



COLLETS

002 00 00 00 00 00

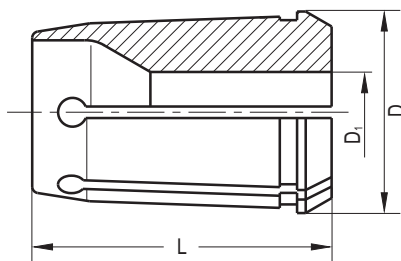
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002 01

FORM A

For plain straight shank tools
(tolerance h10)



COD.	D	L	D ₁	Clamping field
! 002 01 01	11,5	21	2	—
			3-4	—
			1,5-1,75	—
			2,25-2,75	—
			3,25-3,75-4,25-4,75-5,25-5,50-5,75	—
! 002 01 02	17,2	30	2	—
			3-4-5-6-7-9-	—
			2,25	—
! 002 01 03	25,5	40	8,25-8,75	—
			2	—
			3-4-5-6-7-8-9-10-11-12-13-14-15-16	—
! 002 01 04	29,8	45	2,25-2,75	—
			6,75-10,75-14,75	—
			2-3-4-5-6-7-8-9-10-11-13-14-15-16-17-18-19-20	—
! 002 01 05	35,05	52	2,25-	—
			5,75-6,25-7,75-9,75-11,75-12,25	—
			2-3-4-5-6-7-8-9-10.....23-24-25	—
! 002 01 06	43,7	60	2,25-3,75-6,25-7,25-9,25-	—
			9,75-10,75-15,75-16,75-17,25-	—
			20,25-21,25-21,50-23,50	—
! 002 01 07	52,5	68	4-6-7-8-9-10-11-12-13-14-15-17-18-	—
			20-21-21-22-23-24-25-28-29-32	—
			3,25-3,75-5,25-5,75-6,25-8,25-	—
! 002 01 08	63,8	80	11,75-12,25-21,50-24,50-27,50-28,50	—
			6-7-8-9-10-11-12-13-14-15-16-17-18-	—
			21-22-23-25-26-27-28-30-32-	—
! 002 01 08	63,8	80	33-34-35-36-39	—
			10-12-13-25-26-28-30-50	—
				—

! Product outside of our present production program.
Price subject to availability.

– To order: COD. + D₁
EXAMPLE: 002 01 04/10

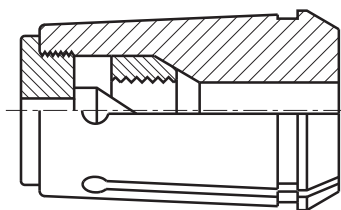
– Material: Tempered spring steel
– Hardness: 56 ÷ 58 HRC

– Assembly see page 260

002 03

FORM E

For threaded straight shank tools



COD.	D	L	D ₁	Clamping field
! 002 03 03	25,5	40	6-12	—
! 002 03 04	29,8	45	6-8-10-12-16	—
! 002 03 05	35,05	52	6-8-10-12-16-20	—
! 002 03 06	43,7	60	6-8-10-12-16	—
! 002 03 07	52,2	68	12-16-25	—
! 002 03 08	63,8	80	20-25-32-38	—

! Product outside of our present production program. Price subject to availability.

– To order: COD. + D₁
EXAMPLE: 002 03 04/10

– Material: Tempered spring steel
– Hardness: 56 ÷ 58 HRC

– Assembly see page 260

002 04

DIN 6388 COLLETS

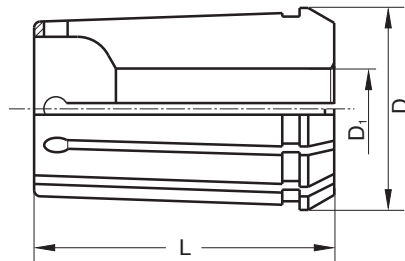


002 04

FORM B

(With clamping field)

For plain straight shank tools



– To order: COD. + D₁
EXAMPLE: 002 04 04/10

– Material: Tempered spring steel

– Hardness: 46 ÷ 48 HRC

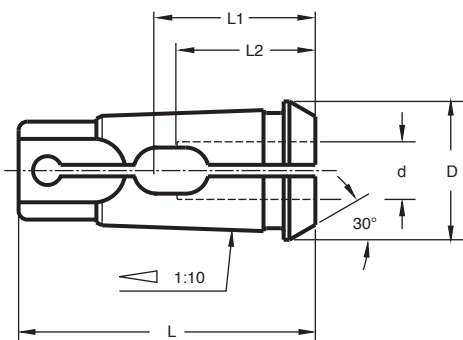
COD.	D	L	D ₁	Clamping field
▼ 002 04 03	25,5	40	5-5,5 6,5-7-7,5-8-8,5.....15 3-3,5-4-11,5	– 0,5 – 0,5 – 0,5
▼ 002 04 04	29,8	45	6,5-7-7,5-8-8,5 9-9,5-10,5-11-11,5.....20 4-4,2	– 0,5 – 0,5 – 0,5
▼ 002 04 05	35,05	52	6,5-7-7,5-8-8,5-9,5 10-11.....25	– 0,5 – 0,5
▼ 002 04 06	43,7	60	6-6,5-7-8-9-9,5 10-10,5-11-11,5.....31 5,5	– 0,5 – 0,5 – 0,5
▼ 002 04 07	52,2	68	10,5-11,5.....38,5	– 0,5

▼ Product outside of our present production program. Price subject to availability.

