVUCR/L-16	A...40-...-...	MSS-A...S40-...	49	32,0	27	VC..16	0,20 Kg
	A...50-...-...	MSS-A...S50-...	59				
	A...60-...-...	-	69				
	A...80-...-...	-	89				
	A...100-...-...	-	109				

Parti di Ricambio / Spare Parts

1	2	3	4	5			Spare Parts Kit
S3516P	B0509	TX3513	OR-CS40	DM-05-000			KIT-SV16
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc			1 pz/pc cad.

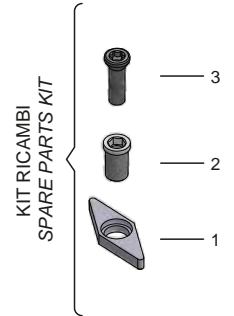
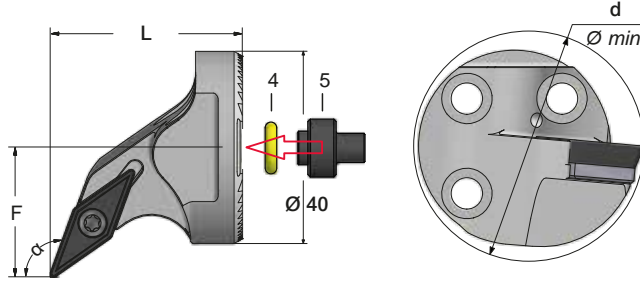
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-SVXCR/L-16

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-SVXCR/L-16	A...40-...-...	MSS-A...S40-...	48	40,0	27	VC..16	0,20 Kg
	A...50-...-...	MSS-A...S50-...	58				
	A...60-...-...	-	68				
	A...80-...-...	-	88				
	A...100-...-...	-	108				

Parti di Ricambio / Spare Parts

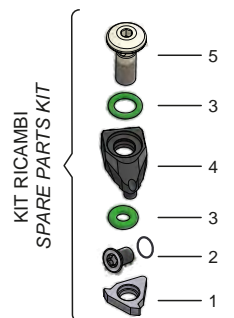
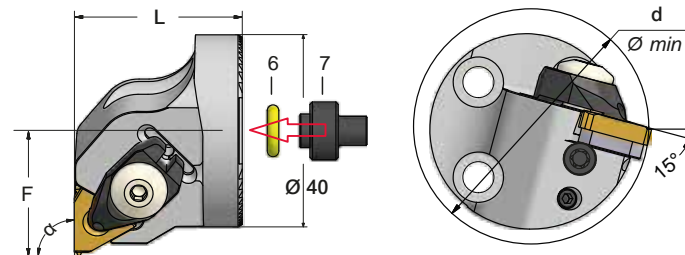
Spare Parts Kit

1	2	3	4	5	6	7	8
S3516P	B0509	TX3513	OR-CS40	DM-05-000			KIT-SV16
5 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc			1 pz/pc cad.

CS40-DIR/L-16

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DIR/L-22	A...40-...-...	MSS-A...S40-...	49	35,0	27	161R	0,20 Kg
	A...50-...-...	MSS-A...S50-...	59				
	A...60-...-...	-	69				
	A...80-...-...	-	89				
	A...100-...-...	-	109				

Parti di Ricambio / Spare Parts

Spare Parts Kit

1	2	3	4	5	6	7	8
R = A116 L = AE16	TXA3007	OR-SET	R = CTC040 L = CTC041	V6017TX	OR-CS40	DM-05-000	KIT-DI16R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

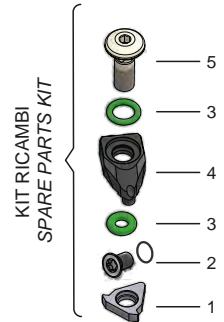
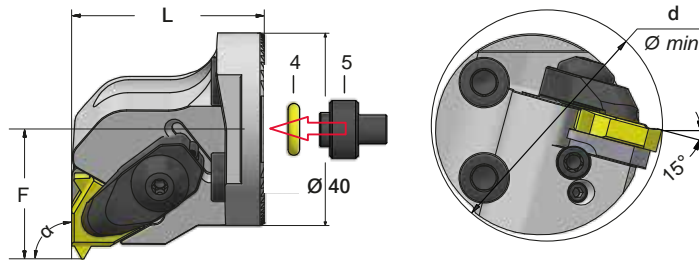
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-DIR/L-22

