

Edizione 3

SOLUZIONI PER ALTO RENDIMENTO



Testina micrometrica EWN

Testine di barenatura di precisione con barre di barenatura centrale in esecuzione modulare ed integrale per operazioni di barenatura accurate ed elevate.

Stessi accessori per testine di barenatura di precisione EWN e EWD.

- Campi di alesatura: \varnothing 0.4 - 152



EWN 2-152



EWN 2-32

EWN 04-22



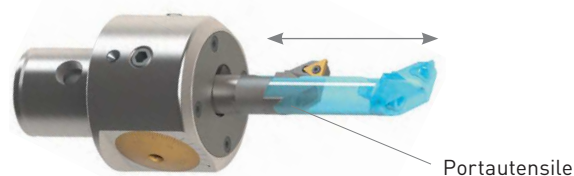
EWN 04-15

EWN 04-12

EWN 04-7

Regolazione variabile lunghezza utensile del supporto utensile

I migliori risultati di taglio sono raggiungibili solo se il supporto utensile è il più corto possibile. Le caratteristiche EWN a regolazione lunghezza variabile del supporto utensile assicurano l'assemblaggio utensile più corto possibile e perciò più rigido.



Ben bilanciato quando il porta utensile è posizionato in posizione centrale

I porta utensili in metallo duro con supporti inserto regolabili permettono la regolazione del diametro sul supporto dell'inserto. Il supporto utensile pesante rimane nella posizione centrale e non crea alcun squilibrio. Lo squilibrio creato dal porta inserto nella maggior parte dei casi è insignificante.



Grande disco analogico per una lettura senza parallasse

Grazie all'uso di un nonio, le regolazioni diametro di 0.001 mm possono essere eseguite in modo preciso.

Disponibili molte esecuzioni integrali

In aggiunta alle testine di barenatura con connessione CK sono disponibili esecuzioni integrali di EWN 2-152XL per mandrini DV, HSK, BT e BIG CAPTO.



EWN 2-152: ampia gamma di barenatura con un solo utensile

Gamma di barenatura aggiuntiva con porta inserto montati lateralmente da 80-152 mm.

\varnothing 2 - 54 mm

\varnothing 54 - 80 mm

\varnothing 80 - 152 mm



Testina micrometrica EWN

Le testine di barenatura di precisione EWN serie 310 coprono una gamma di 20 - 203 mm con solo 7 testine di barenatura di precisione. Grazie al perfetto equilibrio su tutta la gamma di regolazioni, sono permesse velocità fino a 1200 m/min.

Le testine di barenatura di precisione EWN e EWE, hanno la stessa gamma di barenatura e dimensioni del corpo, permettendo così l'uso degli stessi accessori.

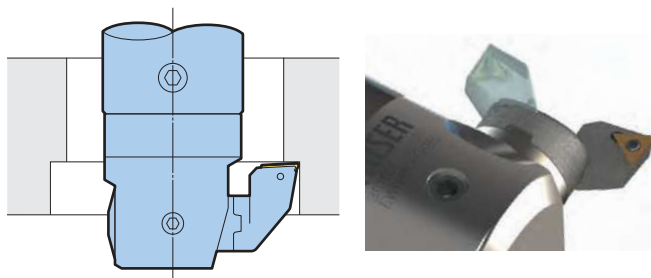
- Campi di alesatura: \varnothing 20 - 203



EWN 53

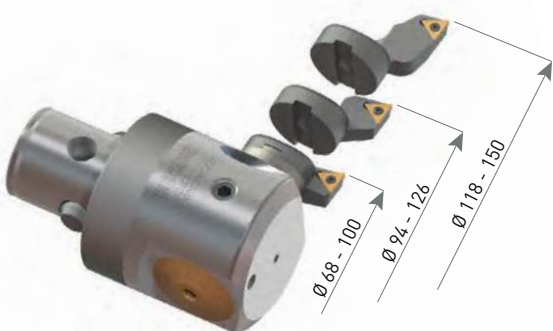
Barenatura posteriore

Il seggio può essere girato di 180° per poter eseguire alesature in tiro.



Ampia gamma di barenatura

Ogni serie EWN 310 ha un'ampia gamma di lavorazioni grazie a 3 differenti porta inserto. Per esempio: EWN 68 può lavorare un diametro da 68 a 150 mm.



Utensile versatile

Sono disponibili porta inserto per molti tipi di inserti (TP/TC, CC con angoli differenti) così come accessori per incisione frontale.



