

35

DIN 238
JACOBS

40
42

DIN 1835-A
DIN 1835-B

47

DIN
69880

49

BILZ
SYSTEM

80

DIN 6388
DIN 6499

85

DIN 69872
JIS 6339-BT

NAREX@MTE™




mexin

2005

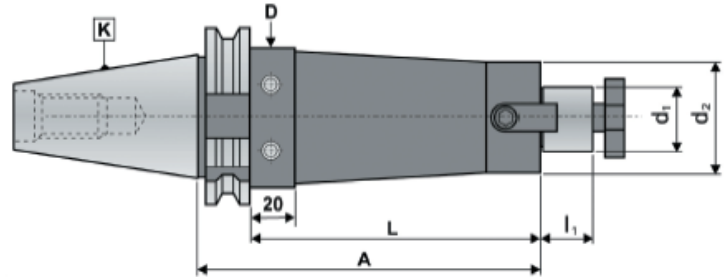


ANTIVIBRAČNÍ FRÉZOVACÍ TRNY
 pro frézy s příčnou unášecí drážkou DIN 138
ANTIVIBRATORY SHELL MILL ADAPTORS
 for cutters with driving slot DIN 138

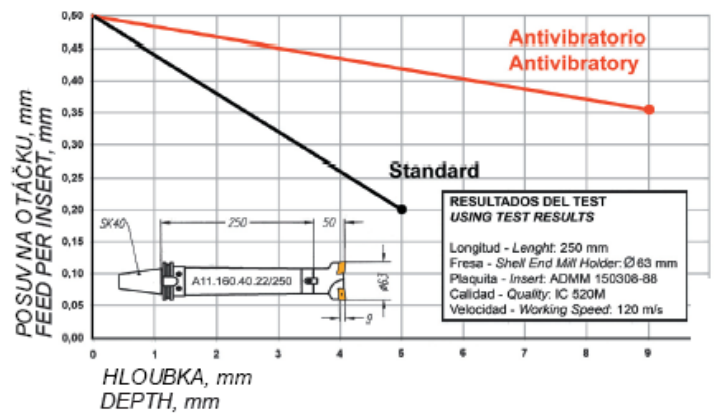
A11.160

A20.160

SPECIÁLNĚ URČENO PRO VÝROBU FOREM A ZÁPUSTEK
SPECIAL FOR MOULD AND DIE MAKERS



POROVNÁNÍ PŘI POUŽITÍ ANTIVIBRAČNÍHO DRŽÁKU
COMPARISON WHEN USING AN ANTIVIBRATORY TOOLHOLDER



Vibrace jsou redukovány až o 60% ve srovnání se standardním držákem oproti držáku vyrobeného s materiálu s antivibračními vlastnostmi.

Vibration reduced up to 60% compared to any other conventional shell mill adaptor, as they are manufactured with materials and mechanisms having antivibration properties.

| DIN 69871-A | L mm | D mm | JIS 6339 - BT | L mm | D mm | K ISO | d ₁ h ₆ mm | A mm | l ₁ mm | d ₂ mm |
|-------------------|---------|---------|-------------------|---------|---------|----------|-------------------------------------|---------|----------------------|----------------------|
| A11.160.40.16/150 | 131 | 50 | A20.160.40.16/150 | 116 | 50 | 40 | 16 | 150 | 36 | 36 |
| A11.160.40.16/200 | 181 | 50 | A20.160.40.16/200 | 166 | 50 | | | 200 | 36 | 36 |
| A11.160.40.16/250 | 231 | 50 | A20.160.40.16/250 | 216 | 50 | | | 250 | 36 | 36 |
| A11.160.40.16/300 | 281 | 50 | A20.160.40.16/300 | 266 | 50 | | | 300 | 36 | 36 |
| A11.160.40.22/150 | 131 | 50 | A20.160.40.22/150 | 116 | 50 | | 22 | 150 | 19 | 44 |
| A11.160.40.22/200 | 181 | 50 | A20.160.40.22/200 | 166 | 50 | | | 200 | 19 | 44 |
| A11.160.40.22/250 | 231 | 50 | A20.160.40.22/250 | 216 | 50 | | | 250 | 19 | 44 |
| A11.160.40.22/300 | 281 | 50 | A20.160.40.22/300 | 266 | 50 | | | 300 | 19 | 44 |
| A11.160.40.27/150 | 131 | 50 | A20.160.40.27/150 | 116 | 56 | | 27 | 150 | 21 | 54 |
| A11.160.40.27/200 | 181 | 50 | A20.160.40.27/200 | 166 | 56 | | | 200 | 21 | 54 |
| A11.160.40.27/250 | 231 | 50 | A20.160.40.27/250 | 216 | 56 | | | 250 | 21 | 54 |
| A11.160.40.27/300 | 281 | 50 | A20.160.40.27/300 | 266 | 56 | | | 300 | 21 | 54 |
| A11.160.50.16/150 | 131 | 80 | A20.160.50.16/150 | 112 | 80 | 50 | 16 | 150 | 36 | 36 |
| A11.160.50.16/200 | 181 | 80 | A20.160.50.16/200 | 162 | 80 | | | 200 | 36 | 36 |
| A11.160.50.16/250 | 231 | 80 | A20.160.50.16/250 | 212 | 80 | | | 250 | 36 | 36 |
| A11.160.50.16/300 | 281 | 80 | A20.160.50.16/300 | 262 | 80 | | | 300 | 36 | 36 |
| A11.160.50.16/400 | 381 | 80 | A20.160.50.16/400 | 362 | 80 | | | 400 | 36 | 36 |
| A11.160.50.22/200 | 181 | 80 | A20.160.50.22/200 | 162 | 80 | | 22 | 200 | 19 | 44 |
| A11.160.50.22/250 | 231 | 80 | A20.160.50.22/250 | 212 | 80 | | | 250 | 19 | 44 |
| A11.160.50.22/300 | 281 | 80 | A20.160.50.22/300 | 262 | 80 | | | 300 | 19 | 44 |
| A11.160.50.22/400 | 381 | 80 | A20.160.50.22/400 | 362 | 80 | | | 400 | 19 | 44 |
| A11.160.50.22/500 | 481 | 80 | A20.160.50.22/500 | 462 | 80 | | | 500 | 19 | 44 |
| A11.160.50.27/200 | 181 | 80 | A20.160.50.27/200 | 162 | 80 | | 27 | 200 | 21 | 54 |
| A11.160.50.27/250 | 231 | 80 | A20.160.50.27/250 | 212 | 80 | | | 250 | 21 | 54 |
| A11.160.50.27/300 | 281 | 80 | A20.160.50.27/300 | 262 | 80 | | | 300 | 21 | 54 |
| A11.160.50.27/400 | 381 | 80 | A20.160.50.27/400 | 362 | 80 | | | 400 | 21 | 54 |
| A11.160.50.27/500 | 481 | 80 | A20.160.50.27/500 | 462 | 80 | | | 500 | 21 | 54 |
| A11.160.50.32/200 | 181 | 80 | A20.160.50.32/200 | 162 | 80 | | 32 | 200 | 24 | 64 |
| A11.160.50.32/250 | 231 | 80 | A20.160.50.32/250 | 212 | 80 | | | 250 | 24 | 64 |
| A11.160.50.32/300 | 281 | 80 | A20.160.50.32/300 | 262 | 80 | | | 300 | 24 | 64 |
| A11.160.50.32/400 | 381 | 80 | A20.160.50.32/400 | 362 | 80 | | | 400 | 24 | 64 |
| A11.160.50.32/500 | 481 | 80 | A20.160.50.32/500 | 462 | 80 | | | 500 | 24 | 64 |

DOPLŇKY A PŘÍSLUŠENSTVÍ


COMPLEMENTS AND ACCESSORIES

KÓD – STRANA
ORDER NR. - PAGE

KÓD – STRANA
ORDER NR. - PAGE

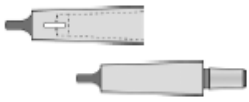
KÓD – STRANA
ORDER NR. - PAGE

35.292
35.01 

35.293
35.01 

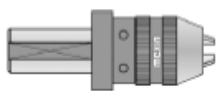
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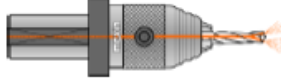
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35.02 

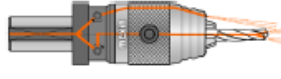
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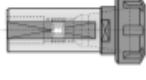
37.295
37.03 

37.296
37.03 

40.295
40.04 

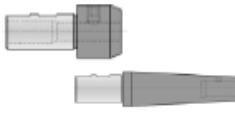
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40.04 

43.297
43.05 

40.453
40.06 

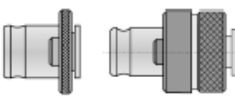
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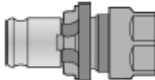
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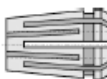
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42.610
42.08 


42.620
42.08 

49.621/622
49.09 

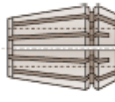
49.629
49.09 

80.394
80.12 

89.394
80.13 

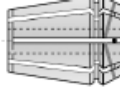
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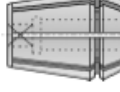
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80.490
80.17 

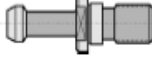
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80.17 


80.498
80.18 

89.200/5
80.18 

80.391/3
80.19 

80.491/6
80.19 

85.750
85.20 

85.760
85.22 

81.700
81.23 

81.721/2
81.23 

81.954
81.23 

KIT
81.24 

KIT
81.24 


KIT
81.24 

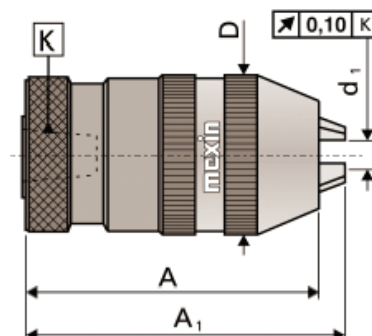


STANDARDNÍ VRTAČKOVÁ SKLÍČIDLA
STANDARD KEYLESS DRILL CHUCKS

DIN 238

35.292

| REF. 35.292 | d ₁ mm | K DIN238 | D mm | A mm | A ₁ mm | 3  |
|--------------|----------------------|-------------|---------|---------|----------------------|--|
| 35.292.08.12 | 0 - 8 | B-12 | 36 | 68 | 74 | 89.220.28 |
| 35.292.10.12 | 0 - 10 | B-12 | 36 | 70 | 77 | 89.220.30 |
| 35.292.13.16 | 0 - 13 | B-16 | 40 | 88 | 99 | 89.220.33 |
| 35.292.16.16 | 3 - 16 | B-16 | 46 | 100 | 109 | 89.220.36 |
| 35.292.16.18 | | B-18 | 46 | 100 | 109 | 89.220.36 |




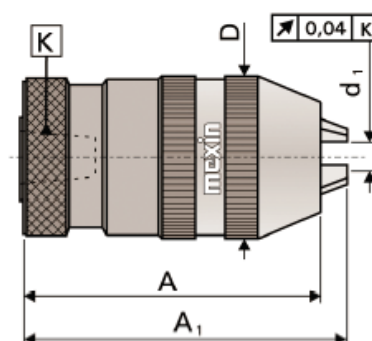
PŘESNÁ VRTAČKOVÁ SKLÍČIDLA
PRECISION KEYLESS DRILL CHUCKS

DIN 238

35.293

TIGHTENING TORQUE : } > 25 Nm

| REF. 35.293 | d ₁ mm | K DIN238 | D mm | A mm | A ₁ mm | 3  |
|--------------|----------------------|-------------|---------|---------|----------------------|--|
| 35.293.08.12 | 0 - 8 | B-12 | 36 | 64,5 | 72,5 | 89.220.08 |
| 35.293.10.12 | 0 - 10 | B-12 | 44,5 | 80,5 | 92 | 89.220.10 |
| 35.293.10.16 | | B-16 | 44,5 | 80,5 | 92 | 89.220.10 |
| 35.293.13.16 | 0 - 13 | B-16 | 51,5 | 91,5 | 103 | 89.220.13 |
| 35.293.16.16 | 3 - 16 | B-16 | 57,5 | 94,5 | 108,5 | 89.220.16 |
| 35.293.16.18 | | B-18 | 57,5 | 94,5 | 108,5 | 89.220.16 |





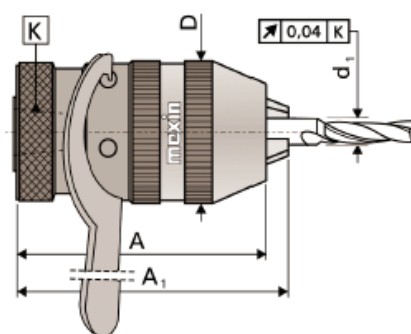
SAMOSVORNÁ PŘESNÁ VRTAČKOVÁ SKLÍČIDLA
 převážně používaná na CNC obráběcích centrech
SELF CLAMPING PRECISION KEYLESS DRILL CHUCKS
 to be used mainly in CNC Machining centres

DIN 238

35.294

UPÍNAČÍ MOMENT : } > 40 Nm
 TIGHTENING TORQUE : }

| REF. 35.294 | d ₁ mm | K DIN 238 | D mm | A mm | A ₁ mm |  3  |
|--------------|----------------------|--------------|---------|---------|----------------------|--|
| 35.294.08.12 | 0 - 8 | B-12 | 36 | 64,5 | 72,5 | 89.200.08 89.220.08 |
| 35.294.10.12 | 0 - 10 | B-12 | 44,5 | 80,5 | 92 | 89.200.10 89.220.10 |
| 35.294.10.16 | | B-16 | 44,5 | 80,5 | 92 | 89.200.10 89.220.10 |
| 35.294.13.16 | 0 - 13 | B-16 | 51,5 | 91,5 | 103 | 89.200.13 89.220.13 |
| 35.294.16.16 | 3 - 16 | B-16 | 57,5 | 94,5 | 108,5 | 89.200.16 89.220.16 |
| 35.294.16.18 | | B-18 | 57,5 | 94,5 | 108,5 | 89.200.16 89.220.16 |





PŘESNÉ UNIVERZÁLNÍ CNC VRTAČKOVÉ SKLÍČIDLO
 pro pravý a levý směr otáček
CNC-UNIVERSAL PRECISION DRILL CHUCKS
 for left and right and turn

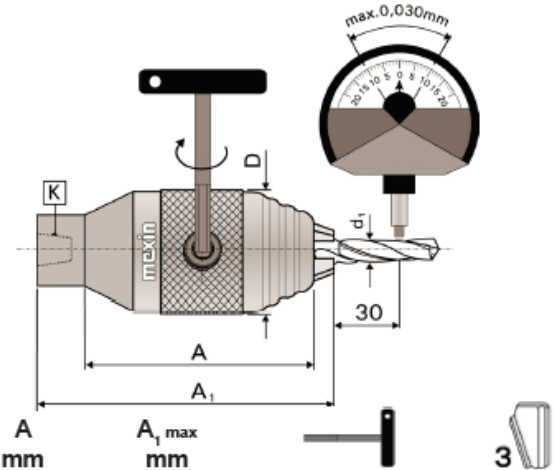
DIN 238

35.296

VRTAČKOVÉ SKLÍČIDLO PRO UPÍNACÍ TRNY DLE DIN 238
PŘESNÉ UPÍNÁNÍ.

DRILL CHUCK FOR THE COUPLING OVER DIN-238 SHAFTS.
HIGH TIGHTENING.

