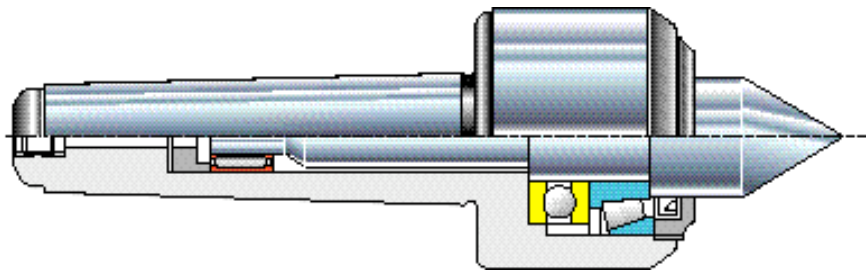


1

Contropunta strutturata con cuscinetti normali consigliata per torni con lavorazioni di medio carico e velocità non elevate. Corpo e albero temperati e rettificati, lubrificata con grasso permanente.

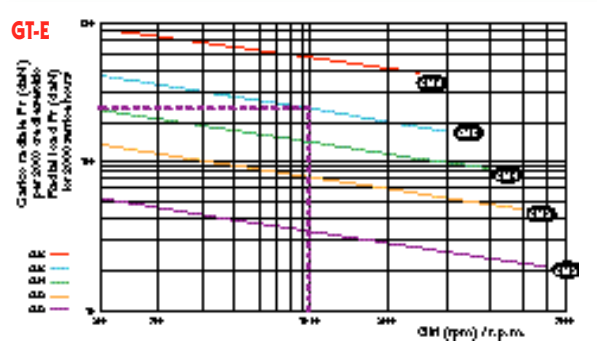
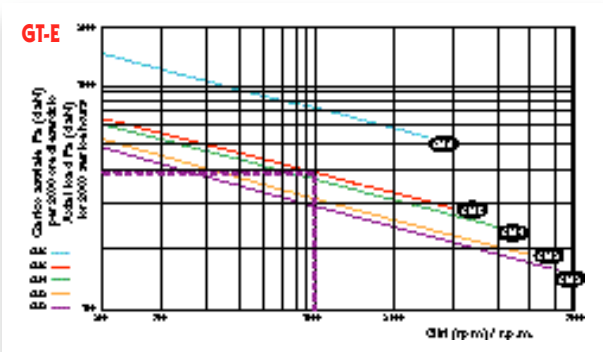
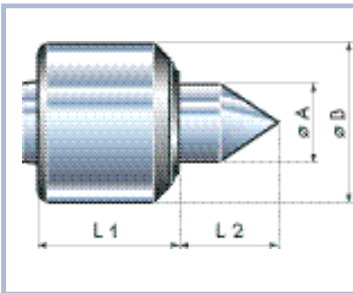
Shaped tailstock with normal bearings, recommended for lathes with medium-load machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated.



Contropunta rotante con albero integrale / Live centre with solid shaft

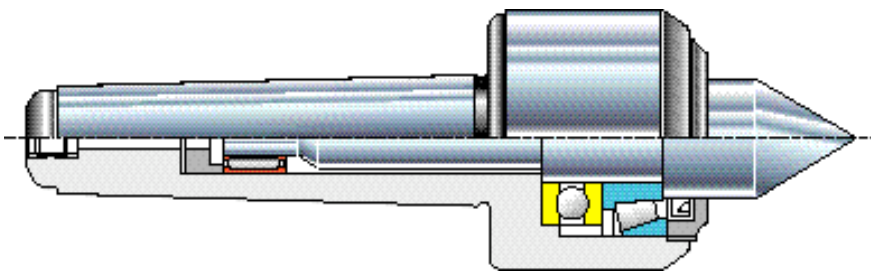
Mod. GT-E

Cono Morse / Taper	1	2	3	4	5	6
CODICE / CODE	812090	822100	832110	842120	852130	862140
Peso / Weight (Kg)	0,5	0,9	1,0	1,6	3,5	8,0
Max giri/1' / r.p.m.	8500	6000	5000	4000	3000	2500
Eccent.	0,008	0,008	0,008	0,008	0,008	0,01
ø B (mm)	38	48	55	61	80	94
L 1 (mm)	37	42	43	51	55	68
ø A (mm)	16	22	22	29	38	42
L 2 (mm)	20	25	27	38	45	51



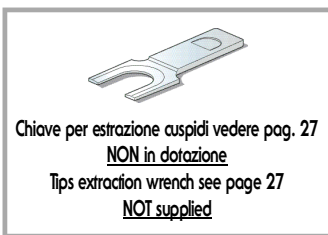
--- Esempio della contropunta rotante CM 5 Mod. GT-E a 1.000 g/m:
Carico Assiale (Fa)= 376 (daN)
--- Example of live centre CM 5 mod. GT-E at 1.000 rpm:
Axial load (Fa)= 376 (daN)

--- Esempio della contropunta rotante CM 5 Mod. GT-E a 1.000 g/m:
Carico Radiale (Fr)= 230 (daN)
Fr x 2 = PESO PEZZO
--- Example of live centre CM 5 mod. GT-E at 1.000 rpm:
Radial load (Fr)= 230 (daN)
Fr x 2 = PIECE WEIGHT

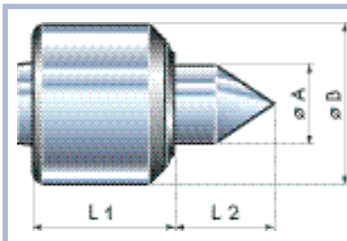


Contropunta strutturata con cuscinetti di precisione consigliata per torni con lavorazioni di medio carico e velocità non elevate. Corpo ed albero temperati e rettificati, lubrificata con grasso speciale permanente.

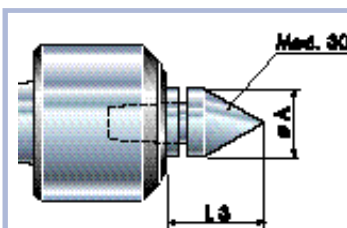
Shaped tailstock with precision bearings, recommended for lathes with medium-load machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.



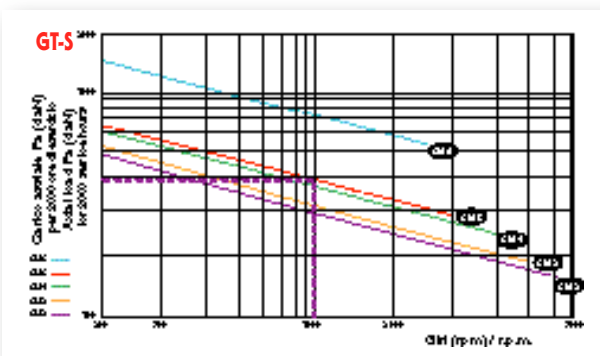
Caratteristiche generali / Technical data Mod. GT-S						
Cono Morse / Taper	1	2	3	4	5	6
Peso / Weight (Kg)	0,5	0,9	1,0	1,6	3,5	8,0
Max giri/1' / r.p.m.	8500	6000	5000	4000	3000	2500
Eccent.	0,005	0,005	0,005	0,005	0,005	0,008
∅ B (mm)	38	48	55	61	80	94
L 1 (mm)	37	42	43	51	55	68


Contropunta rotante con albero integrale / Live centre with solid shaft
Mod. GT-S

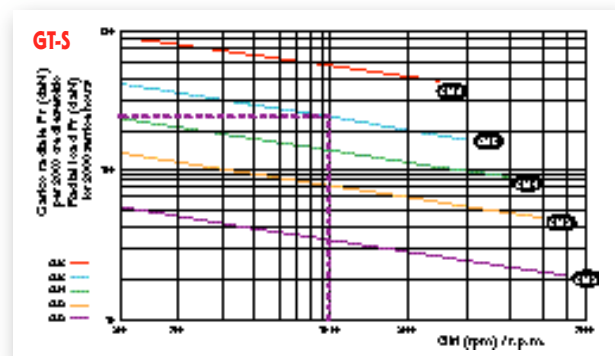
Cono Morse / Taper	1	2	3	4	5	6
CODICE / CODE	812091	822101	832111	842121	852131	862141
∅ A (mm)	16	22	22	29	38	42
L 2 (mm)	20	25	27	38	45	51


Contropunta rotante con cuspidi intercambiabili / Live centre with interchangeable tips
Mod. GT-AS

Cono Morse / Taper	2	3	4	5	6
CODICE / CODE	823091	833101	843111	853121	863131
Cuspide / Tip	80 30 30	80 30 30	80 30 40	80 30 50	80 30 60
Eccent.	0,01	0,01	0,01	0,01	0,01
∅ A (mm)	25	25	29	35	42
L 3 (mm)	35	36	40	48	49

 Per cuspidi vedere pag. 24-25
 For tips see page


--- Esempio della contropunta rotante CM 5 Mod. GT-S a 1.000 g/m:
 Carico Assiale (Fa)= 376 (daN)
 --- Example of live centre CM 5 Mod GT-S at 1.000 rpm:
 Axial load (Fa)= 376 (daN)

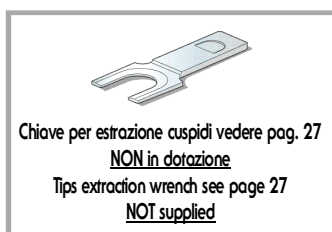
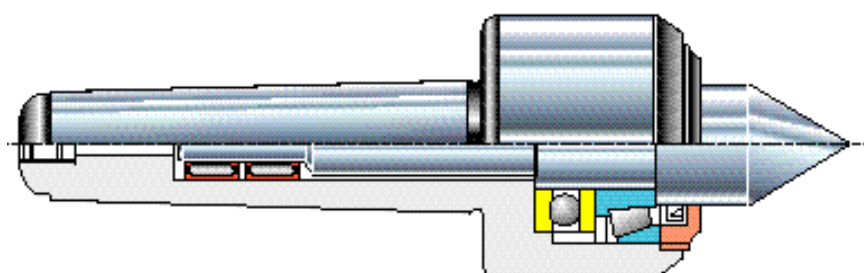


--- Esempio della contropunta rotante CM 5 Mod. GT-S a 1.000 g/m:
 Carico Radiale (Fr)= 230 (daN) - Fr x 2 = PESO PEZZO
 --- Example of live centre CM 5 mod. GT-S at 1.000 rpm:
 Radial load (Fr)= 230 (daN) - Fr x 2 = PIECE WEIGHT

1

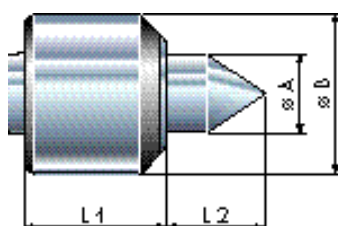
Contropunta strutturata con cuscinetti di precisione consigliata per torni con lavorazioni pesanti e velocità non elevate. Corpo e albero temperati e rettificati, lubrificata con grasso speciale permanente.

Shaped tailstock with precision bearings, recommended for lathes with heavy-load machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.



Caratteristiche generali / Technical data		Mod. GT-M							
Cono Morse / Taper		2	3	4	5	6	6 special	M80	M100
Peso / Weight (Kg)		0,9	1,0	1,6	3,5	10,0	12,0	18,0	39,0
Max giri/1' / r.p.m.		7500	6000	4500	2800	2000	1700	1100	900
Eccent.		0,008	0,008	0,008	0,008	0,008	0,008	0,01	0,01
ø B (mm)		51	55	61	80	108	138	146	178
L 1 (mm)		43	43	51	59	88	116	116	134

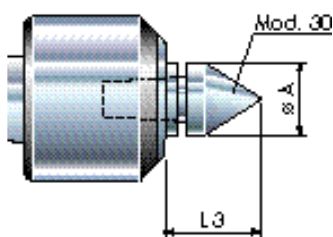
Per consultare i grafici dei carichi assiali e radiali vedere a pag. 13. / For graphs of axial and radial loads see page 13.



Contropunta rotante con albero integrale / Live centre with solid shaft

Mod. GT-M

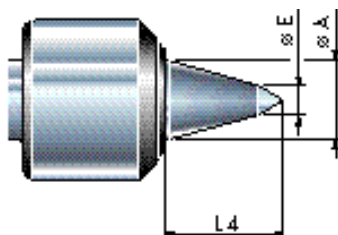
Cono Morse / Taper	2	3	4	5	6	6 special	M80	M100
CODICE / CODE	822102	832112	842122	852132	862142	862152	880802	801002
ø A (mm)	22	22	29	38	42	60	62	78
L 2 (mm)	25	28	38	47	55	61	75	77,5



Contropunta rotante con cuspidi intercambiabili / Live centre with interchangeable tips

Mod. GT-AM

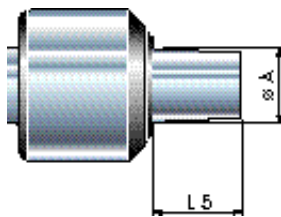
Cono Morse / Taper	2	3	4	5	6	6 special
CODICE / CODE	823092	833102	843112	853122	863132	863142
Cuspide / Tip	80 30 30	80 30 30	80 30 40	80 30 50	80 30 60	80 30 60
Eccent.	0,01	0,01	0,01	0,01	0,01	0,01
ø A (mm)	25	25	29	35	42	42
L 3 (mm)	35	36	40	48	55	61



Contropunta rotante con punta prolungata / Live centre with aiguille

Mod. GT-MC

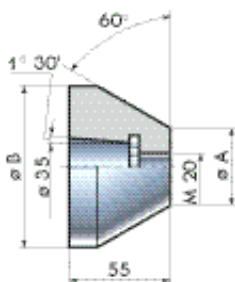
Cono Morse / Taper	2	3	4	5	6	6 special
CODICE / CODE	822202	832212	842222	852232	862242	862252
L 4 (mm)	32	40	50	68	70	93
ø E (mm)	6	6	8	12	16	20
ø A (mm)	22	22	29	38	42	60



Contropunta rotante a tronco di cono / Truncated cone live centre

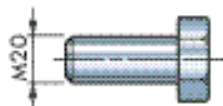
Mod. GT-MTC

Cono Morse / Taper	3	4	5	6	6 special
CODICE / CODE	834092	844102	854112	864122	864132
ø A (mm)	35	35	35	35	35
L 5 (mm)	43	43	43	43	44


 Funghi a tronco di cono a 60° applicabili alle contropunte del modello GT-MTC
 60° truncated cone heads for live centres of model GT-MTC

CODICE CODE	404200	404210	404220	404230	404240	404250	404260	404270	404280	404290	404300
ø A (mm)	45	95	145	195	245	295	345	395	445	495	545
ø B (mm)	98	148	198	248	298	348	398	448	498	545	600
Eccent.	IT 3	IT 4	IT 4	IT 4	IT 5	IT 5	IT 5	IT 6	IT 6	IT 6	IT 6
Peso / Weight (Kg)	1,6	3,9	7,1	10,7	15,0	21	20,0	29,0	34,0	32,0	36,0

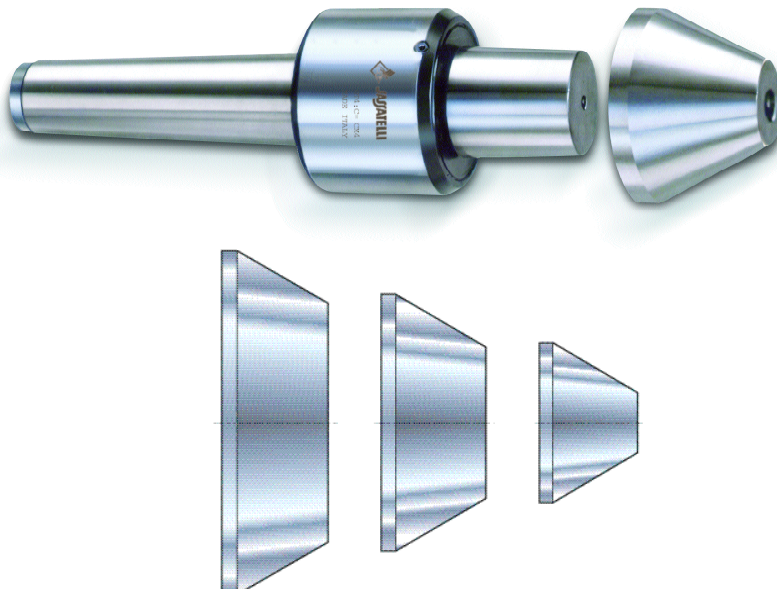
A richiesta si eseguono funghi con ØA e ØB forniti dal cliente / Heads with diameters A and B, supplied by the customer, can be carried out on demand.



Vite estrattore / Extraction screw

CODICE CODE	404400
404400	Ch30

ESEMPIO / Example



Contropunta rotante di precisione a tronco di cono, progettata sulla meccanica della serie GT-M. La particolare forma dell'albero permette una semplice e rapida intercambiabilità dei funghi conici per lavorazioni di tubi o corpi cavi da ø 45 mm a ø 600 mm.

Truncated cone precision live centre, designed on the mechanics of GT-M series. The special shape of the shaft allows the easy and fast interchangeability of the conic heads for working pipes and hollow bodies from ø mm. 45 to ø mm. 600

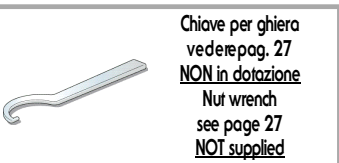
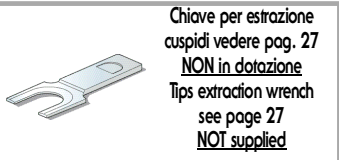
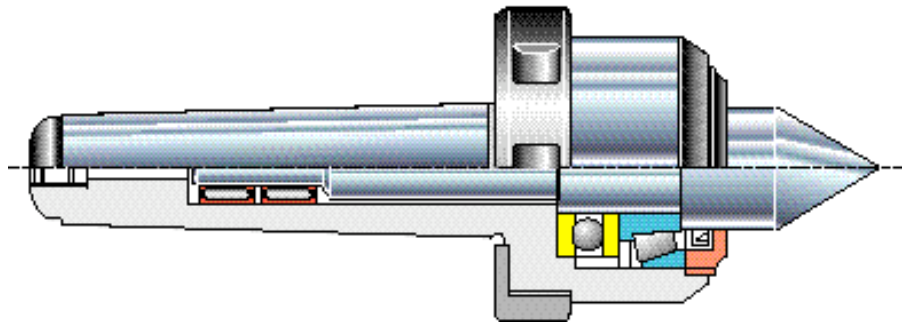
Richiesta speciale / Special request

ø A	ø B				

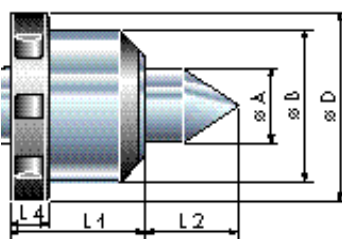
1

Contropunta con ghiera di estrazione strutturata con cuscinetti di precisione consigliata per torni con lavorazioni pesanti e velocità non elevate. Corpo e albero temperati e rettificati, lubrificata con grasso speciale permanente.

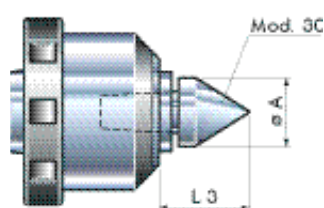
Shaped tailstock with extractor nut with precision bearings recommended for lathes with heavy-load machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.



Caratteristiche generali / Technical data		Mod. GT-MG					
Cono Morse / Taper		3	4	5	6	6 special	M80
Peso / Weight (Kg)		1,0	1,6	3,5	10,0	12,0	18,0
Max giri/1' / r.p.m.		6000	4500	2800	2000	1700	1100
Eccent.		0,008	0,008	0,008	0,008	0,008	0,01
ø B (mm)		55	61	80	108	138	146
L 1 (mm)		47	55	63	92	116	117
ø D (mm)		69	74	92	118	148	148
L 4 (mm)		22	24	24	29	30	30

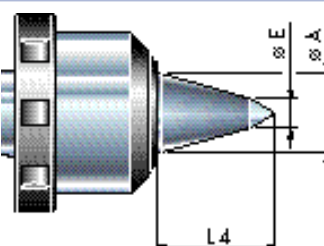

Contropunta rotante con albero integrale / Live centre with solid shaft
Mod. GT-MG

Cono Morse / Taper	3	4	5	6	6 special	M80
CODICE / CODE	8302112	8402122	8502132	8602142	8602152	8800802
ø A (mm)	22	29	38	42	60	62
L 2 (mm)	28	38	47	55	61	75


 Per cuspidi vedere pag. 24-25
For tips see page 24-25

Contropunta rotante con cuspidi intercambiabili / Live centre with interchangeable tips
Mod. GT-AMG

Cono Morse / Taper	3	4	5	6	6 special
CODICE / CODE	8303102	8403112	8503122	8603132	8603142
Cuspide / Tip	80 30 30	80 30 40	80 30 50	80 30 60	80 30 60
Eccent.	0,01	0,01	0,01	0,01	0,01
ø A (mm)	25	29	35	42	42
L 3 (mm)	36	40	48	55	61


Contropunta rotante con punta prolungata / Live centre with aiguille
Mod. GT-MCG

Cono Morse / Taper	3	4	5	6	6 special
CODICE / CODE	8302212	8402222	8502232	8602242	8602252
L 4 (mm)	40	50	68	70	93
ø E (mm)	6	8	12	16	20
ø A (mm)	22	29	38	42	60

Contropunta rotante di precisione a tronco di cono, progettata sulla meccanica della serie GT-M. La particolare forma dell'albero permette una semplice e rapida intercambiabilità dei funghi conici per lavorazioni di tubi o corpi cavi da $\varnothing 45$ mm a $\varnothing 600$ mm (per es. vedi pag. 11).

Truncated cone precision live centre, designed on the mechanics of GT-M series. The special shape of the shaft allows the easy and fast interchangeability of the conic heads for working pipes and hollow bodies from \varnothing mm. 45 to \varnothing mm. 600 (i.e. see page 11).