002 19

COLLETS FOR TAPPING CHUCKS

For cylindrical straight shanks with square DIN 10



– To order: COD. + d x Φ
EXAMPLE: 002 01 04/10

– Material: Tempered spring steel

– Hardness: 57 ÷ 60 HRC

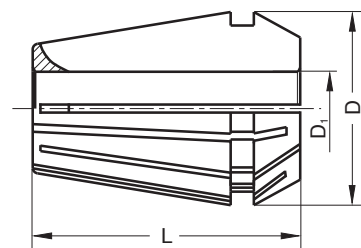
COD.	CAP.	D	L	d	Φ	L ₁	L ₂
				2,5	2,1	19	15
				2,8	2,1	19	15
				3,15	2,5	22	18
				3,5	2,7	21	16
				3,55	2,8	22	18
				4	3	21	16
				4,5	3,4	21	16
				5	4	25	19
				5,5	4,3	24	18
				5,6	4,5	25	19
▼ 002 19 03	M3-M16	25,4	52	6	4,9	26	19,5
				6,3	5	28	22
				7	5,5	26	19,5
				7,1	5,6	28	22
				8	6,2	27	19,5
				9	7	30	22
				10	8	32	23
				11	9	34	24
				11,2	9	36	26
				12	9	36	25
				12,5	10	36	26
				6	4,9	26	19,5
				6,3	5	28	22
				7	5,5	26	19,5
				7,1	5,6	28	22
				8	6,2	27	19,5
				9	7	30	22
				10	8	32	23
▼ 002 19 04	M8-M28	29,8	63	11	9	34	24
				11,2	9	36	26
				12	9	36	25
				12,5	10	36	26
				14	11	38	26
				16	12	44	30
				18	14,5	48	33
				20	16	52	35

▼ Product outside of our present production program. Price subject to availability.

002 11

FORM B

For plain cylindrical straight shank



ER	COD.	D	L	D ₁	Clamping field
ER-8	002 11 01	8,5	13,5	1-1,5-2-2,5.....5	- 0,5
ER-11	002 11 02	11,5	18	1-1,5-2-2,5.....7	- 0,5
ER-16	002 11 03	17	27,5	1-2-3-4-5-6.....10	- 1
ER-20	002 11 04	21	31	2-3-4-5-6.....13	- 1
ER-25	002 11 05	26	35	2-3-4-5-6.....16	- 1
ER-32	002 11 06	33	40	2-3-4-5-6.....20	- 1
ER-40	002 11 07	41	46	3-4-5-6-7-8-9-10....26	- 1
ER-50	002 11 08	52	60	12-14-16-18-20.....34	- 2

ULTRAPRECISION

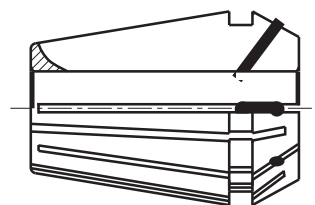
ER	COD.	D	L	D ₁	Clamping field
ER-8	002 11 11	8,5	13,5	1-1,5-2-2,5.....5	- 0,5
ER-11	002 11 12	11,5	18	1-1,5-2-2,5.....7	- 0,5
ER-16	002 11 13	17	27,5	1-2-3-4-5-6.....10	- 1
ER-20	002 11 14	21	31	2-3-4-5-6.....13	- 1
ER-25	002 11 15	26	35	2-3-4-5-6.....16	- 1
ER-32	002 11 16	33	40	2-3-4-5-6.....20	- 1
ER-40	002 11 17	41	46	4-5-6-7-8-9-10....26	- 1
ER-50	002 11 18	52	60	12-14-16-18-20..34	- 2

- To order: COD. + D₁
EXAMPLE: 002 11 04/10

002 13

FORM A SEALED

For plain cylindrical straight shanks with through coolant channel



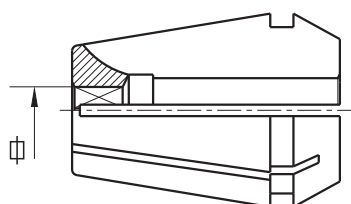
ER	COD.	D	L	D ₁	Clamping field
ER-16	▼ 002 13 03	17	27	9	-
ER-25	▼ 002 13 05	26	35	4-9	-
ER-32	▼ 002 13 06	33	40	3-4-5-9-15-17-19	-
ER-40	▼ 002 13 07	41	46	8-20-24-26	-

▼ Product outside of our present production program. Price subject to availability.