UPÍNACÍ MOMENT : } > 70 Nm
 TIGHTENING TORQUE : }



| REF. | 35.296 | K DIN-238 | d ₁ mm | D mm | A mm | A ₁ max mm | | |
|--------------|--------|--------------|----------------------|---------|---------|--------------------------|-----------|-----------|
| 35.296.16.13 | | 16 | 1-13 | 50 | 100 | 107 | 89.206.06 | 89.220.13 |
| 35.296.18.16 | | 18 | 3-16 | 56 | 108 | 115 | 89.206.06 | 89.220.13 |

* DODÁVKA S KLÍČEM

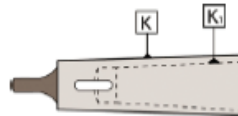
* SUPPLIED WITH WRENCH



REDUKČNÍ POUZDRO MORSE-MORSE
MORSE-MORSE REDUCING BUSHINGS

DIN 238

37.215



REF. 37.215

K
MORSE

K₁
MORSE

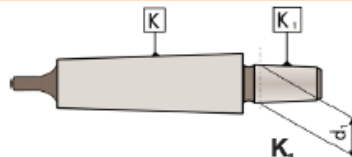
| | | |
|--------------|---|---|
| 37.215.02.01 | 2 | 1 |
| 37.215.03.01 | 3 | 1 |
| 37.215.03.02 | 3 | 2 |
| 37.215.04.02 | 4 | 2 |
| 37.215.04.03 | 4 | 3 |
| 37.215.05.03 | 5 | 3 |
| 37.215.05.04 | 5 | 4 |



MORSE UPÍNACÍ TRN PRO VRTAČKOVÁ SKLÍČIDLA
MORSE TAPER FOR DRILL CHUCKS

DIN 238

37.290



REF. 37.290

K
MORSE

K₁
DIN

d₁
mm

| | | | |
|--------------|---|------|--------|
| 37.290.02.12 | 2 | B-12 | 12.065 |
| 37.290.02.16 | | B-16 | 15.733 |
| 37.290.02.18 | | B-18 | 17.780 |
| 37.290.03.12 | 3 | B-12 | 12.065 |
| 37.290.03.16 | | B-16 | 15.733 |
| 37.290.03.18 | | B-18 | 17.780 |
| 37.290.04.16 | 4 | B-16 | 15.733 |
| 37.290.04.18 | | B-18 | 17.780 |

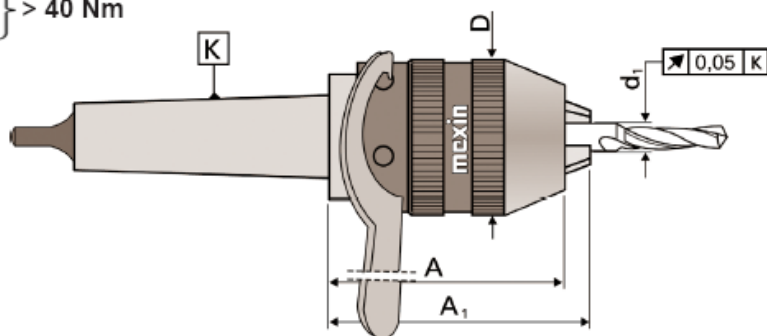




SAMOSVORNÁ PŘESNÁ VRTACÍ HLAVIČKA
pouze pro pravý chod (otáčky)
SELF CLAMPING SHORT PRECISION DRILL CHUCKS
 For right turn only

DIN 228-B

37.295

UPÍNACÍ MOMENT : } > 40 Nm
 TIGHTENING TORQUE : }



| REF. 37.295 | K MORSE | d ₁ mm | D mm | A mm | A ₁ max mm |  |  |
|--------------|---------|-------------------|------|------|-----------------------|---|---|
| 37.295.02.08 | 2 | 0- 8 | 35 | 56 | 65 | 89.200.08 | 89.220.08 |
| 37.295.02.13 | | 0-13 | 51 | 81 | 95 | 89.200.13 | 89.220.08 |
| 37.295.03.13 | 3 | 0-13 | 51 | 81 | 95 | 89.200.13 | 89.220.13 |
| 37.295.03.16 | | 3-16 | 56 | 85 | 98 | 89.200.16 | 89.220.13 |
| 37.295.04.13 | 4 | 0-13 | 51 | 81 | 95 | 89.200.13 | 89.220.16 |
| 37.295.04.16 | | 3-16 | 56 | 85 | 98 | 89.200.16 | 89.220.16 |

* DODÁVKA S KLÍČEM

* SUPPLIED WITH WRENCH

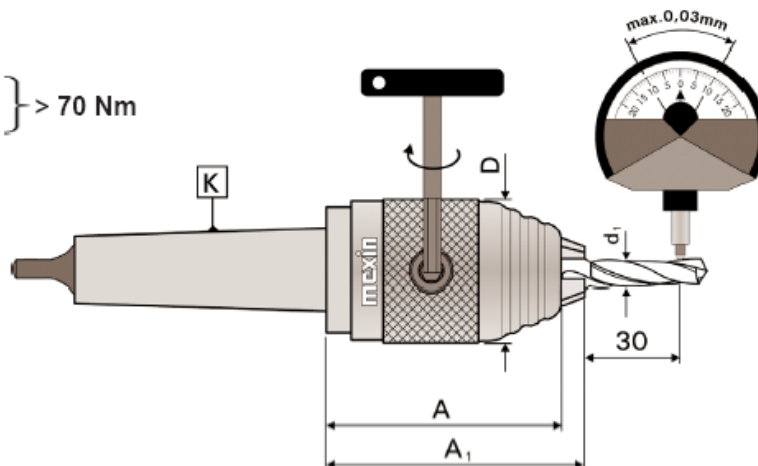




PŘESNÁ UNIVERZÁLNÍ CNC VRTACÍ HLAVIČKA
pro pravý a levý směr otáček
CNC-UNIVERSAL PRECISION DRILL CHUCKS
 for left and right and turn

DIN 228-B

37.296

UPÍNACÍ MOMENT : } > 70 Nm
 TIGHTENING TORQUE : }



| REF. 37.296 | K MORSE | d ₁ mm | D mm | A mm | A ₁ max mm |  |  |
|--------------|---------|-------------------|------|------|-----------------------|---|---|
| 37.296.02.13 | 2 | 1-13 | 50 | 85 | 92 | 89.206.06 | 89.220.13 |
| 37.296.03.13 | 3 | 1-13 | 50 | 85 | 92 | 89.206.06 | 89.220.13 |
| 37.296.03.16 | | 3-16 | 56 | 92 | 99 | 89.206.06 | 89.220.13 |
| 37.296.04.13 | 4 | 1-13 | 50 | 85 | 92 | 89.206.06 | 89.220.13 |
| 37.296.04.16 | | 3-16 | 56 | 92 | 99 | 89.206.06 | 89.220.13 |
| 37.296.05.16 | 5 | 3-16 | 56 | 92 | 99 | 89.206.06 | 89.220.13 |

* DODÁVKA S KLÍČEM

* SUPPLIED WITH WRENCH

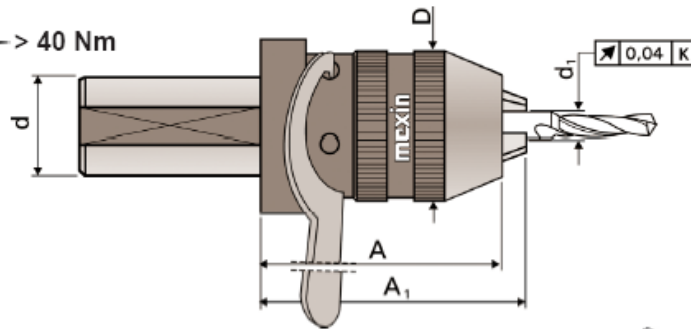




SAMOSVORNÁ PŘESNÁ VRTACÍ HLAVIČKA
 pouze pro pravý chod (otáčky)
SELF CLAMPING SHORT PRECISION DRILL CHUCKS
 for right turn only

DIN 1835-A

40.295

UPÍNACÍ MOMENT : } > 40 Nm
 TIGHTENING TORQUE : }



| REF. 40.295 | d mm | d ₁ mm | D mm | A mm | A ₁ max mm |  |  |
|--------------|------|-------------------|------|------|-----------------------|---|---|
| 40.295.25.08 | 25 | 0-8 | 36 | 68 | 76 | 89.200.08 | 89.220.08 |
| 40.295.30.08 | 30 | 0-8 | 36 | 68 | 76 | 89.200.08 | 89.220.08 |
| 40.295.32.08 | 32 | 0-8 | 36 | 68 | 76 | 89.200.08 | 89.220.08 |
| 40.295.32.13 | | 0-13 | 50,5 | 90 | 101 | 89.200.13 | 89.220.13 |
| 40.295.40.13 | 40 | 0-13 | 50,5 | 90 | 101 | 89.200.13 | 89.220.13 |
| 40.295.40.16 | | 3-16 | 58 | 96 | 109 | 89.200.16 | 89.220.16 |
| 40.295.50.16 | 50 | 3-16 | 58 | 96 | 109 | 89.200.16 | 89.220.16 |

* DODÁVKA S KLÍČEM

* SUPPLIED WITH WRENCH



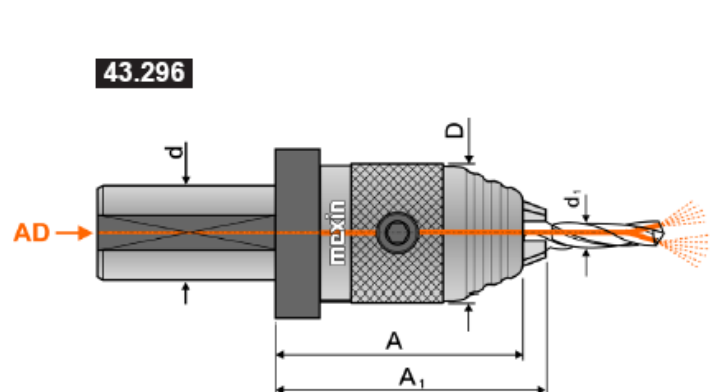
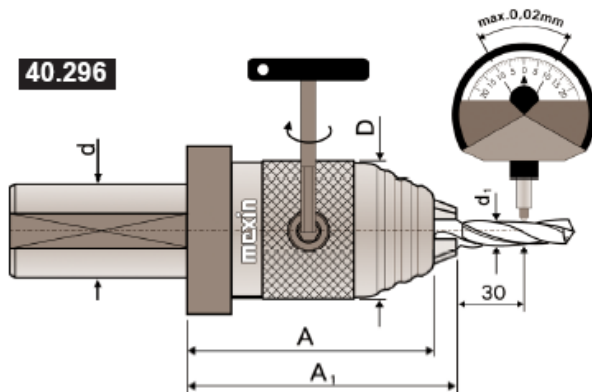
PŘESNÁ UNIVERZÁLNÍ CNC VRTACÍ HLAVIČKA
 pro pravý a levý směr otáček
CNC-UNIVERSAL PRECISION DRILL CHUCKS
 for left and right hand turn



DIN 1835-A

40/43.296

UPÍNACÍ MOMENT : } > 70 Nm
 TIGHTENING TORQUE : }

PŘÍVOD CHLAZENÍ STŘEDEM
 CENTRAL COOLANT SUPPLY



| REF. 40.296 | d mm | d ₁ mm | D mm | A mm | A ₁ max mm |  |  |
|--------------|------|-------------------|------|------|-----------------------|---|---|
| 40.296.25.13 | 25 | 1-13 | 50 | 80,5 | 87,5 | 89.206.06 | 89.220.13 |
| 40.296.32.13 | 32 | 1-13 | 50 | 80,5 | 87,5 | 89.206.06 | 89.220.13 |
| 40.296.32.16 | | 3-16 | 56 | 87,5 | 94,5 | 89.206.06 | 89.220.13 |
| 40.296.40.13 | 40 | 1-13 | 50 | 80,5 | 87,5 | 89.206.06 | 89.220.13 |
| 40.296.40.16 | | 3-16 | 57 | 87,5 | 94,5 | 89.206.06 | 89.220.13 |
| 43.296.25.13 | 25 | 1-13 | 50 | 80,5 | 87,5 | 89.206.06 | 89.220.13 |
| 43.296.32.13 | 32 | 1-13 | 50 | 80,5 | 87,5 | 89.206.06 | 89.220.13 |
| 43.296.32.16 | | 3-16 | 56 | 87,5 | 94,5 | 89.206.06 | 89.220.13 |
| 43.296.40.13 | 40 | 1-13 | 50 | 80,5 | 87,5 | 89.206.06 | 89.220.13 |
| 43.296.40.16 | | 3-16 | 57 | 87,5 | 94,5 | 89.206.06 | 89.220.13 |

* DODÁVKA S KLÍČEM

* SUPPLIED WITH WRENCH

COOLANT SUPPLY

V přední části držáku jsou tři pohyblivé vývody které lze individuálně nastavit pro přívod chladicí kapaliny do požadovaného bodu. Mechanismus pracuje s hydraulickým systémem tvořeným dvěma šrouby ovládající písty. Chlazení může být vedeno přes chladicí otvory středem nástroje (typ AD), přední částí upínání / límce (typ B) nebo oběma současně.

Při použití standardního 6hranného klíče 3mm může být píst otočen do polohy A nebo B podle toho, jakým způsobem chceme použít chlazení:

- Přes přední část (3 vývody): Písty jsou nastaveny v poloze A
- Přes střed nástroje: Písty jsou nastaveny v poloze B
- Přes obě části současně: Píst 2 je nastaven v pozici A a píst 1 je nastaven v pozici B

In the frontal part there are three mobile outlets, each one individually supplying the coolant over the required points. By using an hydraulic system consisting in two screws working over pistons. The coolant can be supplied through the coolant holes of the tool, through the front part of the chuck or both parts, simultaneously.

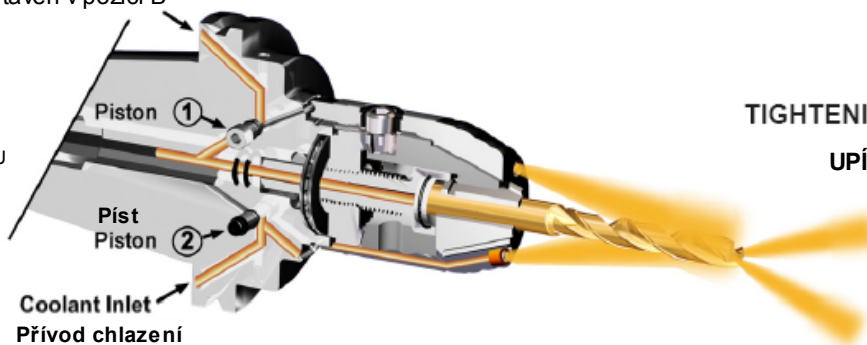
By using a standard hexagonal 3mm wrench the pistons can turn in A or B senses, in the manner that we want to distribute the coolant as follows:

- Through the frontal part: Turn pistons in the A sense.
- Through the central part: Turn pistons in the B sense.
- Through both parts simultaneously: Turn piston 2 in the A sense and piston 1 in the B sense.

PISTONS SENSE



POLOHA PÍSTU



TIGHTENING TORQUE:
 UPÍNACÍ MOMENT: } > 70 Nm

PŘESNÁ UNIVERZÁLNÍ CNC VRTACÍ HLAVIČKA
PRO PRAVÝ A LEVÝ SMĚR OTÁČEK

Nejpokročilejší technologie: Upínací systém umožňuje pravý a levý chod. Tuhá konstrukce upínače umožňuje zmenšit jeho objem (velikost).

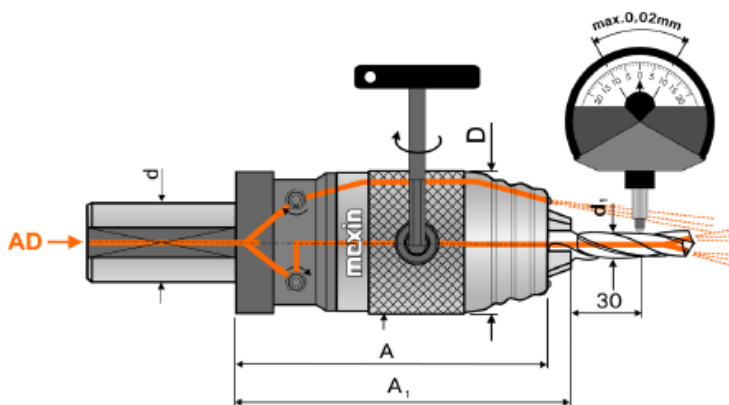
Při upínacím momentu 12Nm působícím na dynamometrický klíč se dosáhne upínací síly 70Nm na nástroji. Obvodové házení na nástroji nepřekračuje hodnotu 0,020 mm.

