



Portapinze con ghiera prebilanciata
Collet chucks with prebalanced nuts
Spannzangenhalter mit Vorausgewuchtete
Spannmuttern
Mandrins à pinces avec écrous prééquilibrés

CM - ERC

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Portapinze
Collet chucks
Spannzangenhalter
Mandrins à pinces

CM - EOC

Pag. - Seite

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Porta frese combinato
Combi shell end mill holders
Kombi-Fraseraufsteckdorne
Mandrins porte-fraises combinés

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Portamaschi a cambio rapido
Quick change tapping chucks
Gewinde-Schnellwechselfutter
Mandrins de taraudage à changement rapide

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Mandrini portapunte integrali con chiave
Integral shank drill chucks with spanner
Schnellspannbohrfutter mit Schlüssel
Mandrins de perçage intégral avec clé

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Bussole di riduzione a cono Morse
Morse Taper sleeves
Reduzierhülsen
Douilles de réduction

DIN 2185

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Portapinze
Collet chucks
Spannzangenhalter mit B-Kegel
Mandrins à pinces

DIN 238 B

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ERC

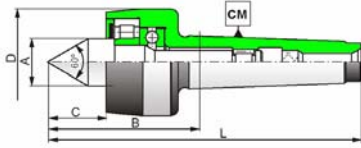
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Mandrini autoserranti
Keyless drill chucks
Schnellspannbohrfutter
Mandrin porte-foret à serrage rapide

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Contropunte Rotanti
Revolving Tailstock Centres
Mitlaufende Drehbankspitzen
Pointes Tournantes

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Mandrini a cambio rapido
Quick change Holder
Schnellwechsel - Bohrfutter
Mandrins à Changement rapide

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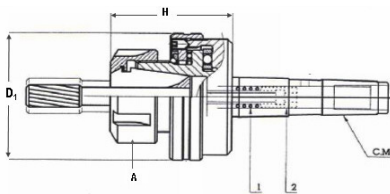
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Apparecchio a maschiare
Tapping Attachments
Gewindeschneidapparate
Appareil à tarauder

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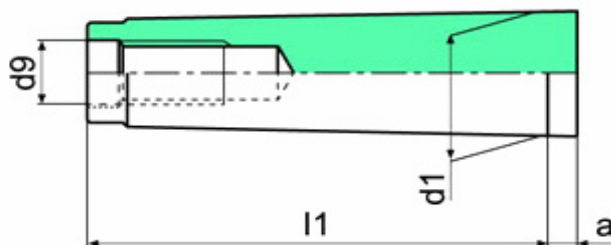


Porta alesatore oscillante con passaggio del refrigerante
Floating reamer holder with coolant flow
Pendelhalter mit Kuhlmittelbohrungen
Mandrins Flottants avec trou de lubrification

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Quote degli attacchi
 Dimensional guide of the shanks
 Konstruktionsmerk. - Anschlußmaße
 Cotes d'adaptation pour queues



METRIC - DIN 228 Form A					
MORSE	d1	a	d9	l1	Precisione conicità Taper Accuracy
CM1	12,065	3,5	M6	53,5	AT3
CM2	17,780	5	M10	64	
CM3	23,825	5	M12	81	
CM4	31,267	6,5	M16	102,5	
CM5	44,399	6,5	M20	129,5	

INCH					
MORSE	d1	a	d9	l1	Precisione conicità Taper Accuracy
MT1	.475	.137	1/4 x 20	2.106	AT3
MT2	.700	.196	3/8 x 16	2.519	
MT3	.938	.196	1/2 x 13	3.188	
MT4	1.231	.255	5/8 x 11	4.035	
MT5	1.478	.255	3/4 x 10	5.098	

CARATTERISTICHE TECNICHE DEI MANDRINI A CONO MORSE

- Costruiti in Italia con acciai da cementazione legati al Ni.Cr.Mo
- Cementati • Temperati • Rinvenuti con durezza RC 58 ± 2 • Bruniti
- Rettificati sui coni Morse con precisione AT3 - Rettificati nella sede pinza e sede portautensili

STANDARD FEATURES OF MORSE TAPER TOOLING

- Manufactured in Italy with Nickel Chrome Molybdenum Steel
- Carburized • Hardened and Tempered (RC 58 ± 2) • Black oxidized
- Precision ground on Morse Taper (according to AT3), on the collets and toolholders seats.