Contropunta rotante a tronco di cono / Truncated cone live centre

Cono Morse / Taper	3	4	5	6	6 special
CODICE / CODE	8304092	8404102	8504112	8604122	8604132
$\varnothing A$ (mm)	35	35	35	35	35
L 5 (mm)	43	43	43	43	44

Mod. GT-MTCG

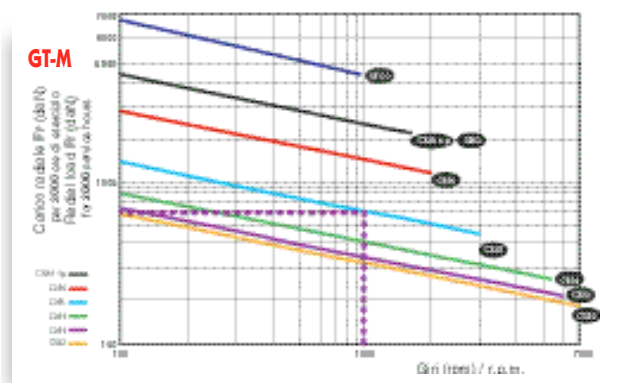
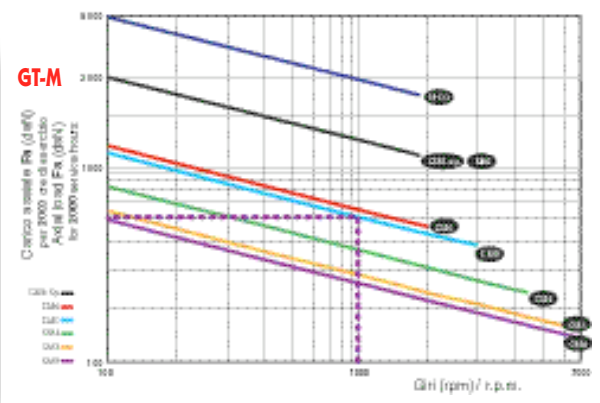
Funghi a tronco di cono a 60° applicabili alle contropunte del modello GT-MTCG
60° truncated cone heads for live centres of model GT-MTCG

CODICE CODE	404200	404210	404220	404230	404240	404250	404260	404270	404280	404290	404300
$\varnothing A$ (mm)	45	95	145	195	245	295	345	395	445	495	545
$\varnothing B$ (mm)	98	148	198	248	298	348	398	448	498	545	600
Eccent.	IT 3	IT 4	IT 4	IT 4	IT 5	IT 5	IT 5	IT 6	IT 6	IT 6	IT 6
Peso / Weight (Kg)	1,6	3,9	7,1	10,7	15,0	21,0	20,0	29,0	34,0	32,0	36,0

A richiesta si eseguono funghi con $\varnothing A$ e $\varnothing B$ forniti dal cliente / Heads with diameters A and B, supplied by the customer, can be carried out on demand.

Vite estraotore / Extraction screw

CODICE CODE	404400
404400	Ch30



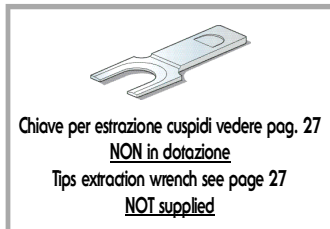
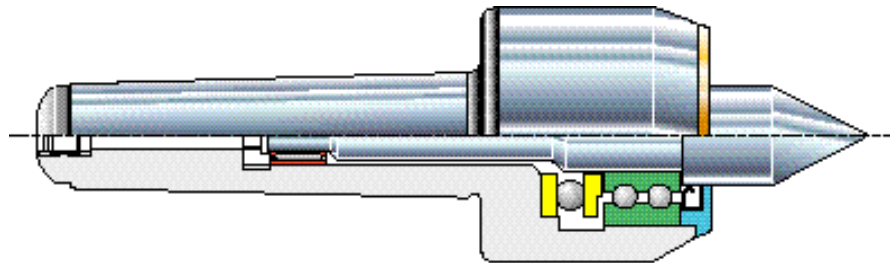
- Esempio della contropunta rotante **CM 5** Mod. GT-M a 1.000 g/m: Carico Assiale (F_a)= 527 (daN)
- Example of live centre **CM 5** mod. GT-M at 1.000 rpm: Axial load (F_a)= 527 (daN)

- Esempio della contropunta rotante **CM 5** Mod. GT-M a 1.000 g/m: Carico Radiale (F_r)= 598 (daN)
 $F_r \times 2 =$ PESO PEZZO
- Example of live centre **CM 5** mod. GT-M at 1.000 rpm: Radial load (F_r)= 598 (daN)
 $F_r \times 2 =$ PIECE WEIGHT

1

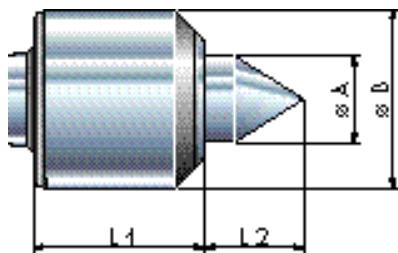
Contropunta strutturata con cuscinetti di precisione consigliata per torni con lavorazioni di medio carico e velocità elevate. Corpo e albero temperati e rettificati, lubrificata con grasso permanente.

Shaped tailstock with precision bearings recommended for lathes with medium-load machinings and high speeds. Hardened and rectified body and shaft, permanently lubricated.

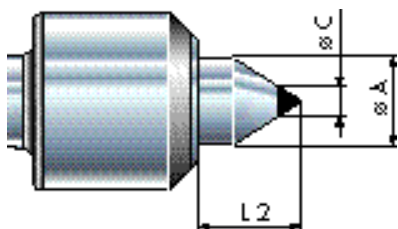


Caratteristiche generali / Technical data		Mod. GT-V			
Cono Morse / Taper		3	4	5	6
Peso / Weight (Kg)		1,0	1,65	3,55	8,5
Max giri/1' / r.p.m.		7000	5500	4500	3200
Eccent.		0,005	0,005	0,005	0,008
ø B (mm)		55	61	80	93
L 1 (mm)		47	55	63	73

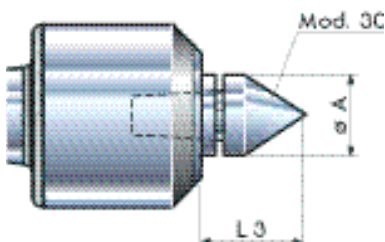
Per consultare i grafici dei carichi assiali e radiali vedere a pag. 17.
 For graphs of axial and radial loads see page 17.



Contropunta rotante con albero integrale Live centre with solid shaft		Mod. GT-V			
Cono Morse / Taper		3	4	5	6
CODICE / CODE		832161	842171	852181	862191
ø A (mm)		22	29	38	42
L 2 (mm)		28	40	48	55

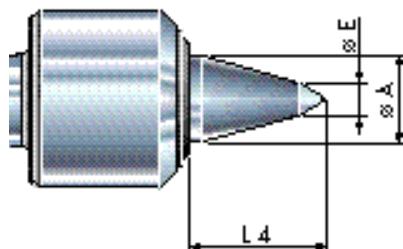


Contropunta rotante con punta in metallo duro Live centre with hard metal centre		Mod. GT-VW			
Cono Morse / Taper		3	4	5	6
CODICE / CODE		832163	842173	852183	862193
ø C (mm)		10	12	18	20
ø A (mm)		22	29	38	42
L 2 (mm)		28	40	48	55

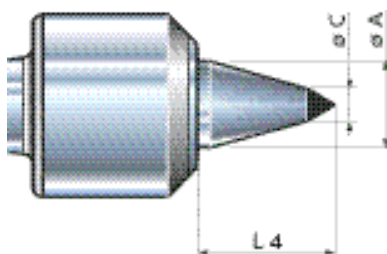


Per cuspidi vedere pag. 24-25
 For tips see page 24-25

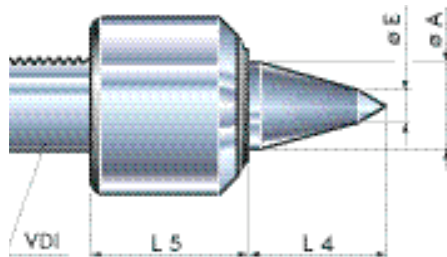
Contropunta rotante con cuspidi intercambiabili Live centre with interchangeable tips		Mod. GT-VA			
Cono Morse / Taper		3	4	5	6
CODICE / CODE		832162	842172	852182	862192
Cuspide / Tip		80 30 30	80 30 40	80 30 50	80 30 60
Eccent.		0,01	0,01	0,01	0,02
ø A (mm)		25	29	35	42
L 3 (mm)		37	40,5	46	55


Contropunta rotante con punta prolungata
Live centre with aiguille
Mod. GT-VC

Cono Morse / Taper	3	4	5	6
CODICE / CODE	832164	842174	852184	862194
ø E (mm)	6	8	12	15
L 4 (mm)	42	51	56	88
ø A (mm)	22	29	38	42


Contropunta rotante con punta prolungata in metallo duro
Live centre with hard metal aiguille
Mod. GT-VCW

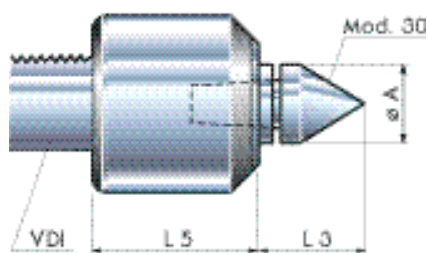
Cono Morse / Taper	3	4	5	6
CODICE / CODE	832165	842175	852185	862195
ø C (mm)	6	8	10	12
L 4 (mm)	42	51	56	88
ø A (mm)	22	29	38	42

Mod. GT-VDI

Contropunta rotante VDI - C molleggiata con punta prolungata
Sprung VDI - C live centre with aiguille
Mod. VDI-C

Attacco / Connector	VDI 30	VDI 40
CODICE / CODE	802176	802186
Eccent.	0,01	0,01
ø A (mm)	29	38
L 4 (mm)	51	56
ø E (mm)	8	12
L 5	79	85

 Corsa molleggio
 Spring stroke

VDI 30	2,0 mm
VDI 40	2,0 mm


Contropunta rotante VDI - A molleggiata con cuspidi intercambiabile
Sprung VDI - A live centre with interchangeable tip
Mod. VDI-A

Attacco / Connector	VDI 30	VDI 40
CODICE / CODE	802177	802187
Cuspide / Tip	80 30 40	80 30 50
Eccent.	0,01	0,01
ø A (mm)	29	35
L 3 (mm)	41	47
L 5	79	85

 Corsa molleggio
 Spring stroke

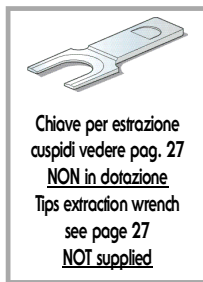
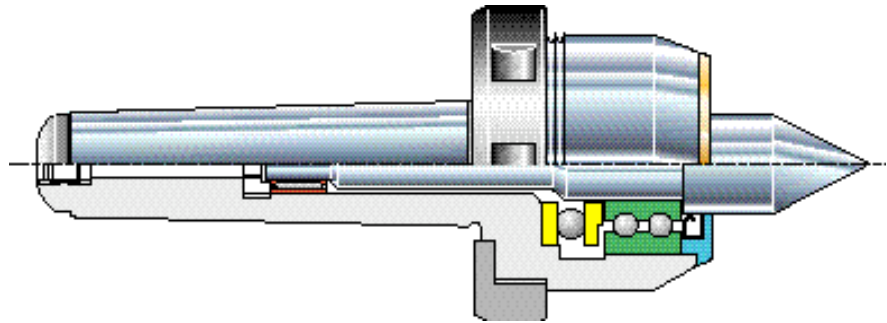
VDI 30	2,0 mm
VDI 40	2,0 mm

 Per cuspidi vedere pag. 24-25
 For tips see page

1

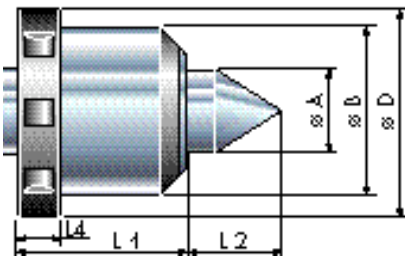
Contropunta con ghiera di estrazione strutturata con cuscinetti di precisione consigliata per torni con lavorazioni di medio carico e velocità elevate. Corpo e albero temperati e rettificati, lubrificata con grasso permanente.

Tailstock with extractor nut with precision bearings recommended for lathes with medium-load machinings and high speeds. Hardened and rectified body and shaft, permanently lubricated.



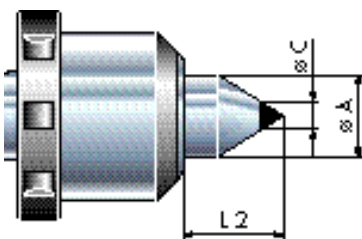
Caratteristiche generali / Technical data Mod. GT-VG

Caratteristiche generali / Technical data	3	4	5	6
Cono Morse / Taper	3	4	5	6
Peso / Weight (Kg)	1,1	1,85	3,85	8,8
Max giri/1' / r.p.m.	7000	5500	4500	3200
Eccent.	0,005	0,005	0,005	0,008
ø B (mm)	55	61	80	93
L 1 (mm)	49	57	65	75
ø D (mm)	69	74	92	104
L 4 (mm)	22	24	24	27


 Contropunta rotante con albero integrale
Live centre with solid shaft

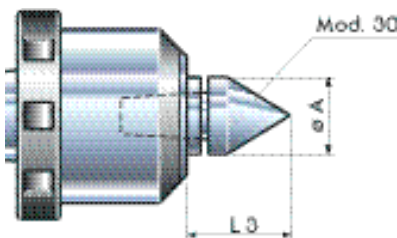
Mod. GT-VG

Caratteristiche generali / Technical data	3	4	5	6
Cono Morse / Taper	3	4	5	6
CODICE / CODE	8302161	8402171	8502181	8602191
ø A (mm)	22	29	38	42
L 2 (mm)	28	40	48	55


 Contropunta rotante con albero integrale punta in metallo duro
Live centre with solid shaft and hard metal centre

Mod. GT-VWG

Caratteristiche generali / Technical data	3	4	5	6
Cono Morse / Taper	3	4	5	6
CODICE / CODE	8302163	8402173	8502183	8602193
ø C (mm)	10	12	18	20
ø A (mm)	22	29	38	42
L 2 (mm)	28	40	48	55

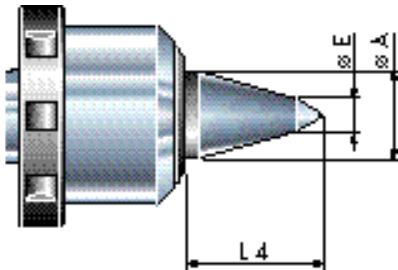


Per cuspidi vedere pag. 24-25
For tips see page 24-25

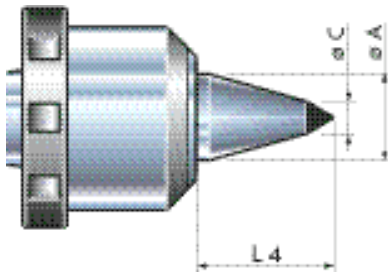
 Contropunta rotante con cuspidi intercambiabili
Live centre with interchangeable tips

Mod. GT-VAG

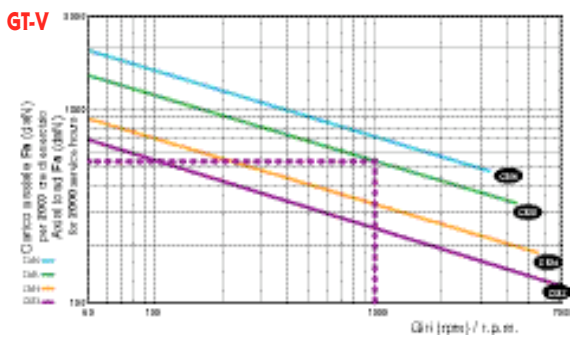
Caratteristiche generali / Technical data	3	4	5	6
Cono Morse / Taper	3	4	5	6
CODICE / CODE	8302162	8402172	8502182	8602192
Cuspide / Tip	80 30 30	80 30 40	80 30 50	80 30 60
Eccent.	0,01	0,01	0,01	0,02
ø A (mm)	25	29	35	42
L 3 (mm)	37	40,5	46	55


Contropunta rotante con punta prolungata
Live centre with aiguille
Mod. GT-VCG

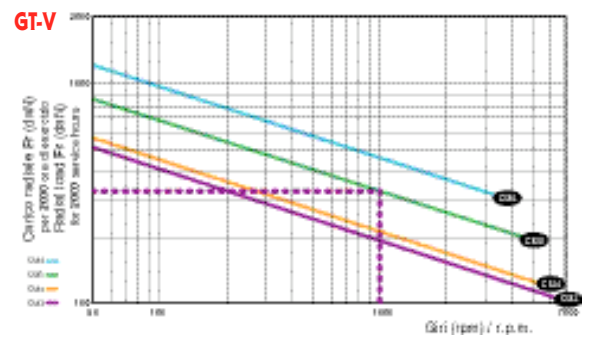
Cono Morse / Taper	3	4	5	6
CODICE / CODE	8302164	8402174	8502184	8602194
ø E (mm)	6	8	12	15
L 4 (mm)	42	51	56	88
ø A (mm)	22	29	38	42


Contropunta rotante con punta prolungata in metallo duro
Live centre with hard metal aiguille
Mod. GT-VCWG

Cono Morse / Taper	3	4	5	6
CODICE / CODE	8302165	8402175	8502185	8602195
ø C (mm)	6	8	10	12
L 4 (mm)	42	51	56	88
ø A (mm)	22	29	38	42



- Esempio della contropunta rotante **CM 5** Mod. GT-V a 1.000 g/m:
Carico Assiale (Fa)= 546 (daN)
- Example of live centre **CM 5** mod. GT-V at 1.000 rpm:
Axial load (Fa)= 546 (daN)

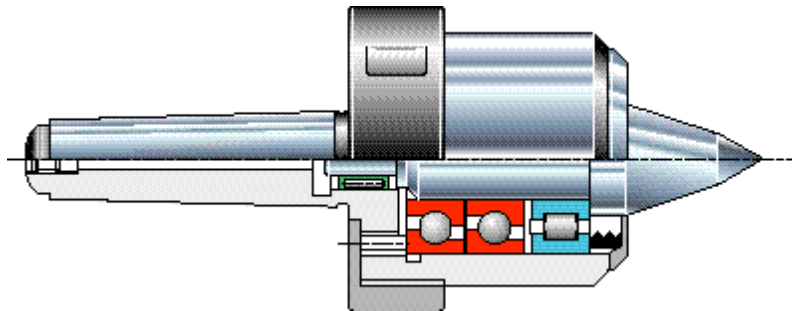


- Esempio della contropunta rotante **CM 5** Mod. GT-V a 1.000 g/m:
Carico Radiale (Fr)= 320 (daN)
Fr x 2 = PESO PEZZO
- Example of live centre **CM 5** mod. GT-V at 1.000 rpm:
Radial load (Fr)= 320 (daN)
Fr x 2 = PIECE WEIGHT

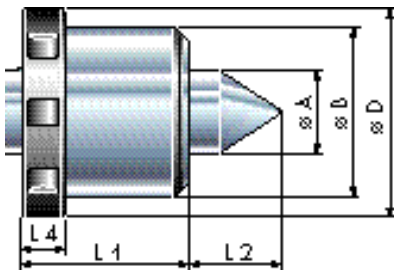
1

Contropunta con avanzate caratteristiche tecniche, strutturata con cuscinetti di precisione e bassa resistenza di rotazione, per torni con lavorazioni pesanti e altissime velocità. Corpo e albero temperati e rettificati, lubrificata con grasso speciale permanente, con ghiera di estrazione.

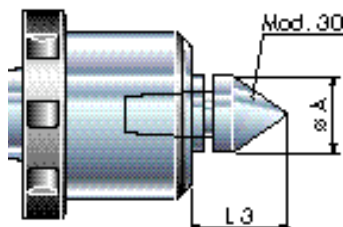
Shaped railstock with updated technical characteristics with precision bearings and low rotation resistance for lathes with high-load machinings and very high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease, with extractor nut.


Caratteristiche generali / Technical data Mod. GT-1990

	3	4	5
Cono Morse / Taper	3	4	5
Peso / Weight (Kg)	2,1	3,75	6,5
Max giri/1' / r.p.m.	12000	9000	8000
Eccent.	0,005	0,005	0,005
L 4 (mm)	24	24	27
ø D (mm)	73	89	104
L 1 (mm)	69	80	85
ø B (mm)	62	78	93


**Contropunta rotante con albero integrale
 Live centre with solid shaft**
Mod. GT1990-N

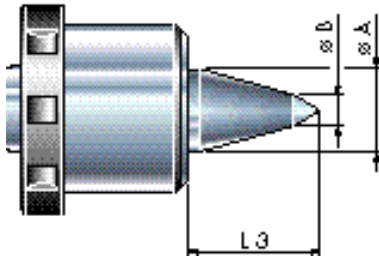
	3	4	5
Cono Morse / Taper	3	4	5
CODICE / CODE	831992	841992	851992
ø A (mm)	30	35	42
L 2 (mm)	32,5	37	46,5



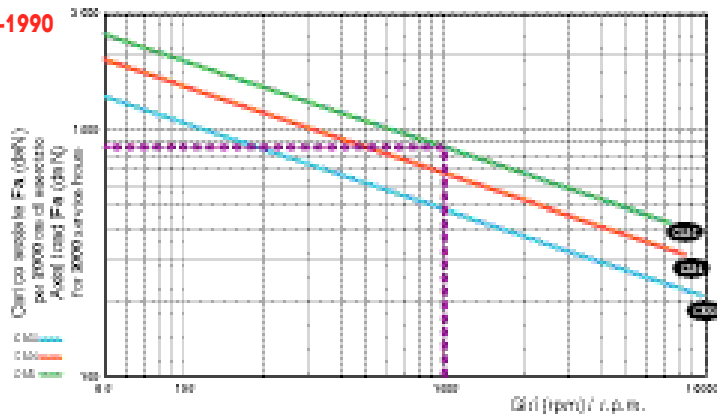
Per cuspidi vedere pag. 24-25
 For tips see page


**Contropunta rotante con cuspidi intercambiabili
 Live centre with interchangeable tips**
Mod. GT1990-NI

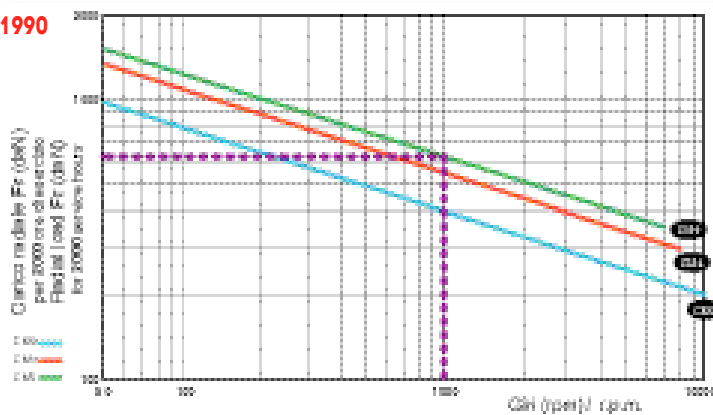
	3	4	5
Cono Morse / Taper	3	4	5
CODICE / CODE	831993	841993	851993
Cuspide / Tip	80 30 30	80 30 40	80 30 50
ø A (mm)	25	29	35
L 3 (mm)	34,5	39	44


Contropunta rotante con punta prolungata
Live centre with aiguille
Mod. GT1990-CO

Cono Morse / Taper	3	4	5
CODICE / CODE	831991	841991	851991
ø A (mm)	30	35	42
ø B (mm)	12	16	20
L 3 (mm)	40	44	59,5

GT-1990


- - - Esempio della contropunta rotante **CM 5** Mod. 1990-N a 1.000 g/m: Carico Assiale (Fa)= 853 (daN)
- - - Example of live centre **CM 5** mod. 1990-N at 1.000 rpm: Axial load (Fa)= 853 (daN)

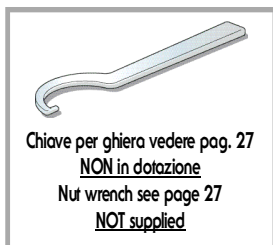
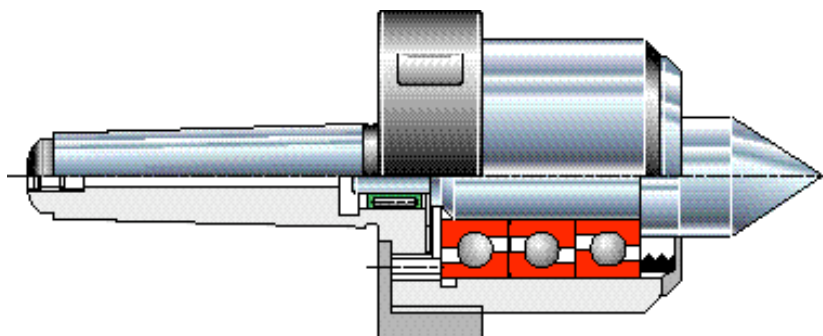
GT-1990


- - - Esempio della contropunta rotante **CM 5** Mod. 1990-N a 1.000 g/m: Carico Radiale (Fr)= 618 (daN)
Fr x 2 = PESO PEZZO
- - - Example of live centre **CM 5** mod. 1990-N at 1.000 rpm: Radial load (Fr)= 618 (daN)
Fr x 2 = PIECE WEIGHT

1

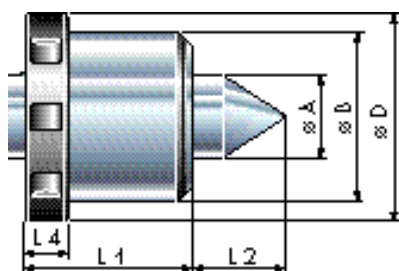
Contropunta dotata di ghiera d'estrazione, con avanzate caratteristiche tecniche e strutturata con cuscinetti di alta precisione. È consigliata per lavorazioni ad altissime velocità su torni e rettifiche. Corpo ed albero sono temperati, rettificati e lubrificati con grasso permanente.

