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Product additions
to the main catalogue



Drive Pins · Carbide Tip 90°



Face driver set SP / SPV in a case



Ultra Live Centers RN · cylindrical retainer



Ultra Live Centers RNW · cylindrical retainer



Dead Centers FN · extended



Dead Centers FND · Diamond



Dead Centers FNZH · Carbide



Carbide Dead Centers HEG · extended



Dead Centers FNWM · design **Mazak**

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Drive Pins SB / FSB / FFB · Carbide Tip 90°

for torque transmission onto the workpiece for hardturning

Type **SB / FSB / FFB** · carbide tip 90°

MODEL A



made of full carbide

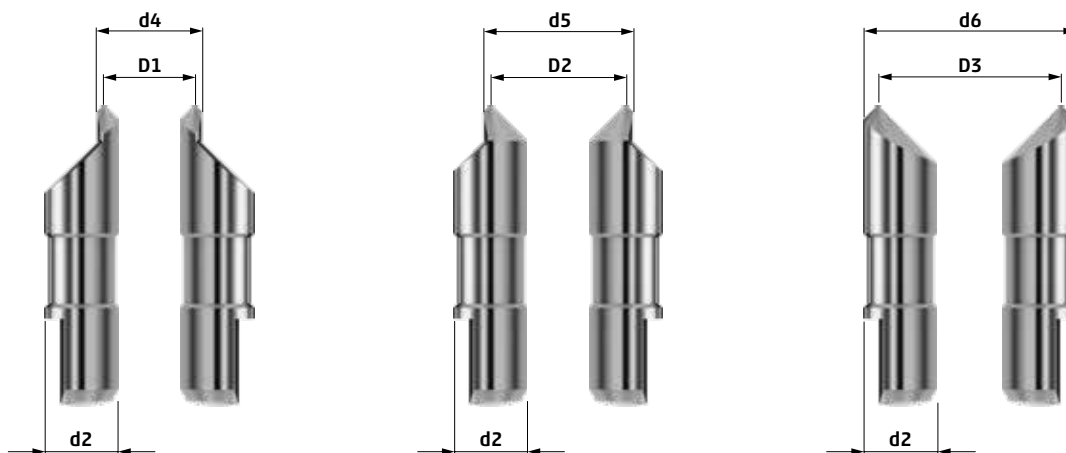
MODEL B



with carbide pin

Technical data – type **SB / FSB / FFB** · carbide tip 90°

type 1 - 3 made of full carbide, model A



MODEL A

for type SB / FSB / FFB	d2	clamping-Ø			d4	d5	d6	cat. no.
		D1	D2	D3				
1	8	13			15			736 740
	8		18			20		736 741
	8			22			26	736 742
2	10	20			22			736 743
	10		26			28		736 744
	10			32			36	736 745
3	10	28			30			736 746
	10		34			36		736 747
	10			40			44	736 748

Technical data – type SB / FSB / FFB · carbide tip 90°

type 35 - 5 with carbide pin, model B

**MODEL B**

for type SB / FSB / FFB	d2	clamping-Ø			d4	d5	d6	cat. no.
		D1	D2	D3				
35	15	25			39			736 720
	15		34			44		736 721
	15			43			49	736 722
4	15	35			49			736 723
	15		44			54		736 724
	15			53			59	736 725
45	15	45			59			736 726
	15		54			64		736 727
	15			63			69	736 728
5	20	65			81			736 729
	20		79			90		736 730
	20			93			99	736 731

■ Drive Pins are supplied with carbide pin.