10 Morse Taper tooling

CAFORALI

Portapinze con ghiera prebilanciate
Collet chucks with prebalanced nuts
 Spannzangenhalter mit Vorausgewuchtete Spannmuttern
Mandrins à pinces avec écrous prééquilibrés

With MINI Nuts

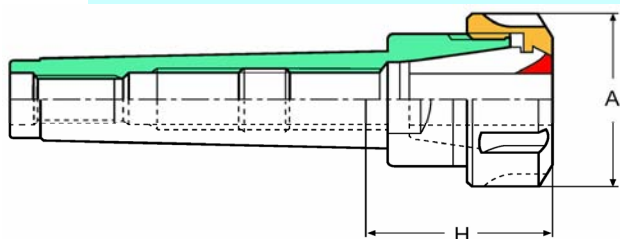


With EXAG. and STANDARD Nuts



Ref.	Order Nr.	A	F	Price
203-001	CM1.H25.ERC11M	16	M6	
	CM1.H40.ERC16M	22	M6	
	CM2.H42.ERC16M	22	M10	
	CM2.H50.ERC20M	28	M10	
	CM2.H54.ERC25M	35	M10	
	CM3.H43.ERC16M	22	M12	
	CM3.H47.ERC20M	28	M12	
	CM3.H58.ERC25M	35	M12	

Ref.	Order Nr.	A	F	Price
203-002	CM1.H25.ERC11	18 - G11 SE	M6	
	CM1.H40.ERC16	28 - G16 SE	M6	
	CM2.H42.ERC16	28 - G16 SE	M10	
	CM2.H50.ERC20	34 - G20SE	M10	
	CM2.H54.ERC25	42 - G25S	M10	
	CM3.H53.ERC25	42 - G25S	M12	
	CM3.H70.ERC32	50 - G32S	M12	
	CM3.H80.ERC40	63 - G40S	M12	
	CM4.H56.ERC25	42 - G25S	M16	
	CM4.H60.ERC32	50 - G32S	M16	
	CM4.H81.ERC40	63 - G40S	M16	
	CM4.H96.ERC50	78 - G50S	M16	
	CM5.H50.ERC32	50 - G32S	M20	
	CM5.H82.ERC40	63 - G40S	M20	
	CM5.H91.ERC50	78 - G50S	M20	



- **TENONI RIPORTATI** - Vedi pag. 21.3
- **AUSTRIBLAPPEN** - Sehen Seite 21.3
- **REMOVABLE TANGS** - See pag. 21.3
- **TENONS POUR CM** - Voir pag. 21.3

Cassetta con mandrini portapinze
Collet chuck kit
 Zangenspannfutter-Sätze
Coffrets de mandrins à pince
STANDARD Nuts

Ref.	Order Nr.	Price
203-003	BXCM3.H53-25.15	

Pinze nella serie - collet size in the set:
 ERC 25 = $\varnothing 2 \div 16 \times 1,0$ mm.

BXCM3.H70-32.18
 BXCM4.H60-32.18

Pinze nella serie - collet size in the set:
 ERC 32 = $\varnothing 3 \div 20 \times 1,0$ mm.

BXCM3.H80-40.23
 BXCM4.H81-40.23

Pinze nella serie - collet size in the set:
 ERC 40 = $\varnothing 4 \div 26 \times 1,0$ mm.



- **Vedi pagg. 1.1 ÷ 1.43**
- **Refer to pag. 1.1 ÷ 1.43**
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10 Morse Taper tooling

CAFORALI

Portapinze con ghiera prebilanciate
 Collet chucks with prebalanced nuts
 Spannzangenhalter mit Vorausgewuchtete Spannmuttern
 Mandrins à pinces avec écrous prééquilibrés

With STANDARD Nuts



- Vedi pagg. 1.1 ÷ 1.43
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INCH SIZE

Ref.	Order Nr.	A	F	Price
203-005	MT2-H1.96-ERC20	1.33	3/8-16	
	MT2-H2.12-ERC25	1.65	3/8-16	
	MT3-H2.75-ERC32	1.96	1/2-13	
	MT3-H3.00-ERC40	2.48	1/2-13	
	MT4-H2.36-ERC32	1.96	5/8-11	
	MT4-H3.18-ERC40	2.48	5/8-11	
	MT4-H3.77-ERC50	3.07	5/8-11	
	MT5-H3.22-ERC40	2.48	3/4-10	
	MT5-H3.58-ERC50	3.07	3/4-10	