CNC-UNIVERSAL PRECISION DRILL CHUCKS
FOR LEFT AND RIGHT TURN

The most advanced mechanical technology: The tightening system provides to work left and right hand turning. The compact and the built-in construction of this drill chuck allowed us to reduce its volume.

With Tightening torque of 12 Nm over the mechanism by using dynamometric key, a tightening force of 70 Nm over tool it is reached.

Run out under 0,020mm.



REF. **43.297**

| | d mm | d ₁ mm | D mm | A mm | A ₁ max mm | | |
|--------------|---------|----------------------|---------|---------|--------------------------|-----------|-----------|
| 43.297.25.13 | 25 | 1-13 | 58 | 90 | 97 | 89.206.06 | 89.220.13 |
| 43.297.32.13 | 32 | 1-13 | 58 | 90 | 97 | 89.206.06 | 89.220.13 |
| 43.297.32.16 | | 3-16 | 60 | 97 | 104 | 89.206.06 | 89.220.13 |
| 43.297.40.13 | 40 | 1-13 | 58 | 90 | 97 | 89.206.06 | 89.220.13 |
| 43.297.40.16 | | 3-16 | 60 | 97 | 104 | 89.206.06 | 89.220.13 |

* DODÁVKA S KLÍČEM

* SUPPLIED WITH WRENCH



KLEŠTINOVÉ UPÍNAČE PRO ER KLEŠTINY DIN 6499

pro nástroje s válcovou stopkou

COLLET CHUCKS FOR DIN 6499 (ER) COLLETS

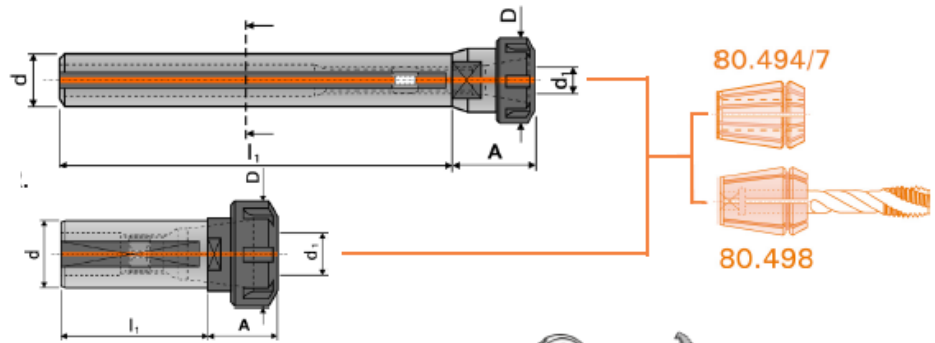
for tools with cylindrical shank

DIN 1835-A

40.453

S UPÍNAČÍ PLOŠKOU PRO CNC
SOUSTRUHY A REVOLVEROVÉ
SOUSTRUHY.

WITH CLAMPING FLAT FOR CNC
LATHES AND TURRET LATHES.



REF. 40.453

| REF. 40.453 | d mm | | d ₁ mm | A mm | I ₁ mm | D mm | h ₁ mm | | | |
|------------------|---------|-------|----------------------|---------|----------------------|---------|----------------------|-----------|-----------|-----------|
| 40.453.20.10/050 | 20 | ER 16 | 0,5-10 | 31,5 | 50 | 32 | 19,5 | 80.493.10 | 89.202.10 | 89.192.10 |
| 40.453.20.10/100 | 20 | ER 16 | 0,5-10 | 31,5 | 100 | 32 | 19,5 | 80.493.10 | 89.202.10 | 89.192.10 |
| 40.453.20.10/150 | 20 | ER 16 | 0,5-10 | 31,5 | 150 | 32 | 19,5 | 80.493.10 | 89.202.10 | 89.192.10 |
| 40.453.20.16/050 | 20 | ER 25 | 1-16 | 46,5 | 50 | 42 | 19,5 | 80.493.16 | 89.202.16 | 89.192.10 |
| 40.453.20.16/100 | 20 | ER 25 | 1-16 | 46,5 | 100 | 42 | 19,5 | 80.493.16 | 89.202.16 | 89.192.10 |
| 40.453.20.16/150 | 20 | ER 25 | 1-16 | 46,5 | 150 | 42 | 19,5 | 80.493.16 | 89.202.16 | 89.192.10 |
| 40.453.20.20/050 | 20 | ER 32 | 2-20 | 54,5 | 50 | 50 | 19,5 | 80.493.20 | 89.202.20 | 89.192.10 |
| 40.453.20.20/100 | 20 | ER 32 | 2-20 | 54,5 | 100 | 50 | 19,5 | 80.493.20 | 89.202.20 | 89.192.10 |
| 40.453.25.13/050 | 25 | ER 20 | 1-13 | 33,5 | 50 | 35 | 24 | 80.493.13 | 89.202.13 | 89.192.13 |
| 40.453.25.13/100 | 25 | ER 20 | 1-13 | 33,5 | 100 | 35 | 24 | 80.493.13 | 89.202.13 | 89.192.13 |
| 40.453.25.13/150 | 25 | ER 20 | 1-13 | 33,5 | 150 | 35 | 24 | 80.493.13 | 89.202.13 | 89.192.13 |
| 40.453.25.16/050 | 25 | ER 25 | 1-16 | 46,5 | 50 | 42 | 24 | 80.493.16 | 89.202.16 | 89.192.16 |
| 40.453.25.16/100 | 25 | ER 25 | 1-16 | 46,5 | 100 | 42 | 24 | 80.493.16 | 89.202.16 | 89.192.16 |
| 40.453.25.20/050 | 25 | ER 32 | 2-20 | 52,5 | 50 | 50 | 24 | 80.493.20 | 89.202.20 | 89.192.16 |
| 40.453.25.20/100 | 25 | ER 32 | 2-20 | 52,5 | 100 | 50 | 24 | 80.493.20 | 89.202.20 | 89.192.16 |
| 40.453.25.26/050 | 25 | ER 40 | 3-30 | 60,5 | 50 | 63 | 24 | 80.493.26 | 89.202.26 | 89.192.16 |
| 40.453.32.20/050 | 32 | ER 32 | 2-20 | 52,5 | 50 | 50 | 31 | 80.493.20 | 89.202.20 | 89.192.20 |
| 40.453.32.26/050 | 32 | ER 40 | 3-30 | 60,5 | 50 | 63 | 31 | 80.493.26 | 89.202.26 | 89.192.20 |
| 40.453.40.20/075 | 40 | ER 32 | 2-20 | 52 | 75 | 50 | 38 | 80.493.20 | 89.202.20 | 89.192.20 |
| 40.453.40.26/075 | 40 | ER 40 | 3-30 | 60,5 | 75 | 63 | 38 | 80.493.26 | 89.202.26 | 89.192.20 |

* DODÁVKA BEZ KLÍČE

* SUPPLIED WITHOUT WRENCH



DLOUHÉ KLEŠTINOVÉ UPÍNAČE PRO ER KLEŠTINY DIN 6499

pro nástroje s válcovou stopkou

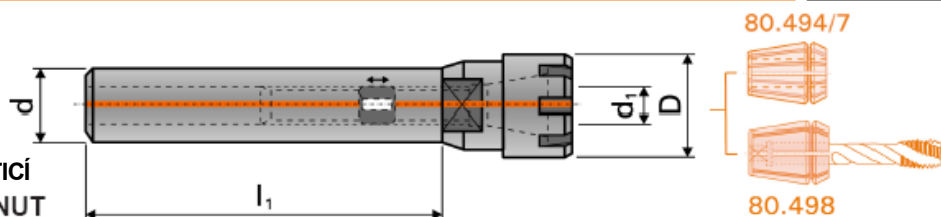
LONG COLLET CHUCKS FOR DIN 6499 (ER) COLLETS

for tools with cylindrical shank

DIN 1835-A

40.455

S «MINI» KLEŠTINOU MATICÍ
WITH «MINI» COLLET NUT



REF. 40.455

| REF. 40.455 | d mm | | d ₁ mm | A mm | I ₁ mm | D mm | MINI | | |
|------------------|---------|-------|----------------------|---------|----------------------|---------|-----------|-----------|-----------|
| 40.455.12.10/080 | 12 | ER 16 | 0,5-10 | 40,5 | 80 | 22 | 80.495.10 | 89.205.10 | 89.190.21 |
| 40.455.16.10/050 | 16 | ER 16 | 0,5-10 | 36,5 | 50 | 22 | 80.495.10 | 89.205.10 | 89.192.10 |
| 40.455.16.10/100 | 16 | ER 16 | 0,5-10 | 36,5 | 100 | 22 | 80.495.10 | 89.205.10 | 89.192.10 |
| 40.455.16.10/150 | 16 | ER 16 | 0,5-10 | 36,5 | 150 | 22 | 80.495.10 | 89.205.10 | 89.192.10 |
| 40.455.16.13/050 | 16 | ER 20 | 1-13 | 33,5 | 50 | 28 | 80.495.13 | 89.205.13 | 89.192.10 |
| 40.455.16.13/100 | 16 | ER 20 | 1-13 | 33,5 | 100 | 28 | 80.495.13 | 89.205.13 | 89.192.10 |
| 40.455.16.13/150 | 16 | ER 20 | 1-13 | 33,5 | 150 | 28 | 80.495.13 | 89.205.13 | 89.192.10 |
| 40.455.20.10/050 | 20 | ER 16 | 0,5-10 | 30,5 | 50 | 22 | 80.495.10 | 89.205.10 | 89.192.10 |
| 40.455.20.10/100 | 20 | ER 16 | 0,5-10 | 30,5 | 100 | 22 | 80.495.10 | 89.205.10 | 89.192.10 |
| 40.455.20.10/150 | 20 | ER 16 | 0,5-10 | 30,5 | 150 | 22 | 80.495.10 | 89.205.10 | 89.192.10 |
| 40.455.20.13/050 | 20 | ER 20 | 1-13 | 33,5 | 50 | 28 | 80.495.13 | 89.205.13 | 89.192.13 |
| 40.455.20.13/100 | 20 | ER 20 | 1-13 | 33,5 | 100 | 28 | 80.495.13 | 89.205.13 | 89.192.13 |
| 40.455.20.13/150 | 20 | ER 20 | 1-13 | 33,5 | 150 | 28 | 80.495.13 | 89.205.13 | 89.192.13 |

* DODÁVKA BEZ KLÍČE

* SUPPLIED WITHOUT WRENCH



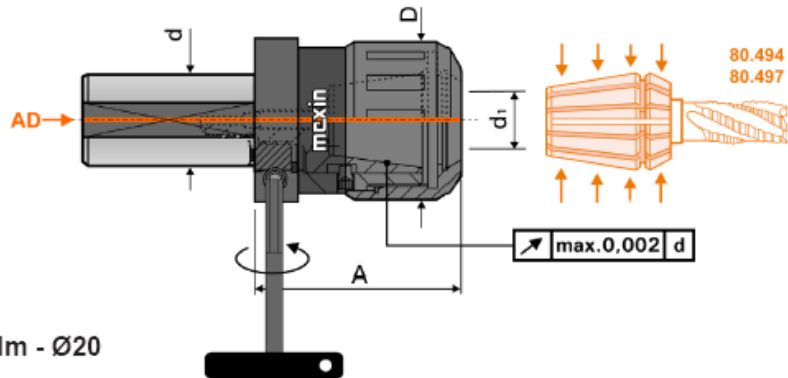
MECHANICKÝ KLEŠTINOVÝ UPÍNAČ S VYSOKÝM UPÍNACÍM MOMENTEM pro ER kleštiny DIN 6499
MECHANICAL COLLET CHUCKS WITH HIGH TIGHTENING TORQUE for DIN 6499 (ER) collets

DIN 1835-B

43.457

Alternativa hydraulických a ostatních upínačů.
 Vysoká upínací síla a přesnost.
 Přívod chlazení středem.

The alternative to hydraulic or other systems.
 High tightening and precision.
 Central coolant supply.



UPÍNACÍ MOMENT : } > 300 Nm - Ø20
 TIGHTENING TORQUE : }

| REF. 43.457 | d mm | | d ₁ mm | A mm | D mm | | | |
|--------------------|------|--------|-------------------|------|------|-----------|-----------|-----------|
| 43.457.25.20 | 25 | ERF 32 | 2-20 | 79 | 54 | 80.457.20 | 89.190.21 | 89.206.04 |
| 43.457.32.20 | 32 | ERF 32 | 2-20 | 79 | 54 | 80.457.20 | 89.190.21 | 89.206.04 |
| 43.457.40.30 | 40 | ERF 40 | 3-30 | 88 | 65 | 80.457.30 | 89.190.37 | 89.206.06 |

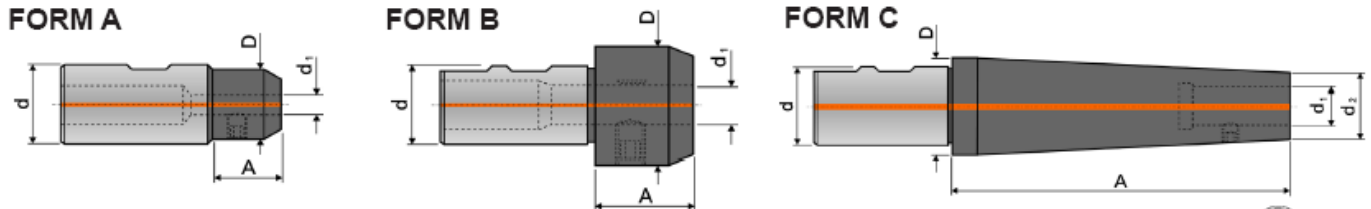
* DODÁVKA S KLÍČEM * SUPPLIED WITH WRENCH



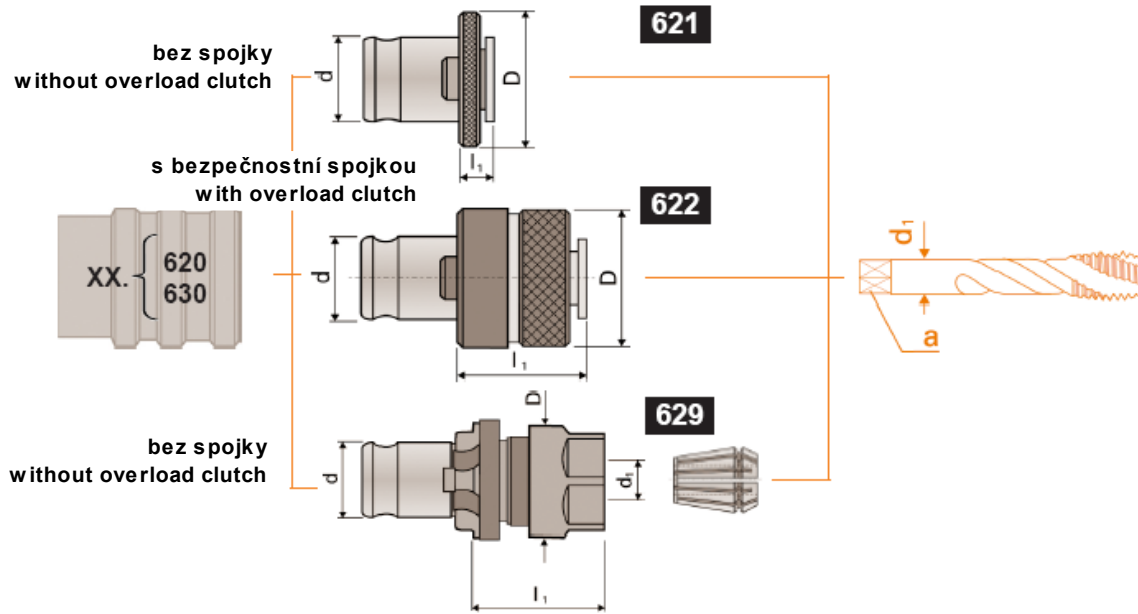
KRÁTKÉ A DLOUHÉ REDUKČNÍ POUZDRA pro frézy s válcovou stopkou a ploškou Weldon dle DIN 1835-B
SHORT AND LONG REDUCING BUSHINGS for cutters with cylindrical shank and weldon flat DIN 1835-B