Adatto al sistema tornitura esterna

Le testine EWN/EWE possono essere utilizzate per torniture di perni con una gamma di diametri da 16 a 2856. Ci sono due sistemi di tornitura di perni disponibili.

\varnothing 16 - 120 mm

\varnothing 49 - 2856 mm

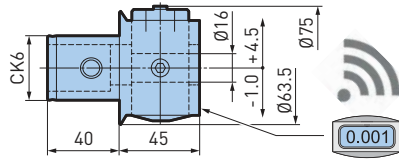


Testa per alesare

No. di rif.

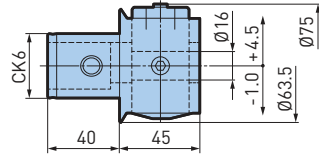
EWE2-152CK6

112.110



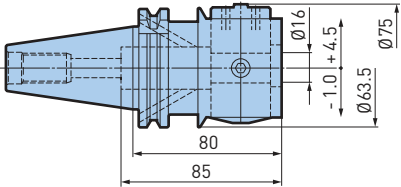
EWN2-152CK6

112.108



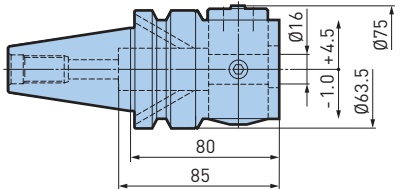
EWN2-152DV40

112.121



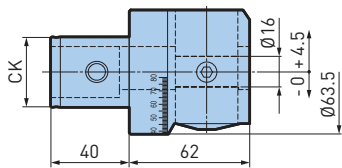
EWN2-152BT40

112.122

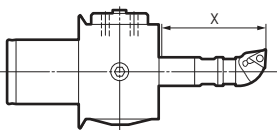


EWB2-50CK6

112.107



X = Profondità foro



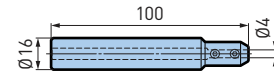
ØD

Gamma di diametri per EWN 2-152

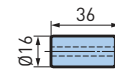
La regolazione del diametro per le testine indicate è:

- Per EWN, EWE, EWB: regolazione + 9 mm Ø

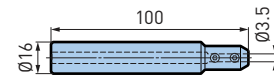
RB16-4-100
613.424 ♦



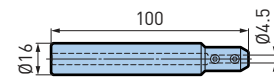
RB16-4
613.404



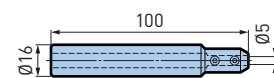
RB16-3.5-100
613.422 ♦



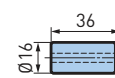
RB16-4.5-100
613.423 ♦



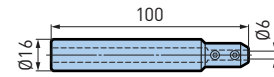
RB16-5-100
613.425 ♦



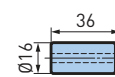
RB16-5
613.405



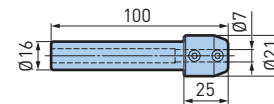
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613.426 ♦



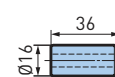
RB16-6
613.406



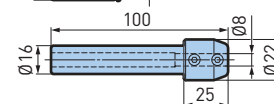
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613.427 ♦



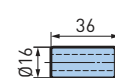
RB16-7
613.407



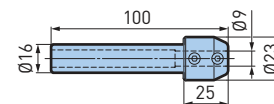
RB16-8-100
613.428 ♦



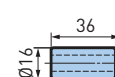
RB16-8
613.408



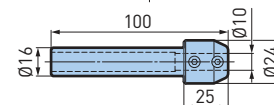
RB16-9-100
613.429 ♦



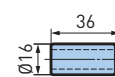
RB16-9
613.409



RB16-10-100
613.430 ♦

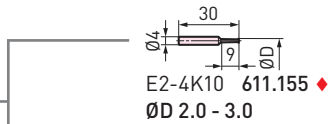


RB16-10
613.410

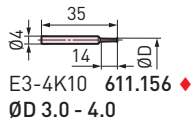


- Barre in metallo duro
- ♦ Raccomandate per EWB 2-50

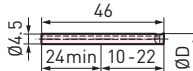
Taglienti a lunghezza fissa



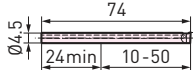
E2-4K10 611.155 ♦
ØD 2.0 - 3.0



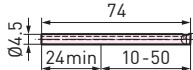
E3-4K10 611.156 ♦
ØD 3.0 - 4.0



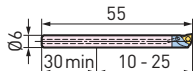
E5-ST4.5-46K10 615.081
ØD 4.9 - 5.9



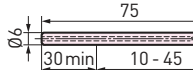
E5-ST4.5-74K10 615.204 ♦
ØD 4.9 - 5.9



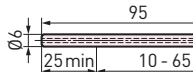
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ØD 4.9 - 5.9