Cassetta con mandrini portapinze
 Collet chuck kit
 Zangenspannfutter-Sätze
 Coffrets de mandrins à pince



Ref.	Order Nr.	Price
203-006	BXMT3-H2.75-32.11	

Pinze nella serie - collet size in the set:

ERC 32 = Ø 4 (1/8) - 5 (3/16) - 7 (1/4) - 8 (5/16)
 = Ø 10 (3/8) - 12 (7/16) - 13 (1/2) - 15 (9/16)
 = Ø 16 (5/8) - 18 (11/16) - 19 (3/4)

BXMT3-H3.00-40.15
 BXMT4-H3.18-40.15
 BXMT5-H3.22-40.15

Pinze nella serie - collet size in the set:

ERC 40 = Ø 4 (1/8) - 5 (3/16) - 7 (1/4) - 8 (5/16)
 = Ø 10 (3/8) - 12 (7/16) - 13 (1/2) - 15 (9/16)
 = Ø 16 (5/8) - 18 (11/16) - 19 (3/4) - 21 (13/16)
 = Ø 23 (7/8) - 24 (15/16) - 26 (1")

Portapinze
 Collet chucks
 Spannzangenhalter
 Mandrins à pinces

DIN 6388 - EOC COLLETS

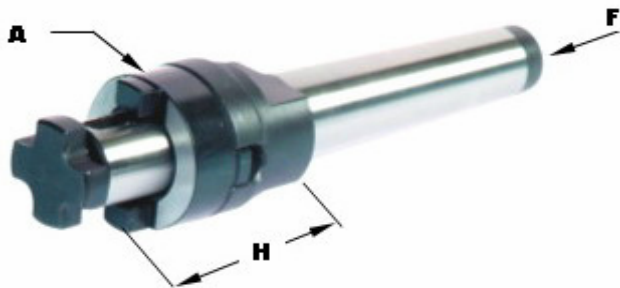
Ref.	Order Nr.	A	F	Price
203-020	CM2.H57.EOC16	43	M10	
	CM2.H76.EOC25	60	M10	
	CM3.H61.EOC16	43	M12	
	CM3.H90.EOC25	60	M12	
	CM4.H84.EOC25	60	M16	
	CM4.H90.EOC32	72	M16	
	CM5.H84.EOC32	72	M20	



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10 Morse Taper tooling

Porta frese combinato
Combi shell end mill holders
Kombi-Fraseraufsteckdorne
Mandrins porte-fraises combinés

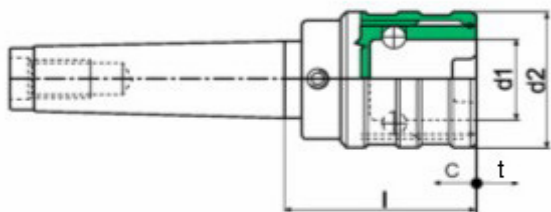


Ref.	Order Nr.	A	F	Price
203-030	CM3.H63.D16C	32	M12	
	CM3.H48.D22C	40	M12	
	CM3.H63.D22C	40	M12	
	CM3.H63.D27C	48	M12	
	CM3.H63.D32C	58	M12	
CM4.H70.D16C	32	M16		
CM4.H70.D22C	40	M16		
CM4.H70.D27C	48	M16		
CM4.H70.D32C	58	M16		
CM4.H70.D40C	70	M16		
CM5.H75.D22C	40	M20		
CM5.H75.D27C	48	M20		
CM5.H75.D32C	58	M20		
CM5.H75.D40C	70	M20		

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Portamaschi a cambio rapido
Quick change tapping chucks
Gewinde-Schnellwechselfutter
Mandrins de taraudage à changement rapide



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Ref.	Order Nr.	Per maschi Tap capacity	l	d ₁	d ₂	t	c	Price
203-040	CM2.MCR1	M3 ÷ M12	46	19	38	9	9	
	CM3.MCR1	M3 ÷ M12	46	19	38	9	9	
	CM3.MCR2	M6 ÷ M20	69	31	55	15	15	
	CM4.MCR2	M6 ÷ M20	70	31	55	15	15	
	CM4.MCR3	M14 ÷ M33	108	48	79	24	24	
CM5.MCR3	M14 ÷ M33	103	48	79	24	24		