Shaped tailstock with updated technical characteristics equipped with extractor nut and high precision bearings. It is indicated for toolings at very high speeds. Hardened and rectified body and shaft, permanently lubricated with grease.



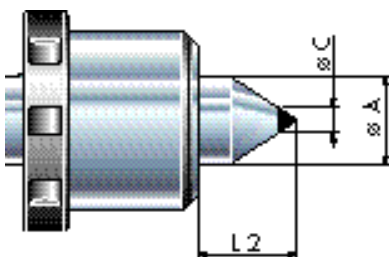
Caratteristiche generali / Technical data Mod. GT-1980

	3	4	5
Cono Morse / Taper	3	4	5
Peso / Weight (Kg)	2,1	4,85	6,5
Max giri/1' / r.p.m.	12000	9000	8000
Eccent.	0,002	0,002	0,002
L 4 (mm)	24	24	27
ø D (mm)	73	89	104
L 1 (mm)	69	80	85
ø B (mm)	62	78	93


 Contropunta rotante con albero integrale
Live centre with solid shaft

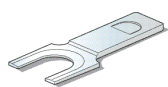
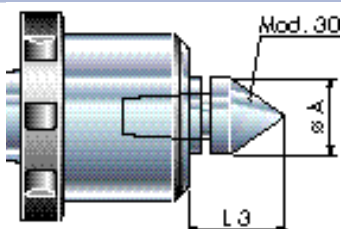
Mod. GT1980-N

	3	4	5
Cono Morse / Taper	3	4	5
CODICE / CODE	831982	841982	851982
ø A (mm)	30	35	42
L 2 (mm)	32,5	37	46,5


 Contropunta rotante con albero integrale
punta in metallo duro
Live centre with solid shaft and hard metal centre

Mod. GT1980-NW

	3	4	5
Cono Morse / Taper	3	4	5
CODICE / CODE	831984	841984	851984
ø C (mm)	10	12	18
ø A (mm)	30	35	42
L 2 (mm)	32,5	37	46,5



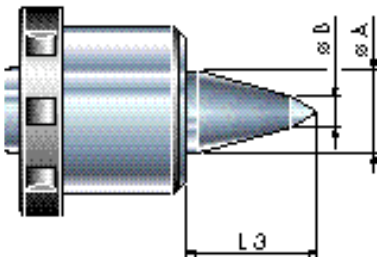
Chiave per estrazione
IN DOTAZIONE
Extraction wrench
SUPPLIED

 Contropunta rotante con cuspidi intercambiabili
Live centre with interchangeable tips

Mod. GT1980-NI

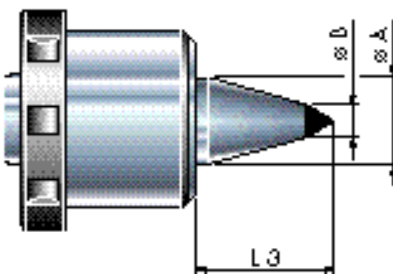
	3	4	5
Cono Morse / Taper	3	4	5
CODICE / CODE	831983	841983	851983
Cuspide / Tip	80 30 30	80 30 40	80 30 50
ø A (mm)	25	29	35
L 3 (mm)	34,5	39	44

Per cuspidi vedere pag. 24-25
For tips see page 24-25


 Contropunta rotante con punta prolungata
 Live centre with aiguille

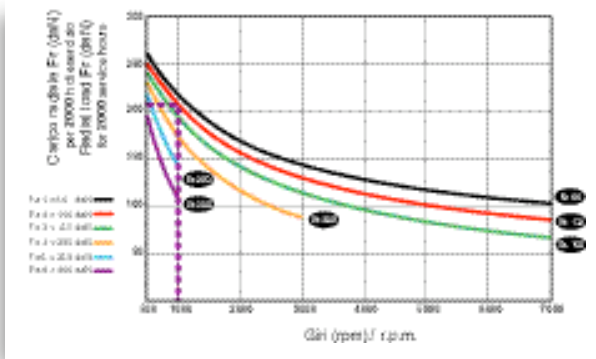
Mod. GT1980-CO

Cono Morse / Taper	3	4	5
CODICE / CODE	831981	841981	851981
ø A (mm)	30	35	42
ø B (mm)	12	16	20
L 3 (mm)	40	44	59,5

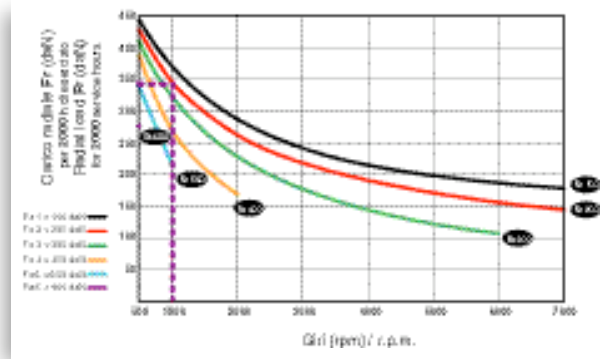

 Contropunta rotante con punta
 prolungata in metallo duro
 Live centre with hard metal aiguille

Mod. GT1980-COW

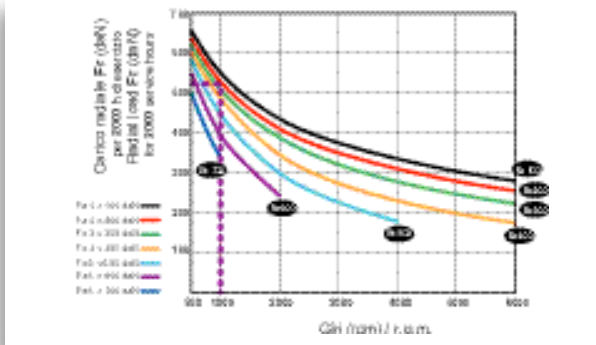
Cono Morse / Taper	3	4	5
CODICE / CODE	831985	841985	851985
ø A (mm)	30	35	42
ø B (mm)	10	14	18
L 3 (mm)	40	44	59,5

GT - 1980 CM3


- Esempio della contropunta rotante **CM 3** Mod. 1980-N Fa 100 (daN) a 1000 (rpm) = Fr 206 (daN)
Fr x 2 = PESO PEZZO
- Example of live centre **CM 3** mod. 1980-N Fa 100 (daN) at 1000 (rpm) = Fr 206 (daN)
Fr x 2 = PIECE WEIGHT

GT - 1980 CM4


- Esempio della contropunta rotante **CM 4** Mod. 1980-N Fa 200 (daN) a 1000 (rpm) = Fr 344 (daN)
Fr x 2 = PESO PEZZO
- Example of live centre **CM 4** mod. 1980-N Fa 200 (daN) at 1000 (rpm) = Fr 344 (daN)
Fr x 2 = PIECE WEIGHT

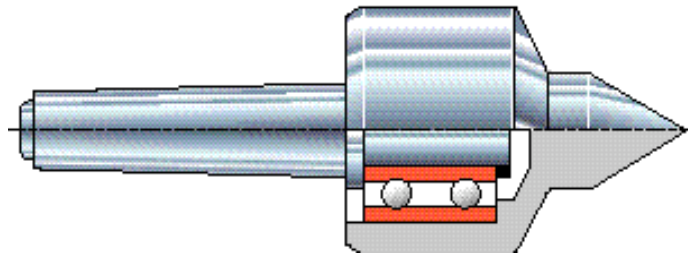
GT - 1980 CM5


- Esempio della contropunta rotante **CM 5** Mod. 1980-N Fa 200 (daN) a 1000 (rpm) = Fr 520 (daN)
Fr x 2 = PESO PEZZO
- Example of live centre **CM 5** mod. 1980-N Fa 200 (daN) at 1000 (rpm) = Fr 520 (daN)
Fr x 2 = PIECE WEIGHT

1

Contropunta economica per lavorazioni leggere, corpo ed albero temperati e rettificati, lubrificata con grasso permanente.

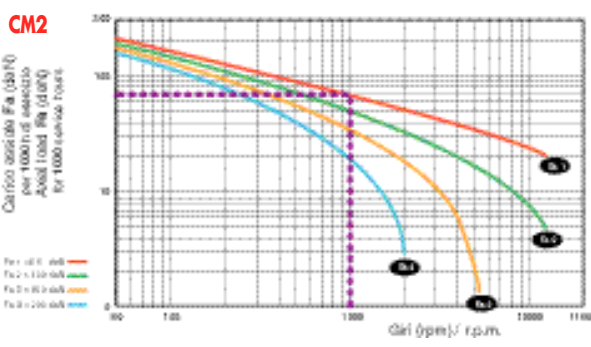
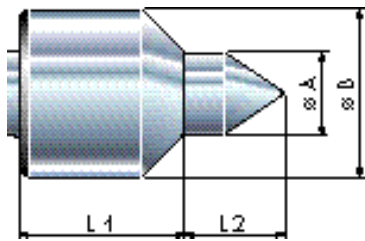
Tailstock for light-load machinings, with performances of high rotation speed. Hardened and rectified body and shaft, permanently lubricated.



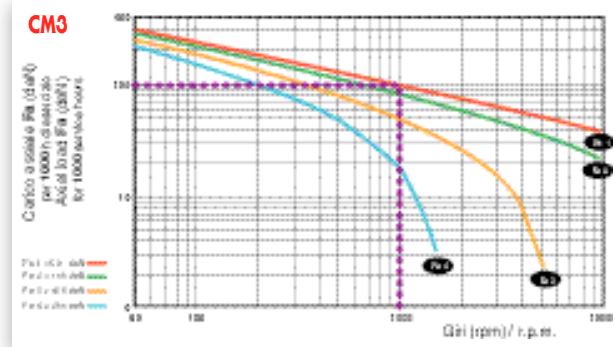
Mod. GT-B

Contropunta rotante / Live centre

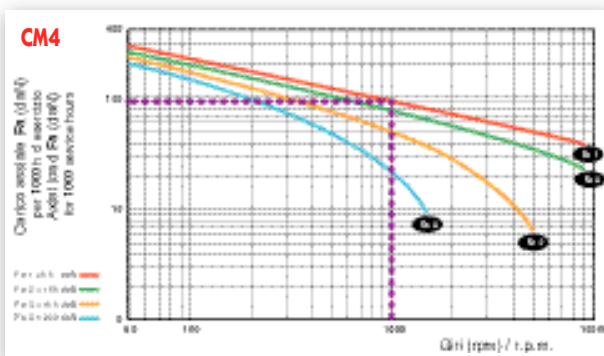
Cono Morse / Taper	2	3	4	5
CODICE / CODE	821100	831110	841120	851130
Peso / Weight (Kg)	0,7	1,1	1,8	3,3
Max giri/1' / r.p.m.	7000	5500	4500	3200
Eccent.	0,015	0,015	0,015	0,015
$\varnothing B$ (mm)	49	58	63	78
L 1 (mm)	40	46	55	55
$\varnothing A$ (mm)	24	26	30	40
L 2 (mm)	30	30	35	40



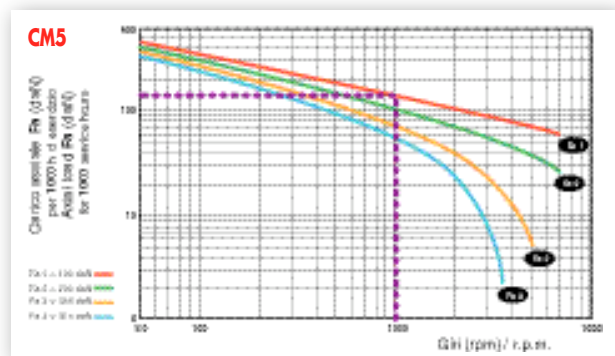
- Esempio della contropunta rotante **CM 2** Mod. GT-B a 1.000 g/m: Carico Radiale (F_r)= 65 (daN) - Carico Assiale (F_a)= 50 (daN)
- Example of live centre **CM 2** mod. GT-B at 1.000 rpm: Radial load (F_r)= 65 (daN) - Axial load (F_a)= 50 (daN)



- Esempio della contropunta rotante **CM 3** Mod. GT-B a 1.000 g/m: Carico Radiale (F_r)= 97 (daN) - Carico Assiale (F_a)= 50 (daN)
- Example of live centre **CM 3** mod. GT-B at 1.000 rpm: Radial load (F_r)= 97 (daN) - Axial load (F_a)= 50 (daN)



- Esempio della contropunta rotante **CM 4** Mod. GT-B a 1.000 g/m: Carico Radiale (F_r)= 88 (daN) - Carico Assiale (F_a)= 50 (daN)
- Example of live centre **CM 4** mod. GT-B at 1.000 rpm: Radial load (F_r)= 88 (daN) - Axial load (F_a)= 50 (daN)



- Esempio della contropunta rotante **CM 5** Mod. GT-B a 1.000 g/m: Carico Radiale (F_r)= 130 (daN) - Carico Assiale (F_a)= 100 (daN)
- Example of live centre **CM 5** mod. GT-B at 1.000 rpm: Radial load (F_r)= 130 (daN) - Axial load (F_a)= 100 (daN)


Set di dotazione / Tool box

- Contropunta rotante **Mod. GT-AS**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT-AS**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante in cassetta con cuspidi intercambiabili
Tool box for live centre with interchangeable tips

Mod. GT-AS

Cono Morse / Taper	2	3	4	5	6
CODICE / CODE	824003	834003	844003	854003	864003
Peso/Weight (Kg)	2,4	2,6	3,5	5,3	13,5

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT-AM**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT-AM**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante in cassetta con cuspidi intercambiabili
Tool box for live centre with interchangeable tips

Mod. GT-AM

Cono Morse / Taper	2	3	4	5	6
CODICE / CODE	824001	834001	844001	854001	864001
Peso/Weight (Kg)	2,4	2,6	3,5	5,4	14,5

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT-VA**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT-VA**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante in cassetta con cuspidi intercambiabili
Tool box for live centre with interchangeable tips

Mod. GT-VA

Cono Morse / Taper	3	4	5	6
CODICE / CODE	834002	844002	854002	864002
Peso/Weight (Kg)	2,6	3,5	5,3	13,5

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT1990-NI**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT1990-NI**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante in cassetta con cuspidi intercambiabili
Tool box for live centre with interchangeable tips

Mod. GT1990-NI

Cono Morse / Taper	3	4	5	
CODICE / CODE	834004	844004	854004	
Peso/Weight (Kg)	3,8	6,5	8,9	

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT1980-NI**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT1980-NI**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

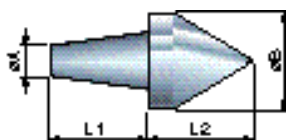
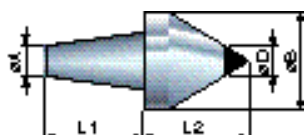
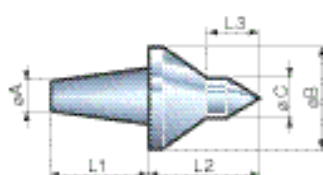
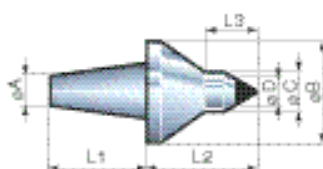
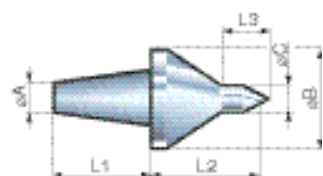
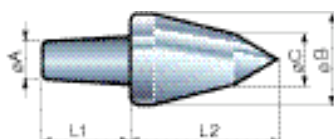
Contropunta rotante in cassetta con cuspidi intercambiabili
Tool box for live centre with interchangeable tips

Mod. GT1980-NI

Cono Morse / Taper	3	4	5	
CODICE / CODE	834005	844005	854005	
Peso/Weight (Kg)	3,8	6,5	8,9	

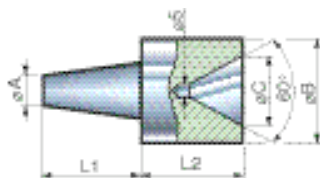
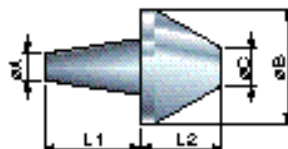
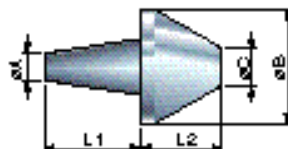
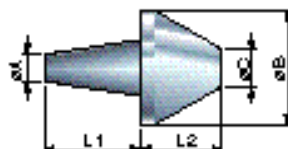
1

 Cuspidi intercambiabili a 60° per tutti i modelli di contropunta con albero intercambiabile
 60° interchangeable tips for all models of centres with interchangeable shaft

Mod. 30

Mod. 31/MD

Mod. 40A

Mod. 41A/MD

Mod. 40B

Mod. 42


Cono Morse Taper	L 1	L 2	L 3	ø A	ø B	ø C	ø D	CODICE/CODE
C 2	27	28		10,4	25			80 30 30
C 3	27	28		10,4	25			80 30 30
C 4	29	31		12	29			80 30 40
C 5	30	36		17,2	35			80 30 50
C 6	33	45		18,5	42			80 30 60
C 6	40	46		23,6	43			80 30 60 F
C 2	27	28		10,4	25	10		80 31 30
C 3	27	28		10,4	25	10		80 31 30
C 4	29	31		12	29	12		80 31 40
C 5	30	36		17,2	35	14		80 31 50
C 6	33	45		18,5	42	14		80 31 60
C 6	40	46		23,6	43	14		80 31 60 F
C 2	27	34	16	10,4	25	12		80 40 13
C 3	27	34	16	10,4	25	12		80 40 13
C 4	29	37	16	12	29	12		80 40 14
C 5	30	42	19	17,2	35	15		80 40 15
C 6	33	54	25	18,5	42	20		80 40 16
C 6	40	62	33	23,6	43	20		80 40 16 F
C 2	27	34	16	10,4	25	12	7	80 41 13
C 3	27	34	16	10,4	25	12	7	80 41 13
C 4	29	37	16	12	29	12	8	80 41 14
C 5	30	42	19	17,2	35	15	12	80 41 15
C 6	33	54	25	18,5	42	20	12	80 41 16
C 6	40	62	33	23,6	43	20	12	80 41 16 F
C 2	27	34	12	10,4	25	7		80 40 23
C 3	27	34	12	10,4	25	7		80 40 23
C 4	29	37	12	12	29	7		80 40 24
C 5	30	42	12	17,2	35	7		80 40 25
C 6	33	54	18	18,5	42	12		80 40 26
C 6	40	62	26	23,6	43	12		80 40 26 F
C 2	27	45		10,4	25	8		80 42 30
C 3	27	45		10,4	25	8		80 42 30
C 4	29	50		12	29	10		80 42 40
C 5	30	59		17,2	35	12		80 42 50
C 6	33	75		18,5	42	12		80 42 60
C 6	40	75		23,6	43	12		80 42 60 F

Cuspidi intercambiabili 60° per tutti i modelli di contropunta con albero intercambiabile
 60° interchangeable tips for all models of centres with interchangeable shaft

Mod. 50

Mod. 60

Mod. 80

Mod. 100








Cono Morse Taper	L 1	L 2	ø A	ø B	ø C	ø D	CODICE / CODE
C 2	27	30	10,4	29	23		80 50 30
C 3	27	30	10,4	29	23		80 50 30
C 4	29	30	12	29	23		80 50 40
C 5	30	35	17,2	35	27		80 50 50
C 6	33	35	18,5	37	27		80 50 60
C 6	40	46	23,6	37			80 50 60 F
C 2	27	35	10,4	59	26		80 60 30
C 3	27	35	10,4	59	26		80 60 30
C 4	29	35	12	59	26		80 60 40
C 5	30	35	17,2	59	26		80 60 50
C 6	33	35	18,5	59	26		80 60 60
C 6	40	35	23,6	59	26		80 60 60 F
C 2	27	35	10,4	78	46		80 80 30
C 3	27	35	10,4	78	46		80 80 30
C 4	29	35	12	78	46		80 80 40
C 5	30	35	17,2	78	46		80 80 50
C 6	33	35	18,5	78	46		80 80 60
C 6	40	35	23,6	78	46		80 80 60 F
C 2	27	35	10,4	98	66		80 100 3
C 3	27	35	10,4	98	66		80 100 3
C 4	29	35	12	98	66		80 100 4
C 5	30	35	17,2	98	66		80 100 5
C 6	33	35	18,5	98	66		80 100 6
C 6	40	35	23,6	98	66		80 100 6 F









Per la richiesta di cuspidi con dimensioni personalizzate compilare la tabella sotto e spedire tramite telefax.