Changeable inserts for type 4 - 5, model B

changeable parts	cat. no.
carbide pin 90° 4 x 20	736 760
set crew M4 x 8	736 761





Drive Pins FFBH · Carbide Tip 90°

for torque transmission onto the workpiece for hardturning

Type FFBH · carbide tip 90°

MODEL A



made of full carbide

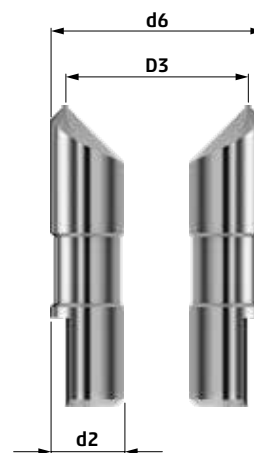
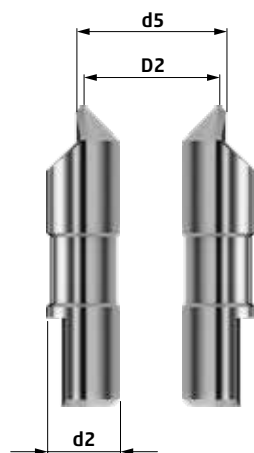
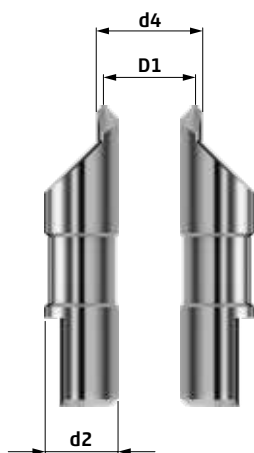
MODEL B



with carbide pin

Technical data – type FFBH · carbide tip 90°

type 1 - 3 made of full carbide, model A



MODEL A

for type FFBH	d2	clamping-Ø			d4	d5	d6	cat. no.
		D1	D2	D3				
1	8	13			15			736 740
	8		18			20		736 741
	8			22			26	736 742
2	10	20			22			736 743
	10		26			28		736 744
	10			32			36	736 745
3	10	28			30			736 746
	10		34			36		736 747
	10			40			44	736 748

Technical data – type FFBH · carbide tip 90°

type 4 - 5 with carbide pin, model B

**MODEL B**

for type FFBH	d2	clamping-Ø			d4	d5	d6	cat. no.
		D1	D2	D3				
4	15	35			49			736 723
	15		44			54		736 724
	15			53			59	736 725
45	15	45			59			736 726
	15		54			64		736 727
	15			63			69	736 728
5	20	65			81			736 729
	20		79			90		736 730
	20			93			99	736 731

■ Drive Pins are supplied with carbide pin.

Changeable inserts for type 4 - 5, model B

changeable parts	cat. no.
carbide pin 90° 4 x 20	736 760
set crew M4 x 8	736 761



Face Drivers Set SP / SPV in a case

with drive disks and movable center pins



Universal face driver set for use in **turning or turn-milling operations**.

The case set including face drivers type SP / SPV, drive disks and movable center pins, features **high flexibility** and a **easy set up to the machine spindle**.

Type SP / SPV with morse taper retainer

with morse taper retainer and cylindrical reducing sleeve



NEIDLEIN face drivers SP / SPV ensure:

- a maximum of torque transmission, thus achieving high metal removing rates
- datum-point at the face end of the workpiece, stable datum-point in case of different centerings
- compensating drive disks
- high flexibility in the application
- fixed center pin in clamped condition
» fixed clamping point
- run-out deviation in the process 0.015 - 0.02 mm
- adjustable spring force (depending on the weight of the workpiece)
- low setup costs due to fast change of drive disks and center pins
- cost efficient exchange of parts that are in contact with the workpiece (changeable carbide inserts)
- radial, almost backlash-free driving for type SPV for turn-milling processes

description	tooling direction	max. workpiece weight [kg] *	cat. no.
SP3 MT4 complete set · version turning	SL (M4)	90	632 80
SP3 MT4 complete set · version turning	SR (M3)	90	632 81
SPV3 MT4 complete set · version turn-milling	NV (M3/M4)	90	632 82

- For a detailed description of the turning direction see pages 42 or 54 in our main catalogue
- For technical data and dimensions see pages 36 to 45 and pages 50 to 75 in our main catalogue.

The complete set includes:

- 1** Face driver type SP3 MT4 or Face driver type SPV3 MT4
- 2** Drive disks (4 pcs.)
clamp. Ø 14, clamp. Ø 22, clamp. Ø 36 and clamp. Ø 49
- 3** Center Pins (4 pcs.)
for center size Ø 3 – Ø 7, center size Ø 3 – Ø 11, center size Ø 3 – Ø 10 and center size Ø 7 – Ø 14
- 4** Reducing sleeve
cylindrical Ø 41 to MT4
- 5** Removal lever
for removing the drive disks safely from the face driver
- 6** Changeable carbide inserts for the drive disks (11 pcs.)