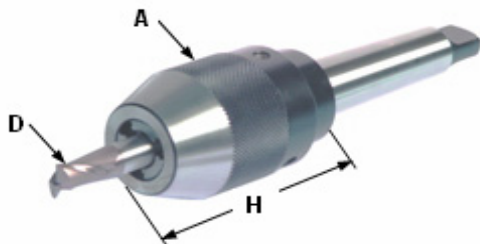


- Con compensazione assiale a trazione e compressione
- Tension and compression type for compensate the difference between spindle feed the thread pitch
- Mit Längenausgleich auf Druck und Zug.
- Avec compensation longitudinale en traction et compression

10 Morse Taper tooling

CAFORALI

Mandrini portapunte integrali con chiave
Integral shank drill chucks with spanner
 Schnellspannbohrfutter mit Schlüssel
Mandrins de perçage intégral avec clé



Ref.	Order Nr.	A	D		Price
			min.	max	
203-100	CM3.H90.DCK13	50	1	13	
	CM4.H90.DCK13	50	1	13	

- L'attacco a Cono Morse ed il mandrino autocentrante sono costruiti in un unico pezzo.
- I morsetti sono in acciaio Cr.Mo., temperati, per garantire una lunga durata. La precisione alla rotazione è di 0,04 mm.
- Per incrementare la forza di serraggio i mandrini sono forniti con chiave di bloccaggio.

NON DEVONO ESSERE USATI PER LAVORAZIONI CON ROTAZIONE A SINISTRA

- *The Morse taper shank and the chuck are integrated into one.*
- *The jaws are made of chrome-molybdenum steel, with proper heat treatment for grant the precision for long time of usage. The runout accuracy is 0,04 mm. T.I.R.*
- *Supplied with spanner wrench to allow the application of supplementary gripping torque.*

DO NOT USE IN REVOLUTION IN COUNTER-CLOCKWISE DIRECTION

Bussole di riduzione a cono Morse
Morse Taper sleeves
 Reduzierhülsen
Douilles de réduction



- **Temperate e rettificate di precisione.**
- **Full hardened and precision ground.**

DIN 2185 - HIGH PRECISION

Ref.	Order Nr.	L	Price
203-105	BR2-1	92	
	BR3-1	99	
	BR3-2	112	
	BR4-1	124	
	BR4-2	124	
	BR4-3	140	
	BR5-1	156	
	BR5-2	156	
	BR5-3	156	
	BR5-4	174	
	BR6-3	218	
	BR6-4	218	
	BR6-5	218	

10 Morse Taper tooling

CAFORALI

Bussole di riduzione a Cono Morse tronche
 Morse Taper Reducing sleeves
 Reduzierhülsen
 Douilles de réduction

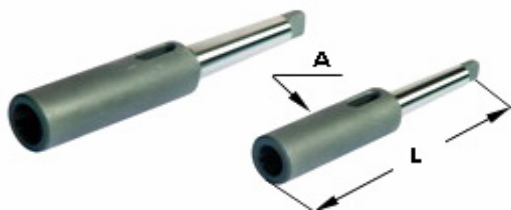


Ref.	Order Nr.	CM	CM1	L	Price
203-107	BRF2-1 / 50	2	1	50	
	BRF3-1 / 55	3	1	55	
	BRF3-2 / 65	3	2	65	
	BRF4-2 / 70	4	2	70	
	BRF4-3 / 75	4	3	75	
	BRF5-2 / 80	5	2	80	
	BRF5-3 / 90	5	3	90	
	BRF5-4 / 100	5	4	100	
	BRF6-3 / 110	6	3	110	
	BRF6-4 / 120	6	4	120	
	BRF6-5 / 130	6	5	130	



Prolunghe per utensili a Cono Morse
 Morse taper extension socket
 Verlängerungshülsen
 Allonges porte-forets