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	Inserto Insert	Peso Weight
CS40-DIR/L-22	A...40-...-...	MSS-A...S40-...	49	40,0	27	22IR	0,20 Kg
	A...50-...-...	MSS-A...S50-...	59				
	A...60-...-...	-	69				
	A...80-...-...	-	89				
	A...100-...-...	-	109				

Parti di Ricambio / Spare Parts

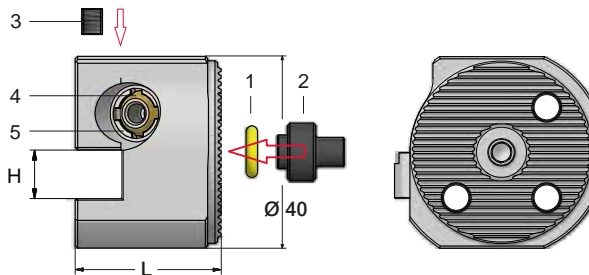
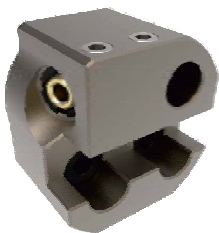
Spare Parts Kit

1	2	3	4	5	6	7	1 2 3 4 5
R = AI22 L = AE22	TXA3007	OR-SET	R = CTC047 L = CTC048	V6017TX	OR-CS40	DM-05-000	KIT-DI22R/L
5 pz/pcs	5 pz/pcs	10 + 10 pz/pcs	5 pz/pcs	5 pz/pcs	5 pz/pcs	1 pz/pc	1 pz/pc cad.

CS40-PU10R/L

D40

Testine CS40 per Barre e Cartucce Bareno / Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barre Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	H	Utensile Tool	Peso Weight
CS40-PU10R/L	A...40-...-...	MSS-A...S40-...	-	32,0	10	1010	0,20 Kg
	A...50-...-...	MSS-A...S50-...	-				
	A...60-...-...	-	-				
	A...80-...-...	-	-				
	A...100-...-...	-	-				

Parti di Ricambio / Spare Parts

1	2	3	4	5
OR-CS40	DM-05-000	GR06020	SF13990	BS13989
5 pz/pcs	1 pz/pc	5 pz/pcs	5 pz/pcs	5 pz/pcs

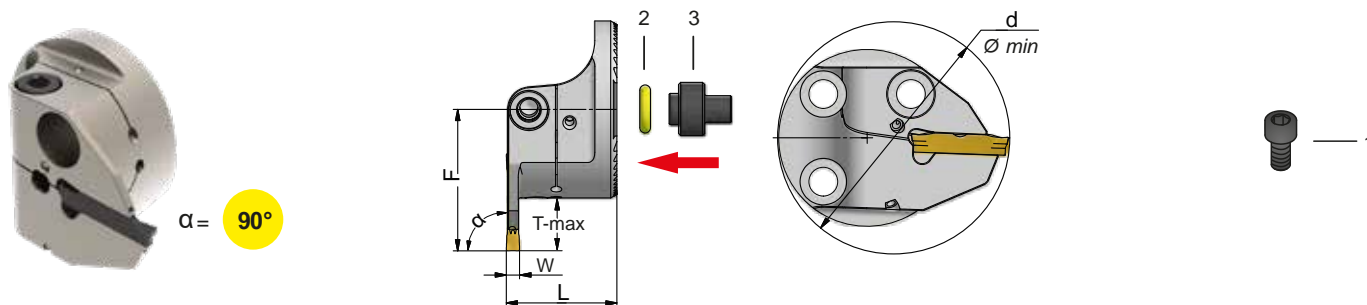
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-CIGR/L-20-11

D40

Testine di Troncatura CS40 per Barre e Cartucce Barena / Grooving Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Barena Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS40-CIGR/L-20-11	A...40-...-...	MSS-A...S40-...	52,2	25	32	2,0	11	CTSN 22-20	0,20 Kg
	A...50-...-...	MSS-A...S50-...	62,5						
	A...60-...-...	-	72,5						
	A...80-...-...	-	92,5						
	A...100-...-...	-	112,5						