Ultra Live Centers RN / RNW

with cylindrical retainer

NEIDLEIN ultra live centers type RN/RNW with cylindrical retainer are designed for employment **in turning and other production machine tools** and are preferably used in **counter spindles and various machine turrets**.

Owing to the application of bearing and the stable design high axial and radial load can be absorbed accurately. Therefore our live centers are outstanding for any application, especially for tooling with face drivers.

Type RN with cylindrical retainer

↑ 0.005



Type RNW with cylindrical retainer

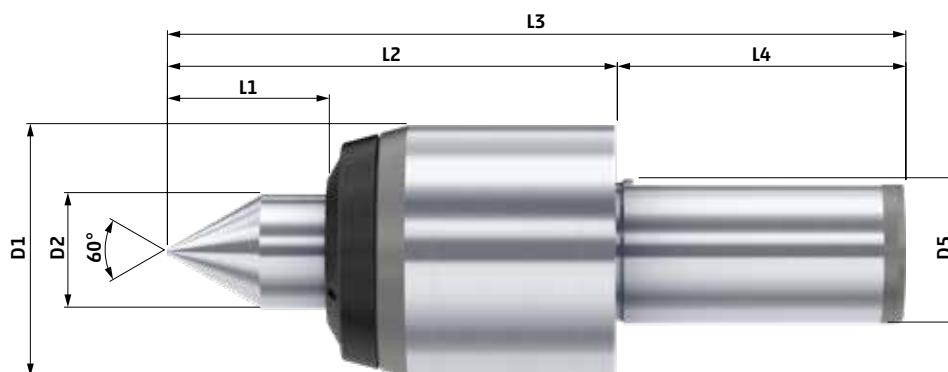
↑ 0.01
incl. insert



changeable inserts
see page 160 - 161 in our
main catalogue

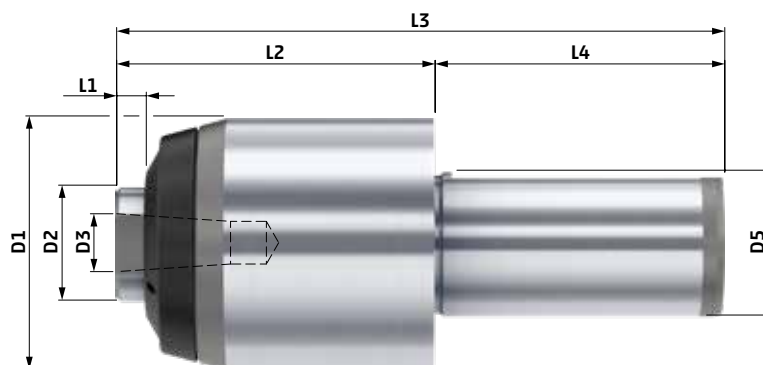
NEIDLEIN revolving ultra live centers type RN / RNW ensure:

- application of live centers in case of high thrust and loading
- run-out deviation max.
0.005 mm · type RN
0.01 mm · type RNW incl. changeable insert
- maintenance-free, due to gasket system and life-time lubrication of bearings; gasket system comprising variable seal and steel protection cover
- easy exchange of changeable inserts using spanner flat and open-end wrench or Tommy bar

Technical data – type RN with cylindrical retainer**TYPE
TURNING**

type RN	D5	D1	D2	L1	L2	L3	L4	rpm max. [1/min]	cat. no.
3	25	55	21.75	26.2	97	152	55	6000	812 60
	32	55	21.75	26.2	97	162	65	6000	812 61
4	32	70	31.75	45	124.7	189.7	65	5000	812 62
	40	70	31.75	45	124.7	204.7	80	5000	812 63

- Run-out deviation max.: 0.005 mm
- Load chart see page 140 in our main catalogue.