DIN 2187 - HIGH PRECISION



Ref.	Order Nr.	A	L	Price
203-115	BRL1-1.0	20	145	
	BRL1-1.1	20	250	
	BRL1-1.2	20	350	
	BRL1-2	30	160	
	BRL2-1	20	160	
	BRL2-2	30	175	
	BRL2-3	36	196	
	BRL3-1	20	175	
	BRL3-2	30	194	
	BRL3-3	36	215	
	BRL3-4	48	240	
	BRL4-1	20	200	
	BRL4-2	30	215	
	BRL4-3	36	240	
	BRL4-4	48	265	
	BRL4-5	63	300	
	BRL5-1	20	232	
	BRL5-2	30	247	
	BRL5-3	36	268	
	BRL5-4	48	300	
	BRL5-5	63	335	

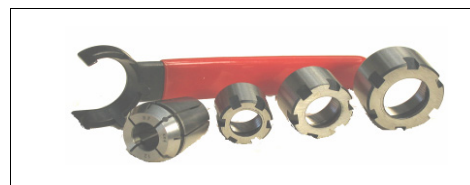
- **Temperate e rettificate di precisione.**
- **Full hardened and precision ground.**

Portapinzine
 Collet chucks
 Spannzangenhalter mit B-Kegel
 Mandrins à pinces

DIN 238 - INSIDE TAPER



Ref.	Order Nr.	A-Mini	Price
203-150	B10.L62.ERC11M	16	
	B12.L62.ERC11M	16	
	B12.L55.ERC16M	22	
	B12.L65.ERC16M	22	
	B12.L67.ERC20M	28	
	B16.L85.ERC16M	22	
	B16.L67.ERC20M	28	
	B16.L80.ERC20M	28	
	B18.L74.ERC20M	28	



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10 Morse Taper tooling

CAPORALI

Mandrini autoserranti
Keyless drill chucks
Schnellspannbohrfutter
Mandrin porte-foret à serrage rapide
STANDARD PRECISION



Ref.	Order Nr.	Range	Price
203-200	DC8.B12	1 ÷ 8	
	DC10.B12	1 ÷ 10	
	DC10.B16	1 ÷ 10	
	DC13.B16	1 ÷ 13	
	DC16.B16	3 ÷ 16	
	DC16.B18	3 ÷ 16	
	DC16.J6 SPIRO	3 ÷ 16	

- Hanno i morsetti ed il corpo in acciaio temperato per garantire la precisione ed un'ottima durata d'impiego. I coni di attacco DIN 238B sono rettificati.
- Precisione di rotazione compresa tra 0,05/0,07 mm.
- NON USARE PER LAVORAZIONI CON ROTAZIONE A SINISTRA**
- The jaws are manufactured in chrome-molybdenum steel with proper heat treatment for grant the precision for long time of usage. The DIN 238B tapers are precision ground.
- The runout accuracy is 0,05/0,07 mm. T.I.R.
- DO NOT USE IN REVOLUTION IN COUNTER-CLOCKWISE DIRECTION**

Mandrini autoserranti a forte bloccaggio
High torque drill chucks
CNC-Schnellspannbohrfutter
Mandrins porte-foret pour machines CNC
HIGH PRECISION



Ref.	Order Nr.	Fig.	Range	Price
203-205	DCK8.B10	1	1 ÷ 8	
	DCK10.B12	1	1 ÷ 10	
	DCK13.B16	1	1 ÷ 13	
	DCK16.B16	1	3 ÷ 16	
	DCK16.B18	1	3 ÷ 16	
	DCK8.MT2	2	1 ÷ 8	
	DCK13.MT3	2	1 ÷ 13	
	DCK16.MT3	2	3 ÷ 16	
	DCK16.J6	1	3 ÷ 16	

- Sono adatti per operazioni di foratura o alesatura sui centri di lavoro, foratrici, alesatrici e fresatrici. I morsetti sono costruiti in acciaio Cr.Mo. opportunamente temperati per garantire il mantenimento della precisione.
- Forniti con chiave di bloccaggio per incrementare la forza di serraggio
- Precisione di rotazione 0,04 mm.
- NON DEVONO ESSERE USATI PER LAVORAZIONI CON ROTAZIONE A SINISTRA**
- They are suitable for drilling or reaming work by machining centers, drill press, jig borer and milling machines. The jaws are made of chrome-molybdenum steel with proper heat-treatment for grant the precision for long time of usage.
- Supplied with spanner wrench to allow the application of supplementary gripping torque.
- Runout accuracy 0,04 mm. T.I.R.
- DO NOT USE IN REVOLUTION IN COUNTER-CLOCKWISE DIRECTION**