- To order: COD. + D₁
EXAMPLE: 002 13 06/10

002 14

For taps shanks



ER	COD.	D	L	D ₁	Clamping field
ER-16	002 14 03	17	27	3,5-8	-
ER-25	002 14 05	26	35	3,5-12	-
ER-32	002 14 06	33	40	4,5-16	-
ER-40	002 14 07	41	46	6-20	-
ER-50	002 14 08	52	60	8-32	-

- To order: COD. + D₁ + $\varnothing$
EXAMPLE: 002 14 06/10/8

• Assembly, see page 261

Material: Tempered spring steel

Hardness: Rc 45 - 48.

Accuracy: DIN 6499

002 15

DIN 6499 (ER TYPE) SEALED-BY-DESIGN COLLETS



002 15

HERMETIC - 100% STEEL

For plain cylindrical straight shanks with through coolant channels

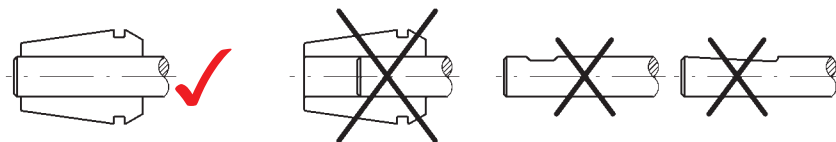


ER	COD.	D	L	D ₁	Clamping field
ER-16	002 15 03	17	27	3-4-5 6-7-8-9-10	— – 0,5
ER-25	002 15 05	26	35	3-4-5 6-7-8-9-10-11-12-13-14-15-16	— – 0,5
ER-32	002 15 06	33	40	3-4-5 6-7-8-9-10-11-12-13-14-15-16-18-20	— – 0,5
ER-40	002 15 07	41	46	4-5-6-7 8-9-10-11-12-13-14-15-16-18-20-25 26	— – 0,5 – 0,5

! Product outside of our present production program. Price subject to availability.

– To order: COD. + D₁ - EXAMPLE: 002 15 06/10

Important: Use plain cylindrical straight shanks covering completely collet inside grinded surface.



002 16

HERMETIC - 100% STEEL

For plain cylindrical straight shanks without through coolant channels

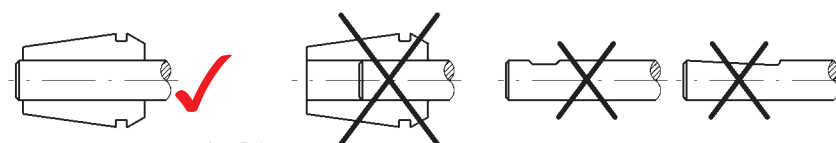


ER	COD.	D	L	D ₁	Clamping field
ER-16	002 16 03	17	27	3-4 5-6-7-8-9-10 4,5 5,5-6,5-7,5-8,5-9,5	— – 0,5 — – 0,5
ER-25	002 16 05	26	35	3-4-5 6-7-8-9-10-11-12-13-14-15-16 3,5 6,5-7,5-8,5-9,5	— – 0,5 — – 0,5
ER-32	002 16 06	33	40	3-4-5 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20 7,5-8,5-9,5.....16,5	— – 0,5 —
ER-40	002 16 07	41	46	4-5-6-7 8-9-10-11-12-13.....25-26 7,5-8,5-11,5.....25,5	— – 0,5 – 0,5

! Product outside of our present production program. Price subject to availability.

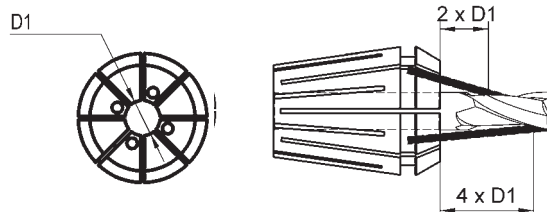
– To order: COD. + D₁ - EXAMPLE: 002 16 06/10

Important: Use plain cylindrical straight shanks covering completely collet inside grinded surface.