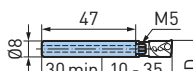
E7.5-ST6-WC02-55HM 615.084
ØD 7.3 - 8.8



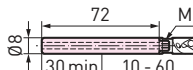
E7.5-ST6-WC02-75HM 615.085
ØD 7.3 - 8.8



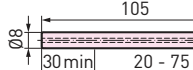
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ØD 7.3 - 8.8



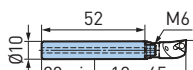
ST8-47 615.211
ØD 8.8 - 11.8



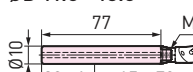
ST8-72HM 615.212 ♦
ØD 8.8 - 11.8



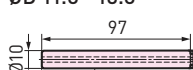
E9-ST8-TP07-105HM 615.213 ♦
ØD 8.8 - 11.8



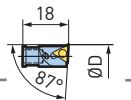
ST10-52 615.214
ØD 11.8 - 13.8



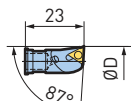
ST10-77HM 615.215 ♦
ØD 11.8 - 13.8



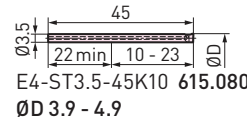
ST10-97HM 615.223 ♦
ØD 11.8 - 13.8



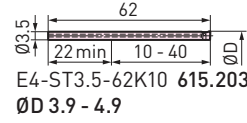
E9T 615.271 ♦
ØD 8.8 - 11.8



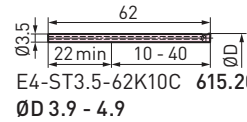
E12T 615.272 ♦
ØD 11.8 - 13.8



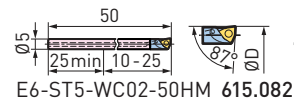
E4-ST3.5-45K10 615.080
ØD 3.9 - 4.9



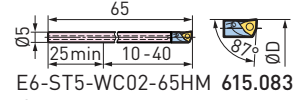
E4-ST3.5-62K10 615.203 ♦
ØD 3.9 - 4.9



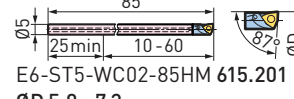
E4-ST3.5-62K10C 615.203A ♦
ØD 3.9 - 4.9



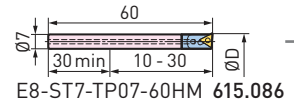
E6-ST5-WC02-50HM 615.082
ØD 5.8 - 7.3



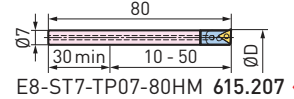
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ØD 5.8 - 7.3



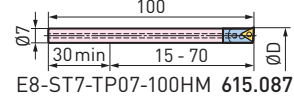
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ØD 5.8 - 7.3



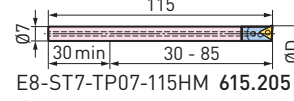
E8-ST7-TP07-60HM 615.086
ØD 7.8 - 9.8



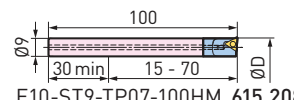
E8-ST7-TP07-80HM 615.207 ♦
ØD 7.8 - 9.8



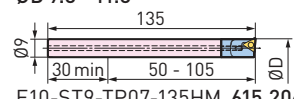
E8-ST7-TP07-100HM 615.087 ♦
ØD 7.8 - 9.8



E8-ST7-TP07-115HM 615.205
ØD 7.8 - 9.8



E10-ST9-TP07-100HM 615.208 ♦
ØD 9.8 - 11.8



E10-ST9-TP07-135HM 615.206 ♦
ØD 9.8 - 11.8



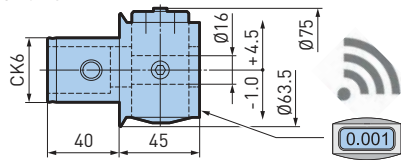
B.2

Testa per alesare

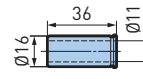
No. di rif.