Attacchi per mandrini autoserranti
Drill chucks arbors
Bohrfutteraufnahme
Arbres pour mandrins porte-forets
DIN 238 - HIGH PRECISION

Ref.	Order Nr.	Price
203-210	CM1.B10	
	CM1.B12	
	CM1.B16	
	CM2.B10	
	CM2.B12	
	CM2.B16	
	CM2.B18	
	CM3.B10	
	CM3.B12	
	CM3.B16	
	CM3.B18	
	CM3.J6	Jacobs Taper

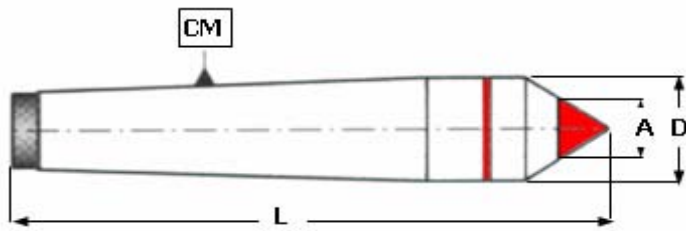


Ref.	Order Nr.	Price
203-210	CM4.B12	
	CM4.B16	
	CM4.B18	
	CM4.J6	Jacobs Taper
	CM5.B16	
	CM5.B18	
	D20.B16 / 60	Cilindrico
	D25.B16 / 75	Cilindrico

- Temperate e rettifiche di precisione.
- Full hardened and precision ground.

10 Morse Taper tooling

Contropunte fisse con metallo duro
 60° Dead Centres . Carbide Tipped
 Zentrierspitzen mit Hartmetall-Einsatz
 Point Fixes carbure



Ref.	Order Nr.	CM	L	D	A	Price
203-220	8711.CM1-D12CFW	1	80	12,2	7	
	8711.CM2-D18CFW	2	100	18	7	
	8711.CM3-D24CFW	3	125	24,1	11	
	8711.CM4-D31CFW	4	160	31,6	14	
	8711.CM5-D44CFW	5	200	44,7	18	
	8711.CM6-D63CFW	6	270	63,8	18	

Contropunte Rotanti
 Revolving Tailstock Centres
 Mitlaufende Drehbankspitzen
 Pointes Tournantes

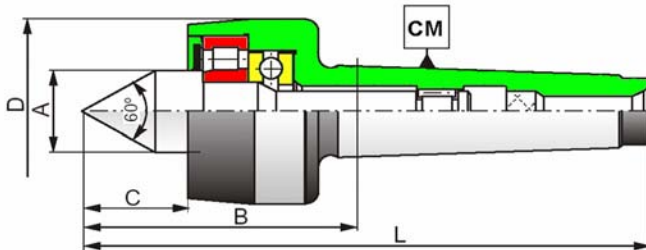


Fig. 1

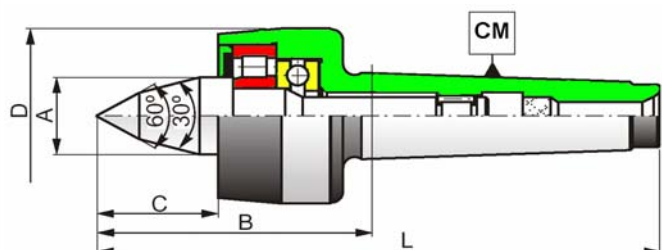


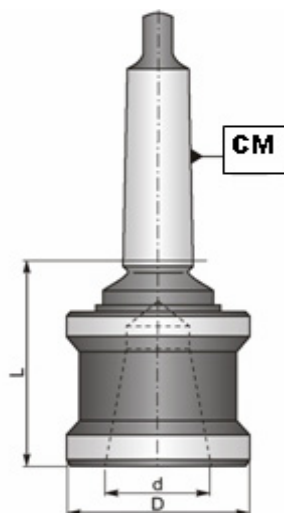
Fig. 2

Ref.	Order Nr.	Fig.	max rpm	A	D	B	C	L	Price
203-233	8811.CM2-121CR	1	5000	18	40	57	22	121	
	8811.CM3-156CR	1	4000	25	56	75	29	156	
	8811.CM4-184CR	1	3000	28	64	82	32	184	
	8811.CM5-237CR	1	2500	41	85	108	45	237	
203-234	8814.CM2-137CR	2	5000	18	40	73	33	137	
	8814.CM3-167CR	2	4000	25	56	88	42	167	
	8814.CM4-201CR	2	3000	28	64	99	49	201	
	8814.CM5-259CR	2	2500	41	85	130	68	259	