DIN 1835-B

42.300/311



| REF. 42.300 | d mm | d ₁ H5 mm | A mm | D mm | FORM | d ₂ mm | |
|--------------------|------|----------------------|------|------|------|-------------------|-----------|
| 42.300.20.06 | 20 | 6 | 30 | 25 | B | | 89.122.20 |
| 42.300.20.08 | | 8 | 30 | 28 | B | | 89.122.35 |
| 42.300.20.10 | | 10 | 35 | 35 | B | | 89.122.40 |
| 42.300.20.12 | | 12 | 35 | 42 | B | | 89.122.50 |
| 42.300.20.14 | | 14 | 35 | 44 | B | | 89.122.50 |
| 42.300.20.16 | | 16 | 60 | 48 | B | | 89.122.60 |
| 42.300.25.06 | 25 | 6 | 30 | 25 | A | | 89.122.20 |
| 42.300.25.10 | | 10 | 35 | 35 | B | | 89.122.40 |
| 42.300.25.12 | | 12 | 35 | 42 | B | | 89.122.50 |
| 42.300.25.14 | | 14 | 35 | 44 | B | | 89.122.50 |
| 42.300.25.16 | | 16 | 40 | 48 | B | | 89.122.60 |
| 42.300.32.06 | 32 | 6 | 30 | 25 | A | | 89.122.20 |
| 42.300.32.08 | | 8 | 30 | 28 | A | | 89.122.35 |
| 42.300.32.10 | | 10 | 35 | 35 | B | | 89.122.40 |
| 42.300.32.12 | | 12 | 35 | 42 | B | | 89.122.50 |
| 42.300.32.14 | | 14 | 35 | 44 | B | | 89.122.50 |
| 42.300.32.16 | | 16 | 40 | 48 | B | | 89.122.60 |
| 42.300.32.18 | | 18 | 40 | 50 | B | | 89.122.60 |
| 42.300.32.20 | | 20 | 40 | 52 | B | | 89.122.65 |
| REF. 42.311 | | | | | | | |
| 42.311.40.08 | 40 | 8 | 175 | 50 | C | 16 | 89.121.33 |
| 42.311.40.10 | | 10 | 175 | 50 | C | 20 | 89.121.33 |
| 42.311.40.12 | | 12 | 175 | 50 | C | 22 | 89.121.33 |
| 42.311.40.16 | | 16 | 175 | 50 | C | 28 | 89.121.38 |
| 42.311.40.20 | | 20 | 175 | 50 | C | 34 | 89.121.38 |
| 42.311.40.25 | | 25 | 175 | 50 | C | 40 | 89.121.38 |
| 42.311.40.32 | | 32 | 180 | 50 | C | 46 | 89.121.38 |



49.621.12

d = 19 mm l₁ = 7 mm
D = 30 mm

| REF. | DIN d ₁ x a mm |
|--------------|---------------------------|
| 49.621.12.02 | 2,8 x 2,1 |
| 49.621.12.03 | 3,5 x 2,7 |
| 49.621.12.04 | 4 x 3 |
| 49.621.12.05 | 4,5 x 3,4 |
| 49.621.12.06 | 5,5 x 3,4 |
| 49.621.12.07 | 6 x 4,9 |
| 49.621.12.08 | 7 x 5,5 |
| 49.621.12.09 | 8 x 6,2 |
| 49.621.12.10 | 9 x 7 |
| 49.621.12.11 | 10 x 8 |
| 49.621.12.12 | 11 x 9 |
| 49.621.12.13 | 12 x 9 |

49.621.20

d = 31 mm l₁ = 11 mm
D = 48 mm

| REF. | DIN d ₁ x a mm |
|--------------|---------------------------|
| 49.621.20.07 | 6 x 4,9 |
| 49.621.20.08 | 7 x 5,5 |
| 49.621.20.09 | 8 x 6,2 |
| 49.621.20.10 | 9 x 7 |
| 49.621.20.11 | 10 x 8 |
| 49.621.20.12 | 11 x 9 |
| 49.621.20.13 | 12 x 9 |
| 49.621.20.14 | 14 x 11 |
| 49.621.20.15 | 16 x 12 |
| 49.621.20.16 | 18 x 14,5 |
| 49.621.20.17 | 20 x 16 |
| 49.621.20.18 | 22 x 18 |

49.621.33

d = 48 mm l₁ = 14 mm
D = 70 mm

| REF. | DIN d ₁ x a mm |
|--------------|---------------------------|
| 49.621.33.12 | 11 x 9 |
| 49.621.33.13 | 12 x 9 |
| 49.621.33.14 | 14 x 11 |
| 49.621.33.15 | 16 x 12 |
| 49.621.33.16 | 18 x 14,5 |
| 49.621.33.17 | 20 x 16 |
| 49.621.33.18 | 22 x 18 |
| 49.621.33.19 | 25 x 20 |
| 49.621.33.20 | 28 x 22 |
| 49.621.33.21 | 32 x 24 |
| 49.621.33.22 | 36 x 29 |

49.622.12

d = 19 mm l₁ = 25 mm
D = 32 mm

| REF. | DIN d ₁ x a mm |
|--------------|---------------------------|
| 49.622.12.02 | 2,8 x 2,1 |
| 49.622.12.03 | 3,5 x 2,7 |
| 49.622.12.04 | 4 x 3 |
| 49.622.12.05 | 4,5 x 3,4 |
| 49.622.12.06 | 5,5 x 3,4 |
| 49.622.12.07 | 6 x 4,9 |
| 49.622.12.08 | 7 x 5,5 |
| 49.622.12.09 | 8 x 6,2 |
| 49.622.12.10 | 9 x 7 |
| 49.622.12.11 | 10 x 8 |
| 49.622.12.12 | 11 x 9 |
| 49.622.12.13 | 12 x 9 |

49.622.20

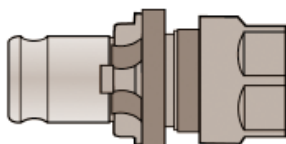
d = 31 mm l₁ = 34 mm
D = 50 mm

| REF. | DIN d ₁ x a mm |
|--------------|---------------------------|
| 49.622.20.07 | 6 x 4,9 |
| 49.622.20.08 | 7 x 5,5 |
| 49.622.20.09 | 8 x 6,2 |
| 49.622.20.10 | 9 x 7 |
| 49.622.20.11 | 10 x 8 |
| 49.622.20.12 | 11 x 9 |
| 49.622.20.13 | 12 x 9 |
| 49.622.20.14 | 14 x 11 |
| 49.622.20.15 | 16 x 12 |
| 49.622.20.16 | 18 x 14,5 |
| 49.622.20.17 | 20 x 16 |
| 49.622.20.18 | 22 x 18 |

49.622.33

d = 48 mm l₁ = 45 mm
D = 72 mm

| REF. | DIN d ₁ x a mm |
|--------------|---------------------------|
| 49.622.33.10 | 9 x 7 |
| 49.622.33.12 | 11 x 9 |
| 49.622.33.13 | 12 x 9 |
| 49.622.33.14 | 14 x 11 |
| 49.622.33.15 | 16 x 12 |
| 49.622.33.16 | 18 x 14,5 |
| 49.622.33.17 | 20 x 16 |
| 49.622.33.18 | 22 x 18 |
| 49.622.33.19 | 25 x 20 |
| 49.622.33.20 | 28 x 22 |
| 49.622.33.21 | 32 x 24 |
| 49.622.33.22 | 36 x 29 |



49.629.19.12

d = 19 mm l₁ = 29 mm
D = 28 mm

| REF. | ER 16 | M2-M10 |
|--------------|-------|--------|
| 49.629.19.12 | ER 16 | M2-M10 |

49.629.31.20

d = 31 mm l₁ = 38 mm
D = 42 mm

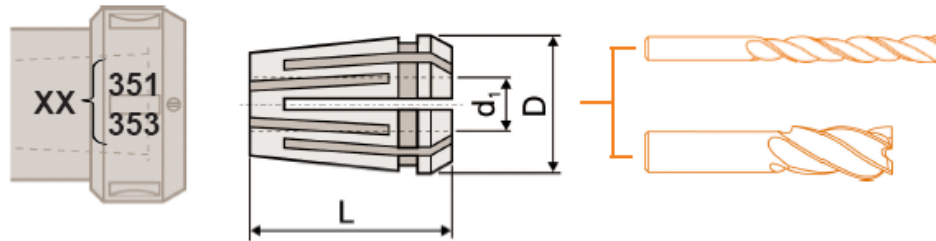
| REF. | ER 16 | M2-M10 |
|--------------|-------|--------|
| 49.629.19.12 | ER 16 | M2-M10 |

| "XX" | Ø X □ | DIN 352 | DIN 5156 5157 | DIN 371 | DIN 374 | DIN 376 | DIN 371 | DIN 374 376 |
|------|-----------|---------|------------------|---------|---------|---------|-----------|----------------|
| 01 | 2,5 x 2,1 | M 1/1,8 | | M 1/1,8 | M 3,5 | M 3,5 | 1/16" | |
| | | | | | | | Nr. 0 / 1 | |
| 02 | 2,8 x 2,1 | M 2 | | M 2 | M 4 | M 4 | 3/32" | |
| | | M 2,2 | | M 2,2 | | | Nr. 2 | |
| | | M 2,5 | | M 2,5 | | | Nr. 3 | |
| 03 | 3,5 x 2,7 | M 3 | | M 3 | M 5 | M 5 | 1/8" | |
| | | | | | | | Nr. 4 | |
| | | | | | | | Nr. 5 | |
| 04 | 4 x 3 | M 3,5 | | M 3,5 | M 5,5 | M 5,5 | Nr. 6 | |
| 05 | 4,5 x 3,4 | M 4 | | M 4 | M 6 | M 6 | 5/32" | |
| | | | | | | | Nr. 8 | |
| 06 | 5,5 x 4,3 | | | | M 7 | M 7 | | |
| 07 | 6 x 4,9 | M 4,5 | G1/16" | M 4,5 | M 8 | M 8 | Nr.10/12 | |
| | | M 5 | | M 5 | | | 3/16" | 1/4" |
| | | M 6 | | M 6 | | | 7/32" | 5/16" |
| | | M 7 | | | | | | |
| | | M 8 | | | | | | |
| 08 | 7 x 5,5 | M 10 | G 1/8" | M 7 | M10 | M 10 | 1/4" | 3/8" |
| 09 | 8 x 6,2 | M 11 | | M 8 | M 11 | M 11 | 5/16" | 7/16" |
| 10 | 9 x 7 | M 12 | | M 9 | M12 | M 12 | 3/8" | 1/2" |
| 11 | 10 x 8 | | | M10 | | | | |
| 12 | 11 x 9 | M 14 | G 1/4" | | M14 | M 14 | 9/16" | |
| 13 | 12 x 9 | M 16 | G 3/8" | | M16 | M 16 | 5/8" | |
| 14 | 14 x 11 | M 18 | | | M18 | M 18 | 11/16" | |
| | | | | | | | | 3/4" |
| 15 | 16 x 12 | M 20 | G 1/2" | | M20 | M 20 | 13/16" | |
| 16 | 18 x 14,5 | M 22 | G 5/8" | | M22 | M 22 | 7/8" | |
| | | M 24 | | | M24 | M 24 | 15/16" | |
| 17 | 20 x 16 | M 27 | G 3/4" | | M27 | M 27 | 1" | |
| 18 | 22 x 18 | M 30 | G 7/8" | | M30 | M 30 | 1.1/8" | |
| 19 | 25 x 20 | M 33 | G1" | | M33 | M 33 | 1.1/4" | |
| 20 | 28 x 22 | M 36 | G1.1/8" | | M36 | M 36 | 1.3/8" | |
| 21 | 32 x 24 | M 39 | G1.1/4" | | M39 | M 39 | 1.1/2" | |
| | | M 42 | | | M42 | M 42 | 1.5/8" | |
| 22 | 36 x 29 | M 45 | G1.3/8" | | M45 | M 45 | 1.3/4" | |
| | | M 48 | G1.1/2" | | M48 | M 48 | | 1.7/8" |

A = REDUKOVANÁ STOPKA / REDUCED SHANK

B = ZESÍLENÁ STOPKA / REINFORCED SHANK

| "XX" | Ø x □ | M - MF | | UNC - UNF | | BSW - BSF | | BA |
|------|------------|--------|----------|-----------|-------|-----------|------|-------|
| | | A | B | A | B | A | B | A |
| 30 | 2,24 x 1,8 | M 3 | | Nr. 5 | | 1/8 | | |
| 31 | 2,5 x 2 | M 3,5 | M 1,0/ 2 | Nr. 6 | Nr. 0 | | | Nr.11 |
| | | | | | Nr. 1 | | | Nr.10 |
| | | | | | | | | Nr. 9 |
| 32 | 2,8 x 2,24 | | M 2,2 | | Nr. 2 | | | Nr. 8 |
| | | | M 2,5 | | Nr. 3 | | | Nr. 7 |
| | | | | | | | | Nr. 6 |
| 33 | 3,15 x 2,5 | M 4 | M 3 | | Nr. 4 | | 1/8 | Nr. 5 |
| | | | | Nr. 8 | Nr. 5 | | | |
| 34 | 3,55 x 2,8 | M 4,5 | M 3,5 | Nr.10 | Nr. 6 | 3/16 | | Nr. 4 |
| 35 | 4 x 3,15 | M 5 | M 4 | Nr.12 | | 7/32 | | |
| 36 | 4,5 x 3,55 | M 6 | M 4,5 | 1/4 | Nr. 8 | 1/4 | | Nr. 3 |
| 37 | 5 x 4 | | M 5 | | Nr.10 | | 3/16 | Nr. 2 |
| 38 | 5,6 x 4,5 | M 7 | | | Nr.12 | 9/32 | 7/32 | Nr. 1 |
| 39 | 6,3 x 5 | M 8 | M 6 | 5/16 | 1/4 | 5/16 | 1/4 | Nr. 0 |
| 40 | 7,1 x 5,6 | M 9 | M 7 | 3/8 | | 3/8 | 9/32 | |
| 41 | 8 x 6,3 | M10 | M 8 | 7/16 | 5/16 | 7/16 | 5/16 | |
| 42 | 9 x 7,1 | M12 | M 9 | 1/2 | | 1/2 | | |
| 11 | 10 x 8 | | M10 | | 3/8 | | 3/8 | |
| 43 | 11,2 x 9 | M 14 | | 9/16 | | 9/16 | | |
| 44 | 12,5 x 10 | M 16 | | 5/8 | | 5/8 | | |
| 45 | 14 x 11,2 | M 18 | | | | 11/16 | | |
| | | M20 | | 3/4 | | 3/4 | | |
| 46 | 16 x 12,5 | M22 | | 7/8 | | 7/8 | | |
| 47 | 18 x 14 | M24 | | 1 | | 1 | | |
| 17 | 20 x 16 | M27 | | 1.1/8 | | 1.1/8 | | |
| | | M30 | | | | | | |
| 48 | 22,4 x 18 | M33 | | 1.1/4 | | 1.1/4 | | |
| 19 | 25 x 20 | M36 | | 1.3/8 | | 1.3/8 | | |
| 49 | 28 x 22,4 | M39 | | 1.1/2 | | 1.1/2 | | |
| | | M42 | | | | 1.5/8 | | |
| 50 | 31,5 x 25 | M45 | | 1.3/4 | | 1.3/4 | | |
| | | M48 | | | | | | |
| 51 | 35,45 x 28 | M 52 | | 2 | | 2 | | |
| | | | | | | | | |