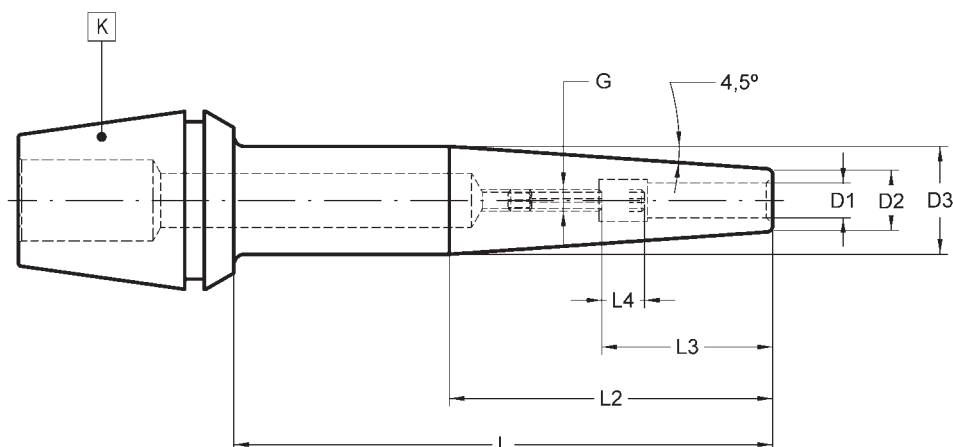


Material: Tempered spring steel
Hardness: Hrc 45 – 48.
Accuracy: DIN 6499

• Assembly, see page 261



Design: With four oriented holes 2(2xD1) and 2(4xD1).



Maximum circular deviation between K and $D_1 \leq 0,003$

K	D ₁	D ₂	D ₃	L ₁	L ₂	L ₃	L ₄	G	COD.	
ER-32	3	8	20	60	60	20	-	-	012 62 12 16 03	-
ER-32	4	10	20	60	60	20	-	-	012 62 12 16 04	-
ER-32	5	12	20	60	60	25	-	-	012 62 12 16 05	-
ER-32	6	14	20	60	60	36	10	M-5	012 62 12 16 06	301 02 33 05 02
ER-32	6	14	20	100	60	36	10	M-5	012 62 12 76 06	301 02 33 05 02
ER-32	8	16	20	60	60	36	10	M-6	012 62 12 16 08	301 02 33 06 02
ER-32	8	16	20	100	60	36	10	M-6	012 62 12 76 08	301 02 33 06 02
ER-32	10	18	20	60	60	42	10	M-8	012 62 12 16 10	301 02 33 08 02
ER-32	10	18	20	100	60	42	10	M-8	012 62 12 76 10	301 02 33 08 02
ER-32	12	20	20	60	60	47	10	M-10	012 62 12 16 12	301 02 33 10 02
ER-32	12	20	20	100	60	47	10	M-10	012 62 12 76 12	301 02 33 10 02

Design:

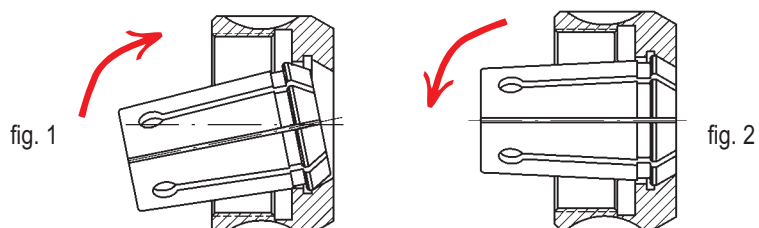
- For $D_1 < 6$, tool shank tolerance h4.
- For $D_1 \geq 6$, tool shank tolerance h6.
- For Carbide, Cermet and HSS tool shanks according to DIN 6535 form HA and DIN 1835-1 form A.

Delivery:

- With built-in bored through stop screw.
- Other sizes and profiles on request.

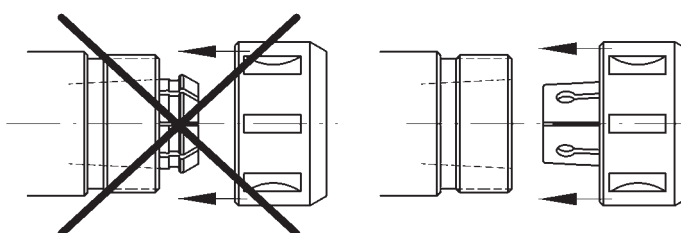
ASSEMBLY AND REMOVAL OF DIN 6388 COLLETS