When you ask for tips with personalized dimensions always fill in this table and fax it.





Cono Morse Tape	L1	L2	ø A	ø B	ø C	ø D	Mod.	ø di lavoro working ø	Peso pezzo Piece weight

1

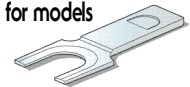
PER MOD. For Mod.	CM CM	COD. KIT CUSCINETTI Bearing kit	COD. ALBERO Shaft
GT- E / S		.000	
812090	1	8120901	8120908
822100	2	8221001	8221008
832110	3	8321101	8321108
842120	4	8421201	8421208
852130	5	8521301	8521308
862140	6	8621401	8621408
812091	1	8120911	8120908
822101	2	8221011	8221008
832111	3	8321111	8321108
842121	4	8421211	8421208
852131	5	8521311	8521308
862141	6	8621411	8621408
GT-AS		.000	
823091	2	8221011	8230917
833101	3	8321111	8331017
843111	4	8421211	8431117
853121	5	8521311	8531217
863131	6	8621411	8631317
GT-M		.000	
822102	2	8221021	8221028
832112	3	8321121	8321128
842122	4	8421221	8421228
852132	5	8521321	8521328
862142	6	8621421	8621428
862152	6 sp.	8621521	8621528
GT-AM		.000	
823092	2	8221021	8230927
833102	3	8321121	8331027
843112	4	8421221	8431127
853122	5	8521321	8531227
863132	6	8621421	8631327
863142	6 sp.	8621521	8631427
GT-MC		.000	
822202	2	8221021	8222028
832212	3	8321121	8322128
842222	4	8421221	8422228
852232	5	8521321	8522328
862242	6	8621421	8622428
862252	6 sp.	8621521	8622528
GT-MTC		.000	
834092	3	8321121	8340928
844102	4	8421221	8441028
854112	5	8521321	8541128
864122	6	8621421	8641228
864132	6 sp.	8621521	8641328

PER MOD. For Mod.	CM CM	COD. KIT CUSCINETTI Bearing kit	COD. ALBERO Shaft
GT-MG		.000	
8302112	3	8321121	8321128
8402122	4	8421221	8421228
8502132	5	8521321	8521328
8602142	6	8621421	8621428
8602152	6 sp.	8621521	8621528
GT-AMG		.000	
8303102	3	8321121	8331027
8403112	4	8421221	8431127
8503122	5	8521321	8531227
8603132	6	8621421	8631327
8603142	6 sp.	8621521	8631427
GT-MCG		.000	
8302212	3	8321121	8322128
8402222	4	8421221	8422228
8502232	5	8521321	8522328
8602242	6	8621421	8622428
8602252	6 sp.	8621521	8622528
GT-MTCG		.000	
8304092	3	8321121	8340928
8404102	4	8421221	8441028
8504112	5	8521321	8541128
8604122	6	8621421	8641228
8604132	6 sp.	8621521	8641328
GT-V		.000	
832161	3	8321611	8321128
842171	4	8421711	8421718
852181	5	8521811	8521818
862191	6	8621911	8621918
GT-VA		.000	
832162	3	8321611	8331027
842172	4	8421711	8421727
852182	5	8521811	8521827
862192	6	8621911	8621927
GT-VW		.000	
832163	3	8321611	8321638
842173	4	8421711	8421738
852183	5	8521811	8521838
862193	6	8621911	8621938
GT-VC		.000	
832164	3	8321611	8322128
842174	4	8421711	8421748
852184	5	8521811	8521848
862194	6	8621911	8621948

PER MOD. For Mod.	CM CM	COD. KIT CUSCINETTI Bearing kit	COD. ALBERO Shaft
GT-VCW		.000	
832165	3	8321611	8321658
842175	4	8421711	8421758
852185	5	8521811	8521858
862195	6	8621911	8621958
GT-VG		.000	
8302161	3	8321611	8321128
8402171	4	8421711	8421718
8502181	5	8521811	8521818
8602191	6	8621911	8621918
GT-VAG		.000	
8302162	3	8321611	8331027
8402172	4	8421711	8421727
8502182	5	8521811	8521827
8602192	6	8621911	8621927
GT-VWG		.000	
8302163	3	8321611	8321638
8402173	4	8421711	8421738
8502183	5	8521811	8521838
8602193	6	8621911	8621938
GT-VCG		.000	
8302164	3	8321611	8322128
8402174	4	8421711	8421748
8502184	5	8521811	8521848
8602194	6	8621911	8621948
GT-VCWG		.000	
8302165	3	8321611	8321658
8402175	4	8421711	8421758
8502185	5	8521811	8521858
8602195	6	8621911	8621958
GT-1990/N		.000	
831992	3	8319911	8319928
841992	4	8419911	8419928
851992	5	8519911	8519928
GT-1990/NI		.000	
831993	3	8319911	8319937
841993	4	8419911	8419937
851993	5	8519911	8519937
GT-1990/CO		.000	
831991	3	8319911	8319918
841991	4	8419911	8419918
851991	5	8519911	8519918
GT-1980/N		.000	
831982	3	8319811	8319828
841982	4	8419811	8419828
851982	5	8519811	8519828

PER MOD. For Mod.	CM CM	COD. KIT CUSCINETTI Bearing kit	COD. ALBERO Shaft
GT-1980/NW		.000	
831984	3	8319811	8319848
841984	4	8419811	8419848
851984	5	8519811	8519848
GT-1980/NI		.000	
831983	3	8319811	8319837
841983	4	8419811	8419837
851983	5	8519811	8519837
GT-1980/CO		.000	
831981	3	8319811	8319818
841981	4	8419811	8419818
851981	5	8519811	8519818
GT-1980/COW		.000	
831985	3	8319811	8319858
841985	4	8419811	8419858
851985	5	8519811	8519858

CHIAVE ESTRAZIONE PER MODELLI / Extraction wrench for models
AS - AM - AMG - VA - VAG - 1990/N - 1980/NI



CM	2	3	4	5	6
CODICE CODE	8319910	8319910	8419910	8519910	8619910

CHIAVE PER GHIERA, MODELLI / Nut wrench, models
MG - AMG - MCG - MTCG - VG - VAG - VWG - VCG - VCWG

CM	3	4	5	6	6sp.
CODICE CODE	8321122	8421222	8521322	8621422	8621522

CHIAVE PER GHIERA, MODELLI / Nut wrench, models
1990 - 1980

CM	3	4	5
CODICE CODE	8319922	8419922	8519922



GRASSO SPECIALE PER CONTROPUNTE ROTANTI
Special grease for live centres



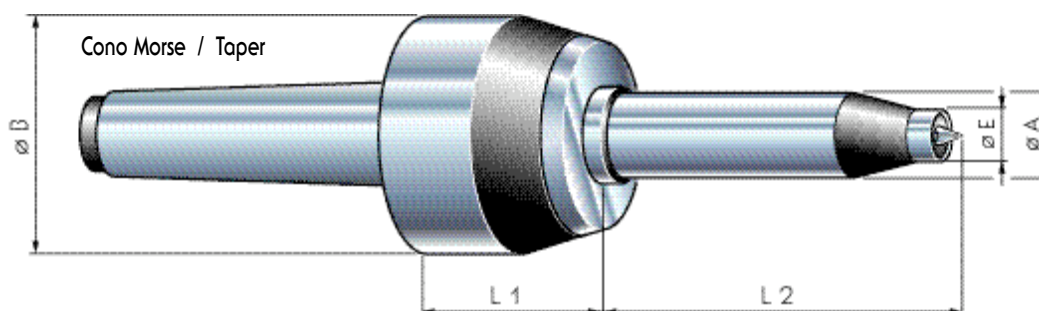
CODICE / CODE	Peso / Weight (Kg)
800100	0,030
800500	0,050

1

Contropunta rotante con albero speciale per tornitura legno.

Live centre with special shaft for wood turning.

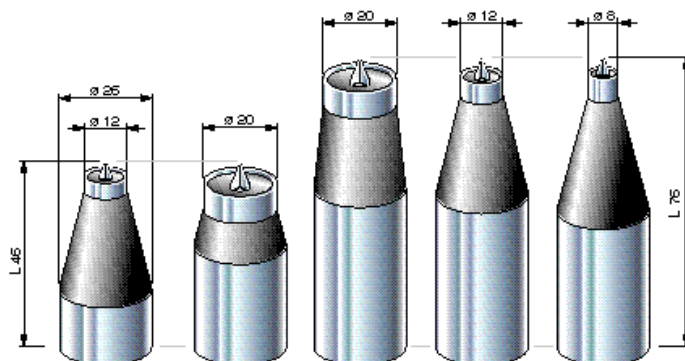
Mod. GT-VL			
Cono Morse / Taper	2	3	3
CODICE / CODE	822104	832166	832167
∅ B	51	55	55
∅ A	22	20	20
∅ E	12	12	12
L1	43	47	47
L2	80	88	120



Contropunta rotante in cassetta con alberi intercambiabili per la tornitura del legno.

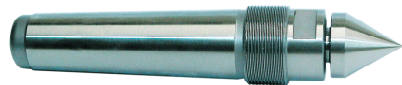
Live centre in tool-box with interchangeable shafts for wood turning.

Mod. GT-VLC	
CODICE / CODE	834006
per Set Completo / for complete set	

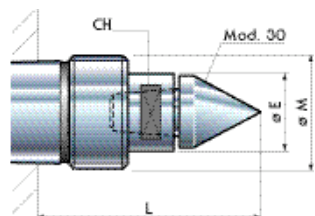


ART. 216-12 216-20 216-20L 216-12L 216-8L

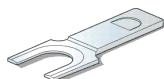
Per ricambi segnalare il riferimento. / For spare parts please state the reference.


Mod. 330

Contropunta fissa filettata e temperata con cuspidi intercambiabile
Threaded and hardened dead centre with interchangeable tip



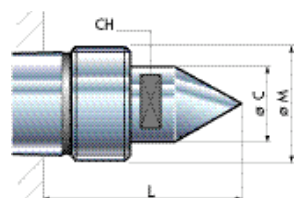
Per estrattore vedere pag. 27
For extractor see page 27



Cono Morse / Taper	3	4	5
CODICE / CODE	833301	843301	853301
Cuspide / Tip	80 30 30	80 30 40	80 30 50
E (mm)	28	32	38
L (mm)	70	74,5	79,5
M (mm)	36 x 1,5	36 x 1,5	48 x 1,5
CH (mm)	22	27	32
Peso/Weight (Kg)	0,5	0,8	2,0


Mod. 230

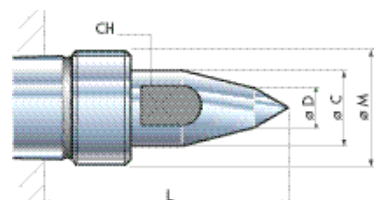
Contropunta fissa filettata e temperata in acciaio
Steel threaded and hardened dead centre



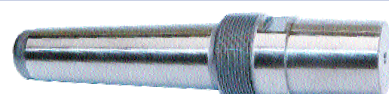
Cono Morse / Taper	3	4	5
CODICE / CODE	832301	842301	852301
C (mm)	28	32	38
L (mm)	65	76,5	86,5
M (mm)	36 x 1,5	36 x 1,5	48 x 1,5
CH (mm)	22	27	32
Peso/Weight (Kg)	0,5	0,8	2,0


Mod. 240

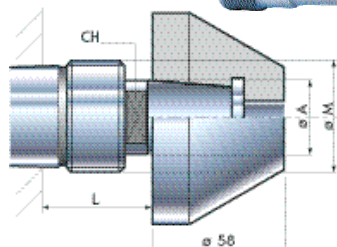
Modello con punta prolungata
Model with aiguille



Cono Morse / Taper	3	4	5
CODICE / CODE	832401	842401	852401
C (mm)	28	32	38
D (mm)	13	13	20
L (mm)	80	92,5	104,5
M (mm)	36 x 1,5	36 x 1,5	48 x 1,5
CH (mm)	22	27	32
Peso/Weight (Kg)	0,5	0,9	2,8

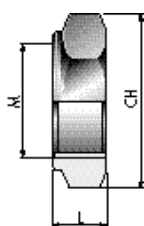

Mod. 400

Contropunta fissa temperata e filettata a tronco di cono porta funghi
Truncated cone hardened and threaded dead centre holding heads



Per la scelta dei funghi vedere a pagina 13.
For the range of heads, please see page 13.

Cono Morse / Taper	3	4	5	6
CODICE / CODE	834000	844000	854000	864000
A (mm)	35	35	35	35
L (mm)	40	41,5	41,5	43
M (mm)	41 x 1,5	41 x 1,5	48 x 1,5	68 x 1,5
CH (mm)	32	32	32	38
Peso/Weight (Kg)	0,7	1,1	2,0	5,0

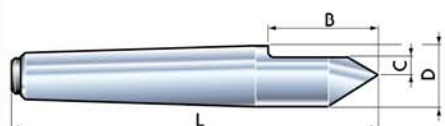

Mod. 501

Ghiera di estrazione
Extractor nut

CODICE / CODE	005010	005011	005012	005013
M (mm)	36 x 1,5	48 x 1,5	41 x 1,5	68 x 1,5
CH (mm)	55	70	55	96
L (mm)	22	22	22	22
Peso/Weight (Kg)	0,25	0,35	0,2	0,5

Mod. 231 Fissa in acciaio temperato
 Hardened steel dead centre

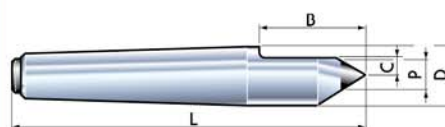

Cono Morse / Taper	1	2	3	4	5	6
CODICE / CODE	812310	822310	832310	842310	852310	862310
D (mm)	12,2	18	24,1	31,6	44,7	63,8
L (mm)	80	100	125	160	200	270
Peso / Weight (Kg)	0,1	0,13	0,4	0,75	1,95	7,3

Mod. 241 Fissa in acciaio temperato scaricata
 Hardened steel lightened dead centre


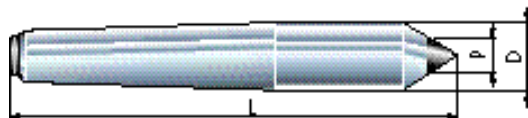
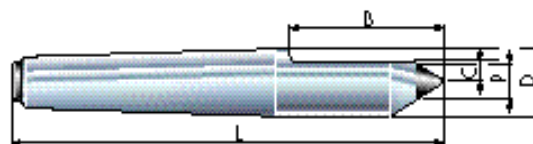
Cono Morse / Taper	1	2	3	4	5	6
CODICE / CODE	812410	822410	832410	842410	852410	862410
D (mm)	12,2	18	24,1	31,6	44,7	63,8
C (mm)	1,5	2	3	5	7	10
B (mm)	22	30	38	50	63	79
L (mm)	80	100	125	160	200	270
Peso / Weight (Kg)	0,1	0,13	0,4	0,75	1,95	7,3

Mod. 232 Fissa con punta in metallo duro
 Dead centre with hard metal centre


Cono Morse / Taper	2	3	4	5	6
CODICE / CODE	822321	832321	842321	852321	862321
D (mm)	18	24,1	31,6	44,7	63,8
P (mm)	7	11	14	18	20
L (mm)	100	125	160	200	270
Peso / Weight (Kg)	0,13	0,4	0,75	1,95	7,3

Mod. 242 Fissa con punta in metallo duro scaricata
 Lightened dead centre with hard metal centre


Cono Morse / Taper	2	3	4	5	6
CODICE / CODE	822421	832421	842421	852421	862421
D (mm)	18	24,1	31,6	44,7	63,8
C (mm)	2	3	5	7	10
P (mm)	7	11	14	18	20
B (mm)	30	38	50	63	79
L (mm)	100	125	160	200	270
Peso / Weight (Kg)	0,13	0,4	0,75	1,95	7,3

Mod. 233 Contropunta fissa prolungata in metallo duro
 Hard metal extended dead centre

Mod. 243 Contropunta fissa prolungata scaricata in metallo duro
 Hard metal lightened extended dead centre


CODICE / CODE	CM	D	P	L	Peso/Weight (Kg)
8223310	2	18	10	120	0,2
8223314	2	18	14	120	0,2
8223318	2	22	18	120	0,2
8323310	3	24,1	10	160	0,5
8323314	3	24,1	14	160	0,5
8323318	3	24,1	18	160	0,5
8323322	3	24,1	22	160	0,5
8423310	4	31,6	10	200	1,0
8423314	4	31,6	14	200	1,0
8423318	4	31,6	18	200	1,0
8423322	4	31,6	22	200	1,0
8423326	4	31,6	26	200	1,0
8523314	5	44,7	14	240	2,4
8523318	5	44,7	18	240	2,4
8523322	5	44,7	22	240	2,4
8523326	5	44,7	26	240	2,5
8523330	5	44,7	30	240	2,5
8623314	6	63,8	14	300	5,4
8623318	6	63,8	18	300	5,8
8623322	6	63,8	22	300	5,8
8623326	6	63,8	26	300	5,8
8623330	6	63,8	30	300	6,0

CODICE / CODE	CM	D	P	L	C	B	Peso/Weight (Kg)
8224310	2	18	10	120	6	50	0,2
8224314	2	18	14	120	8	50	0,2
8224318	2	22	18	120	10	50	0,2
8324310	3	24,1	10	160	6	70	0,5
8324314	3	24,1	14	160	8	70	0,4
8324318	3	24,1	18	160	10	70	0,5
8324322	3	24,1	22	160	12	70	0,5
8424310	4	31,6	10	200	6	90	0,9
8424314	4	31,6	14	200	8	90	0,9
8424318	4	31,6	18	200	10	90	1,0
8424322	4	31,6	22	200	12	90	1,0
8424326	4	31,6	26	200	14	90	1,0
8524314	5	44,7	14	240	8	90	2,2
8524318	5	44,7	18	240	10	90	2,2
8524322	5	44,7	22	240	12	90	2,2
8524326	5	44,7	26	240	14	90	2,3
8524330	5	44,7	30	240	16	90	2,4
8624314	6	63,8	14	300	8	100	5,0
8624318	6	63,8	18	300	10	100	5,2
8624322	6	63,8	22	300	12	100	5,4
8624326	6	63,8	26	300	14	100	5,6
8624330	6	63,8	30	300	16	100	5,8

Per la richiesta di contropunte con dimensioni personalizzate compilare la tabella sotto e spedire tramite telefax.

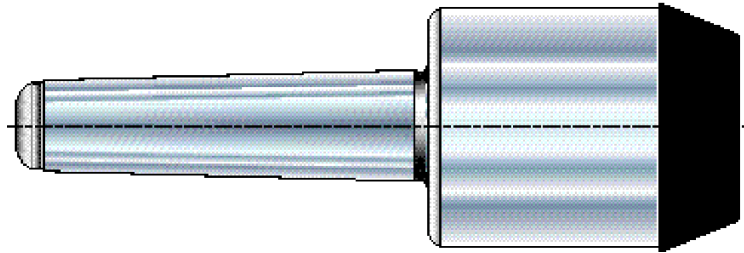
When you ask for tailstocks with personalized dimensions always fill in this table and fax it.

Mod.	CM	D	L	B	C	P	ø di lavoro / working ø	Peso pezzo / Piece weight
2_ _								

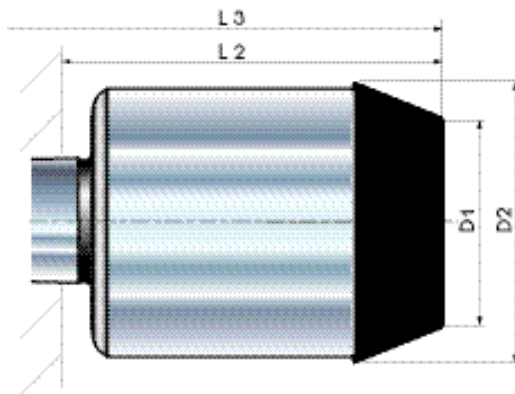
1

Contropunta fissa con calotta in metallo duro.

Dead centre with hard metal cover.



Mod. 250 Contropunta fissa con calotta in metallo duro Dead centre with hard metal cover

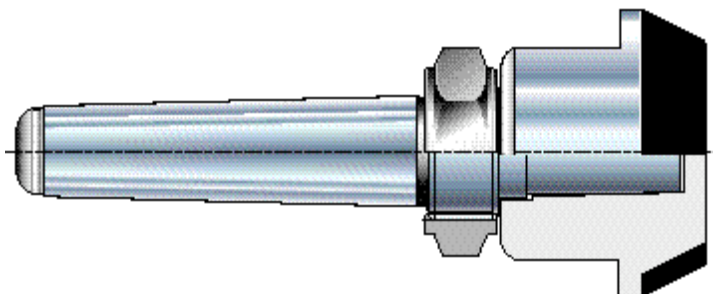


CODICE / CODE	CM	D2	D1	L2	L3	Peso/Weight (Kg)
8225030	2	30	5	50	114	0,3
8225040	2	40	15	50	114	0,3
8225050	2	50	25	50	114	0,4
8325030	3	30	5	50	131	0,4
8325040	3	40	15	50	131	0,6
8325050	3	50	25	50	131	0,8
8325060	3	60	35	50	131	1,2
8325070	3	70	45	50	131	1,5
8425030	4	30	5	60	162	0,8
8425040	4	40	15	60	162	1,0
8425050	4	50	25	60	162	1,3
8425060	4	60	35	60	162	1,6
8425070	4	70	45	60	162	2,1
8425080	4	80	55	60	162	2,5
8525030	5	30	5	70	200	1,7
8525040	5	40	15	70	200	2,0
8525050	5	50	25	70	200	2,3
8525060	5	60	35	70	200	2,8
8525070	5	70	45	70	200	3,2
8525080	5	80	55	70	200	3,5
8625030	6	30	5	75	257	7,3
8625040	6	40	15	75	257	8,0
8625050	6	50	25	75	257	8,7
8625060	6	60	35	75	257	9,3
8625070	6	70	45	75	257	10,0
8625080	6	80	55	75	257	10,6

Per la richiesta di contropunte con dimensioni personalizzate compilare la tabella sotto e spedire tramite telefax.

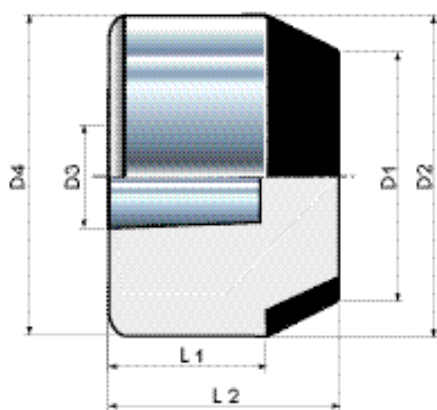
When you ask for tailstocks with personalized dimensions always fill in this table and fax it.