80.394.16 B 16

D = 25,5 mm L = 40 mm

| REF. | d ₁ mm |
|---------------|----------------------|
| 80.394.16.020 | 2 - 1,5 |
| 80.394.16.025 | 2,5 - 2 |
| 80.394.16.030 | 3 - 2,5 |
| 80.394.16.035 | 3,5 - 3 |
| 80.394.16.040 | 4 - 3,5 |
| 80.394.16.045 | 4,5 - 4 |
| 80.394.16.050 | 5 - 4,5 |
| 80.394.16.055 | 5,5 - 5 |
| 80.394.16.060 | 6 - 5,5 |
| 80.394.16.065 | 6,5 - 6 |
| 80.394.16.070 | 7 - 6,5 |
| 80.394.16.075 | 7,5 - 7 |
| 80.394.16.080 | 8 - 7,5 |
| 80.394.16.085 | 8,5 - 8 |
| 80.394.16.090 | 9 - 8,5 |
| 80.394.16.095 | 9,5 - 9 |
| 80.394.16.100 | 10 - 9,5 |
| 80.394.16.105 | 10,5 - 10 |
| 80.394.16.110 | 11 - 10,5 |
| 80.394.16.115 | 11,5 - 11 |
| 80.394.16.120 | 12 - 11,5 |
| 80.394.16.125 | 12,5 - 12 |
| 80.394.16.130 | 13 - 12,5 |
| 80.394.16.135 | 13,5 - 13 |
| 80.394.16.140 | 14 - 13,5 |
| 80.394.16.145 | 14,5 - 14 |
| 80.394.16.150 | 15 - 14,5 |
| 80.394.16.155 | 15,5 - 15 |
| 80.394.16.160 | 16 - 15,5 |

80.394.25 B 25

D = 35,5 mm L = 52 mm

| REF. | d ₁ mm |
|---------------|----------------------|
| 80.394.25.030 | 3 - 2,5 |
| 80.394.25.035 | 3,5 - 3 |
| 80.394.25.040 | 4 - 3,5 |
| 80.394.25.045 | 4,5 - 4 |
| 80.394.25.050 | 5 - 4,5 |
| 80.394.25.055 | 5,5 - 5 |
| 80.394.25.060 | 6 - 5,5 |
| 80.394.25.065 | 6,5 - 6 |
| 80.394.25.070 | 7 - 6,5 |
| 80.394.25.075 | 7,5 - 7 |
| 80.394.25.080 | 8 - 7,5 |
| 80.394.25.085 | 8,5 - 8 |
| 80.394.25.090 | 9 - 8,5 |
| 80.394.25.095 | 9,5 - 9 |
| 80.394.25.100 | 10 - 9,5 |
| 80.394.25.105 | 10,5 - 10 |
| 80.394.25.110 | 11 - 10,5 |
| 80.394.25.115 | 11,5 - 11 |
| 80.394.25.120 | 12 - 11,5 |
| 80.394.25.125 | 12,5 - 12 |
| 80.394.25.130 | 13 - 12,5 |
| 80.394.25.135 | 13,5 - 13 |
| 80.394.25.140 | 14 - 13,5 |
| 80.394.25.145 | 14,5 - 14 |
| 80.394.25.150 | 15 - 14,5 |
| 80.394.25.155 | 15,5 - 15 |
| 80.394.25.160 | 16 - 15,5 |
| 80.394.25.165 | 16,5 - 16 |
| 80.394.25.170 | 17 - 16,5 |
| 80.394.25.175 | 17,5 - 17 |
| 80.394.25.180 | 18 - 17,5 |
| 80.394.25.185 | 18,5 - 18 |
| 80.394.25.190 | 19 - 18,5 |
| 80.394.25.195 | 19,5 - 19 |
| 80.394.25.200 | 20 - 19,5 |
| 80.394.25.205 | 20,5 - 20 |
| 80.394.25.210 | 21 - 20,5 |
| 80.394.25.215 | 21,5 - 21 |
| 80.394.25.220 | 22 - 21,5 |
| 80.394.25.225 | 22,5 - 22 |
| 80.394.25.230 | 23 - 22,5 |
| 80.394.25.235 | 23,5 - 23 |
| 80.394.25.240 | 24 - 23,5 |
| 80.394.25.245 | 24,5 - 24 |
| 80.394.25.250 | 25 - 24,5 |

80.394.32 B 32

D = 44 mm L = 60 mm

| REF. | d ₁ mm |
|---------------|----------------------|
| 80.394.32.040 | 4 - 3,5 |
| 80.394.32.045 | 4,5 - 4 |
| 80.394.32.050 | 5 - 4,5 |
| 80.394.32.055 | 5,5 - 5 |
| 80.394.32.060 | 6 - 5,5 |
| 80.394.32.065 | 6,5 - 6 |
| 80.394.32.070 | 7 - 6,5 |
| 80.394.32.075 | 7,5 - 7 |
| 80.394.32.080 | 8 - 7,5 |
| 80.394.32.085 | 8,5 - 8 |
| 80.394.32.090 | 9 - 8,5 |
| 80.394.32.095 | 9,5 - 9 |
| 80.394.32.100 | 10 - 9,5 |
| 80.394.32.105 | 10,5 - 10 |
| 80.394.32.110 | 11 - 10,5 |
| 80.394.32.115 | 11,5 - 11 |
| 80.394.32.120 | 12 - 11,5 |
| 80.394.32.125 | 12,5 - 12 |
| 80.394.32.130 | 13 - 12,5 |
| 80.394.32.135 | 13,5 - 13 |
| 80.394.32.140 | 14 - 13,5 |
| 80.394.32.145 | 14,5 - 14 |
| 80.394.32.150 | 15 - 14,5 |
| 80.394.32.155 | 15,5 - 15 |
| 80.394.32.160 | 16 - 15,5 |
| 80.394.32.165 | 16,5 - 16 |
| 80.394.32.170 | 17 - 16,5 |
| 80.394.32.175 | 17,5 - 17 |
| 80.394.32.180 | 18 - 17,5 |
| 80.394.32.185 | 18,5 - 18 |
| 80.394.32.190 | 19 - 18,5 |
| 80.394.32.195 | 19,5 - 19 |
| 80.394.32.200 | 20 - 19,5 |
| 80.394.32.205 | 20,5 - 20 |
| 80.394.32.210 | 21 - 20,5 |
| 80.394.32.215 | 21,5 - 21 |
| 80.394.32.220 | 22 - 21,5 |
| 80.394.32.225 | 22,5 - 22 |
| 80.394.32.230 | 23 - 22,5 |
| 80.394.32.235 | 23,5 - 23 |
| 80.394.32.240 | 24 - 23,5 |
| 80.394.32.245 | 24,5 - 24 |
| 80.394.32.250 | 25 - 24,5 |
| 80.394.32.255 | 25,5 - 25 |
| 80.394.32.260 | 26 - 25,5 |
| 80.394.32.265 | 26,5 - 26 |
| 80.394.32.270 | 27 - 26,5 |
| 80.394.32.275 | 27,5 - 27 |
| 80.394.32.280 | 28 - 27,5 |
| 80.394.32.285 | 28,5 - 28 |
| 80.394.32.290 | 29 - 28,5 |
| 80.394.32.295 | 29,5 - 29 |
| 80.394.32.300 | 30 - 29,5 |
| 80.394.32.305 | 30,5 - 30 |
| 80.394.32.310 | 31 - 30,5 |
| 80.394.32.315 | 31,5 - 31 |
| 80.394.32.320 | 32 - 31,5 |



SADY KLEŠTIN DIN 6388 S KLÍČEM A KAZETOU
SETS OF COLLETS DIN 6388 WITH CASE AND WRENCH

DIN 6388

89.394

| | | |
|---------------|------------------|---|
| 89.800 | 89.201.16 | CAP-16 |
| | + + | 14 Ø3-4-5-6-7-8-9-10 11-12-13-14-15-16 |
| 89.800 | 89.201.25 | CAP-16 |
| | + + | 18 Ø3-4-5-6-7-8-9 10-11-12-13-14 15-16-18-20-22-25 |
| 89.800 | 89.201.32 | CAP-16 |
| | + + | 18 Ø4-5-6-7-8-9-10 11-12-13-14-15 16-18-20-22-25-32 |

| K ISO | REF. 89.394 |
|-------|--------------|
| 30 | 89.394.30.16 |
| 40 | 89.394.40.16 |
| 50 | 89.394.50.16 |

| K ISO | REF. 89.394 |
|-------|--------------|
| 30 | 89.394.30.25 |
| 40 | 89.394.40.25 |
| 50 | 89.394.50.25 |

| K ISO | REF. 89.394 |
|-------|--------------|
| 40 | 89.394.40.32 |
| 50 | 89.394.50.32 |



KAZETA PRO KLEŠTINOVÉ UPÍNAČE A KLEŠTINY
CASE FOR COLLET CHUCKS AND COLLETS

89.800



| 394 | 494 (ER) | |
|------------------|----------------------------|------------------|
| | | |
| 394.16 394.32 | 494.10 494.13 494.16 | 494.26 494.34 |
| 394.25 | 494.20 | |

| K ISO | REF. 89.800 |
|---------|-------------|
| - | 89.800.00 |
| 40 | 89.800.40 |
| 30 / 50 | 89.800.50 |

| | |
|---------|-----------|
| - | 89.800.01 |
| 40 | 89.800.41 |
| 30 / 50 | 89.800.51 |



SADA KLEŠTIN ER DIN 6499 TVAR B V PLATIKOVÉM KUFRU
SET OF COLLETS DIN 6499 (ER) FORM B IN A PLASTIC BOX

DIN 6499-B

89.494

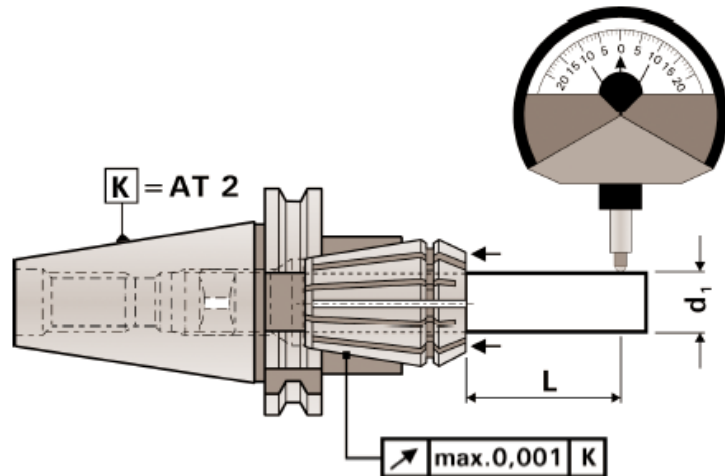


| REF. 89.494 | | CAP | n° | Ømm |
|--------------|-------|-----|----|--|
| 89.494.00.16 | ER 25 | 16 | 15 | 2-3-4-5-6-8-8-9-10-11-12-13-14-15-16 |
| 89.494.00.20 | ER 32 | 20 | 18 | 3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20 |

Níže uvedená tabulka uvádí porovnání standardní přesnosti dle normy DIN 6499 kleštiny MEXIN s kleštinami jiných značek.

Run out table of MEXIN collets according to DIN 6499 showing the high precision of normal collets type 80.494. In comparison with others brands.





KONTROLA MUSÍ BÝT PROVEDENA S VYSOKOU PŘESNOSTÍ.
 THE CONTROL MUST BE MADE WITH A HIGH PRECISION "MASTER".

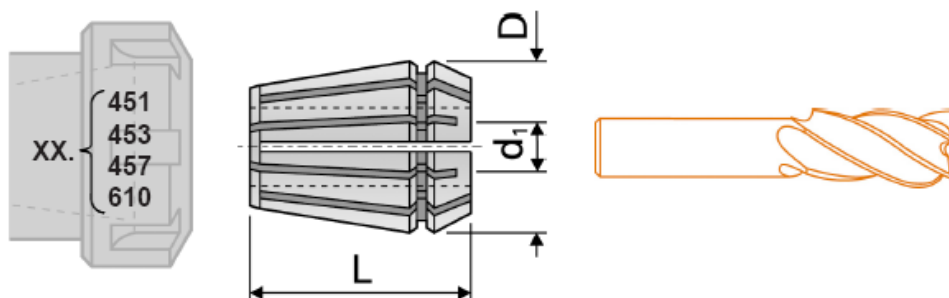


| d ₁ mm | L mm | DIN | | MEXIN | |
|----------------------|---------|------------------|----------------|--------------|-------------|
| | | KLASSE 2 mm | KLASSE 1 mm | NORMAL mm | SUPER mm |
| | | 80.492 80.498 | | 80.494 | |
| 1 - 1,6 | 6 | 0,015 | 0,010 | 0,010 | 0,005 |
| > 1,6 - 3 | 10 | 0,015 | 0,010 | 0,010 | 0,005 |
| > 3 - 7 | 16 | 0,015 | 0,010 | 0,010 | 0,005 |
| > 7 - 10 | 25 | 0,015 | 0,010 | 0,010 | 0,005 |
| > 10 - 18 | 40 | 0,020 | 0,015 | 0,015 | 0,005 |
| > 18 - 26 | 50 | 0,020 | 0,015 | 0,015 | 0,005 |
| > 26 - 34 | 60 | 0,025 | 0,020 | 0,020 | 0,010 |

DOPORUČENÉ UPÍNACÍ MOMENTY MATIC PRO KLEŠTINY DIN 6499 ER.

RECOMMENDED CLAMPING TORQUE FOR NUTS FOR DIN 6499 ER COLLETS

| | Normal | Ložisko Bearings | Mini |
|---|---|---|---|
|  |  |  |  |
| | 80.493 / 80.496 Max. moment Nm Max. Torque Nm | 80.491 Max. moment Nm Max. Torque Nm | 80.495 Max. moment Nm Max. Torque Nm |
| ER 16 | 35 / 60 | 50 / 70 | 25 / 30 |
| ER 20 | 40 / 100 | 50 / 100 | 25 / 35 |
| ER 25 | 80 / 120 | 90 / 130 | 35 / 40 |
| ER 32 | 100 / 130 | 130 / 170 | |
| ER 40 | 170 / 200 | 220 / 220 | |
| ER 50 | 280 / 300 | 300 / 300 | |



80.494.10 ER 16

D = 17 mm L = 27,5 mm

| REF. | d ₁ mm |
|---------------|----------------------|
| 80.494.10.010 | 1 - 0,5 |
| 80.494.10.015 | 1,5 - 1 |
| 80.494.10.020 | 2 - 1,5 |
| 80.494.10.025 | 2,5 - 2 |
| 80.494.10.030 | 3 - 2,5 |
| 80.494.10.040 | 4 - 3 |
| 80.494.10.050 | 5 - 4 |
| 80.494.10.060 | 6 - 5 |
| 80.494.10.070 | 7 - 6 |
| 80.494.10.080 | 8 - 7 |
| 80.494.10.090 | 9 - 8 |
| 80.494.10.100 | 10 - 9 |
| | |
| | |
| | |
| | |

80.494.13 ER 20

D = 21 mm L = 31,5 mm

| REF. | d ₁ mm |
|---------------|----------------------|
| 80.494.13.010 | 1 - 0,5 |
| 80.494.13.015 | 1,5 - 1 |
| 80.494.13.020 | 2 - 1,5 |
| 80.494.13.025 | 2,5 - 2 |
| 80.494.13.030 | 3 - 2,5 |
| 80.494.13.040 | 4 - 3 |
| 80.494.13.050 | 5 - 4 |
| 80.494.13.060 | 6 - 5 |
| 80.494.13.070 | 7 - 6 |
| 80.494.13.080 | 8 - 7 |
| 80.494.13.090 | 9 - 8 |
| 80.494.13.100 | 10 - 9 |
| 80.494.13.110 | 11 - 10 |
| 80.494.13.120 | 12 - 11 |
| 80.494.13.130 | 13 - 12 |
| | |
| | |
| | |
| | |