EWE2-152CK6

112.110

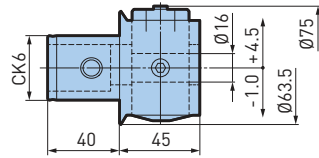


RB16-11
613.411 ♦

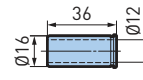


EWN2-152CK6

112.108

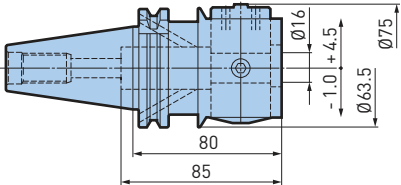


RB16-12
613.412 ♦

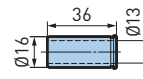


EWN2-152DV40

112.121

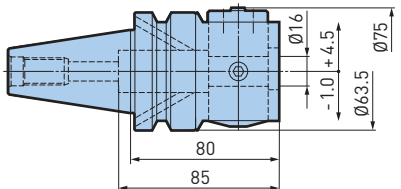


RB16-13
613.413 ♦

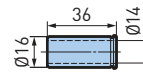


EWN2-152BT40

112.122

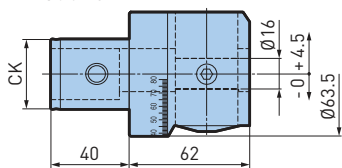


RB16-14
613.414 ♦



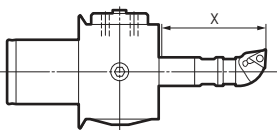
EWB2-50CK6

112.107



B.2

X = Profondità foro



ØD

Gamma di diametri per EWN 2-152

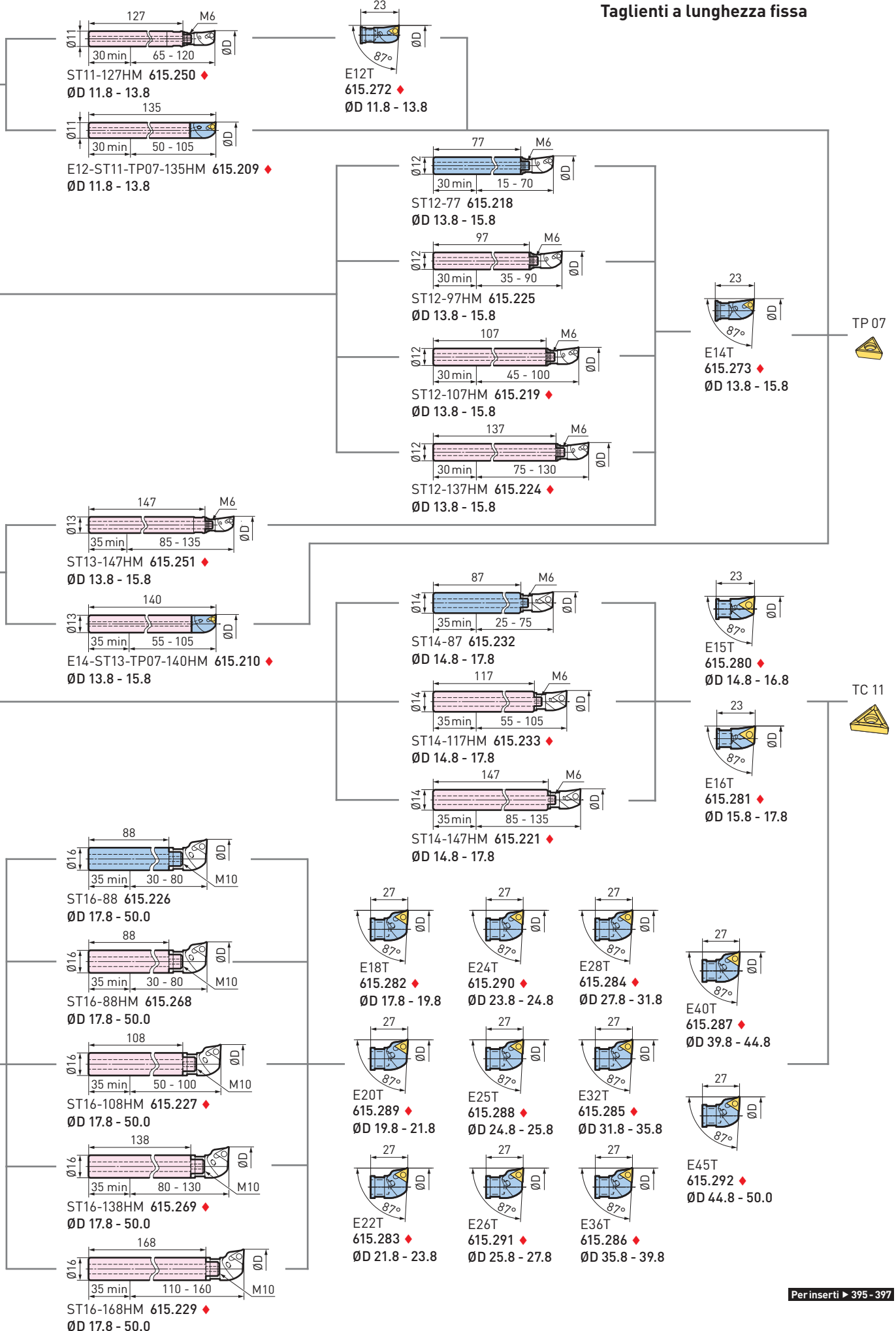
La regolazione del diametro per le testine indicate è:

- Per EWN, EWE, EWB: regolazione + 9 mm Ø

Barre in metallo duro

♦ Raccomandate per EWB 2-50

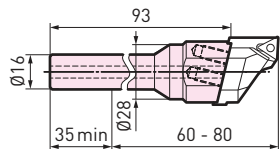
Taglienti a lunghezza fissa



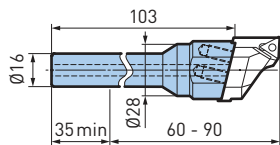
B.2

Testa per alesare

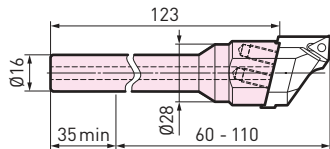
AST16-93HM32-54 615.267
ØD 31.8 - 54.0



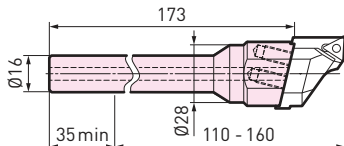
AST16-103 615.264
ØD 31.8 - 54.0



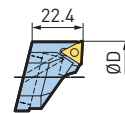
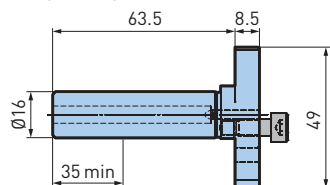
AST16-123HM32-54 615.257
ØD 31.8 - 54.0



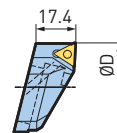
AST16-173HM32-54 615.258
ØD 31.8 - 54.0



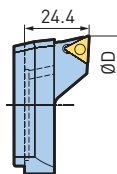
AST16-72 615.387B
ØD 54.0 - 80.0



E32-40T
615.304
ØD 31.8 - 40.0



E40-54T
615.305
ØD 39.8 - 54.0

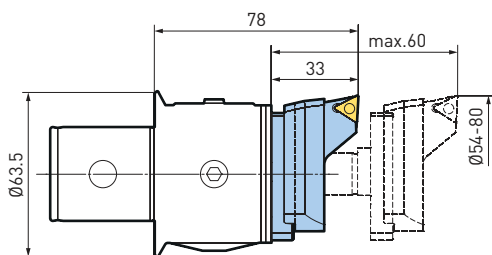


E54-80T
615.306
ØD 54.0 - 80.0

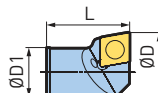
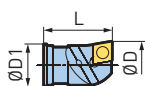


Per inserti ► 396 - 398

B.2



Portainseriti 90°



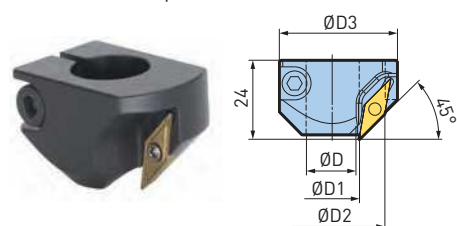
Modello	No. di rif.	ØD1	L	ØD	
E12C	615.420	10	23	11.8 - 14.5	CC 06
E14C	615.421	12	23	13.8 - 16.5	
E16C	615.422	14	23	15.8 - 18.5	CC 09
E18C	615.423	16	27	17.8 - 20.5	
E20C	615.424	16	27	19.8 - 22.5	