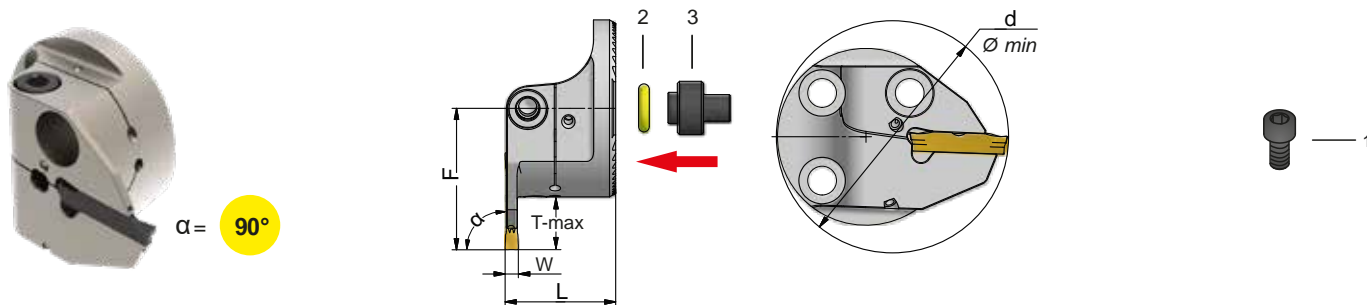
Parti di Ricambio / Spare Parts

1	2	3							
VB0518	OR-CS40	DM-05-000							
5 pz/pcs	5 pz/pcs	1 pz/pc							

CS40-CIGR/L-30-11

D40

Testine di Troncatura CS40 per Barre e Cartucce Barena / Grooving Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Barena Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS40-CIGR/L-30-11	A...40-...-...	MSS-A...S40-...	52,2	25	32	3,0	11	CTSN 22-30	0,20 Kg
	A...50-...-...	MSS-A...S50-...	62,5						
	A...60-...-...	-	72,5						
	A...80-...-...	-	92,5						
	A...100-...-...	-	112,5						

Parti di Ricambio / Spare Parts

1	2	3							
VB0518	OR-CS40	DM-05-000							
5 pz/pcs	5 pz/pcs	1 pz/pc							

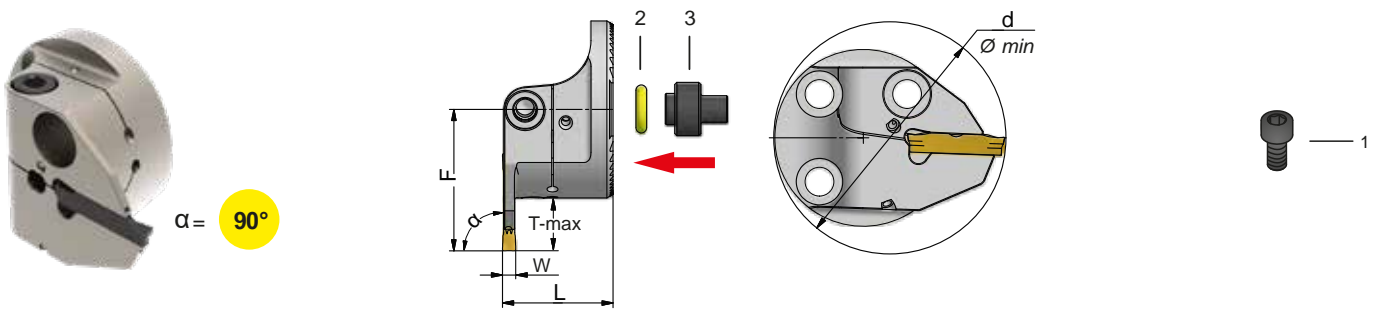
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-CIGR/L-40-11

D40

Testine di Troncatura CS40 per Barre e Cartucce Bareno / Grooving Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS40-CIGR/L-40-11	A...40-...-...	MSS-A...S40-...	52,2	25	32	4,0	11	CTSN 25-40	0,20 Kg
	A...50-...-...	MSS-A...S50-...	62,5						
	A...60-...-...	-	72,5						
	A...80-...-...	-	92,5						
	A...100-...-...	-	112,5						