A. Place collet into nut and apply even pressure to back end of collet as shown in figure 1.

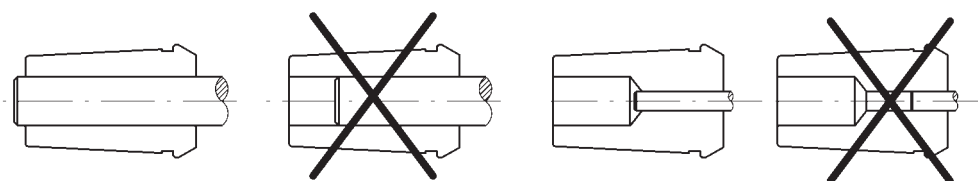


B. Apply opposite pressure to collet as shown in figure 2.

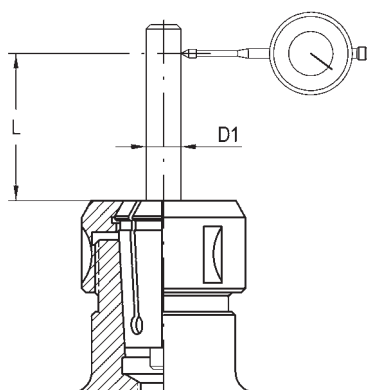
C. Never introduce the collet into the holder before collet is already assembled into the nut.



D. Tool shank should cover completely collet inside grinded surface.



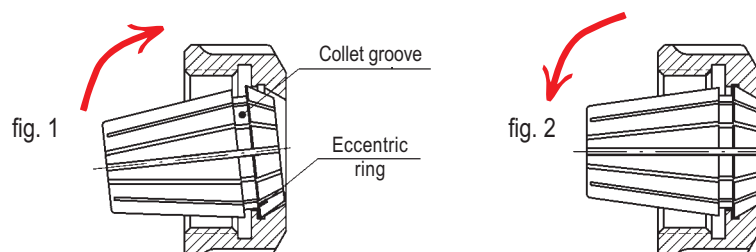
CONCENTRICITY



D ₁		L			
			Precision 1 DIN 6388	Precision LAIP DIN 6388	Ultra precision
1	1,6	6	0,015	0,010	0,005
1,6	3	10			
3	6	16			
6	10	25			
10	18	40	0,020	0,015	
18	24	50			
24	30	60	0,030	0,020	0,010
30	50	80			

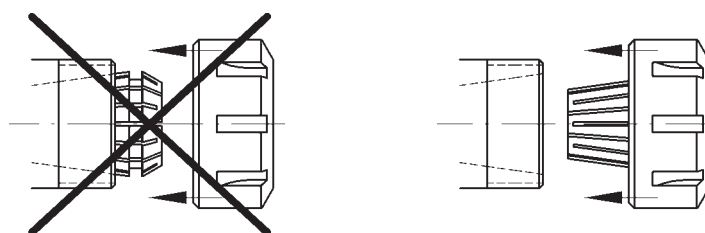
ASSEMBLY AND REMOVAL OF DIN 6499 COLLETS (ER TYPE)

- A.** Place collet inside nut and rotate the nut to engage collet groove with the eccentric ring. Push collet as shown in figure 1 until it clicks in.

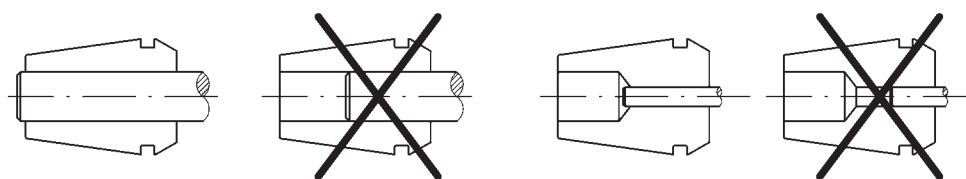


- B.** Remove: Unscrew nut from the toolholder. Apply opposite pressure to collet as shown in figure 2.

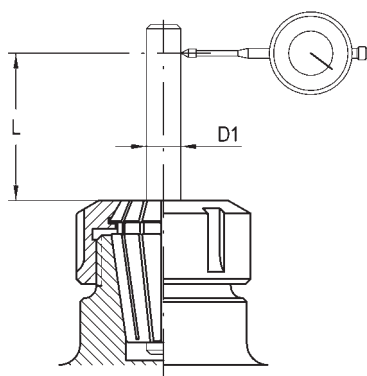
- C.** Never introduce the collet into the holder before collet is already assembled into the nut.
EXAMPLE: 002 07 04/10



- D.** Tool shank should cover completely collet inside grinded surface.



CONCENTRICITY



D ₁		L			
over	up to		Standard Precision DIN 6499	Precision LAIP DIN 6499	Ultra precision
1	1,6	6	0,015	0,010	0,005
1,6	3	10			
3	6	16			
6	10	25	0,020	0,015	
10	18	40			
18	26	50	0,025	0,020	0,010
26	34	60			

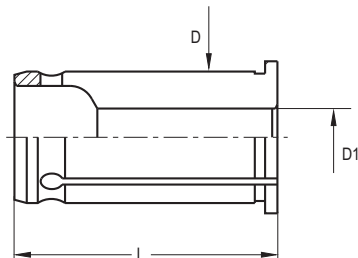
002 05

STRAIGHT COLLETS FOR GREAT POWER COLLET CHUCKS



002 05

For tools with plain cylindrical straight shank



COD.	D	L	D ₁
002 05 04	2	52,5	6 -7- 14 -15
002 05 06	3	64,5	14 -15

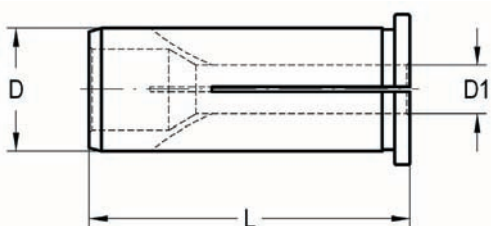
⚠ Product outside of our present production program. Price subject to availability.