10 Morse Taper tooling

CAPORALI

Mandrini a cambio rapido
Quick change Holder
Schnellwechsel - Bohrfutter
Mandrins à Changement rapide

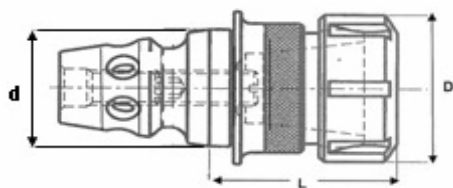


Ref.	Order Nr.	Shank Morse	d	D	L	Price
203-245	1721.CM3-40QCH	MK 3 - DIN 228/B	40	65	81	
	1721.CM4-40QCH	MK 4 - DIN 228/B	40	65	80	
	1721.CM4-51QCH	MK 4 - DIN 228/B	51,5	83	102	
	1721.CM5-51QCH	MK 5 - DIN 228/B	51,5	83	99	

Inserti a cambio rapido
Quick Change Adaptors
Schnellwechsel - Einsaetze
Manchons à changement rapide



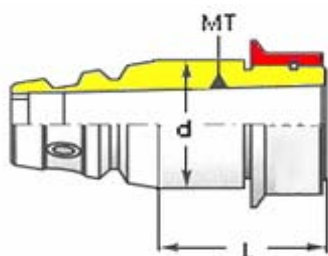
Portapinze / Collet chucks
Spannzangenhalter / Mandrin à pinces



Ref.	Order Nr.	d	D	L	Capacità Range	Price
203-247	40QHC-ERC25	40	42	60	1 ÷ 16	
	51QHC-ERC25	51,5	42	63	1 ÷ 16	

• Pinze - Collets DIN 6499 B

Riduzione a cono Morse / MT Adapters
Mit Morse Kegel DIN 228 / Douilles cône Morse

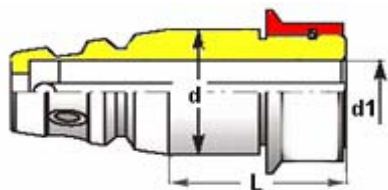


Ref.	Order Nr.	d	L	Price
203-248	40QHC-MT1	40	29	
	40QHC-MT2	40	29	
	40QHC-MT3	40	47	
	51QHC-MT1	51,5	34	
	51QHC-MT2	51,5	34	
	51QHC-MT3	51,5	34	
	51QHC-MT4	51,5	57	

10 Morse Taper tooling

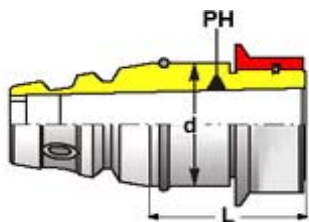
CAPORALI

Per inserti registrabili / For Adjustable Adaptors
Für Stülhulsen DIN 6327 / Pour Douilles de réglage



Ref.	Order Nr.	d	d1	L	Price
203-249	40QHC-TR20	40	20	54	
	51QHC-TR28	51,5	28	55	

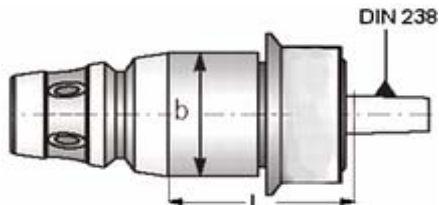
Porta Alesatori / Floating Reamer Holder
Pendelhalter / Mandrin Flottant



Ref.	Order Nr.	d	Morse	L	Price
203-250	40QHC-PH2	40	2	29	
	40QHC-PH3	40	3	47	
	51QHC-PH4	51,5	4	57	

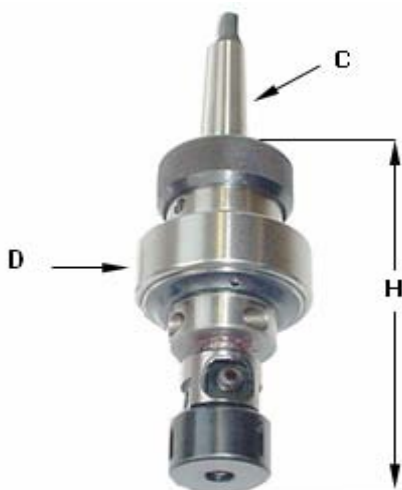
- Per alesatori a Cono Morse
- For MT-shank reamers