Mod.	CM	L2	L3	D1	D2	ø di lavoro / working ø	Peso pezzo / Piece weight
250							



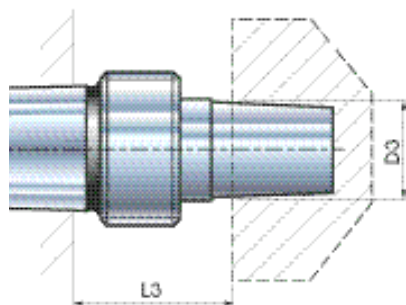
Contropunta fissa con ghiera di estrazione e calotte intercambiabili in metallo duro.

Hard metal dead centre with extractor nut and interchangeable covers.



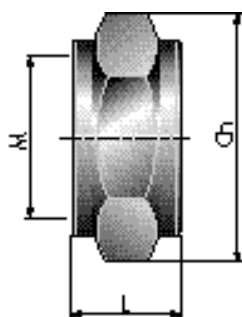
Mod. 500 Calotta intercambiabile in metallo duro
Hard metal interchangeable cover

CODICE / CODE	015000	025000	035000	045000
Eccent.	0,05	0,05	0,05	0,08
D1 (mm)	5	25	45	65
D2 (mm)	30	50	70	90
D3 (mm)	25	25	25	25
D4 (mm)	40	50	70	90
L2 (mm)	62	56	56	56
L1 (mm)	40	34	34	34
Peso / Weight (Kg)	0,35	0,7	1,5	2,7



Mod. 503 Contropunta fissa porta calotte in metallo duro
Hard metal dead centre holding covers

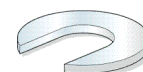
CM	2	3	4	5
CODICE / CODE	825030	835030	845030	855030
Eccent.	0,05	0,05	0,05	0,05
M (mm)	36 x 1,5	36 x 1,5	36 x 1,5	48 x 1,5
D3 (mm)	25	25	25	25
L3 (mm)	41	41	42,5	42,5
Peso / Weight (Kg)	0,45	0,6	0,9	1,9



Mod. 502 Ghiera estrazione cono e calotta
Taper and cover extractor nut

CODICE / CODE	005022	005023
M (mm)	36 x 1,5	48 x 1,5
Ch (mm)	55	70
L	30	30
Peso / Weight (Kg)	0,35	0,5

005024



**Estrattore
Extractor
per/ for
015000**

Mandrino cambio rapido a doppia compensazione.

Quick-coupling spindle with double compensation.

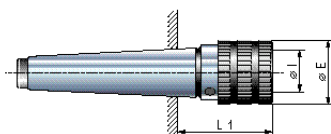


Caratteristiche generali / Technical data

TIPO BUSSOLA / BUSH TYPE		1	2	3
ø I (mm)		19	31	48
ø E (mm)		37	53,5	79
Compensazione / Compensation	Trazione / Pull	7	12	20
	Press. / Push	8	13	20

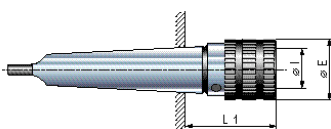
2

Mod. DIN 228B



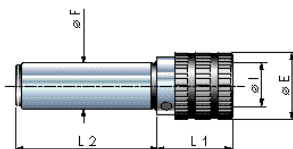
Tipo bussola / Bush type	1		2		3	
Per filettature / For threading	M 2 ÷ M 12		M 6 ÷ M 20		M 12 ÷ M 33	
Cono Morse / Taper	CM 2	CM 3	CM 3	CM 4	CM 4	CM 5
L 1 (mm)	37	37	72,5	74	107	107
Peso / Weight (Kg)	0,25	0,4	0,8	1,2	2,45	3,0
CODICE / CODE	91100	91200	92100	92200	93100	93200

Mod. DIN 228A



Tipo bussola / Bush type	1		2		3	
Per filettature / For threading	M 2 ÷ M 12		M 6 ÷ M 20		M 12 ÷ M 33	
Cono Morse / Taper	CM 2	CM 3	CM 3	CM 4	CM 4	CM 5
L 1 (mm)	37	37	72,5	74	107	107
Peso / Weight (Kg)	0,3	0,45	0,85	1,3	3,5	3,3
CODICE / CODE	91300	91400	92300	92400	93300	93400

Mod. DIN 1835



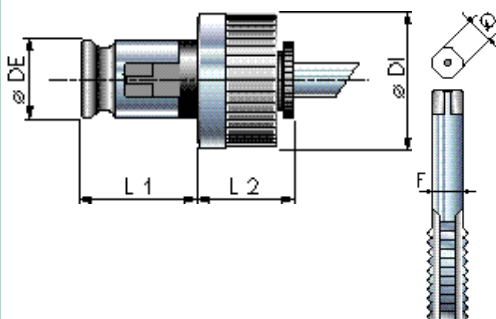
Tipo bussola / Bush type	1	2
Per filettature / For threading	M 2 ÷ M 12	M 6 ÷ M 20
ø F (mm)	25	25
L 1 (mm)	41	67,5
L 2 (mm)	56	56
Peso / Weight (Kg)	0,45	0,75
CODICE / CODE	91500	91600

A richiesta si costruiscono attacchi speciali / Special connectors are manufactured on request.



Bussola a cambio rapido **CON FRIZIONE**.

Quick-coupling bush **WITH CLUTCH**.

2


TIPO / TYPE	BCF 0	BCF 1	BCF 2	BCF 3
DI	23	32	50	72
DE	13	19	31	48
L 1	19,5	21,5	35	55,5
L 2	21	25	34	45
Capacità di maschiatura Tapping capacity	M2 ÷ M10	M2 ÷ M12	M6 ÷ M20	M12 ÷ M33
Peso / Weight (Kg)	0,06	0,15	0,5	1,45

TIPO / TYPE		BCF 0									
Maschio / Tap	F	2,8	2,8	3,15	3,5	4	4,5	5	6	6,3	7
	Q	2,1	2,24	2,5	2,7	3	3,4	4	4,9	5	5,5
Filetto / Thread		M 2	M 2,5	M 3-4	M 3	M 3,5	M 4-6	M 5	M 6-8	M 6-8	M 10
CODICE / CODE		90111	90122	90112	90113	90115	90117	90118	90119	90120	90121

TIPO / TYPE		BCF 1														
Maschio / Tap	F	2,8	3,15	3,5	4	4	4,5	5	6	6,3	7	8	9	10	10,5	11
	Q	2,1	2,5	2,7	3	3,2	3,4	4	4,9	5	5,5	6,2	7	8	8	9
Filetto / Thread		M 2	M 3-4	M 3	M 3,5	M 3	M 4-6	M 4-5	M 5-6-8	M 6	M 7-10	M 8-11	M 9-12	M 10	-	-
CODICE / CODE		91111	91112	91113	91115	91116	91117	91118	91119	91120	91121	91122	91123	91124	91127	91128

TIPO / TYPE		BCF 2																
Maschio / Tap	F	6	6,3	7	8	9	10	10,5	11	11,2	12	12,5	14	14	16	16	18	18
	Q	4,9	5	5,5	6,2	7	8	8	9	9	9	10	11	11,2	12	12,5	14	14,5
Filetto / Thread		M6-7-8	M6	M7-10	M8-11	M9-12	M10	M14	M14	M14	M16	M16	M18	M18-20	M20	-	-	-
CODICE / CODE		92110	92111	92112	92113	92114	92115	92124	92116	92117	92118	92119	92120	92121	92122	92123	92125	92126

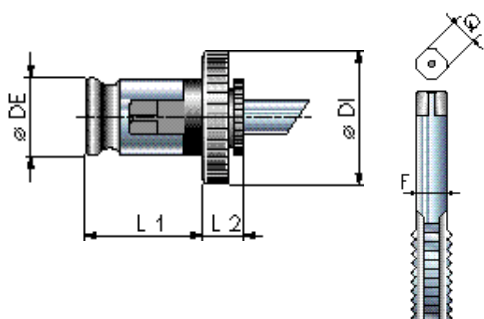
TIPO / TYPE		BCF 3															
Maschio / Tap	F	9	11	11,2	12	12,5	14	14	16	16	18	18	20	22	22,4	25	28
	Q	7	9	9	9	10	11	11,2	12	12,5	14	14,5	16	18	18	20	22
Filetto / Thread		M12	M14	M14	M16	M16	M18	M18-20	M20	M22	M 24	M22-24	M27-30	M30	M33	M33	-
CODICE / CODE		93124	93110	93111	93112	93113	93114	93115	93116	93117	93118	93119	93120	93121	93122	93123	93125

Bussola a cambio rapido **SENZA FRIZIONE.**

Quick-coupling bush **WITHOUT CLUTCH.**



2



TIPO / TYPE	BN 0	BN 1	BN 2	BN 3
DI	22	30	46	68
DE	13	19	31	48
L 1	19,5	21,5	35	55,5
L 2	7	7	11	14
Capacità di maschiatura Tapping capacity	M2 ÷ M10	M2 ÷ M12	M6 ÷ M20	M12 ÷ M33
Peso / Weight (Kg)	0,01	0,07	0,25	0,75

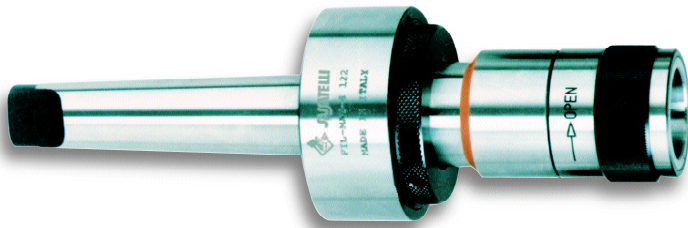
TIPO / TYPE		BN 0											
Maschio / Tap	F	2,5	2,8	2,8	3,15	3,5	4	4,5	5	5,5	6	6,3	7
	Q	2,1	2,1	2,24	2,5	2,7	3	3,4	4	4,3	4,9	5	5,5
CODICE / CODE		90210	90211	90222	90212	90213	90215	90217	90218	90223	90219	90220	90221

TIPO / TYPE		BN 1															
Maschio / Tap	F	2,8	3,15	3,5	4	4	4,5	5	5,5	6	6,3	7	8	9	10	10,5	11
	Q	2,1	2,5	2,7	3	3,2	3,4	4	4,3	4,9	5	5,5	6,2	7	8	8	9
CODICE / CODE		91211	91212	91213	91215	91216	91217	91218	91225	91219	91220	91221	91222	91223	91224	91227	91228

TIPO / TYPE		BN 2																
Maschio / Tap	F	6	6,3	7	8	9	10	10,5	11	11,2	12	12,5	14	14	16	16	18	18
	Q	4,9	5	5,5	6,2	7	8	8	9	9	9	10	11	11,2	12	12,5	14	14,5
CODICE / CODE		92210	92211	92212	92213	92214	92215	92224	92216	92217	92218	92219	92220	92221	92222	92223	92225	92226

TIPO / TYPE		BN 3														
Maschio / Tap	F	11	11,2	12	12,5	14	14	16	16	18	18	20	22	22,4	25	28
	Q	9	9	9	10	11	11,2	12	12,5	14	14,5	16	18	18	20	22
CODICE / CODE		93210	93211	93212	93213	93214	93215	93216	93217	93218	93219	93220	93221	93222	93223	93226

Mod. FIL MAS SF



I filettatori della serie FIL MAS SF sono perfettamente utilizzabili su torni di qualsiasi dimensione avendo gli accessori a scorrimento assiale su sfere; si ottiene una perfetta esecuzione escludendo imperfezioni causate da trascinamento forzato.

- FIL MAS SF è dotato di frizione.
- Gli accessori sono intercambiabili.

The thread cutting machines of series FIL MAS SF can be perfectly used on lathes of any dimension having the accessories for radial sliding on balls. A perfect working is obtained eliminating imperfections caused by forced pull.

- FIL MAS SF is equipped with clutch.
- The accessories are interchangeable.

2



NORMAL SET

CONFEZIONI STANDARD / STANDARD PACKING					ACCESSORI IN DOTAZIONE / STANDARD ACCESSORIES			
Cono Cone	CODICE SF CODE SF	Capacità Capacity	L. filettatura Thread length	Escursione max. Max. stroke	Bussola porta filiere Die holder bush	Mandrini p. maschi Tap holder spindles	Confezione Packing	Peso / Weight (kg)
2	301002	M 4 ÷ M 22	210 mm	48 mm	∅ 20 301290	∅ 4 ÷ 10 301270	cassetta in metallo metal box 301440	5,9
3	301013				∅ 25 301300			6
4	301024				∅ 30 301310			6,3
5	301035				∅ 38 301320			7,1



EXTRA SET

CONFEZIONI STANDARD / STANDARD PACKING					ACCESSORI IN DOTAZIONE / STANDARD ACCESSORIES			
Cono Cone	CODICE SF CODE SF	Capacità Capacity	L. filettatura Thread length	Escursione max. Max. stroke	Bussola porta filiere Die holder bush	Mandrini p. maschi Tap holder spindles	Confezione Packing	Peso / Weight (kg)
2	301102	M 4 ÷ M 22	210 mm	48 mm	∅ 20 301290	∅ 4 ÷ 10 301270	cassetta in metallo metal box 301450	11,1
3	301113				∅ 25 301300			∅ 10 ÷ 18 301280
4	301124				∅ 30 301310	codolo / tang B16 301251		11,5
5	301135				∅ 38 301320			12,3

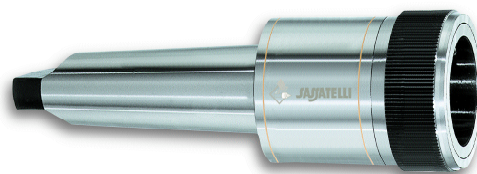
Mod. FIL MAS SN

I filettatori della serie FIL MAS SN sono perfettamente utilizzabili su torni di qualsiasi dimensione avendo gli accessori a scorrimento assiale su sfere; si ottiene una perfetta esecuzione escludendo imperfezioni causate da trascinamento forzato.

- FIL MAS SN è sprovvisto di frizione.
- Gli accessori sono intercambiabili.

The thread cutting machines of series FIL MAS SN can be perfectly used on lathes of any dimension having the accessories for radial sliding on balls. A perfect working is obtained eliminating imperfections caused by forced pull.

- FIL MAS SN without clutch.
- The accessories are interchangeable.

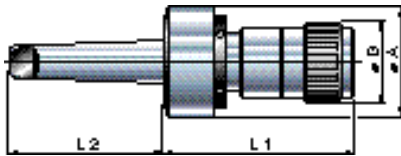

2

NORMAL SET

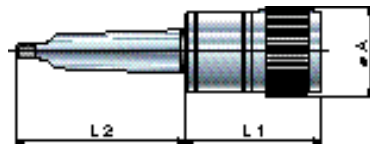
CONFEZIONI STANDARD / STANDARD PACKING					ACCESSORI IN DOTAZIONE / STANDARD ACCESSORIES				
Cono Cone	CODICE SN CODE SN	Capacità Capacity	L. filettatura Thread length	Escursione max. Max. stroke	Bussola porta filiere Die holder bush	Mandrini p. maschi Tap holder spindles	Confezione Packing	Peso / Weight (kg)	
2	312002	M 4 ÷ M 22	145 mm	48 mm	ø 20 301290	ø 4 ÷ 10 301270	cassetta in metallo metal box 301440	4,3	
3	312013				ø 25 301300			4,5	
4	312024				ø 30 301310			4,8	
5	312035				ø 38 301320			5,5	


EXTRA SET

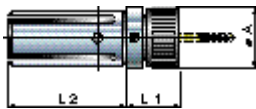
CONFEZIONI STANDARD / STANDARD PACKING					ACCESSORI IN DOTAZIONE / STANDARD ACCESSORIES				
Cono Cone	CODICE SF CODE SF	Capacità Capacity	L. filettatura Thread length	Escursione max. Max. stroke	Bussola porta filiere Die holder bush	Mandrini p. maschi Tap holder spindles	Confezione Packing	Peso / Weight (kg)	
2	312102	M 4 ÷ M 22	145 mm	48 mm	ø 20 301290	ø 4 ÷ 10 301270	cassetta in metallo metal box 301450	9,5	
3	312113				ø 25 301300			ø 10 ÷ 18 301280	9,7
4	312124				ø 30 301310	codolo / tang B16 301251		10	
5	312135				ø 38 301320			11	

Mod. FIL MAS SF


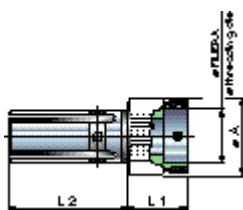
Cono Morse / Taper	CODICE / CODE	L 1	L 2	ø A	ø B	Peso / Weight (kg)
CM2	301202	160	80	82	51	2,3
CM3	301213	160	99	82	51	2,4
CM4	301224	160	124	82	51	2,7
CM5	301235	160	156	82	51	3,5

Mod. FIL MAS SN


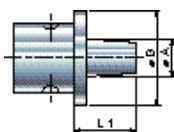
Cono Morse / Taper	CODICE / CODE	L 1	L 2	ø A	Peso / Weight (kg)
CM2	312202	75	80	52	0,7
CM3	312213	75	99	52	0,85
CM4	312224	75	124	52	1,15
CM5	312235	75	156	52	1,85


Mandrini prendi maschi / Top receiver spindles

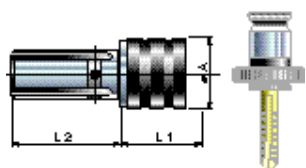
	CODICE / CODE	L 1	L 2	ø A	Peso / Weight (kg)
ø 4 ÷ ø 10	301270	31	65	40	0,4
ø 10 ÷ ø 18	301280	31	65	45	0,45


Bussole portafiliera / Die holder bushes

ø filiera / ø threading die	CODICE / CODE	L 1	L 2	ø A	Peso / Weight (kg)
ø 20 x 7	301290	31	65	45	0,45
ø 25 x 9	301300	31	65	45	0,45
ø 30 x 11	301310	31	65	45	0,4
ø 38 x 14	301320	31	65	50	0,4
ø 45 x 18	301330	31	65	60	0,5
ø 55 x 22	301340	31	65	70	0,55
ø 65 x 18	301350	31	65	80	0,65
ø 65 x 25	301351	70	65	80	1,4

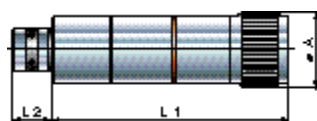

Codolo porta mandrino / Spindle holder tang

Attacco / Connector	CODICE / CODE	L 1	L 2	ø A	Peso / Weight (kg)
B 16	301251	16	40	33	0,3
B 18	301260	18	40	38	0,35


Accessorio prendi bussole per BN - BCF / Bush receiver accessory for BN - BCF

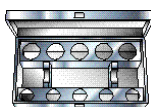
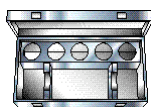
Per bussole / For bushes	CODICE / CODE	L 1	L 2	ø A	Peso / Weight (kg)
Tipo 1 / Type 1 - ø 19	301421	37	65	34	0,35
Tipo 2 / Type 2 - ø 31	301431	46	65	47	0,4

Per le bussole per BN - BCF vedi pag. 36-37 / For bushes for BN - BCF see pages 36-37.

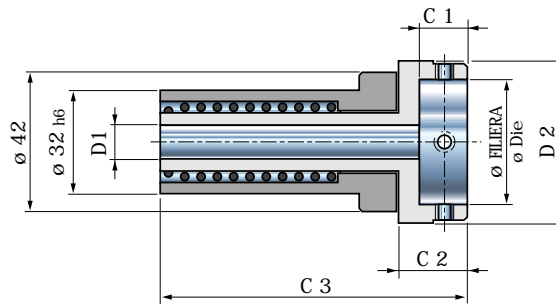
2

Prolunga per filettature lunghe / Extension for long threads

	CODICE / CODE	L 1	L 2	ø A	Peso / Weight (kg)
Prolunga / Extension	301550	167	34	52	1,75

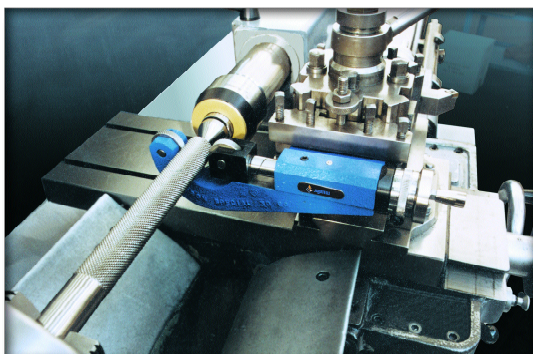
Lunghezza di filettatura fino a M18 --> L310 oltre M18 --> L145
 Thread length up to M18 --> L310 over M18 --> L145

Mod. 144
Mod. 145

Cassette metallo per FIL MAS SF - SN / Metal boxes for FIL MAS SF - SN

	CODICE / CODE	MOD.	Peso / Weight (kg)
Tipo normale 5 fori / Standard model 5 holes	301440	144	1,5
Tipo extra 10 fori / Extra model 10 holes	301450	145	2,5

Mod. PFC


BUSSOLE PORTAFILIERA / Die holder bushes	CWC CWC	CODICE CODE	C 1	C 2	C 3	D 1	D 2	Peso / Weight (Kg)
ø 16		303160	5	16	88	11	28	0,6
ø 20		303200	7	16	88	11	32	0,6
ø 25		303250	9	16	88	11	37	0,6
ø 30		303300	11	16	88	11	42	0,7
ø 38		303380	14	20	92	13	49	0,7
Compensazione in trazione / Compensation in pull mm 20								



Godronatore a ricalco

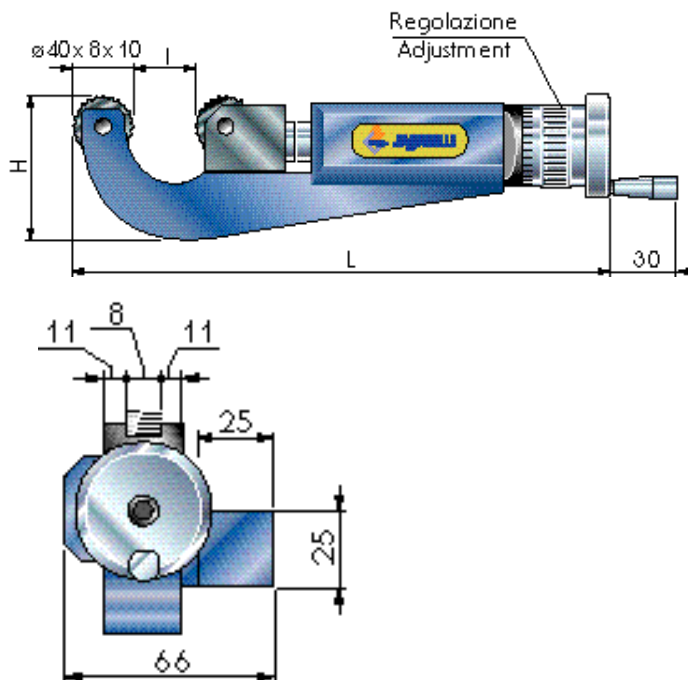
La godronatura eseguita al tornio comporta notevoli difficoltà e rischi: pezzi rovinati dalle griffe dell'autocentrante per il notevole carico, alberi lunghi che flettono, pezzi corti che si sfilano dall'autocentrante... Il più grave è il deteriorarsi della macchina, che lavorando a carico forzato ne subisce notevolmente la testata e la vite del carrello. A tali inconvenienti, fino ad ora insoluti, si può ovviare mediante il nuovo Godron Special.