80.494.16 ER 25

D = 26 mm L = 34 mm

| REF. | d ₁ mm |
|---------------|----------------------|
| 80.494.16.010 | 1 - 0,5 |
| 80.494.16.015 | 1,5 - 1 |
| 80.494.16.020 | 2 - 1,5 |
| 80.494.16.025 | 2,5 - 2 |
| 80.494.16.030 | 3 - 2,5 |
| 80.494.16.040 | 4 - 3 |
| 80.494.16.050 | 5 - 4 |
| 80.494.16.060 | 6 - 5 |
| 80.494.16.070 | 7 - 6 |
| 80.494.16.080 | 8 - 7 |
| 80.494.16.090 | 9 - 8 |
| 80.494.16.100 | 10 - 9 |
| 80.494.16.110 | 11 - 10 |
| 80.494.16.120 | 12 - 11 |
| 80.494.16.130 | 13 - 12 |
| 80.494.16.140 | 14 - 13 |
| 80.494.16.150 | 15 - 14 |
| 80.494.16.160 | 16 - 15 |
| | |
| | |
| | |
| | |

80.494.20 ER 32

D = 33 mm L = 40 mm

| REF. | d ₁ mm |
|---------------|----------------------|
| 80.494.20.020 | 2 - 1,5 |
| 80.494.20.025 | 2,5 - 2 |
| 80.494.20.030 | 3 - 2,5 |
| 80.494.20.040 | 4 - 3 |
| 80.494.20.050 | 5 - 4 |
| 80.494.20.060 | 6 - 5 |
| 80.494.20.070 | 7 - 6 |
| 80.494.20.080 | 8 - 7 |
| 80.494.20.090 | 9 - 8 |
| 80.494.20.100 | 10 - 9 |
| 80.494.20.110 | 11 - 10 |
| 80.494.20.120 | 12 - 11 |
| 80.494.20.130 | 13 - 12 |
| 80.494.20.140 | 14 - 13 |
| 80.494.20.150 | 15 - 14 |
| 80.494.20.160 | 16 - 15 |
| 80.494.20.170 | 17 - 16 |
| 80.494.20.180 | 18 - 17 |
| 80.494.20.190 | 19 - 18 |
| 80.494.20.200 | 20 - 19 |
| | |
| | |
| | |
| | |

80.494.26 ER 40




D = 41 mm L = 46 mm



| REF. | d ₁ mm |
|---------------|----------------------|
| 80.494.26.030 | 3 - 2 |
| 80.494.26.040 | 4 - 3 |
| 80.494.26.050 | 5 - 4 |
| 80.494.26.060 | 6 - 5 |
| 80.494.26.070 | 7 - 6 |
| 80.494.26.080 | 8 - 7 |
| 80.494.26.090 | 9 - 8 |
| 80.494.26.100 | 10 - 9 |
| 80.494.26.110 | 11 - 10 |
| 80.494.26.120 | 12 - 11 |
| 80.494.26.130 | 13 - 12 |
| 80.494.26.140 | 14 - 13 |
| 80.494.26.150 | 15 - 14 |
| 80.494.26.160 | 16 - 15 |
| 80.494.26.170 | 17 - 16 |
| 80.494.26.180 | 18 - 17 |
| 80.494.26.190 | 19 - 18 |
| 80.494.26.200 | 20 - 19 |
| 80.494.26.210 | 21 - 20 |
| 80.494.26.220 | 22 - 21 |
| 80.494.26.230 | 23 - 22 |
| 80.494.26.240 | 24 - 23 |
| 80.494.26.250 | 25 - 24 |
| 80.494.26.260 | 26 - 25 |
| 80.494.26.270 | 27 - 26 |
| 80.494.26.280 | 28 - 27 |
| 80.494.26.290 | 29 - 28 |
| 80.494.26.300 | 30 - 29 |
| | |
| | |
| | |
| | |




80.494.34 ER 50




D = 52 mm L = 60 mm




| REF. | d ₁ mm |
|---------------|----------------------|
| 80.494.34.060 | 6 - 4 |
| 80.494.34.080 | 8 - 6 |
| 80.494.34.100 | 10 - 8 |
| 80.494.34.120 | 12 - 10 |
| 80.494.34.140 | 14 - 12 |
| 80.494.34.160 | 16 - 14 |
| 80.494.34.180 | 18 - 16 |
| 80.494.34.200 | 20 - 18 |
| 80.494.34.220 | 22 - 20 |
| 80.494.34.240 | 24 - 22 |
| 80.494.34.260 | 26 - 24 |
| 80.494.34.280 | 28 - 26 |
| 80.494.34.300 | 30 - 28 |
| 80.494.34.320 | 32 - 30 |
| 80.494.34.340 | 34 - 32 |
| | |
| | |
| | |
| | |




| | | |
|---|---|---|
| 89.800 | 89.202.10 | ER 16 CAP-10 |
|  |  | <p>10 </p> <p>Ø1-2-3-4-5-6 7-8-9-10</p> |

| | | |
|---|---|--|
| 89.800 | 89.202.13 | ER 20 CAP-13 |
|  |  | <p>12 </p> <p>Ø2-3-4-5-6 7-8-9-10-11 12-13</p> |

| | | |
|--|--|--|
| 89.800 | 89.202.16 | ER 25 CAP-16 |
|  |  | <p>15 </p> <p>Ø2-3-4-5-6-7 8-9-10-11-12 13-14-15-16</p> |

| | | |
|---|---|---|
| 89.800 | 89.202.20 | ER 32 CAP-20 |
|  |  | <p>18 </p> <p>Ø3-4-5-6-7-8-9-10 11-12-13-14-15 16-17-18-19-20</p> |

| | | |
|---|---|---|
| 89.800 | 89.202.26 | ER 40 CAP-26 |
|  |  | <p>23 </p> <p>Ø4-5-6-7-8-9-10-11-12 13-14-15-16-17-18-19 20-21-22-23-24-25-26</p> |

| | | |
|---|---|---|
| 89.800 | 89.202.34 | ER 50 CAP-34 |
|  |  | <p>11 </p> <p>Ø12-16-18-20 22-24-26-28 30-32-34</p> |

| K ISO | REF. 89.494 |
|-------|--------------|
| 30 | 89.494.30.10 |
| 40 | 89.494.40.10 |
| 50 | 89.494.50.10 |

| K ISO | REF. 89.494 |
|-------|--------------|
| 30 | 89.494.30.13 |
| 40 | 89.494.40.13 |
| 50 | 89.494.50.13 |

| K ISO | REF. 89.494 |
|-------|--------------|
| 30 | 89.494.30.16 |
| 40 | 89.494.40.16 |
| 50 | 89.494.50.16 |

| K ISO | REF. 89.494 |
|-------|--------------|
| 30 | 89.494.30.20 |
| 40 | 89.494.40.20 |
| 50 | 89.494.50.20 |

| K ISO | REF. 89.494 |
|-------|--------------|
| 40 | 89.494.40.26 |
| 50 | 89.494.50.26 |

| K ISO | REF. 89.494 |
|-------|--------------|
| 50 | 89.494.50.34 |



KLEŠTINY DIN 6499 – TVAR MEXIN (ER)
s pojištěním čtyřhranu a prodlužovacím elementem
COLLETS DIN 6499 - FORM MEXIN (ER)
 with square locking drive and tension length-adjustment

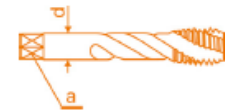
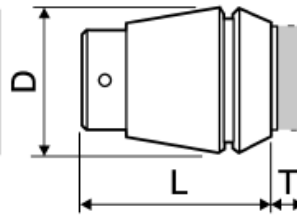
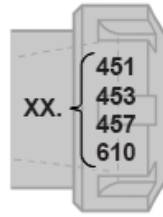
DIN 6499-MEXIN

80.490

80.490.10 ER 16

D = 17 mm L = 27 mm T = 7 mm

| REF. | DIN | dxa | mm |
|--------------|-----|-----|-----|
| 80.490.10.01 | 2,5 | x | 2,1 |
| 80.490.10.02 | 2,8 | x | 2,1 |
| 80.490.10.03 | 3,5 | x | 2,7 |
| 80.490.10.04 | 4 | x | 3 |
| 80.490.10.05 | 4,5 | x | 3,4 |
| 80.490.10.06 | 5,5 | x | 4,3 |
| 80.490.10.07 | 6 | x | 4,9 |



80.490.13 ER 20

D = 21 mm L = 31 mm T = 7 mm

| REF. | DIN | dxa | mm |
|--------------|-----|-----|-----|
| 80.490.13.01 | 2,5 | x | 2,1 |
| 80.490.13.02 | 2,8 | x | 2,1 |
| 80.490.13.03 | 3,5 | x | 2,7 |
| 80.490.13.04 | 4 | x | 3 |
| 80.490.13.05 | 4,5 | x | 3,4 |
| 80.490.13.06 | 5,5 | x | 4,3 |
| 80.490.13.07 | 6 | x | 4,9 |
| 80.490.13.08 | 7 | x | 5,5 |

80.490.16 ER 25

D = 26 mm L = 34 mm T = 8 mm

| REF. | DIN | dxa | mm |
|--------------|-----|-----|-----|
| 80.490.16.01 | 2,5 | x | 2,1 |
| 80.490.16.02 | 2,8 | x | 2,1 |
| 80.490.16.03 | 3,5 | x | 2,7 |
| 80.490.16.04 | 4 | x | 3 |
| 80.490.16.05 | 4,5 | x | 3,4 |
| 80.490.16.06 | 5,5 | x | 4,3 |
| 80.490.16.07 | 6 | x | 4,9 |
| 80.490.16.08 | 7 | x | 5,5 |
| 80.490.16.09 | 8 | x | 6,2 |
| 80.490.16.10 | 9 | x | 7 |

80.490.20 ER 32

D = 33 mm L = 43 mm T = 10 mm

| REF. | DIN | dxa | mm |
|--------------|-----|-----|-----|
| 80.490.20.05 | 4,5 | x | 3,4 |
| 80.490.20.06 | 5,5 | x | 4,3 |
| 80.490.20.07 | 6 | x | 4,9 |
| 80.490.20.08 | 7 | x | 5,5 |
| 80.490.20.09 | 8 | x | 6,2 |
| 80.490.20.10 | 9 | x | 7 |
| 80.490.20.11 | 10 | x | 8 |
| 80.490.20.12 | 11 | x | 9 |
| 80.490.20.13 | 12 | x | 9 |

80.490.26 ER 40

D = 41 mm L = 54 mm T = 13 mm

| REF. | DIN | dxa | mm |
|--------------|-----|-----|-----|
| 80.490.26.07 | 6 | x | 4,9 |
| 80.490.26.08 | 7 | x | 5,5 |
| 80.490.26.09 | 8 | x | 6,2 |
| 80.490.26.10 | 9 | x | 7 |
| 80.490.26.11 | 10 | x | 8 |
| 80.490.26.12 | 11 | x | 9 |
| 80.490.26.13 | 12 | x | 9 |
| 80.490.26.14 | 14 | x | 11 |
| 80.490.26.15 | 16 | x | 12 |



KLEŠTINY S TĚSNĚNÍM DIN 6499 (ER)
pro nástroje s válcovou stopkou dle DIN 1835-A a chlazením středem
SEALED COLLETS DIN 6499 (ER)
 for tools with cylindrical shank DIN 1835-A and coolant channel

DIN 6499-B

80.497

80.490.10 ER 16

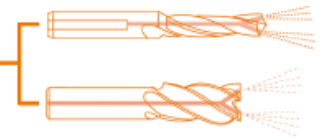
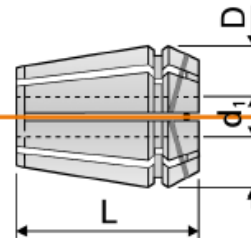
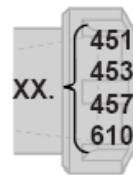
D = 17 mm L = 27,5 mm

| REF. | d ₁ | mm |
|---------------|----------------|----|
| 80.497.10.040 | 4 | |
| 80.497.10.050 | 5 | |
| 80.497.10.060 | 6 | |
| 80.497.10.070 | 7 | |
| 80.497.10.080 | 8 | |
| 80.497.10.090 | 9 | |
| 80.497.10.100 | 10 | |

80.490.13 ER 20

D = 21 mm L = 31,5 mm

| REF. | d ₁ | mm |
|---------------|----------------|----|
| 80.497.13.040 | 4 | |
| 80.497.13.050 | 5 | |
| 80.497.13.060 | 6 | |
| 80.497.13.070 | 7 | |
| 80.497.13.080 | 8 | |
| 80.497.13.090 | 9 | |
| 80.497.13.100 | 10 | |
| 80.497.13.110 | 11 | |
| 80.497.13.120 | 12 | |
| 80.497.13.130 | 13 | |



80.490.16 ER 25

D = 26 mm L = 34 mm

| REF. | d ₁ | mm |
|---------------|----------------|----|
| 80.497.16.040 | 4 | |
| 80.497.16.050 | 5 | |
| 80.497.16.060 | 6 | |
| 80.497.16.070 | 7 | |
| 80.497.16.080 | 8 | |
| 80.497.16.090 | 9 | |
| 80.497.16.100 | 10 | |
| 80.497.16.110 | 11 | |
| 80.497.16.120 | 12 | |
| 80.497.16.130 | 13 | |
| 80.497.16.140 | 14 | |
| 80.497.16.150 | 15 | |
| 80.497.16.160 | 16 | |

80.490.20 ER 32

D = 33 mm L = 40 mm

| REF. | d ₁ | mm |
|---------------|----------------|----|
| 80.497.20.040 | 4 | |
| 80.497.20.050 | 5 | |
| 80.497.20.060 | 6 | |
| 80.497.20.070 | 7 | |
| 80.497.20.080 | 8 | |
| 80.497.20.090 | 9 | |
| 80.497.20.100 | 10 | |
| 80.497.20.110 | 11 | |
| 80.497.20.120 | 12 | |
| 80.497.20.130 | 13 | |
| 80.497.20.140 | 14 | |
| 80.497.20.150 | 15 | |
| 80.497.20.160 | 16 | |
| 80.497.20.170 | 17 | |
| 80.497.20.180 | 18 | |
| 80.497.20.190 | 19 | |
| 80.497.20.200 | 20 | |

80.490.26 ER 40

D = 41 mm L = 46 mm

| REF. | d ₁ | mm |
|---------------|----------------|----|
| 80.497.26.040 | 4 | |
| 80.497.26.050 | 5 | |
| 80.497.26.060 | 6 | |
| 80.497.26.070 | 7 | |
| 80.497.26.080 | 8 | |
| 80.497.26.090 | 9 | |
| 80.497.26.100 | 10 | |
| 80.497.26.110 | 11 | |
| 80.497.26.120 | 12 | |
| 80.497.26.130 | 13 | |
| 80.497.26.140 | 14 | |
| 80.497.26.150 | 15 | |
| 80.497.26.160 | 16 | |
| 80.497.26.170 | 17 | |
| 80.497.26.180 | 18 | |
| 80.497.26.190 | 19 | |
| 80.497.26.200 | 20 | |
| 80.497.26.210 | 21 | |

| | |
|---------------|----|
| 80.497.26.220 | 22 |
| 80.497.26.230 | 23 |
| 80.497.26.240 | 24 |
| 80.497.26.250 | 25 |
| 80.497.26.260 | 26 |

80.490.34 ER 50

D = 52 mm L = 50 mm

| REF. | d ₁ | mm |
|---------------|----------------|----|
| 80.497.34.120 | 12 | |
| 80.497.34.140 | 14 | |
| 80.497.34.160 | 16 | |
| 80.497.34.180 | 18 | |
| 80.497.34.200 | 20 | |
| 80.497.34.220 | 22 | |
| 80.497.34.240 | 24 | |
| 80.497.34.260 | 26 | |
| 80.497.34.280 | 28 | |
| 80.497.34.300 | 30 | |
| 80.497.34.320 | 32 | |
| 80.497.34.340 | 34 | |



KLEŠTINY DIN 6499 (ER) – TVAR MEXIN
s pojištěním čtyřhranu
COLLETS DIN 6499 - FORM MEXIN (ER)
with square locking drive