Per Mandrini autoserranti / For Drill Chucks
Bohrfutteraufnahme DIN 238 / Porte-forets



Ref.	Order Nr.	d	DIN 238	L	Price
203-251	40QHC-B12	40	B12	32,5	
	40QHC-B16	40	B16	34	
	51QHC-B16	51,5	B16	39	

Apparecchio a maschiare
Tapping Attachments
Gewindeschneidapparate
Appareil à tarauder

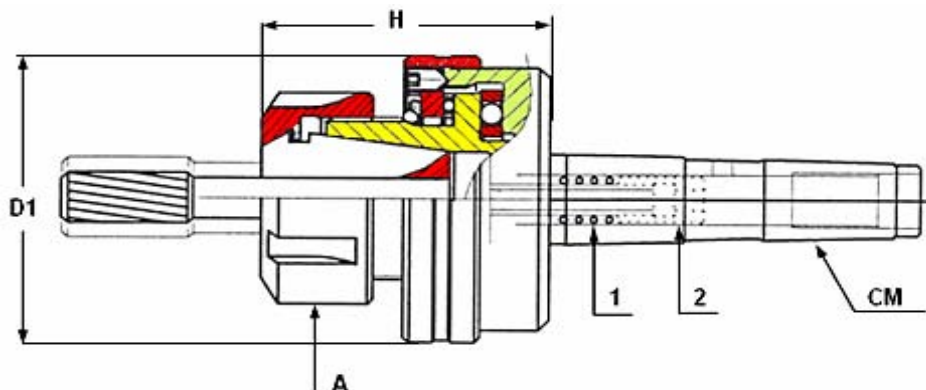


- Con inversione automatica e frizione regolabile
- Mit rucklauf und einstellbarer Sicherheits-Kupplung
- Automatic reversible and adjustable clutch
- Reversible avec limiteur de couple

Ref.	Order Nr.	Per Maschi Tap Capacity	Shank Morse	H	D	A	Price
203-260	CM2-PA1	M 3 ÷ M 10	MK2-DIN228/B	147	69	37	
	CM2-PA2	M 6 ÷ M 16	MK2-DIN228/B	175	82	53	

- Disponibili a richiesta con attacco Cono Morse 3
- Available on request with MT 3 taper shank

Porta alesatore oscillante con passaggio del refrigerante
 Floating reamer holder with coolant flow
 Pendelhalter mit Kuhlmittebohungen
 Mandrins Flottants avec trou de lubrification



Refrigerazione interna
 Coolant flow

Ref.	Order Nr.	Pinza Collet	Alesatori Reamers	Oscillazione Float	A	H	D1	Price
203-270	CM3.RM11	ERC11	D1 ÷ 7	± 1 mm.	22-G11A	40	42	
	CM3.RM16	ERC16	D1 ÷ 10	± 1 mm.	28-G16SE	44	42	
	CM3.RM20	ERC20	D1 ÷ 13	± 1 mm.	34-G20SE	50	69	
	CM3.RM25	ERC25	D1 ÷ 16	± 1 mm.	42-G25S	53	86	
	CM3.RM32	ERC32	D2 ÷ 20	± 1,5 mm.	50-G32S	58	86	
	CM4.RM32	ERC32	D2 ÷ 20	± 1,5 mm.	50-G32S	58	109	

CARATTERISTICHE:

- La oscillazione sulle sfere, compensa gli errori di allineamento tra il mandrino della macchina ed il pezzo in lavorazione.
- Si può usare per la maschiatura rigida sui torni e centri di lavoro CNC.

FEATURES:

- The free-moving ball bearing drive, allows reamers to follow the existing drilled hole for high quality work
- Could be used for synchronized tapping operations on lathes and CNC machining centers.



- Vedi pagg. 1.1 ÷ 1.43
- Refer to pag. 1.1 ÷ 1.43
- Sehen Seite 1.1 ÷ 1.43
- Voir pag. 1.1 ÷ 1.43