Tracing knurling device

The knurling carried out with the lathe implies great difficulties and risks: parts damaged by the jaws of the self-centering chuck for the high load, long shafts bending, short parts going out of the self-centering chuck... The most serious problem is the deterioration of the machine: working under forced load the head and screw of the carriage suffer a lot. These problems, up to now unsolved, can be settled with the new Special Godron.

Mod. 19

CODICE CODE	H	L	Ø di esecuzione Ø of execution	Peso (Kg) Weight (Kg)
601900	72	267	Da / From Ø 1 a / up to Ø 30 mm	4,0
601910	88	297	Da / From Ø 30 a / up to Ø 60 mm	4,4
601920	102	326	Da / From Ø 60 a / up to Ø 90 mm	4,9



Si eseguono godronatori speciali fino a Ø 500.
Special knurling devices up to Ø 500 can be carried out.

I godronatori sono forniti senza rondelle godronatrici (vedi pagina 45).
The knurling devices are supplied without knurling washers (see page 45).

Caratteristiche tecniche

- ◆ Avendo due rulli contrapposti il **carico radiale è completamente assorbito dal dispositivo**.
- ◆ Godrona qualsiasi pezzo, corto o lungo, di vario diametro con precisione.
- ◆ È di notevole robustezza e temperato nelle parti sottoposte a usura.
- ◆ È di facile montaggio: basta stringerlo come un normale utensile da taglio alla torretta.
- ◆ Ogni modello di Godron ha una corsa di 30 mm azzerabile tramite un nonio graduato.

Technical features

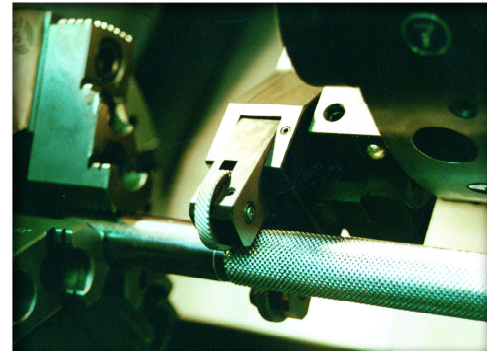
- ◆ **The radial load is completely absorbed by the device** because of the two opposite rollers.
- ◆ It knurls any short or long part of different diameter with precision.
- ◆ It is strong and hardened in the parts subject to wear.
- ◆ It can be easily assembled. It should be tightened to the turret as a standard cutting tool.
- ◆ Each Godron model has a stroke of mm 30 which can be zeroed with a graduated nonius.

Godronatore a deformazione

Anche sul CNC abbiamo, mediante il nuovo CN/MAG, migliorato notevolmente il sistema di godronatura. Può eseguire godronature con estrema precisione in tempi ridotti, senza recare pressione alcuna in quanto lavora con due rulli contrapposti che permettono di far assorbire completamente la forza radiale della lavorazione al dispositivo. È costruito in due modelli con versione destra e sinistra. Ampio campo di lavoro con bracci normali da $\varnothing 10$ a $\varnothing 40$, sullo stesso corpo si possono montare altri 2 bracci speciali per godronatura da $\varnothing 40$ a $\varnothing 70$.

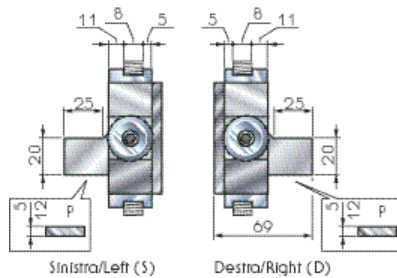
Deformation knurling device

We have improved the knurling system very much with the new CN/MAG also on CNC. It can carry out knurls with great exactness in reduced times, without pressure because it works with two opposite rollers which allow the device to absorb all the radial force of the working. It is manufactured in two models with right and left version. Big work range with standard arms from $\varnothing 10$ to $\varnothing 40$. On the same body other 2 special arms for knurling can be assembled from $\varnothing 40$ to $\varnothing 70$.


3

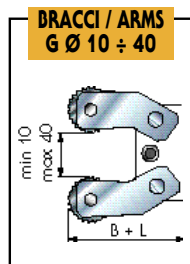
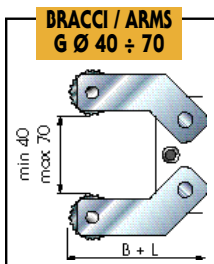
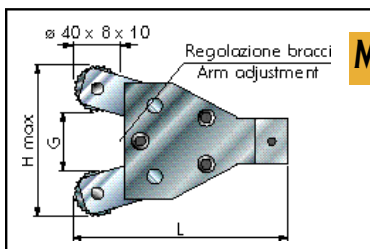
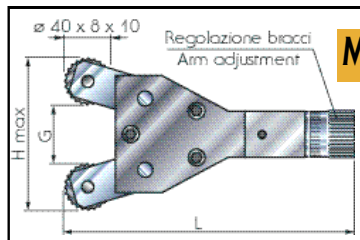
I godronatori sono forniti senza rondelle godronatrici (vedi pagina 45).

The knurling devices are supplied without knurling washers (see page 45).



Adattatore per portautensili a serraggio frontale, per godronatori Mod. 193-293.

Tool-holder adapter for front clamping, suitable for knurling devices Mod. 193-293.

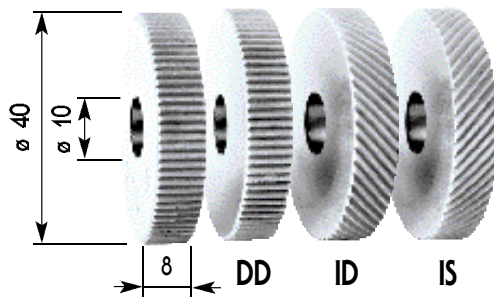



CODICE CODE	H	L	G ø di esecuzione ø of execution	Peso (Kg) Weight (Kg)
601930/D	120	237	$\varnothing 10 \div \varnothing 40$ mm	4,0
601930/S	120	237	$\varnothing 10 \div \varnothing 40$ mm	4,0
601931	Spessore / Thickness 5 mm			
601932	Spessore / Thickness 12 mm			


CODICE CODE	H	L	G ø di esecuzione ø of execution	Peso (Kg) Weight (Kg)
602931/D	120	175	$\varnothing 10 \div \varnothing 40$ mm	4,0
602931/S	120	175	$\varnothing 10 \div \varnothing 40$ mm	4,0
601931	Spessore / Thickness 5 mm			
601932	Spessore / Thickness 12 mm			


BRACCI / Arms

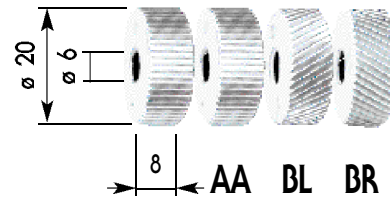
CODICE CODE	B	G ø di esecuzione ø of execution	Peso (Kg) Weight (Kg)	Per For
602940	15 + L	$\varnothing 40 \div \varnothing 70$ mm	1,0	Mod. 193
603940	0 + L	$\varnothing 10 \div \varnothing 40$ mm	0,8	
604940	15 + L	$\varnothing 40 \div \varnothing 70$ mm	1,0	Mod. 293
605940	0 + L	$\varnothing 10 \div \varnothing 40$ mm	0,8	





DENTE DRITTO / Straight Tooth DD			
	CODICE / CODE		Passo / Pitch
	501920	DD	0,3
	501930	DD	0,5
	501940	DD	0,8
	501950	DD	1,00
	501960	DD	1,25
	501970	DD	1,50
	501980	DD	2,00


DENTE INCROCIATO / Crossed Tooth ID			
	CODICE / CODE		Passo / Pitch
	501931	ID	0,5
	501941	ID	0,8
	501951	ID	1,00
	501961	ID	1,25
	501971	ID	1,50
	501981	ID	2,00

DENTE INCROCIATO / Crossed Tooth IS			
	CODICE / CODE		Passo / Pitch
	501932	IS	0,5
	501942	IS	0,8
	501952	IS	1,00
	501962	IS	1,25
	501972	IS	1,50
	501982	IS	2,00










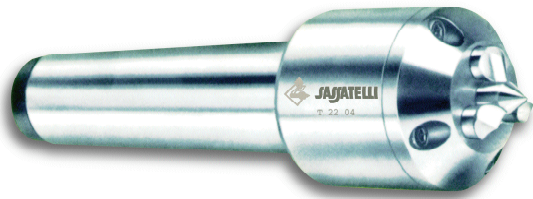
DENTE DRITTO / Straight Tooth AA			
	CODICE / CODE		Passo / Pitch
	510300	AA	0,3
	510500	AA	0,5
	510700	AA	0,7
	510800	AA	0,8
	511000	AA	1,00
	511200	AA	1,20

DENTE INCROCIATO / Crossed Tooth BL			
	CODICE / CODE		Passo / Pitch
	510301	BL	0,3
	510501	BL	0,5
	510701	BL	0,7
	510801	BL	0,8
	511001	BL	1,00
	511201	BL	1,20

DENTE INCROCIATO / Crossed Tooth BR			
	CODICE / CODE		Passo / Pitch
	510302	BR	0,3
	510502	BR	0,5
	510702	BR	0,7
	510802	BR	0,8
	511002	BR	1,00
	511202	BR	1,20

A richiesta si eseguono godroni speciali / Special knurls can be carried out on request.

RICAMBI PER GODRONATORI / Spare Parts				
401990		Spine ricambio / Spare pins	Mod. 19	ø 10 x 30
402000		Spine ricambio con lubrificazione / Spare pins with lubrication	Mod. 19	ø 10 x 30
402010		Spine ricambio con lubrificazione / Spare pins with lubrication	Mod. G193- G293	ø 10 x 24
604200		Spina ricambio / Spare pin	Mod. G420	ø 10 x 20
604250		Spina ricambio / Spare pin	Mod. G425	ø 10 x 25
603001		Spina ricambio / Spare pin	Mod. G189- G300	ø 6 x 15
6043001		Spina ricambio / Spare pin	Mod. G430	ø 6 x 20



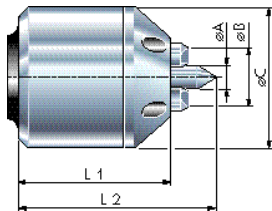
Caratteristiche tecniche

- ◆ L'aurobilanciamento degli artigli permette la lavorazione di superfici non perpendicolari.
- ◆ Il profilo studiato permette all'utensile l'entrata in lavorazione in entrambi i sensi.
- ◆ Costruiti in acciai scelti, trattati e rettificati.

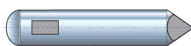


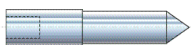



Technical features

- ◆ The self-balancing of the jaws allows to work not perpendicular surfaces.
- ◆ The studied profile permits the tool to be worked in both directions.
- ◆ Manufactured with treated and ground steels of top quality.

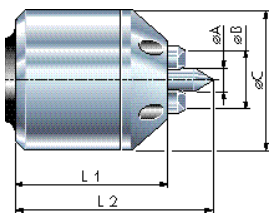
Mod. 12



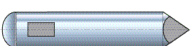






CODICE CODE	CAMPO D'IMPIEGO / Field of application			MISURE ESTERNE / Outer dimensions					
	ø Min.	ø Max	Cono Cone	ø A	ø B	ø C	L 1	L 2	Peso Weight (Kg)
201200	12	25	ø 30x65	8	20	48	52	67	0,9
231200	12	25	3	8	20	48	52	67	0,9
241200	12	25	4	8	20	48	52	67	1,2

ARTIGLI RICAMBIO / Spare jaws						PUNTA / Centre	
							
CODICE CODE	Rot. Neutra	CODICE CODE	Rot. SX / Left	CODICE CODE	Rot. DX / Right	CODICE CODE	
211201		211202		211203		211207	

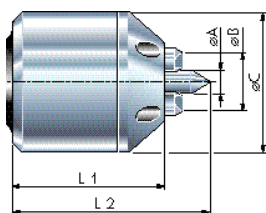
Mod. 22






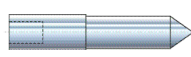




CODICE CODE	CAMPO D'IMPIEGO / Field of application			MISURE ESTERNE / Outer dimensions					
	ø Min.	ø Max	Cono Cone	ø A	ø B	ø C	L 1	L 2	Peso Weight (Kg)
202200	22	47	ø 30x65	12	30	62	64	86	1,5
232200	22	47	3	12	30	62	64	86	1,5
242200	22	47	4	12	30	62	64	86	2,7
252200	22	47	5	12	30	62	64	86	3,9

ARTIGLI RICAMBIO / Spare jaws						PUNTA / Centre	
							
CODICE CODE	Rot. Neutra	CODICE CODE	Rot. SX / Left	CODICE CODE	Rot. DX / Right	CODICE CODE	
212201		212202		212203		212207	

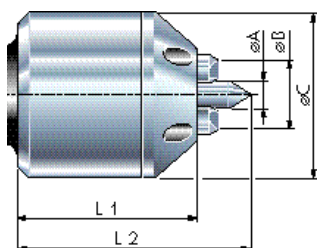
Mod. 42



CODICE CODE	CAMPO D'IMPIEGO / Field of application			MISURE ESTERNE / Outer dimensions					
	ø Min.	ø Max	Cono Cone	ø A	ø B	ø C	L 1	L 2	Peso Weight (Kg)
244200	40	70	4	18	41	87	95	125	4,3
254200	40	70	5	18	41	87	95	125	5,3
264200	40	70	6	18	41	87	95	125	7,8

ARTIGLI RICAMBIO / Spare jaws						PUNTA / Centre		PUNTA SP. / Sp. centre	
									
CODICE CODE	Rot. Neutra	CODICE CODE	Rot. SX / Left	CODICE CODE	Rot. DX / Right	CODICE CODE	CODICE CODE	L	ø
214201		214202		214203		214207	214208	15	30

Mod. 65



CODICE CODE	CAMPO D'IMPIEGO / Field of application				MISURE ESTERNE / Outer dimensions					
	Art. Art.	ø Min.	ø Max	Cono Cone	ø A	ø B	ø C	L 1	L 2	Peso Weight (Kg)
246500	65 - 04	57	90	4	23	57	109	100	140	7,0
256500	65 - 05	57	90	5	23	57	109	100	140	8,2
266500	65 - 06	57	90	6	23	57	109	100	140	9,5





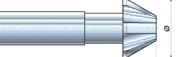



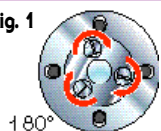
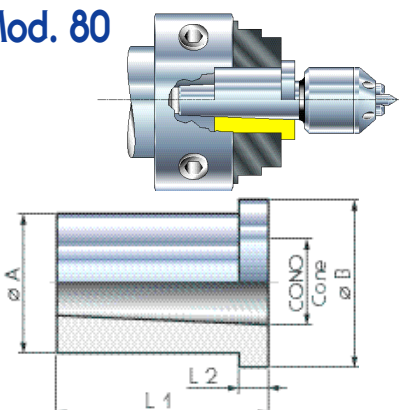
ARTIGLI RICAMBIO / Spare jaws						PUNTA / Centre		PUNTA SP. / Sp. centre	
									
CODICE CODE	Rot. Neutra	CODICE CODE	Rot. SX / Left	CODICE CODE	Rot. DX / Right	CODICE CODE	CODICE CODE	L	ø
216501		216502		216503		216507	216508	22	44

Fig. 1



- Il trascinatore è fornito di serie con artigli ON.
- Ruotando l'artiglio ON di 180° si aumenta il ø max tornibile fino a un 20% (vedi Fig. 1).
- The driving centre is currently equipped with ON jaws.
- Rotating the ON jaw of 180° the max. ø, which can be turned, is increased up to 20% (see Fig. 1).

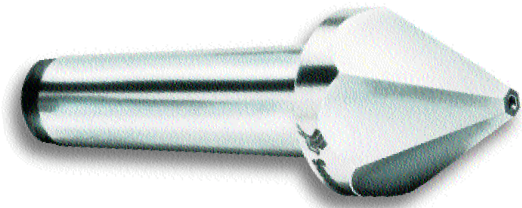
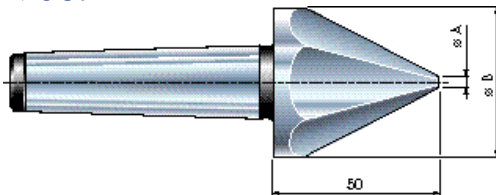
Mod. 80



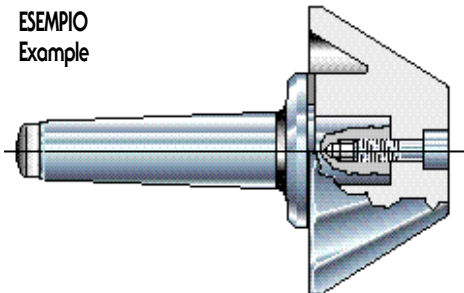
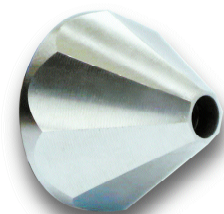
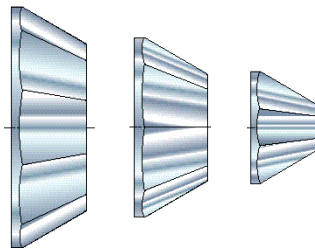
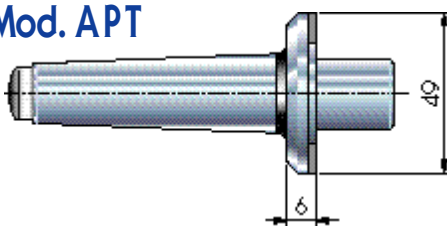
BUSSOLA CONICA / Conic bush

Bussola speciale per consentire la presa dei trascinatori conici direttamente sull'autocentrante
Special bush for direct mesh of the conic driving centres on the self-centering chuck

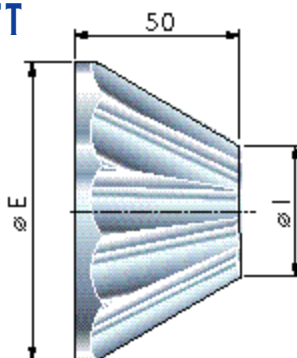
CODICE / CODE	Cono / Cone	L 1	L 2	Ø A	Ø B	Peso / Weight (Kg)
238003	C 3	65	8	35	44	0,3
238014	C 4	70	8	42	49	0,45
238025	C 5	80	10	54	59	0,6
238036	C 6	85	10	75	84	0,75

TRASCINATORE PER TUBI
CON TESTINA INTEGRALE IN HSS
Pipe driving centre with integral head in HSS

Mod. TFT


CODICE / CODE	Cono / Cone	ø A	ø B	Peso / Weight (Kg)
221200	2	8	48	0,5
231300	3	8	48	0,7
241400	4	8	48	1,0
251500	5	8	48	1,9
201600	ø 30x50	8	48	0,8

ESEMPIO
Example

TRASCINATORE PER TUBI CON TESTINA
INTERCAMBIABILE IN HSS
Pipe driving centre with
interchangeable
head in HSS

4
Mod. APT

ATTACCO PORTA TESTINA TRASCINAMENTO
Driving head holder coupling

CODICE / CODE	231301	241401	251501	261601	201701
Cono / Cone	3	4	5	6	ø 40 x 60
Peso / Weight (Kg)	0,5	0,7	1,6	2,3	0,5

Mod. TT

TESTINE DI TRASCINAMENTO / Driving heads

CODICE / CODE	ø I	ø E	Peso / Weight (Kg)
201318	18	68	1,6
201365	63	113	2,1
201311	108	158	3,7
201315	150	200	6,2
201320	195	245	9,0

- Confezione per set completo: cassetta in legno.
- A richiesta altri ø di trascinatori.
- Packing for complete set: wooden box.
- Other driving centres ø on request.

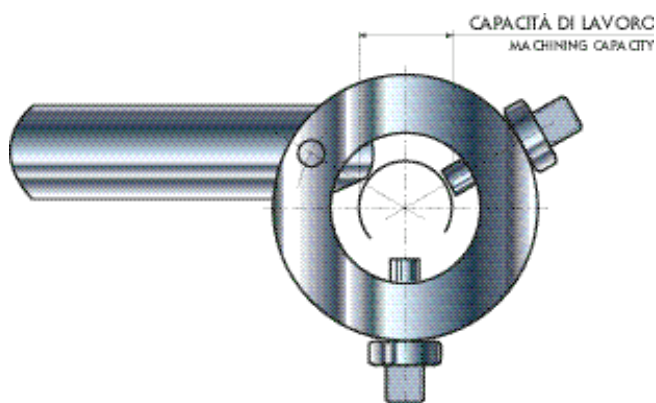
Le bride di trascinamento a bloccaggio rapido servono per il trascinamento del pezzo da lavorare quando è fissato fra le due punte.

Il loro impiego risulta molto vantaggioso nelle lavorazioni di rettifica in serie. Infatti con la loro rapidità di apertura e di chiusura si riduce notevolmente il tempo di sostituzione del pezzo in macchina, con conseguenti risparmi economici.

The fast-clamp driving dogs are used to pull the workpiece when it is fixed between two drills.

They are highly useful in mass grinding processes.

In fact, their high-speed opening and closing allows a significant reduction in the time necessary for changing the piece on the machine tool, which also means cost savings.