DIN 6499

80.498

80.498.10 ER 16

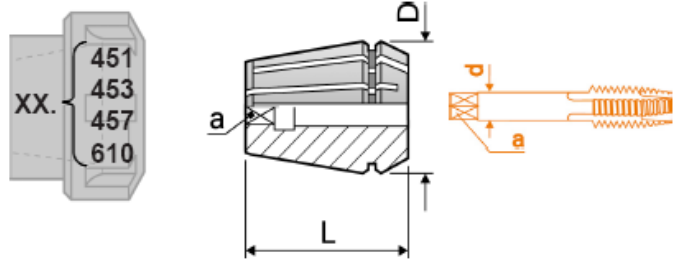
D = 17 mm L = 27,5 mm

| REF. | d ₁ mm |
|--------------|----------------------|
| 80.498.10.05 | 4,5 x 3,4 |
| 80.498.10.06 | 5,5 x 4,3 |
| 80.498.10.07 | 6 x 4,9 |
| 80.498.10.08 | 7 x 5,5 |

80.498.13 ER 20

D = 21 mm L = 31,5 mm

| REF. | d ₁ mm |
|--------------|----------------------|
| 80.498.13.05 | 4,5 x 3,4 |
| 80.498.13.06 | 5,5 x 4,3 |
| 80.498.13.07 | 6 x 4,9 |
| 80.498.13.08 | 7 x 5,5 |
| 80.498.13.09 | 8 x 6,2 |
| 80.498.13.10 | 9 x 7 |
| 80.498.13.11 | 10 x 8 |



80.498.16 ER 25

D = 26 mm L = 34 mm

| REF. | d ₁ mm |
|--------------|----------------------|
| 80.498.16.05 | 4,5 x 3,4 |
| 80.498.16.06 | 5,5 x 4,3 |
| 80.498.16.07 | 6 x 4,9 |
| 80.498.16.08 | 7 x 5,5 |
| 80.498.16.09 | 8 x 6,2 |
| 80.498.16.10 | 9 x 7 |
| 80.498.16.11 | 10 x 8 |
| 80.498.16.12 | 11 x 9 |
| 80.498.16.13 | 12 x 9 |

80.498.20 ER 32

D = 33 mm L = 40 mm

| REF. | d ₁ mm |
|--------------|----------------------|
| 80.498.20.05 | 4,5 x 3,4 |
| 80.498.20.06 | 5,5 x 4,3 |
| 80.498.20.07 | 6 x 4,9 |
| 80.498.20.08 | 7 x 5,5 |
| 80.498.20.09 | 8 x 6,2 |
| 80.498.20.10 | 9 x 7 |
| 80.498.20.11 | 10 x 8 |
| 80.498.20.12 | 11 x 9 |
| 80.498.20.13 | 12 x 9 |
| 80.498.20.14 | 14 x 11 |
| 80.498.20.15 | 16 x 12 |

80.498.26 ER 40

D = 41 mm L = 46 mm

| REF. | d ₁ mm |
|--------------|----------------------|
| 80.498.26.08 | 7 x 5,5 |
| 80.498.26.09 | 8 x 6,2 |
| 80.498.26.10 | 9 x 7 |
| 80.498.26.11 | 10 x 8 |
| 80.498.26.12 | 11 x 9 |
| 80.498.26.13 | 12 x 9 |
| 80.498.26.14 | 14 x 11 |
| 80.498.26.15 | 16 x 12 |
| 80.498.26.16 | 18 x 14,5 |
| 80.498.26.17 | 20 x 16 |

80.498.34 ER 50

D = 52 mm L = 60 mm

| REF. | d ₁ mm |
|--------------|----------------------|
| 80.498.34.13 | 12 x 9 |
| 80.498.34.14 | 14 x 11 |
| 80.498.34.15 | 16 x 12 |
| 80.498.34.16 | 18 x 14,5 |
| 80.498.34.17 | 20 x 16 |
| 80.498.34.18 | 22 x 18 |
| 80.498.34.19 | 25 x 20 |
| 80.498.34.20 | 28 x 22 |
| 80.498.34.21 | 32 x 24 |



UTAHOVACÍ KLÍČE

WRENCHS

DIN 6499

89.200/5

35.294
xx.295



CAP
mm



REF. 89.200

| | |
|--------|-----------|
| 0 - 8 | 89.200.08 |
| 0 - 10 | 89.200.10 |
| 0 - 13 | 89.200.13 |
| 3 - 16 | 89.200.16 |

XX. { 351
353



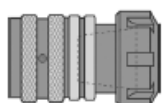
CAP
mm



REF. 89.201

| | |
|----|-----------|
| 16 | 89.201.16 |
| 25 | 89.201.25 |
| 32 | 89.201.32 |

XX. { 451
453
610



CAP
mm

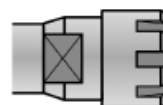


ER

REF. 89.202

| | | |
|----|----|-----------|
| 10 | 16 | 89.202.10 |
| 13 | 20 | 89.202.13 |
| 16 | 25 | 89.202.16 |
| 20 | 32 | 89.202.20 |
| 30 | 40 | 89.202.26 |
| 34 | 50 | 89.202.34 |

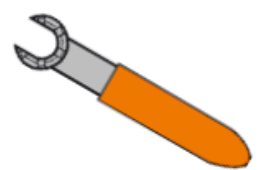
xx.455



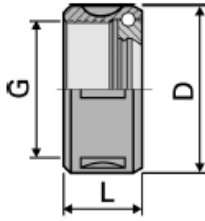
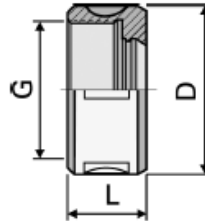
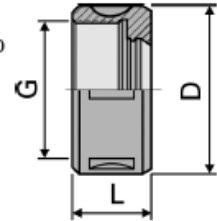
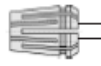
CAP
mm

ER

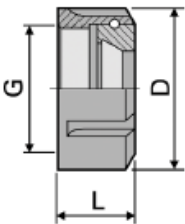
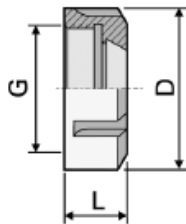
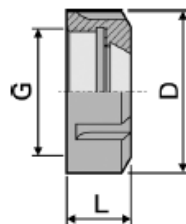
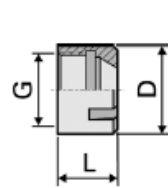
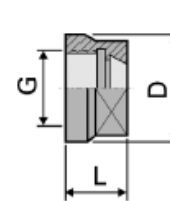
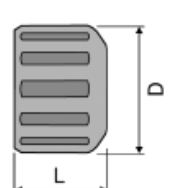
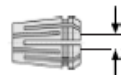
REF. 89.205



| | | |
|----|----|-----------|
| 10 | 16 | 89.205.10 |
| 13 | 20 | 89.205.13 |
| 16 | 25 | 89.205.16 |

80.391
MATICE S LOŽISKEM
BALL BEARING NUT

80.392
VYVÁŽENO
BALANCED

80.393
STANDARD

REF. 80.391
REF. 80.392
REF. 80.393

d_{1,max}
mm
D
mm
L
mm
G

| REF. 80.391 | REF. 80.392 | REF. 80.393 | d _{1,max} mm | D mm | L mm | G |
|-------------|-------------|-------------|-----------------------|------|------|------------|
| 80.391.16 | 80.392.16 | 80.393.16 | 16 | 43 | 24 | M 32 x 1,5 |
| 80.391.25 | 80.392.25 | 80.393.25 | 25 | 60 | 30 | M 48 x 2 |
| 80.391.32 | 80.392.32 | 80.393.32 | 32 | 72 | 33,5 | M 60 x 2,5 |

FORM E
80.491

MATICE S LOŽISKEM
BALL BEARING NUT
FORM F
80.492

VYVÁŽENO
BALANCED
FORM F
80.493

STANDARD
FORM MINI
80.495

FORM D
80.496

ESPECIAL 457
SPECIAL 457

REF. 80.491

d_{1,max}
mm
D
mm
L
mm
G

| REF. 80.491 | | | d _{1,max} mm | D mm | L mm | G |
|-------------|--|-------|-----------------------|------|------|------------|
| 80.491.10 | | ER 16 | 10 | 29 | 19,5 | M 22 x 1,5 |
| 80.491.13 | | ER 20 | 13 | 34 | 21 | M 25 x 1,5 |
| 80.491.16 | | ER 25 | 16 | 42 | 22,7 | M 32 x 1,5 |
| 80.491.20 | | ER 32 | 20 | 50 | 26,5 | M 40 x 1,5 |
| 80.491.26 | | ER 40 | 26 | 63 | 29,8 | M 50 x 1,5 |
| 80.491.34 | | ER 50 | 34 | 78 | 40 | M 64 x 2 |

REF. 80.492
REF. 80.493

| | | | | | | |
|-----------|-----------|-------|----|----|------|------------|
| 80.492.10 | 80.493.10 | ER 16 | 10 | 32 | 17,5 | M 22 x 1,5 |
| 80.492.13 | 80.493.13 | ER 20 | 13 | 35 | 19 | M 25 x 1,5 |
| 80.492.16 | 80.493.16 | ER 25 | 16 | 42 | 20 | M 32 x 1,5 |
| 80.492.20 | 80.493.20 | ER 32 | 20 | 50 | 22,5 | M 40 x 1,5 |
| 80.492.26 | 80.493.26 | ER 40 | 26 | 63 | 25,5 | M 50 x 1,5 |
| 80.492.34 | 80.493.34 | ER 50 | 34 | 78 | 35,5 | M 64 x 2 |

REF. 80.495

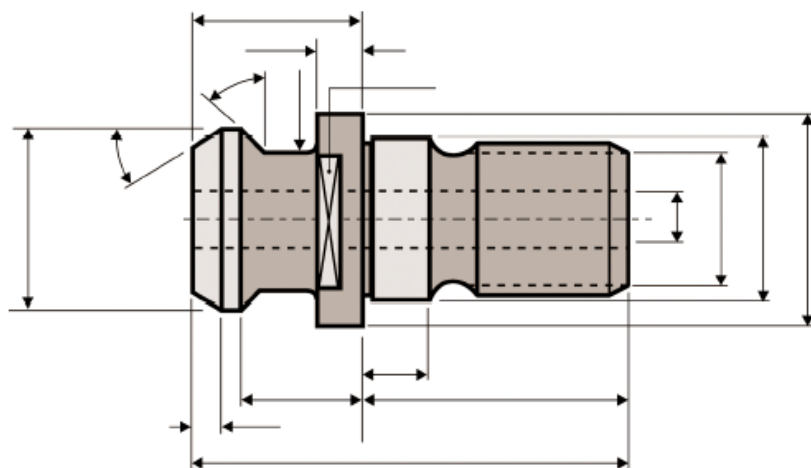
| | | | | | | |
|-----------|--|-------|----|----|----|----------|
| 80.495.10 | | ER 16 | 10 | 22 | 18 | M 19 x 1 |
| 80.495.13 | | ER 20 | 13 | 28 | 19 | M 24 x 1 |
| 80.495.16 | | ER 25 | 16 | 35 | 20 | M 30 x 1 |

REF. 80.496

| | | | | | | |
|-----------|--|-------|----|----|------|------------|
| 80.496.10 | | ER 16 | 10 | 28 | 17,5 | M 22 x 1,5 |
| 80.496.13 | | ER 20 | 13 | 34 | 19 | M 25 x 1,5 |

REF. 80.457

| | | | | | | |
|-----------|--|-------|----|----|----|------------|
| 80.457.20 | | ER 32 | 20 | 54 | 40 | M 45 x 1,5 |
| 80.457.30 | | ER 40 | 30 | 65 | 50 | M 56 x 2 |



- K poptání: Vyplňte rozměry a zašlete nákres

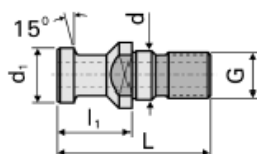
- For enquiries: Fill up sizes and send us drawing.



DIN - ISO

ZÁMEK - PULL STUDS

85.750

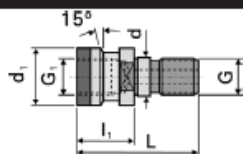
DIN 69872-A



| REF. 85.750.00 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---|------|-------------------|------|-------------------|
| 85.750.00.30 * | 30 | M 12 | 13 | 13 | 44 | 24 |
| 85.750.00.40 | 40 |  | 17 | 19 | 54 | 26 |
| 85.750.00.50 | 50 |  | 25 | 28 | 74 | 34 |

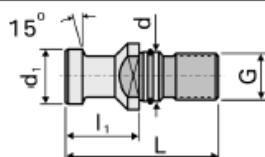
* TATO POLOŽKA JE BEZ CHLAZENÍ STŘEDEM / Without central hole / Sans trou par le centre

DIN 69872-B



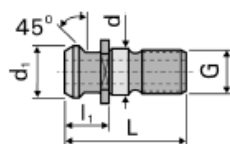
| REF. 85.750.05 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|------|-------------------|------|-------------------|
| 85.750.05.40 | 40 | M 16 | 17 | 19 | 54 | 26 |
| 85.750.05.50 | 50 | M 24 | 25 | 28 | 74 | 34 |



± DIN 69872-B



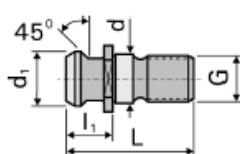
| REF. 85.750.06 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|------|-------------------|------|-------------------|
| 85.750.06.40 | 40 | M 16 | 17 | 19 | 54 | 26 |
| 85.750.06.50 | 50 | M 24 | 25 | 28 | 74 | 34 |

ISO 7388/2-B



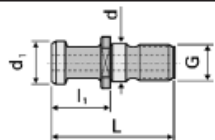
| REF. 85.750.10 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---|------|-------------------|------|-------------------|
| 85.750.10.40 | 40 |  | 17 | 18,95 | 44,5 | 16,40 |
| 85.750.10.50 | 50 |  | 25 | 29,10 | 65,5 | 25,55 |



± ISO 7388/2-B



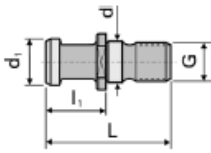
| REF. 85.750.11 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|------|-------------------|------|-------------------|
| 85.750.11.40 | 40 | M 16 | 17 | 18,95 | 44,5 | 16,40 |
| 85.750.11.50 | 50 | M 24 | 25 | 29,10 | 65,5 | 25,55 |

ISO 7388/2-A



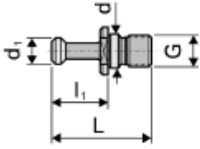
| REF. 85.750.15 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---|------|-------------------|------|-------------------|
| 85.750.15.40 | 40 |  | 17 | 19 | 54 | 26 |
| 85.750.15.50 | 50 |  | 25 | 28 | 74 | 34 |

± ISO 7388/2-A



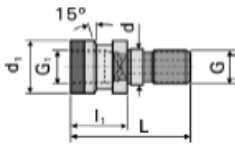
| REF. 85.750.16 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|------|-------------------|------|-------------------|
| 85.750.16.30 | 30 | M 12 | 13 | 12 | 44 | 24 |
| 85.750.16.40 | 40 | M 16 | 17 | 19 | 54 | 26 |
| 85.750.16.50 | 50 | M 24 | 25 | 28 | 74 | 34 |

CHIRON



| REF. 85.750.25 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|------|-------------------|------|-------------------|
| 85.750.25.30 | 30 | M 12 | 13 | 10 | 36 | 20 |

MAHO - OTT



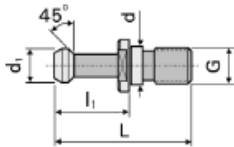
| REF. 85.750.50 | K ISO | G | G ₁ | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|----------------|------|-------------------|------|-------------------|
| 85.750.50.40 | 40 | M 16 | M 16 | 17 | 25 | 53 | 25 |
| 85.750.50.41 | 40 | M 16 | M 16 | 17 | 25 | 56 | 28 |
| 85.750.50.50 | 50 | M 24 | M 24 | 25 | 39,29 | 68 | 25 |