Technical data – type RNW with cylindrical retainer**TYPE
TURNING**

type RNW	D5	D1	D2	D3	L1	L2	L3	L4	rpm max. [1/min]	cat. no.
3	25	55	21.75	16	6.2	77	162	55	6000	815 10
	32	55	21.75	16	6.2	77	182	65	6000	815 11
4	32	70	31.75	16	8.2	88	153	65	5000	815 12
	40	70	31.75	16	8.2	88	168	80	5000	815 13

- Run-out deviation max.: 0.01 mm incl. insert.
- Various changeable inserts of different designs, see page 160 - 161 in our main catalogue.
- Special inserts available upon customer's request.
- Speed-dependent load see page 142 in our main catalogue.

Dead Centers FN · extended



extended design for general use

For rotating and fixed tailstock spindle sleeve. Designed for employment **in turning, grinding and other production machines.**

Type FN extended with morse taper

» can be reground
for better access of machining tools

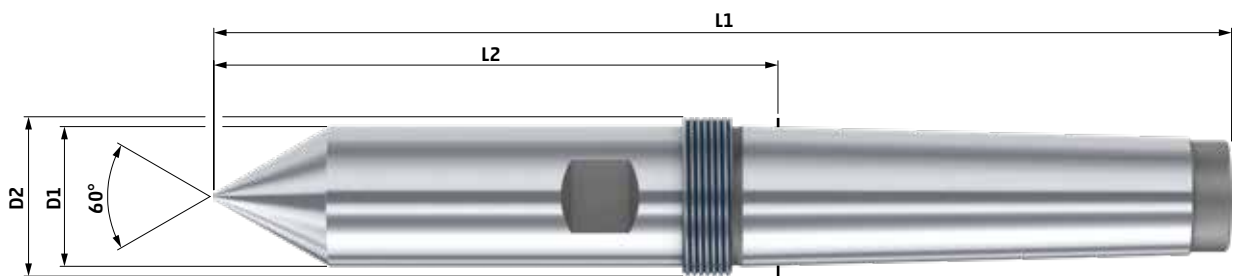


0.002



- Run-out deviation max.: 0.002 mm.
- Made of fully hardened tool-steel.
- Max. load of the dead centers upon request.
- Special design upon request.
- Extraction nuts DIN 807 see page 173 in our main catalogue.
- All types with extracting thread to prevent spindle ball bearings or solid spindle sleeves from damage.

Technical data – type FN extended with morse taper



MT	D1	D2	L1	L2	cat. no.
3	24	M27x1.5	170	89	920 06
4	31.6	M36x1.5	230	127.5	920 07
5	44.7	M48x1.5	250	120.5	920 08

Dead Centers FND · Diamond



diamond coated for friction drive / Version with extracting thread

For use in rotating headstocks. The center pins with a diamond coating are characterized by a **very high coefficient of friction**.

Type FND · diamond coated with morse taper

» 60° tip diamond coated

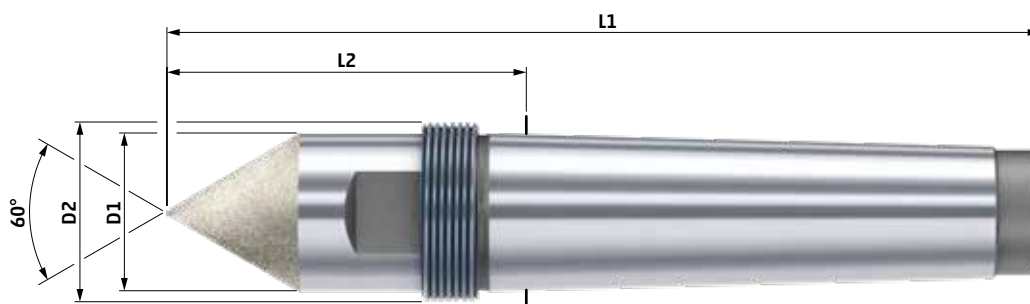


0.008



- Run- out deviation on the workpiece max.: 0.008 mm.
- Made of fully hardened tool-steel.
- **60° tip diamond coated $R_z = 50 \mu\text{m} \pm 5$.**
- Max. load of the dead centers upon request.
- Special design upon request.
- Extracting nuts DIN 807, see page 173 in our main catalogue.
- All types with extracting thread to prevent spindle ball bearings or solid spindle sleeves from damage.
- The coating can be renewed in the event of wear.