Modello	No. di rif.	ØD1	L	ØD	
E22C	615.425	16	27	21.8 - 24.5	CC 09
E24C	615.426	16	27	23.8 - 25.5	
E26C	615.427	16	27	25.8 - 28.5	
E28C	615.428	16	27	27.8 - 32.5	
E30C	615.429	16	27	29.8 - 34.5	

Per inserti ► 401

Anello per smussi

L'anello per l'esecuzione di smussi ne permette l'esecuzione senza dover smontare o sostituire l'utensile. Costruito in acciaio per barre Ø 12 e Ø 16 mm, per smussi da 45°.

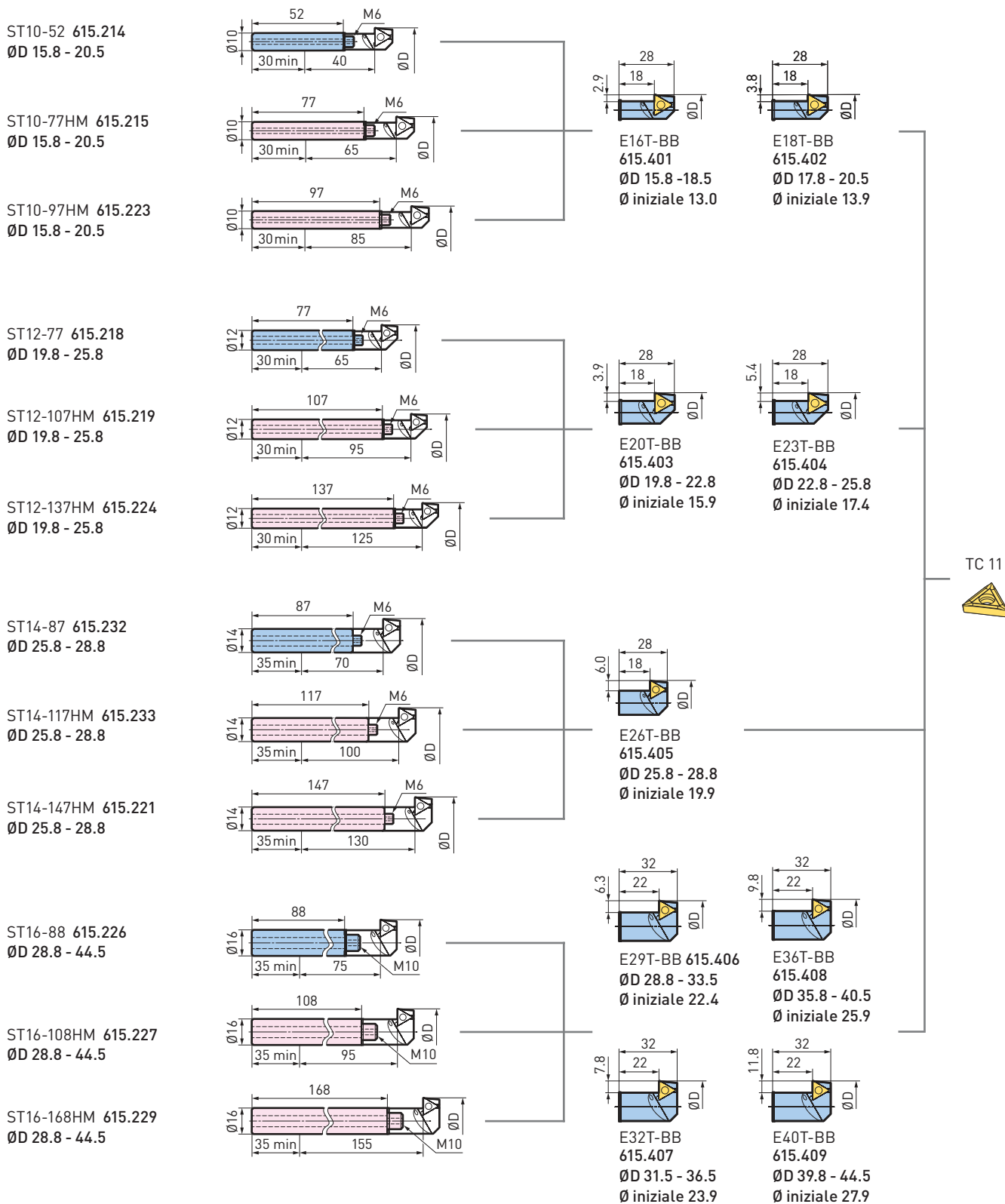


Modello	No. di rif.	Dimensioni				
		ØD	ØD1	ØD2	ØD3	
CR13-27ST12V	615.394	12	12.6	27.7	35	VC 11
CR17-31ST16V	615.395	16	16.6	31.7	39.5	