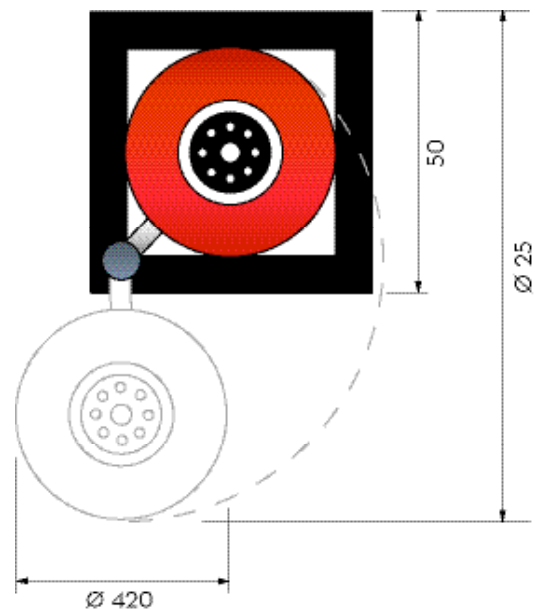
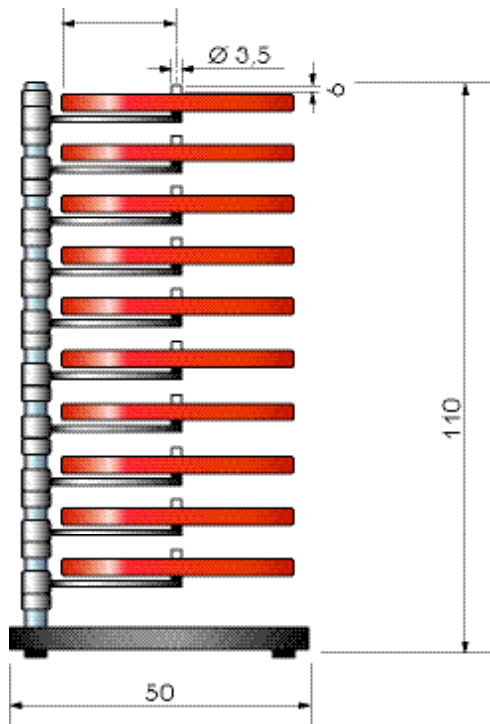
CODICE CODE	CAPACITÀ DI LAVORO MACHINING CAPACITY	Peso (Kg) Weight (Kg)
001008	00 ÷ 08	0,07
001016	08 ÷ 16	0,13
001024	16 ÷ 24	0,2
001032	24 ÷ 32	0,22
001040	32 ÷ 40	0,36
001048	40 ÷ 48	0,5
001056	48 ÷ 56	0,66
001064	56 ÷ 64	0,71
001072	64 ÷ 72	0,77
001080	72 ÷ 80	0,83
001090	80 ÷ 90	1,1
001100	90 ÷ 100	1,2
001110	100 ÷ 110	1,3
001120	110 ÷ 120	1,35

RICAMBI: sono disponibili come ricambi delle bride la LEVA e la MOLLA. Nell'ordine citare il tipo di articolo.

SPARE PARTS: LEVERS and SPRINGS are available as spare parts. Specify the type of item when ordering.

Sistema per lo stoccaggio delle mole per rettifica di qualunque tipo e spessore, fino ad un diametro di \varnothing 420 mm. Studiato per garantire l'estrema praticità di utilizzo con il minimo ingombro, unisce flessibilità e modularità.

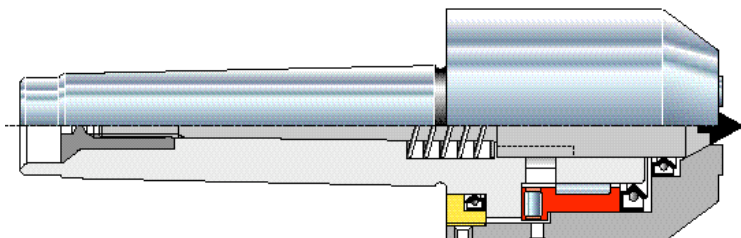
System for storing grinding wheels of every type and thickness, up to a diameter of \varnothing 420 mm. Designed to guarantee extreme practicality in highly compact dimensions, it combines flexibility and modularity.


5

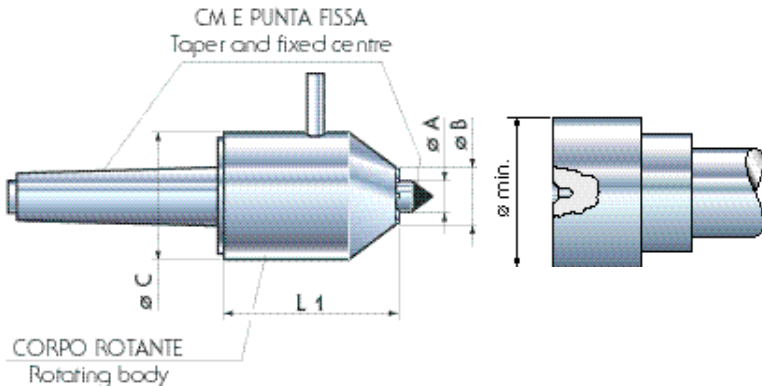
INGOMBRO OVERALL DIMENSIONS	50x50 - h 110
NR. SUPPORTI IN DOTAZIONE NO. OF SUPPORTS PROVIDED	10
PESO MAX PER SUPPORTI MAX WEIGHT PER SUPPORT	kg 17
PESO MAX TOTALE MAX TOTAL WEIGHT	kg 170
PESO A VUOTO CON 10 SUPPORTI WEIGHT WHEN EMPTY WITH 10 SUPPORTS	kg 30

Attrezzo indispensabile per lavorazioni di alberi dove sia necessario eseguire la rettifica delle battute di rasamento. Anche in presenza di notevoli differenze della profondità di centratura, il sistema di autoregolazione della punta di RT 2000 permette di avere sempre un preciso punto di riferimento (errore max $\pm 0,005$ mm) garantendo ripetitività e rapidità d'esecuzione.

It is a fundamental tool for working shafts where the grinding of shim stops should be carried out. Even if there are great differences in the centering depth, the self-adjusting system of the RT 2000 centre allows to always have an exact reference point (max. error $\pm 0,005$ mm) ensuring repetitiveness and quickness of execution.



Mod. RT 2000

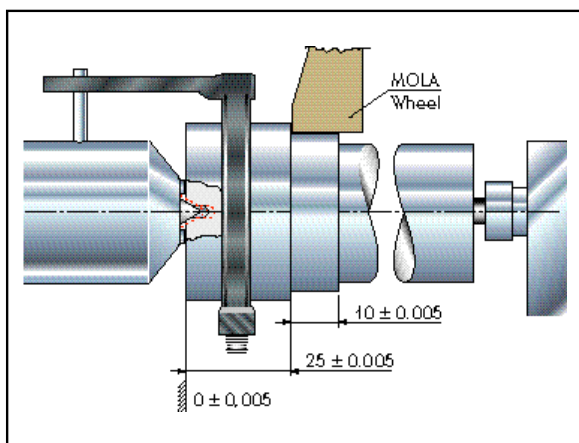


Cono Morse / Taper	4	5
CODICE / CODE	720004	720005
ø A (mm)	8	12
ø B (mm)	30	40
ø C (mm)	59	69
ø L 1 (mm)	70	80
ø min (mm)	10	15
Peso / Weight (Kg)	1,8	2,0

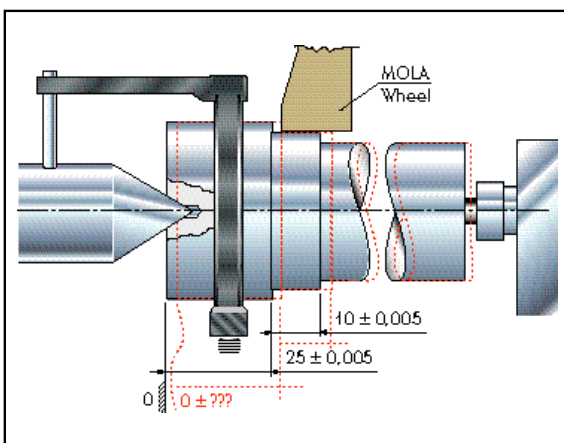
Altri ø e CM a richiesta.
Different ø and CM on request.

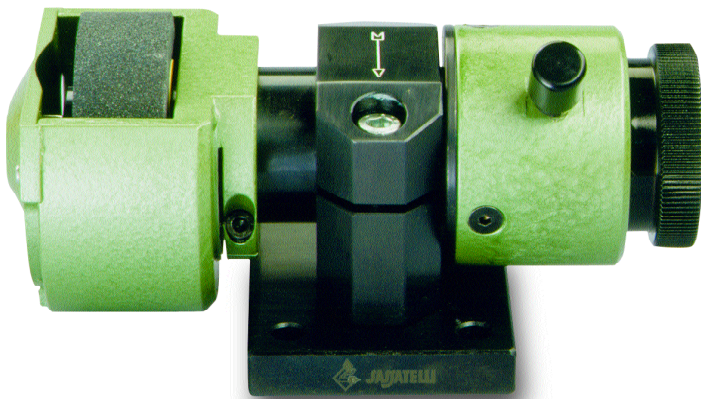
ESEMPIO DI ESECUZIONE / Example of execution

RETTIFICA CON SISTEMA RT 2000
Grinding with RT 2000 system



RETTIFICA CON SISTEMA CONVENZIONALE
Grinding with conventional system





È un attrezzo appositamente realizzato per la ravvivatura di mole diamantate e Borazon.

È disponibile in due versioni:

- con orientamento su un asse (Cod. 100000);
- con orientamento su due assi (Cod. 110000).

È studiato per essere di facile utilizzo e con la massima protezione antinfortunistica.

It is a tool especially manufactured for dressing diamond and borazon grinding wheels.

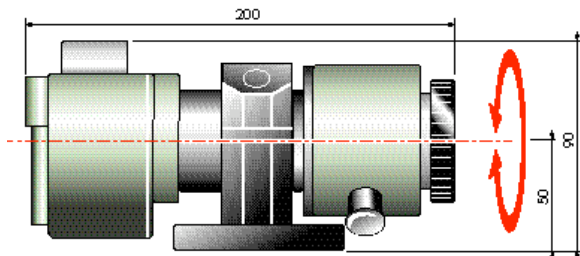
It is available in two models:

- with orientation on one axis (Code 100000);
- with orientation on two axes (Code 110000).

It is studied for being easily used and with maximum accident protection.

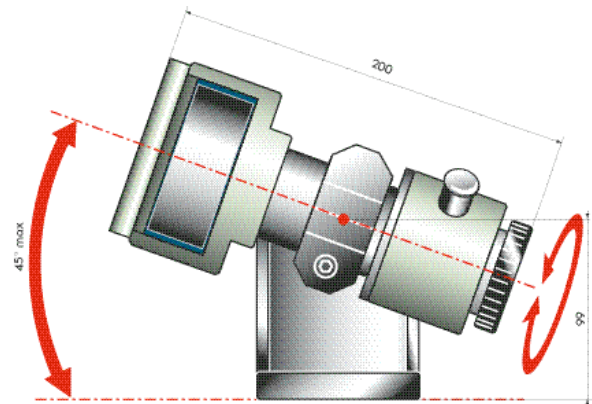
Mod. 100000

CODICE CODE	Versione Version	Peso (Kg) Weight (Kg)
100000	orientabile su 1 asse adjustable on 1 axis	5,0

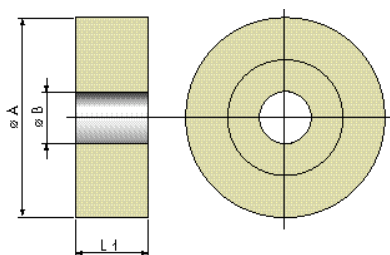


Mod. 110000

CODICE CODE	Versione Version	Peso (Kg) Weight (Kg)
110000	orientabile su 2 assi adjustable on 2 axes	6,8

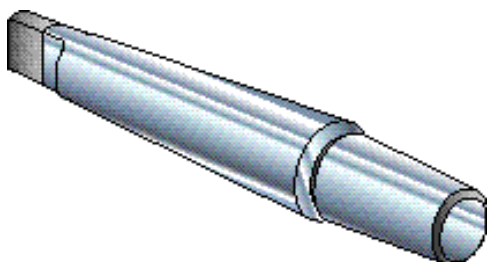
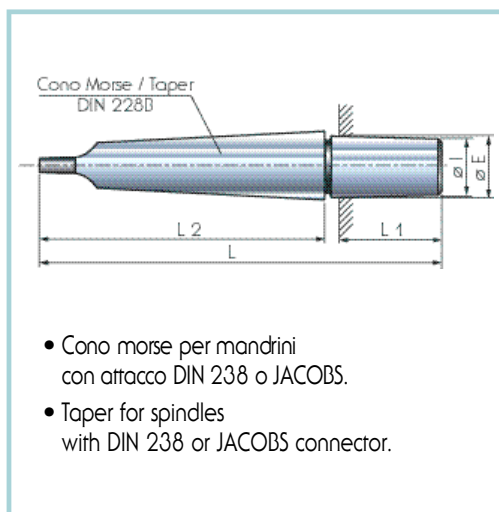


Mod. 100001

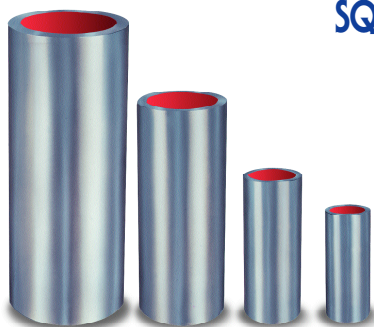


Mola abrasiva di ricambio
Sparelapping wheel

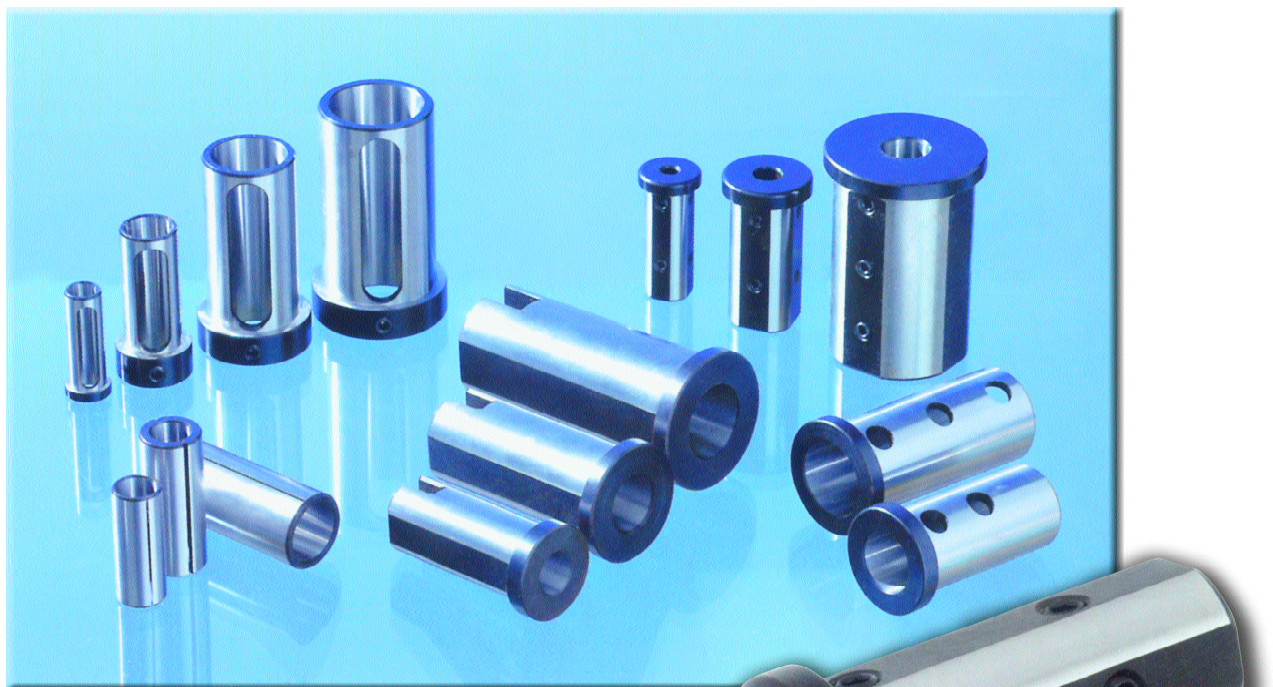
CODICE CODE	Versione Version	L1	$\varnothing A$	$\varnothing B$	Peso (Kg) Weight (Kg)
100001	Mola / Wheel	25	76	12,7	0,2

**ATTACCHI CONICI PER MANDRINI
TEMPERATI E RETTIFICATI**
**Conical, hardened and rectified
connectors for spindles**

Mod. ACM


Cono Morse Taper	Cono Cone	CODICE CODE	L (mm)	L 2 (mm)	ø E (mm)	ø I (mm)	L 1 (mm)
1	DIN B 10	711100	83	65,5	10,094	9,4	14,5
	DIN B 12	711120	89	65,5	12,065	11,1	18,5
	DIN B 16	711160	99	65,5	15,733	14,5	24,0
	DIN B 18	711180	99	65,5	17,780	16,2	32,0
	JACOBS 1	711011	86	65,5	9,754	8,468	16,67
	JACOBS 2	711021	92	65,5	14,2	12,39	22,23
	JACOBS 3	711031	102	65,5	20,6	18,95	30,96
	JACOBS 6	711061	96	65,5	17,17	15,85	25,4
2	DIN B 10	722100	105	80	10,094	9,4	14,5
	DIN B 12	722120	106	80	12,065	11,1	18,5
	DIN B 16	722160	112	80	15,733	14,5	24,0
	DIN B 18	722180	119	80	17,780	16,2	32,0
	DIN B 22	722220	130	80	21,793	19,8	40,5
	JACOBS 1	722011	101	80	9,754	8,468	16,67
	JACOBS 2	722021	107	80	14,2	12,39	22,23
	JACOBS 6	722031	117	80	20,6	18,95	30,96
	JACOBS 6	722061	111	80	17,17	15,85	25,4
	JACOBS 33	722331	112	80	15,85	14,24	25,4
3	DIN B 12	733120	125	99	12,065	11,1	18,5
	DIN B 16	733160	134	99	15,733	14,5	24,0
	DIN B 18	733180	140	99	17,780	16,2	32,0
	DIN B 22	733220	147	99	21,793	19,8	40,5
	DIN B 24	733240	157	99	23,825	21,3	50,5
	JACOBS 1	733011	125	99	9,754	8,468	16,67
	JACOBS 2	733021	126	99	14,20	12,39	22,25
	JACOBS 3	733031	136	99	20,6	18,95	30,96
	JACOBS 4	733041	147	99	28,55	26,35	42,07
	JACOBS 6	733061	130	99	17,17	15,85	25,4
	JACOBS 33	733331	130	99	15,85	14,24	25,4
	4	DIN B 16	744160	156	124	15,733	14,5
DIN B 18		744180	164	124	17,780	16,2	32,0
DIN B 22		744220	176	124	21,793	19,8	40,5
DIN B 24		744240	186	124	23,825	21,3	50,5
JACOBS 3		744031	162	124	20,6	18,95	30,96
JACOBS 4		744041	173	124	28,55	26,35	42,07
JACOBS 6		744061	156	124	17,17	15,85	24,5
5		DIN B 16	755160	198	156	15,733	14,5
	DIN B 18	755180	198	156	17,780	16,2	32,0
	DIN B 22	755220	207	156	21,793	19,8	40,5
	DIN B 24	755240	217	156	23,825	21,3	50,5

5
SQUADRO CILINDRICO DI PRECISIONE TEMPERATO E RETTIFICATO
HARDENED AND RECTIFIED Cylindrical precision square

Mod. SCP

CODICE / CODE	761010	761115	761220	761330	761440
L (mm)	100	150	200	300	400
ø A (mm)	50	60	70	80	90



Le bussole di riduzione con battuta consentono il fissaggio di bareni o punte con codolo cilindrico o a cono morse su portautensili di macchine a controllo numerico.

Sono disponibili 4 tipologie di fissaggio:

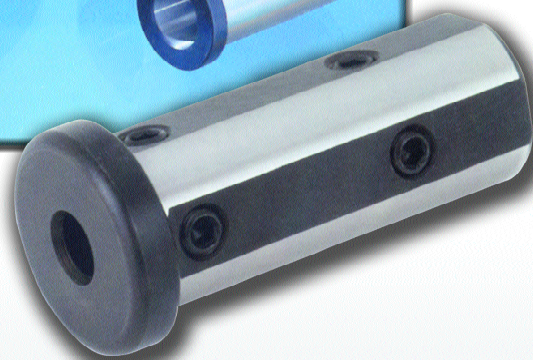
- 1- bussola cilindrica con fissaggio dell'utensile con grani
- 2- bussola cilindrica asolata a fissaggio diretto dell'utensile
- 3- bussola con attacco cono Morse
- 4- bussola cilindrica elastica

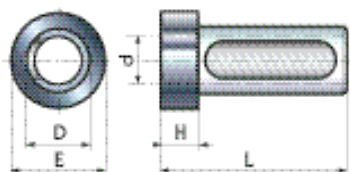
Per ogni tipo sono previste diverse grandezze formando così una gamma completa che può soddisfare le più svariate esigenze.

The reduction bushes with flanges allow boring bars or drills with a cylindrical shaft or clamp cone to be fixed to the toolholders of numerically controlled machine tools.