Technical data – type FND · diamond coated with morse taper



MT	D1	D2	L1	L2	cat. no.
2	18	M22x1.5	112	48	920 20
3	24	M27x1.5	138	57	920 21
4	31.6	M36x1.5	175	72	920 22

Dead Centers FNH · Carbide coated



carbide coated for friction drive / Version with extracting thread

For use in rotating headstocks and tailstocks. The center pins with a tungsten carbide-based coating are characterized by a **high coefficient of friction and good wear resistance.**

Type FNH · carbide coated with morse taper

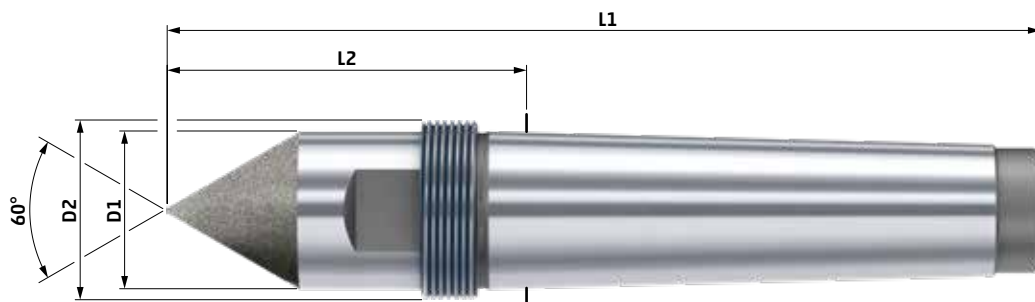
» 60° tip carbide coated

0.008



- Run- out deviation on the workpiece max.: 0.008 mm.
- Made of fully hardened tool-steel.
- 60° tip carbide coated Rz = 15 µm +/-2.
- Thickness of the coating approx. 20 µm.
- Hardness 80 – 85 HRC.
- Max. load of the dead centers upon request.
- Special design upon request.
- Extracting nuts DIN 807, see page 173 in our main catalogue.
- All types with extracting thread to prevent spindle ball bearings or solid spindle sleeves from damage.
- The coating can be renewed in the event of wear.

Technical data – type FNH · carbide coated with morse taper



MT	D1	D2	L1	L2	cat. no.
2	18	M22x1.5	112	48	920 10
3	24	M27x1.5	138	57	920 11
4	31.6	M36x1.5	175	72	920 12

Dead Centers FNZH · Carbide coated



carbide coated for friction drive / Version with extracting thread

For use in rotating headstocks and tailstocks. The center pins with a tungsten carbide-based coating are characterized by a **high coefficient of friction and good wear resistance.**

Type FNZH · carbide coated with morse taper

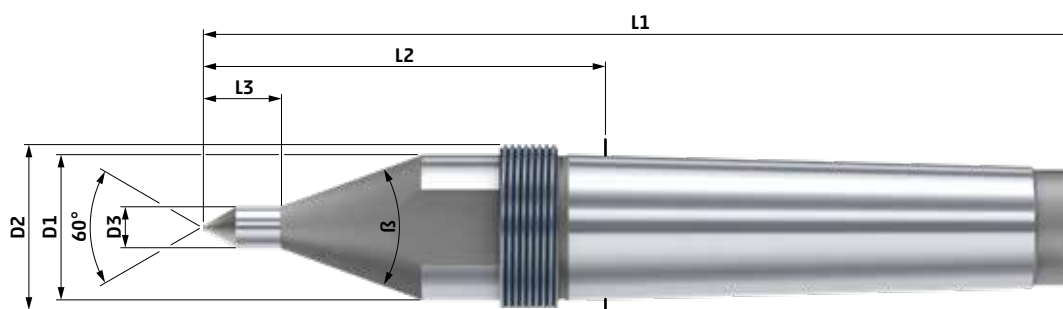
» **60° tip carbide coated**
for general use with extended length
for better tool clearance

 **0.008**



- Run- out deviation on the workpiece max.: 0.008 mm.
- With cylindrical set down and extended length for better tool clearance.
- Made of fully hardened tool-steel.
- **60° tip carbide coated $R_z = 15 \mu\text{m} \pm 2$.**
- **Thickness of the coating approx. $20 \mu\text{m}$.**
- **Hardness 80 – 85 HRC.**
- Max. load of the dead centers upon request.
- Special design upon request.
- Extracting nuts DIN 807, see page 173 in our main catalogue.
- All types with extracting thread to prevent spindle ball bearings or solid spindle sleeves from damage.
- The coating can be renewed in the event of wear.