– To order: COD. + D₁
EXAMPLE: 002 05 04/10

002 05

HERMETIC - 100% STEEL

For tools with plain cylindrical straight shank



COD.	D	L	D ₁
002 05 14	20	52,5	3-4-5-6.....14-15-16
002 05 16	32	64,5	3-4-5-6.....24-25-26
002 05 17	40	73	16-20-25-32
002 05 19	50	83	20-25-32-40-42

– To order: COD. + D₁
EXAMPLE: 002 05 14/10

It can be used with coolant trough cutting tools (except Ø 3). In this case plain cylindrical shank should be used and the cutting tool should cover completely the internal grinded surface as indicated in the drawing.

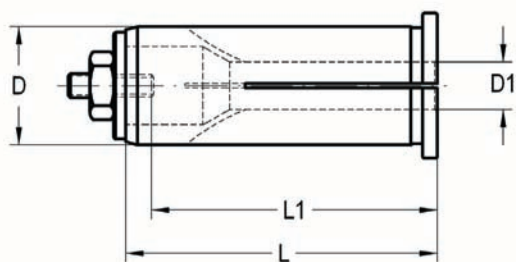
002 09

HERMETIC - 100% STEEL

For tools with plain cylindrical straight shank

With axial stop screw

Can use tools with through coolant channels.



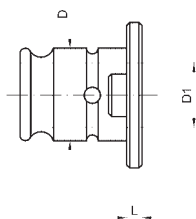
COD.	D	L	L ₁ (máx)	D ₁
002 09 14	20	52,5	46	6-8-10-12-14-16
002 09 16	32	64,5	58	6-8-10-12-14-16-18-20-25

– To order: COD. + D₁
EXAMPLE: 002 05 14/10

It can be used with coolant trough cutting tools (except Ø 3). In this case plain cylindrical shank should be used and the cutting tool should cover completely the internal grinded surface as indicated in the drawing.

002 20 00 ...**QUICK CHANGE REDUCING ADAPTERS**

Bilz type



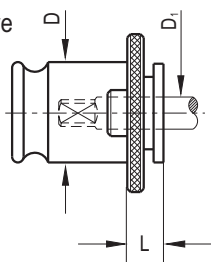
COD.	D	L	D ₁
002 20 00 02 01	19	4	13
002 20 00 03 01	31	5	13
002 20 00 03 02	31	5	19
002 20 00 04 02	48	6	19
002 20 00 04 03	48	6	31

**002 21
22
23
24****QUICK CHANGE TAPPING ADAPTERS**

Bilz type

**002 21 ...**

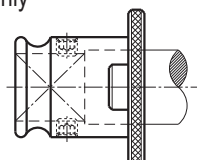
Positive drive adapters



COD.	D	L	D ₁
002 21 01	13	7	2,5-2,8-3,15-3,5-3,55-4-4,5-5-5,5-5,6-6-6,3-7-7,1-8
002 21 02	19	7	3,15-3,5-3,55-4-4,5-5-5,5-5,6-6-6,3-7-7,1-8-9-10-11-11,2
002 21 03	31	11	6-6,3-7-7,1-8-9-10-11-11,2-12-12,5-14-16-18
002 21 04	48	14	11-11,2-12-12,5-14-16-18-20-22-25-28

002 22 ...

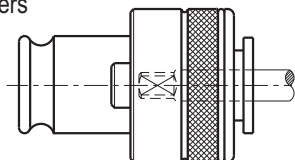
Positive drive adapters for light machining only



COD.	D	L	D ₁
002 22 02	19	4	12
002 22 03	31	5	20-22
002 22 04	48	6	32-36

002 23 ...

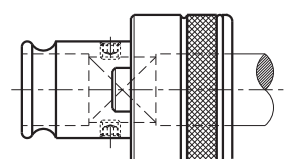
Torque release (with clutch) adapters



COD.	D	L	D ₁
002 23 01	13	21	2,8-3,15-3,5-4-4,5-5-6-7-8
002 23 02	19	25	3,15-3,5-4-4,5-5-5,5-6-6,3-7-7,1-8-9-10-11-11,2
002 23 03	31	34	6-6,3-7-7,1-8-9-10-11-12-14-16-18
002 23 04	48	45	11-11,2-12-12,5-14-16-18-20-22-25-28

002 24 ...