Per inserti ► 421

Barre in metallo duro

Seggi per barenature in tiro



B.2

Per inserti ▶ 396 - 398

Riduzioni

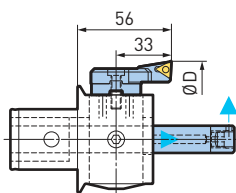
Modello	No. di rif.	ØD	Modello	No. di rif.	ØD
ST16-10-32	615.230	11.8 - 14.5	ST16-12-32	615.231	13.8 - 18.5

Prolunghe

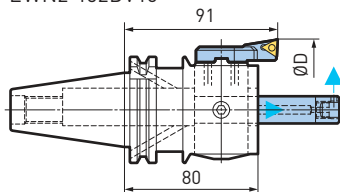
Modello	No. di rif.	ØD	Modello	No. di rif.	ØD
ST12-18	615.220	13.8 - 16.5	ST16-25	615.228	17.8 - 50.0

Seggi per EWN/EWE, Ø 80 - 152

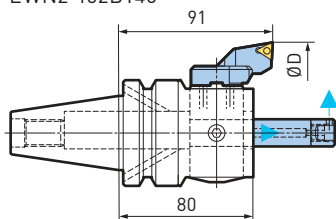
EWN2-152CK6



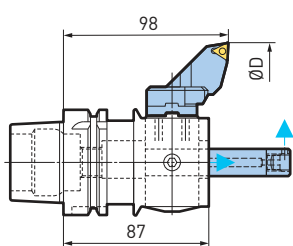
EWN2-152DV40



EWN2-152BT40



EWN2-152HSK-A63



B.2

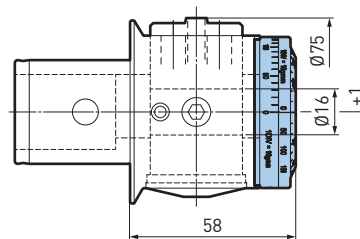
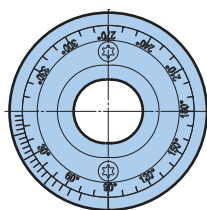
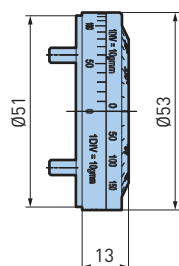
	Descrizione	Modello	No. di rif.	Inserti	In spinta ØD	In tiro ØD
	Portainseriti	EK80-104T	626.908	TC 11 	80 - 92	-
	Distanziale	DD30-6	626.907		92 - 104	92 - 104
	Portainseriti	EK80-104T	626.908		104 - 116	104 - 116
	Portainseriti	EK104-128T	626.909		116 - 128	116 - 128
	Portainseriti	EK104-128T	626.909		128 - 140	128 - 140
	Distanziale	DD30-6	626.907		140 - 152	140 - 152
	Portainseriti	EK128-152T	626.910			
	Portainseriti	EK128-152T	626.910			
	Portainseriti	EK128-152T	626.910			
	Portainseriti	EK128-152T	626.910			
	Barre portautensili	ST16-88	615.226			
	Beccuccio liquido refrigerante	CN2-50	615.392			

Per inserti ► 396 - 398

Anelli di bilancia

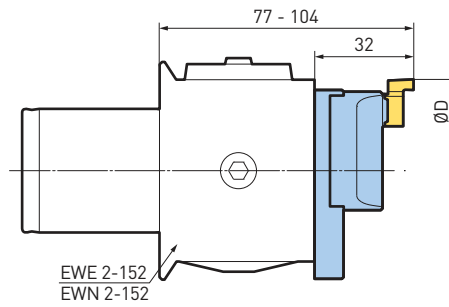
Gli anelli di bilanciamento vengono avvitati alle teste per alesare in sostituzione della piastra di copertura frontale. La misurazione dello squilibrio si effettua su una macchina per la misurazione dello squilibrio e la correzione si esegue, a seconda del tipo di anello di bilanciamento, girando gli anelli graduati o spostando le viti di bilanciamento.