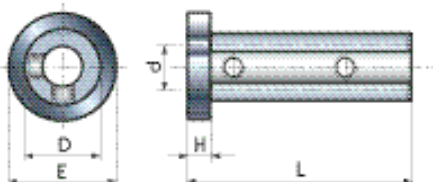
The following four different types of bushes are available:

- 1 - Cylindrical bush to be fixed to tool by dowels
- 2 - Slotted cylindrical bush to be directly fastened to tool
- 3 - Bush with taper
- 4 - Elastic cylindrical bush

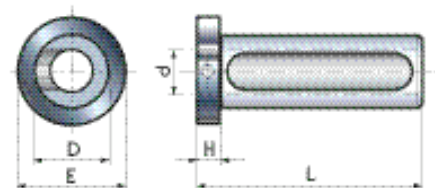


Mod. BCL 16


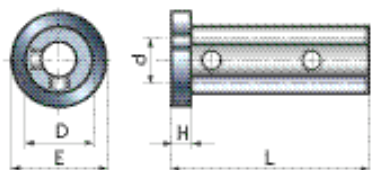
CODICE / CODE	D	d	L	H	E
001601	16	6	50	5	20
001602	16	8	50	5	20
001603	16	10	50	5	20
001604	16	12	50	5	20

Mod. BCL 19,05 (3/4")


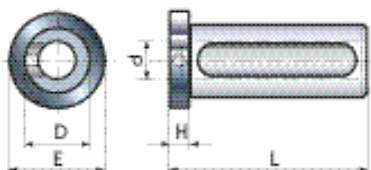
CODICE / CODE	D	d	L	H	E
001951	19,05	6	60	6	27
001952	19,05	8	60	6	27
001953	19,05	10	60	6	27



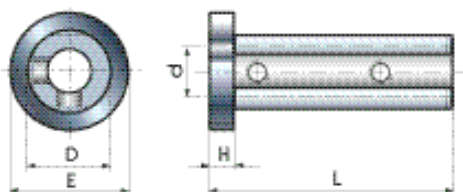
CODICE / CODE	D	d	L	H	E
001954	19,05	12	60	10	27
001955	19,05	14	60	10	27
001956	19,05	16	60	10	27

Mod. BCL 20


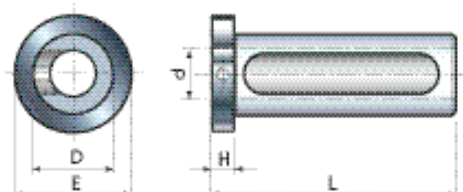
CODICE / CODE	D	d	L	H	E
002001	20	6	60	6	27
002002	20	8	60	6	27
002003	20	10	60	6	27



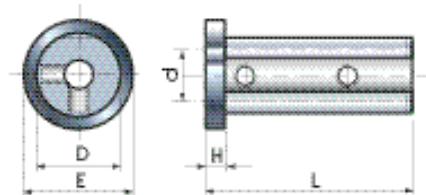
CODICE / CODE	D	d	L	H	E
002004	20	12	60	10	27
002005	20	14	60	10	27
002006	20	16	60	10	27

Mod. BCL 22


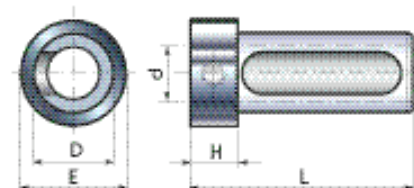
CODICE / CODE	D	d	L	H	E
002201	22	6	60	6	28
002202	22	8	60	6	28
002203	22	10	60	6	28



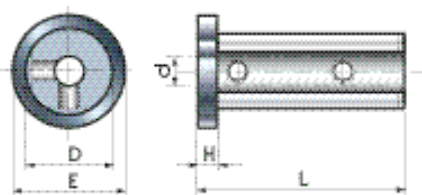
CODICE / CODE	D	d	L	H	E
002204	22	12	60	6	28
002205	22	14	60	6	28
002206	22	16	60	6	28

Mod. BCL 25


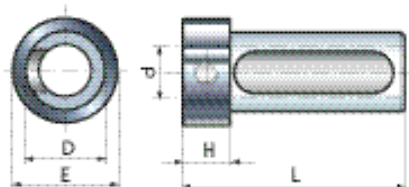
CODICE / CODE	D	d	L	H	E
002501	25	6	60	6	33
002502	25	8	60	6	33
002503	25	10	60	6	33
002504	25	12	60	6	33



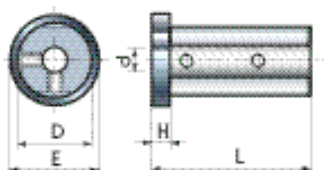
CODICE / CODE	D	d	L	H	E
002505	25	14	70	13	33
002506	25	16	70	13	33
002507	25	18	70	13	33
002508	25	20	70	13	33

Mod. BCL 25,4 (1")


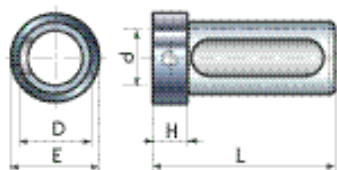
CODICE / CODE	D	d	L	H	E
002541	25,40	6	60	6	33
002542	25,40	8	60	6	33
002543	25,40	10	60	6	33
002544	25,40	12	60	6	33



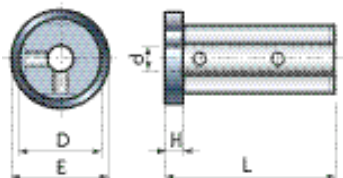
CODICE / CODE	D	d	L	H	E
002545	25,40	14	70	13	33
002546	25,40	16	70	13	33
002547	25,40	18	70	13	33
002548	25,40	20	70	13	33

Mod. BCL 31,75 (1-1/4")


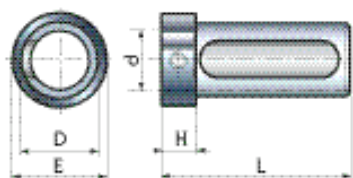
CODICE / CODE	D	d	L	H	E
003171	31,75	6	60	6	39
003172	31,75	8	70	8	39
003173	31,75	10	70	8	39
003174	31,75	12	70	8	39
003175	31,75	14	70	8	39
003176	31,75	16	70	8	39
003177	31,75	18	70	8	39
003178	31,75	20	70	8	39



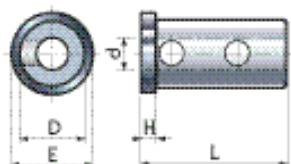
CODICE / CODE	D	d	L	H	E
003179	31,75	25	80	15	39

Mod. BCL 32


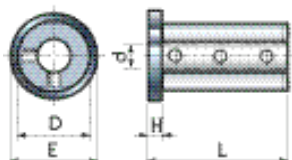
CODICE / CODE	D	d	L	H	E
003201	32	6	60	6	39
003202	32	8	70	8	39
003203	32	10	70	8	39
003204	32	12	70	8	39
003205	32	14	70	8	39
003206	32	16	70	8	39
003207	32	18	70	8	39
003208	32	20	70	8	39



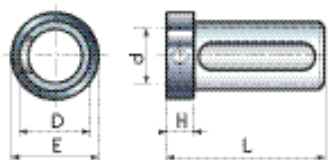
CODICE / CODE	D	d	L	H	E
003209	32	25	80	15	39

Mod. BCL 35


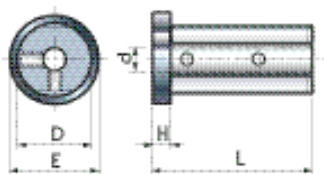
CODICE / CODE	D	d	L	H	E
003501	35	8	80	8	44
003502	35	10	80	8	44
003503	35	12	80	8	44
003504	35	16	80	8	44
003505	35	20	80	8	44
003506	35	25	80	8	44
003507	35	32	80	8	44

Mod. BCL 40


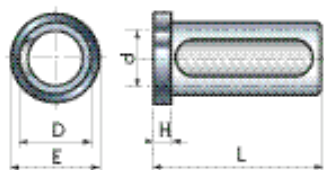
CODICE / CODE	D	d	L	H	E
004000	40	6	60	6	49
004001	40	8	80	8	49
004002	40	10	80	8	49
004003	40	12	80	8	49
004004	40	14	80	8	49
004005	40	16	80	8	49
004006	40	18	80	8	49
004007	40	20	80	8	49
004008	40	25	80	8	49



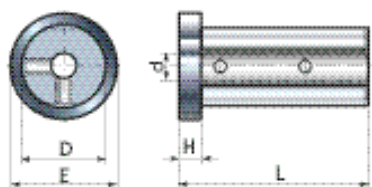
CODICE / CODE	D	d	L	H	E
004009	40	32	90	15	49

Mod. BCL 45


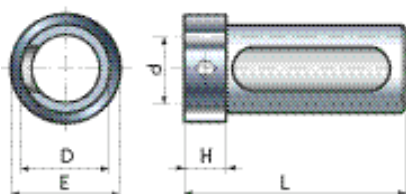
CODICE / CODE	D	d	L	H	E
004501	45	8	80	8	54
004502	45	10	80	8	54
004503	45	12	80	8	54
004504	45	16	80	8	54
004505	45	20	80	8	54
004506	45	25	80	8	54



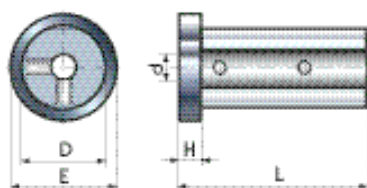
CODICE / CODE	D	d	L	H	E
004507	45	32	80	8	54
004508	45	40	80	8	54

Mod. BCL 50


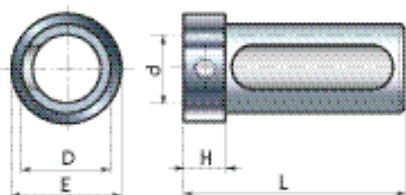
CODICE / CODE	D	d	L	H	E
005000	50	8	90	8	59
005001	50	10	90	8	59
005002	50	12	90	8	59
005003	50	14	90	8	59
005004	50	16	90	8	59
005005	50	18	90	8	59
005006	50	20	90	8	59
005007	50	25	90	8	59
005008	50	32	90	8	59



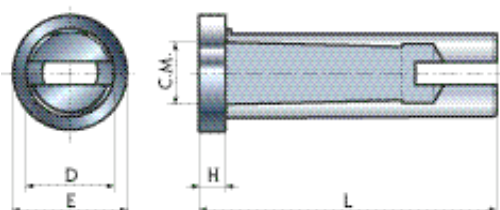
CODICE / CODE	D	d	L	H	E
005009	50	40	100	15	59

Mod. BCL 60


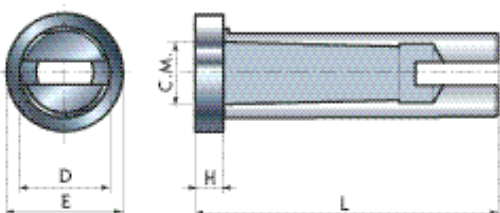
CODICE / CODE	D	d	L	H	E
006001	60	12	97	8	69
006002	60	16	97	8	69
006003	60	20	97	8	69
006004	60	25	97	8	69
006005	60	32	97	8	69



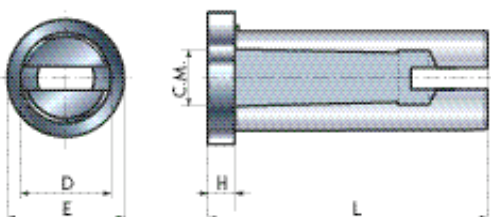
CODICE / CODE	D	d	L	H	E
006006	60	40	97	8	69
006007	60	50	97	8	69

Mod. BCC 25


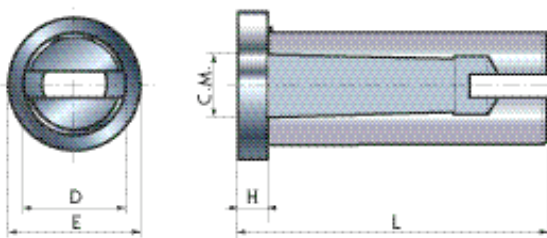
CODICE / CODE	D	CM	L	H	E
012501	25	1	65	6	33
022502	25	2	78	8	33

Mod. BCC 25,4 (1")


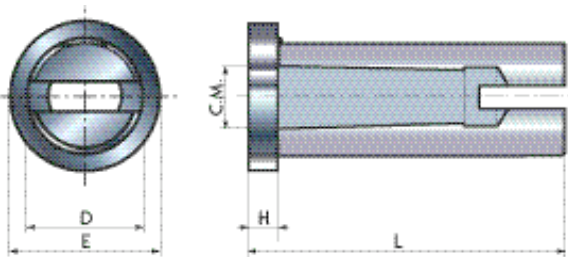
CODICE / CODE	D	CM	L	H	E
012541	25,40	1	65	6	33
022542	25,40	2	78	8	33

Mod. BCC 31,75 (1-1/4")


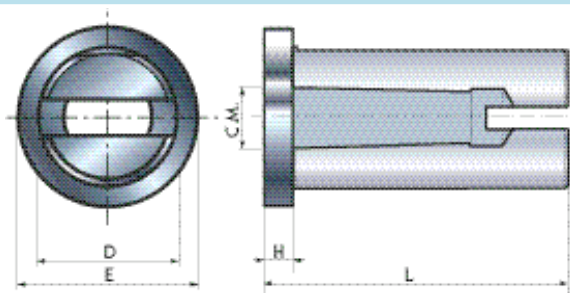
CODICE / CODE	D	CM	L	H	E
013571	31,75	1	65	6	39
023572	31,75	2	78	8	39
033573	31,75	3	97	8	39

Mod. BCC 32


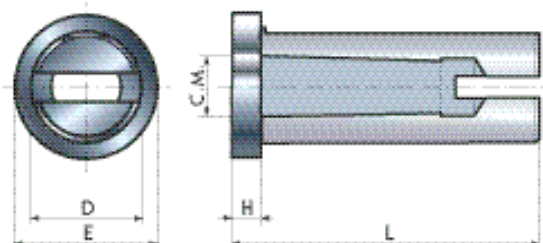
CODICE / CODE	D	CM	L	H	E
013201	32	1	65	6	39
023202	32	2	78	8	39
023203	32	3	97	8	39

Mod. BCC 35


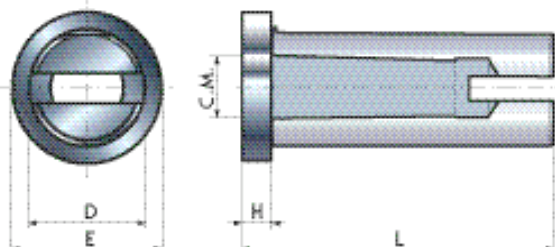
CODICE / CODE	D	CM	L	H	E
013501	35	1	65	6	44
023502	35	2	78	8	44
023503	35	3	97	8	44

Mod. BCC 40


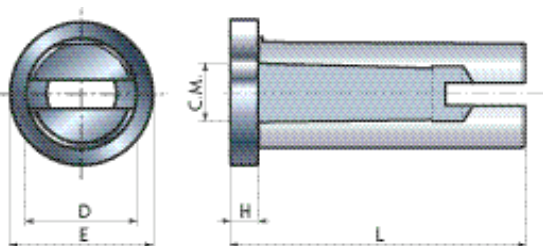
CODICE / CODE	D	CM	L	H	E
014001	40	1	65	6	49
024002	40	2	78	8	49
034003	40	3	97	8	49
044004	40	4	120	8	49

Mod. BCC 45


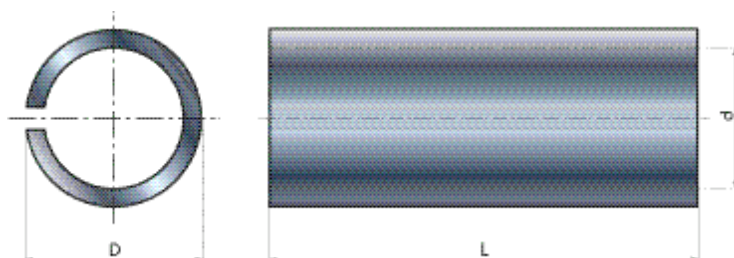
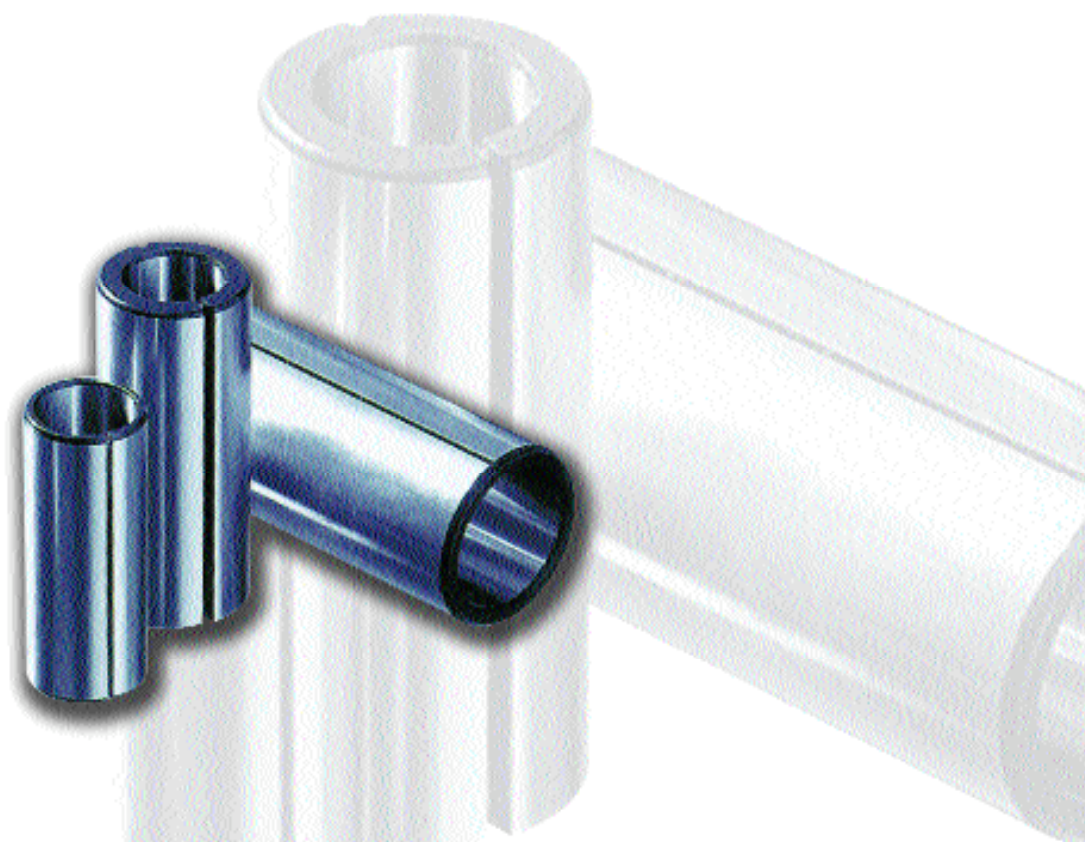
CODICE / CODE	D	CM	L	H	E
024501	45	2	78	8	54
034502	45	3	97	8	54
044503	45	4	120	8	54

Mod. BCC 50


CODICE / CODE	D	CM	L	H	E
025001	50	2	78	8	59
035002	50	3	97	8	59
045003	50	4	120	8	59

Mod. BCC 60


CODICE / CODE	D	CM	L	H	E
016001	60	1	78	8	69
026002	60	2	97	8	69
036003	60	3	120	8	69
046004	60	4	155	8	69


Mod. BCE

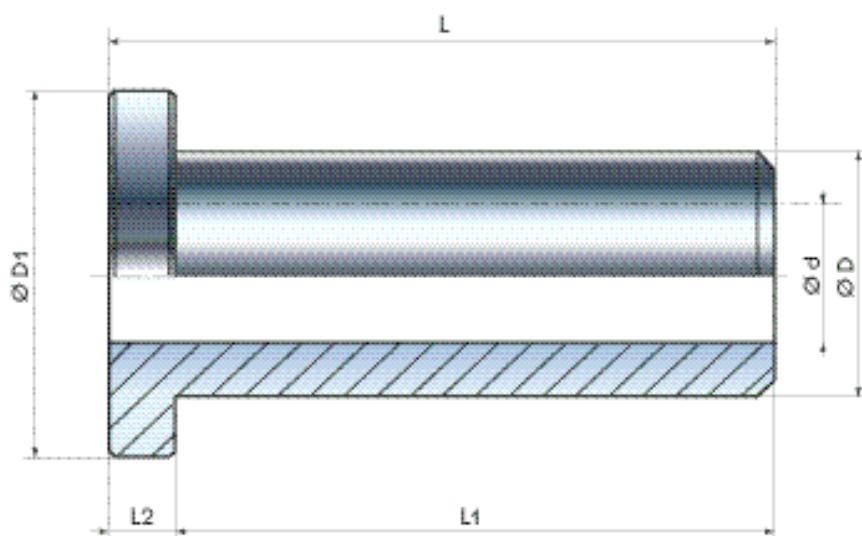
CODICE / CODE	D	d	L
001001	16	12	40
001002	20	16	50
001003	25	20	60
001004	32	25	70
001005	40	32	80
001006	50	40	90

Se siete interessati a Bussole speciali non comprese nel presente catalogo, inviateci questa pagina debitamente compilata: sarà nostra cura servirVi al meglio e con la massima tempestività.

If you are interested in special Bushes not included in this catalogue, fill out this page and send it to us: we shall do our best to provide you with prompt, efficient service.

Disegno tecnico da compilare per richiesta bussole speciali.

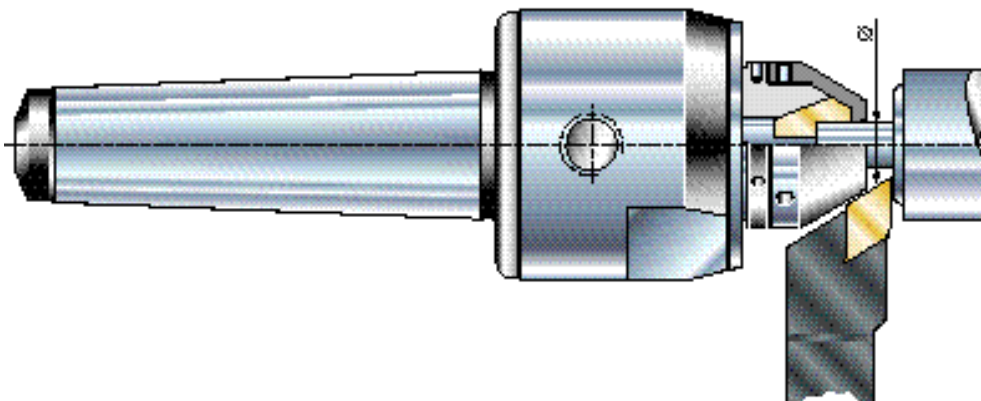
Technical drawing to be filled out for requesting special bushes.



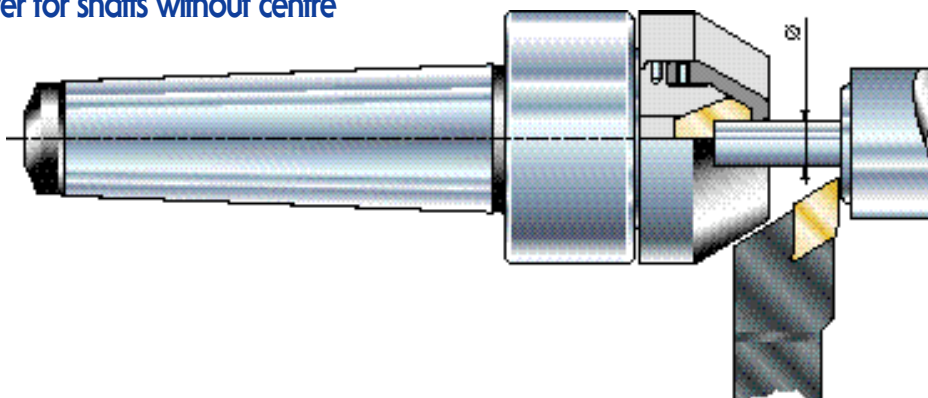
Ø d	Ø D	Ø D1	L	L1	L2	Codice/Code	

CONTROPUNTA ROTANTE A PINZA PER ALBERI SENZA CENTRO

Gripper live centre for shafts without centre

**TRASCINATORE A PINZA PER ALBERI SENZA CENTRO**

Gripper driver for shafts without centre

**CONTROPUNTA ROTANTE PER RETTIFICA CON CHIAVETTA DI TRASCINAMENTO PER MOZZI**

Live centre for recification with driving key for hubs