Torque release (with clutch) adapters for light machining only



COD.	D	L	D ₁
002 24 02	19	32	12
002 24 03	31	31	20-22
002 24 04	48	41	32-36

- To order: COD. + D₁ x □ - EXAMPLE: 002 21 02 / 3,15 x 2,5

002 51

DIN 6328 AND DIN 6329 COLLETS

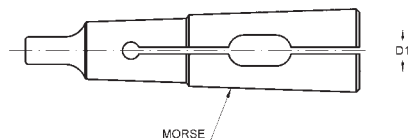


002 51

DIN 6328

TAPPING COLLETS

For tools with cylindrical straight shank with square DIN 10



COD.	Morse N°	D ₁
002 51 02	1	2,5-2,8 3,15-3,5-4-4,5-5-5,5-5,6-6-6,3-7-7,1-8
002 51 03	2	4,5-5-5,5-5,6-6-6,3-7-7,1-8-9-10-11-11,2-12-12,5
002 51 04	3	8-9-10-11-11,2-12-12,5-14-16 18

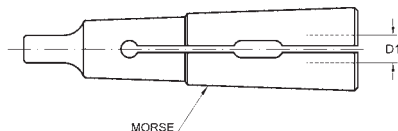
– To order: COD. + D₁
EXAMPLE: 002 51 02/5

002 52

DIN 6329

DRILL COLLETS

For tools with cylindrical straight shank according to DIN 1809



COD.	Morse N°	D ₁
002 52 01	0	1,6-1,7-1,8-1,9-2-2,1-2,2-2,3-2,4-2,5-2,6-2,7.....2,9 3-3,1-3,2-3,3-3,4-3,5-3,6-3,7-3,8-3,9-4-4,1.....5,5
002 52 02	1	3-3,1-3,2-3,3-3,4-3,5-3,6-3,7-3,8-3,9-4-4,1-4,2-4,3-4,4- 4,5-4,6-4,7-4,8-4,9-5,1-5,2-5,3-5,4.....21
002 52 03	2	5,5-5,6-5,7-5,8-5,9-6-6,1-6,2-6,3-6,4-6,5-6,6-6,7-6,8-6,9- 7-7,1-7,2-7,3-7,4-7,5-7,6-7,7-7,8.....13
002 52 04	3	8-8,5-9-9,5-10-10,5-11-11,5-12-12,5-13-13,5-14-14,5- 15-15,5-16-16,5-17-17,5-18

– To order: COD. + D₁
EXAMPLE: 002 52 02/5

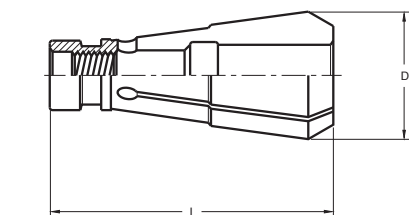
002 54

DIRECT COUPLING COLLETS



002 54

ISO DIN 2080 Taper



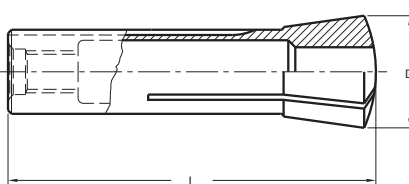
COD.	K	D	L	D ₁
002 54 01	30	31,75	76	2-3-6-7-8-9-11-12.....18
002 54 02	40	44,45	102	4-5-6-7-8-9-10-11-12-13-14.....28

! Product outside of our present production program. Price subject to availability.

– To order: COD. + D₁
EXAMPLE: 002 54 01/10

002 55

R-8 Bridgeport



COD.	D	L	D ₁
002 55 01	31,75	105	3-4-5-8-10-11-12-13-14.....18

! Product outside of our present production program. Price subject to availability.