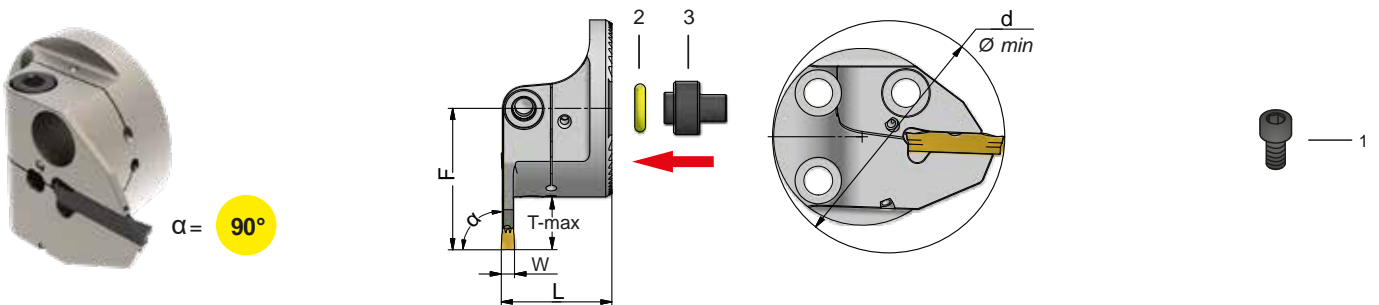
Parti di Ricambio / Spare Parts

1	2	3							
VB0518	OR-CS40	DM-05-000							
5 pz/pcs	5 pz/pcs	1 pz/pc							

CS40-CIGR/L-50-11

D40

Testine di Troncatura CS40 per Barre e Cartucce Bareno / Grooving Heads CS40 for Boring Bars and Cartridge Boring Bars



Codice Articolo Item Code	Barra Boring Bar	Cartuccia Bareno Cartridge Boring Bar	d Ø min	L	F	W	T-max	Inserto Insert	Peso Weight
CS40-CIGR/L-50-11	A...40-...-...	MSS-A...S40-...	52,2	25	32	5,0	11	CTSN 25-50	0,20 Kg
	A...50-...-...	MSS-A...S50-...	62,5						
	A...60-...-...	-	72,5						
	A...80-...-...	-	92,5						
	A...100-...-...	-	112,5						

Parti di Ricambio / Spare Parts

1	2	3							
VB0518	OR-CS40	DM-05-000							
5 pz/pcs	5 pz/pcs	1 pz/pc							

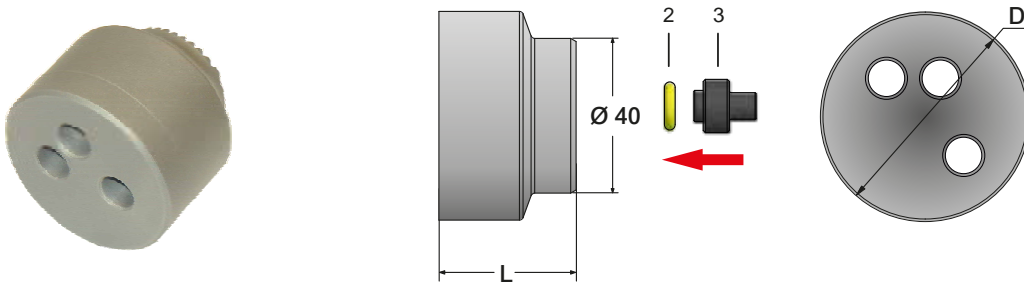
Le immagini raffigurano la testina destra / Pictures represent right head



CS40-XXR/L

D40

Testine Neutre CS40 per Cartucce Bareno A...S40/50 / Blank Heads CS40 for Cartridge Boring Bar A...S40/50



Codice Articolo Item Code	Cartuccia Bareno Cartridge Boring Bar	D	L	F	Inserto Insert	Peso Weight
CS40-XXR/L	MSS-A...S40-...	54	36	-	-	0,20 Kg
	MSS-A...S50-...	54				

	①	2	3
	OR-CS40		DM-05-000
	5 pc/pcs		1 pc/pc

Le immagini raffigurano la testina destra / Pictures represent right head

DABtool

Damper Antivibration Bar



finest metalworking solutions


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