JIS 6339 B - BT

ZÁMEK - PULL STUDS

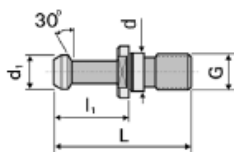
85.750/1

BT - TYPE I



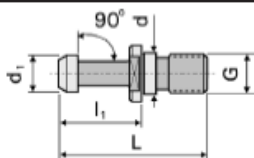
| REF. 85.751.00 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|------|-------------------|------|-------------------|
| 85.751.00.30 | 30 | M 12 | 12,5 | 11 | 43 | 23 |
| 85.751.00.40 | 40 | M 16 | 17 | 15 | 60 | 35 |
| 85.751.00.50 | 50 | M 24 | 25 | 23 | 85 | 45 |
| 85.751.01.40 | 40 | M 16 | 17 | 15 | 60 | 35 |
| 85.751.01.50 | 50 | M 24 | 25 | 23 | 85 | 45 |

BT - TYPE II



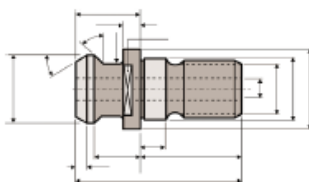
| REF. 85.751.10 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|------|-------------------|------|-------------------|
| 85.751.10.30 | 30 | M 12 | 12,5 | 11 | 43 | 23 |
| 85.751.10.40 | 40 | M 16 | 17 | 15 | 60 | 35 |
| 85.751.10.50 | 50 | M 24 | 25 | 23 | 85 | 45 |
| 85.751.11.40 | 40 | M 16 | 17 | 15 | 60 | 35 |
| 85.751.11.50 | 50 | M 24 | 25 | 23 | 85 | 45 |

BT - TYPE III



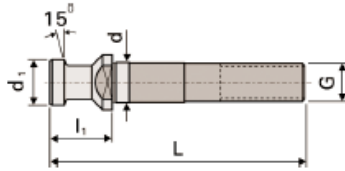
| REF. 85.751.20 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|------|------|-------------------|------|-------------------|
| 85.751.20.40 | 40 | M 16 | 17 | 15 | 60 | 35 |
| 85.751.20.50 | 50 | M 24 | 25 | 23 | 85 | 45 |
| 85.751.21.40 | 40 | M 16 | 17 | 15 | 60 | 35 |
| 85.751.21.50 | 50 | M 24 | 25 | 23 | 85 | 45 |

SPECIALS

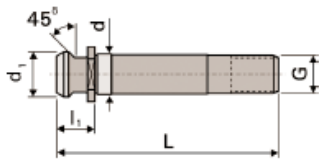


| REF. 85.750 | K ISO | G | d mm | d ₁ mm | L mm | l ₁ mm | Tipo Type |
|--------------------|-------|------|------|-------------------|-------|-------------------|------------|
| 85.750.CA.40 | 40 | M 16 | 17 | 18,79 | 41,25 | 16,25 | MAZAK |
| 85.750.CA.41 | 40 | M 16 | 17 | 18,79 | 44,10 | 19,10 | MAZAK |
| 85.750.CO.50 | 50 | M 24 | - | 20 | 76 | 36 | CORREA |
| 85.750.MT.40 | 40 | M 16 | 17 | 19 | 54 | 29 | MATSURA |
| 85.750.K.35 | 35 | | | | | | KITAMURA |
| 85.750.CI.40 | 40 | | | | | | CINCINNATI |
| 85.750.ZA.50 | 50 | | | | | | ZAYER |

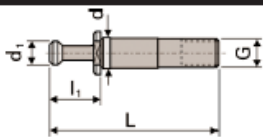
S přívodem chlezení středem/ With central hole

± DIN 69872-A


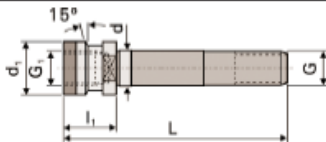
| REF. 85.760.00 | K ISO | K MORSE | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---------|------|------|-------------------|------|-------------------|
| 85.760.00.30/02 | 30 | 2 | M 10 | 13 | 13 | 89 | 25 |
| 85.760.00.30/03 | 30 | 3 | M 12 | 13 | 13 | 96 | 25 |
| 85.760.00.40/03 | 40 | 3 | M 12 | 17 | 19 | 107 | 26 |
| 85.760.00.40/04 | 40 | 4 | M 16 | 17 | 19 | 114 | 26 |
| 85.760.00.50/05 | 50 | 5 | M 20 | 25 | 28 | 145 | 34 |

± ISO 7388/2-B


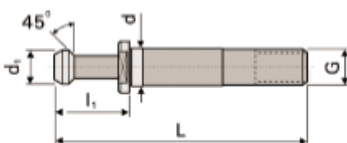
| REF. 85.760.10 | K ISO | K MORSE | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---------|------|------|-------------------|-------|-------------------|
| 85.760.10.40/03 | 40 | 3 | M 12 | 17 | 18,95 | 97,4 | 16,40 |
| 85.760.10.40/04 | 40 | 4 | M 16 | 17 | 18,95 | 104,4 | 16,40 |
| 85.760.10.50/05 | 50 | 5 | M 20 | 25 | 29 | 134 | 25,55 |

CHIRON


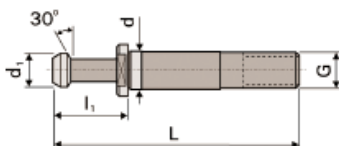
| REF. 85.760.25 | K ISO | K MORSE | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---------|------|------|-------------------|------|-------------------|
| 85.760.25.30/02 | 30 | 2 | M 12 | 13 | 10 | 85 | 20 |
| 85.760.25.30/03 | 30 | 3 | M 12 | 13 | 10 | 86 | 20 |

MAHO - OTT


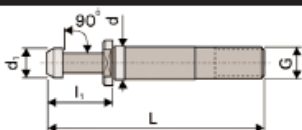
| REF. 85.760.50 | K ISO | K MORSE | G | G ₁ | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---------|------|----------------|------|-------------------|------|-------------------|
| 85.760.50.40/03 | 40 | 3 | M 12 | M 16 | 17 | 19 | 106 | 25 |
| 85.760.50.40/04 | 40 | 4 | M 16 | M 16 | 17 | 19 | 113 | 25 |
| 85.760.50.50/05 | 50 | 5 | M 20 | M 24 | 21 | 28 | 135 | 25 |

BT - TYPE I


| REF. 85.761.00 | K ISO | K MORSE | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---------|------|------|-------------------|------|-------------------|
| 85.761.00.30/02 | 30 | 2 | M 10 | 12,5 | 11 | 91 | 23 |
| 85.761.00.30/03 | 30 | 3 | M 12 | 12,5 | 11 | 92 | 23 |
| 85.761.00.40/03 | 40 | 3 | M 12 | 17 | 15 | 113 | 35 |
| 85.761.00.40/04 | 40 | 4 | M 16 | 17 | 15 | 120 | 35 |
| 85.761.00.50/05 | 50 | 5 | M 20 | 25 | 23 | 158 | 45 |

BT - TYPE II


| REF. 85.761.10 | K ISO | K MORSE | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---------|------|------|-------------------|------|-------------------|
| 85.761.10.30/02 | 30 | 2 | M 10 | 12,5 | 11 | 91 | 23 |
| 85.761.10.30/03 | 30 | 3 | M 12 | 12,5 | 11 | 92 | 23 |
| 85.761.10.40/03 | 40 | 3 | M 12 | 17 | 15 | 113 | 35 |
| 85.761.10.40/04 | 40 | 4 | M 16 | 17 | 15 | 120 | 35 |
| 85.761.10.50/05 | 50 | 5 | M 20 | 25 | 23 | 158 | 45 |

BT - TYPE III


| REF. 85.761.20 | K ISO | K MORSE | G | d mm | d ₁ mm | L mm | l ₁ mm |
|-----------------------|-------|---------|------|------|-------------------|------|-------------------|
| 85.761.20.40/03 | 40 | 3 | M 12 | 17 | 15 | 113 | 35 |
| 85.761.20.40/04 | 40 | 4 | M 16 | 17 | 15 | 120 | 35 |
| 85.761.20.50/05 | 50 | 5 | M 20 | 25 | 23 | 158 | 45 |



SEŘIZOVACÍ PŘÍPRAVEK PRO UPÍNAČE

všechny rozměry pro: DIN 2080, DIN 69871, JIS B 6399.-BT

MOUNTING ASSEMBLY FOR TOOL HOLDERS

all sizes useful for: DIN 2080, DIN 69871, JIS B 6399.-BT

81.700/1

90° otočení.

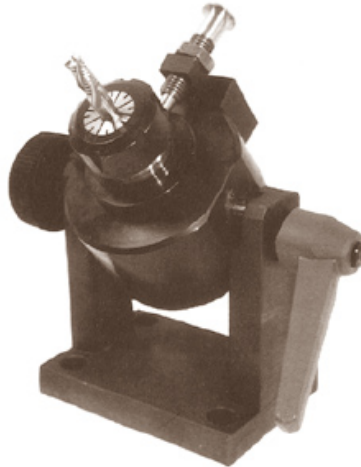
Chcete-li pomoci s upnutím nebo uvolněním.

90° Turnover

Can be help on blank or with clamp

Useful for mounting and

dismantling of the tools in any toolholder.



| REF. 81.700 | K ISO |
|--------------|-------|
| 81.700.30.00 | 30 |
| 81.700.40.00 | 40 |
| 81.700.50.00 | 50 |

| REF. 81.701 | HSK |
|---------------|-----|
| 81.701.050.00 | 50 |
| 81.701.063.00 | 63 |
| 81.701.100.00 | 100 |



OPTICKÝ (721) A OPTICKO-AKUSTICKÝ (722) KONCOVÝ DOTEK

OPTICAL (721) AND OPTICAL AND ACOUSTICAL (722) EDGE FINDER

81.721/2

Pružně chráněná kulička a vysoká citlivost

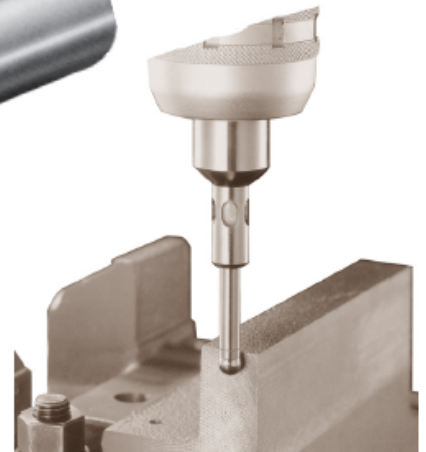
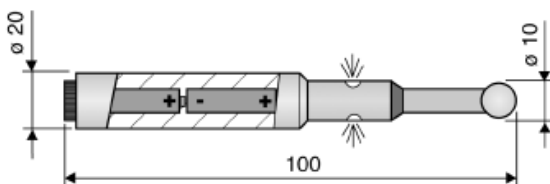
Spring protecting sphere and high Sensitivity

81.722.20.10

Světelný a akustický signál
Light led + acoustic signal

81.721.20.10

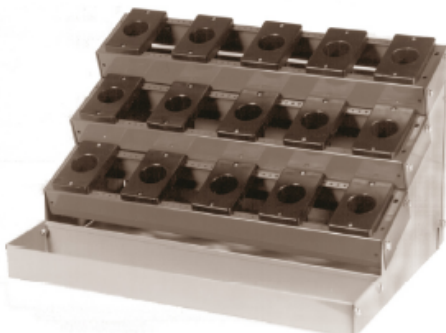
Světelný signál
Light led



ZAKLADAČE CNC NÁSTROJŮ

STORAGE OF CNC TOOLS

81.954



| REF. 81.954 | K ISO | CAP. |
|--------------|-------|------|
| 81.954.40.18 | 40 | 18 |
| 81.954.50.15 | 50 | 15 |

NEW
NUEVO



Sada obsahující frézovací trny, redukce, přesnou vrtací hlavičku, kleštinové upínače, závitovací hlavičku, kleštiny a upínací kameny je vždy připravena pro použití. Všechny nástroje jsou uloženy do masivního plastického boxu a založeny v pouzdrech a fixovány za upínací stopku.

The Kit includes Shell Mill Adaptors, Reducing Adaptors, Self-Clamping Short Precision Drill Chucks, Collet Chucks and a range of Collets and Pull Studs, everything ready to use. All these parts into a hard Plastic Box with its a made-to-measure holders for properly storing and fixing the shanks.

SADA OBSAHUJE / KIT CONTAINING

| Množství Qty. Pcs. | Ref. DIN 69871 | JIS B 6339-BT | Popis | Description |
|-----------------------|-------------------|---------------|--|--|
| 1 | 11.160.40.22 | 20.160.40.22 | Frézovací trn Ø22 | Shell Mill Adaptor Ø22 |
| 1 | 11.160.40.27 | 20.160.40.27 | Frézovací trn Ø27 | Shell Mill Adaptor Ø27 |
| 1 | 11.215.40.02 | 20.215.40.02 | Redukce pro Mk2 | Reducing Adaptor with Morse Taper 2 |
| 1 | 11.215.40.03 | 20.215.40.03 | Redukce pro Mk2 | Reducing Adaptor with Morse Taper 2 |
| 1 | 11.295.40.13 | 20.295.40.13 | Přesná vrtací hlavička | Self-Clamping Drill Chuck Cap.13 |
| 1 | 11.300.40.06 | 20.300.40.06 | Držák pro upínání fréz – WELDON Ø6 | End Mill Adaptor Weldon Ø6 |
| 1 | 11.300.40.08 | 20.300.40.08 | Držák pro upínání fréz – WELDON Ø8 | End Mill Adaptor Weldon Ø8 |
| 1 | 11.300.40.10 | 20.300.40.10 | Držák pro upínání fréz – WELDON Ø10 | End Mill Adaptor Weldon Ø10 |
| 1 | 11.300.40.12 | 20.300.40.12 | Držák pro upínání fréz – WELDON Ø12 | End Mill Adaptor Weldon Ø12 |
| 1 | 11.300.40.16 | 20.300.40.16 | Držák pro upínání fréz – WELDON Ø16 | End Mill Adaptor Weldon Ø16 |
| 1 | 11.300.40.20 | 20.300.40.20 | Držák pro upínání fréz – WELDON Ø20 | End Mill Adaptor Weldon Ø20 |
| 4 | 11.453.40.20 | 20.453.40.20 | Přesná univerzální CNC vrtací hlavička | CNC-Universal Drill Chuck DIN6499 (ER32) |
| 8 | 80.494.20.XX | | Sada kleštin ER32 DIN6499 | Set of Collets DIN 6499 (ER32) |
| | | | Ø 4 - 5 - 6 - 8 - 10 - 12 - 16 - 20 mm | Ø 4 - 5 - 6 - 8 - 10 - 12 - 16 - 20 mm |
| 1 | 89.200.13 | | Klíč | Key |
| 1 | 89.202.20 | | Klíč | Key |
| 15 | 85.XXXX.40 | | Unašeč. Specifikujte. | Pull Studs. Please indicate Model. |

CELKOVÝ PROGRAM UPÍNACÍCH DRŽÁKŮ A PŘÍSLUŠENSTVÍ

TOOLHOLDERS AND ACCESSORIES PROGRAM

DIN 2080 **10**



NAREX@MTE™



2005

DIN 69871 **11 13**



NAREX@MTE™



2005

HSK DIN 69893-1 **16**



NAREX@MTE™



2005

JIS B 6339 - BT **20 23**



NAREX@MTE™



2005

CHIRON **25**



NAREX@MTE™



2005

18 19 26 28 29
PORTAHERRAMIENTAS PARA
LA INDUSTRIA DE LA MADERA



NAREX@MTE™



2005

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Email: mexin@mexin.es

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machine tools equipment

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<http://www.narexmte.cz>