Modello	No. di rif.
BR2-152	112.806



Seggi per cave frontali per EWN/EWE, Ø 14 - 53

Porta utensili, porta inserti, e inserti per gole sono concepiti per gole frontali con le teste di finitura EWN/EWE 2-152.



Portautensili e portainseri

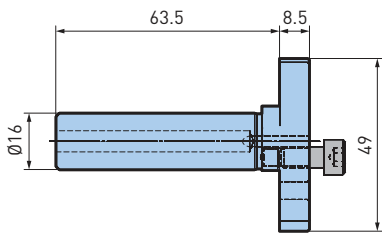


Fig. 1

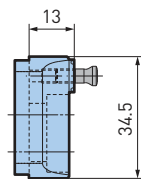


Fig. 2

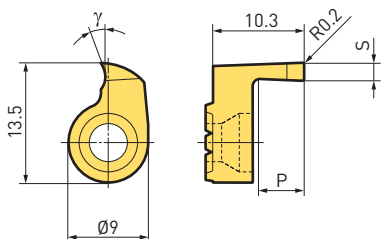
Modello	No. di rif.	Fig.	ØD
AST16-72	615.387B	1	14 - 53
FGH14-54	615.388	2	14 - 53

Per sgrossatori ▶ 314
Per Parti di ricambio ▶ 439

B.2

Inserti per gole

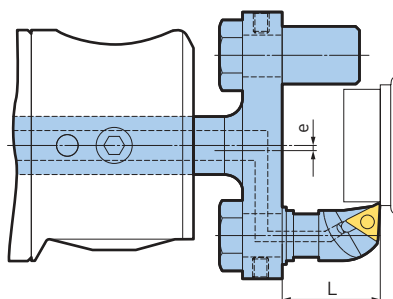
Per tutti i tipi di metallo.



Modello	No. di rif.	S	P	γ
RD1420P30C	958.501	2.0	5	20°
RD1425P30C	958.502	2.5		
RD1430P30C	958.503	3.0		

Seggi per torniture di perni con EWN/EWE, Ø 1 - 32

Usando la barra eccentrica, con la testa per alesatura di precisione EWN/EWD 2-50 si possono tornire in modo semplice perni fino ad un diametro massimo di 32 mm e lunghezze fino a 50 mm. Il contrappeso si può spostare sullo stelo eccentrico. Così si può compensare lo squilibrio in qualsiasi posizione.



Velocità massima		
e [mm]	L = 27 [min ⁻¹]	L = 52 [min ⁻¹]
0	7 000	5 500
0.5	5 000	4 500
2.5	4 000	3 500
4.5	3 000	2 500

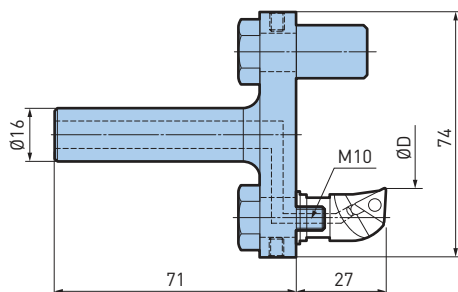
Attenzione: Mandrino a rotazione sinistrorsa!

Commento:

Stelo eccentrico con posizione di taglio conforme a disegno, con l'avanzamento della gradazione risulta una riduzione del diametro del perno.

B.2

Barra eccentrica



Modello	No. di rif.	ØD
ST16-OD-32	615.390	1 - 32

Per sgrossatori ▶ 314

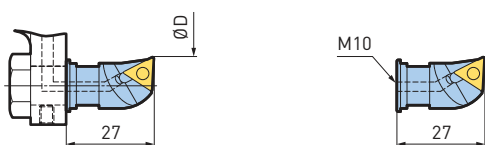
Per Parti di ricambio ▶ 446


Prolunga



Modello	No. di rif.
ST16-25	615.228

Portainseriti Portainseriti



Modello	No. di rif.	ØD	Inserti
E18T	615.282	28 - 32	TC 11 
E22T	615.283	24 - 28	
E26T	615.291	20 - 24	
E32T	615.285	15 - 20	
E36T	615.286	11 - 15	
E40T	615.287	6 - 11	
E45T	615.292	1 - 6	

Per inserti ▶ 396 - 398