– To order: COD. + D₁
EXAMPLE: 002 55 01/10

Material: Tempered spring steel.
Rc 56 – 58

COLLET TYPE	COLLET SIZE	Collet set	Collet chuck	SET N°	COD.	BOX DIMENSIONS			Wrench
						A	B	C	
DIN 6388	002 01 04	4-5-6-7-8-9-10-11-12 13-14-15-16-18-20	004xx01xx04	02	004 99 05 02 04	240	215	78	004 99 04 09 09
	002 03 04	roscada 6-8-10-12-16		05					
	002 01 04 + 002 03 04	4-5-6-7-8-9-10-11-12 13-14-15-16-18-20 + pinzas roscadas de 6-8-10-12-16		06					
	002 01 05	4-5-6-7-8-9-10-11-12 13-14-15-16-18-20-25	004xx01xx05	02	004 99 05 02 05 Morse 3 - 4 R8 ISO 30 y 40 004 99 05 04 05 Morse 5 ISO 50	315	295	78	004 99 04 09 11
	002 03 05	roscas 6-8-10-12-16		05					
	002 01 05 + 002 03 05	4-5-6-7-8-9-10-11-12 13-14-15-16-18-20-25 pinzas roscadas de 6-8-10-12-16-20		06					
	002 01 06	6-7-8-9-10-11-12-13 14-15-16-18-20-25-32	004xx01xx06	02	004 99 05 14 06	445	295	120	004 99 04 09 12
	002 03 06	roscas 6-8-10-12-16-20-25		05					
	002 01 06 + 002 03 06	6-7-8-9-10-11-12-13 14-15-16-18-20-25-32 pinzas roscadas de 6-8-10-12-16-20-25		06					
DIN 6499 Type ER	ER 25	2-3-4-5-6-7-8-9-10-11 12-13-14-15-16	004xx06xx05	02	004 99 05 02 03 ISO 30 y 40	245	210	76	004 99 04 03 05
	ER 32	3-4-5-6-7-8-9-10-11 12-13-14-15-16-17 18-19-20	004xx06xx06	02	004 99 05 02 05 Morse 3 - 4 R8 ISO 30 y 40	315	295	98	004 99 04 03 06
		3-4-5-6-7-8-9-10-11 12-13-14-15-16-17 18-19-20	004xx06xx06	02	004 99 05 04 05 Morse 5 ISO 50	450	300	123	004 99 04 03 06
	ER 40	5-6-7-8-9-10-11-12 13-14-15-16-18-20 22-24-26	004xx06xx07	02	004 99 05 14 06	445	295	128	004 99 04 03 07



To order:
CHUCK COD. / SET N°
EXAMPLE: 004 01 01 04 05 / 02

004

2/2

COLLET CHUCKS SETS



COLLET TYPE	SYZE	COD.	BOX DIMENSIONS			Wrench	Collet set	Collet chuck	SET Nº
			A	B	C				
GREAT POWER	002 05 04	004 99 25 02 04; ISO 30 y 40	305	165	85	004 99 04 09 10 004 99 04 02 06	6-8-10-12-16	004xx05xx04	02
		004 99 25 04 06; ISO 50; HSK 63; HSK 100	320	300	125	004 99 04 09 10 004 99 04 02 06	6-8-10-12-16	004xx05xx04	02
		004 99 25 04 06; HSK 63	320	300	125	004 99 04 09 10 004 99 04 02 06	4-6-8-10-12-16	004xx05xx04	03
		004 99 25 02 04; ISO 30 y 40	305	165	85	004 99 04 09 10 004 99 04 02 06	6-8-10-12-16 reductores a M1 y M2	004xx05xx04	09
		004 99 25 04 06; ISO 50; HSK 63; HSK 100	320	300	125	004 99 04 09 10 004 99 04 02 06	6-8-10-12-16 reductores a M1 y M2	004xx05xx04	09
	002 05 06	004 99 25 04 06; ISO 30; 40; 50; HSK 63; HSK 100	320	300	125	004 99 04 09 12 004 99 04 02 06	6-8-10-12-16-20-25	004xx05xx06	02
		004 99 25 04 06; ISO 30; 40; 50; HSK 63; HSK 100	320	300	125	004 99 04 09 12 004 99 04 02 06	6-8-10-12-16-20-25 reductores a M1, M2 y M3	004xx05xx06	09

004 99 99

DIN 6499 (ER) FORM B
COLLETS SETS

Collets	COD.	CONTAINER DIMENSIONS			Collets set	Cod. of collets set without container	Cod. of collets set with container
		A	B	C			
ER - 11	004 99 99 11 02	210	22	13	1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 4,5 - 5 - 5,5 - 6 - 6,5 - 7	002 11 02 00 00 01	002 11 02 00 00 11
ER - 16	004 99 99 11 03	280	35	20	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 9 - 10	002 11 03 00 00 01	002 11 03 00 00 11
ER - 25	004 99 99 11 05	280	75	25	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 - 15 - 16	002 11 05 00 00 01	002 11 05 00 00 11
ER - 32	004 99 99 11 06	340	90	32	3 - 4 - 5 - 6 - 7 - 8 - 9 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20	002 11 06 00 00 01	002 11 06 00 00 11
ER - 40	004 99 99 11 07	270	205	30	4 - 5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 25 - 26	002 11 07 00 00 01	002 11 07 00 00 11
ER - 50	004 99 99 11 08	275	185	43	12 - 14 - 16 - 18 - 20 - 22 24 - 26 - 28 - 30 - 32 - 34	002 11 08 00 00 01	002 11 08 00 00 11