Technical data – type FNZH · carbide coated with morse taper



MT	D1	D2	D3	L1	L2	L3	β	cat. no.
2	18	M22x1.5	9	120	56	17	40	921 20
	18	M22x1.5	11	120	56	21	40	921 21
3	24	M27x1.5	9	150	69	17	40	921 22
	24	M27x1.5	13	150	69	25	40	921 23
4	31.6	M36x1.5	9	190	87.5	17	40	921 24
	31.6	M36x1.5	13	190	87.5	27	40	921 25
	31.6	M36x1.5	19	190	87.5	53	90	921 26

Dead Centers DIN 806 · tool-steel



tool-steel for general use

For rotating and fixed tailstock spindle sleeves. Designed for employment **in turning, grinding and other production machines.**

Type DIN 806 with morse taper

» can be reground

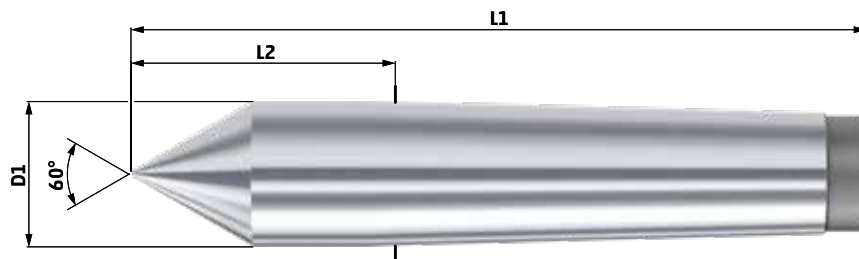


0.002



- Run-out deviation max.: 0.002 mm.
- Made of fully hardened tool-steel.
- Max. load of the dead centers upon request.
- Special design upon request.

Technical data – type DIN 806 with morse taper



MT	D1	L1	L2	cat. no.
1	12.2	80	26.5	900 01
2	18	100	36	900 02
3	24.1	125	44	900 03
4	31.6	160	57.5	900 04
5	44.7	200	70.5	900 05
6	63.8	270	88	900 06

Dead Centers FH · Carbide coated



carbide coated for friction drive

For use in rotating headstocks. The center pins with a tungsten carbide-based coating are characterized by a **high coefficient of friction and good wear resistance**.

Type FH · carbide coated with morse taper

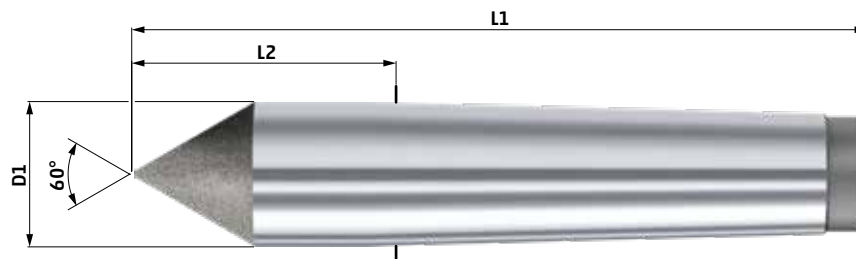
» 60° tip carbide coated

 **0.008**



- Run- out deviation on the workpiece max.: 0.008 mm.
- Made of fully hardened tool-steel.
- 60° tip carbide coated $R_z = 15 \mu\text{m} \pm 2$.
- Thickness of the coating approx. 20 μm .
- Hardness 80 – 85 HRC.
- Max. load of the dead centers upon request.
- Special design upon request.
- The coating can be renewed in the event of wear.

Technical data – type FH · carbide coated with morse taper



MT	D1	L1	L2	cat. no.
2	18	100	36	900 10
3	24.1	125	44	900 11
4	31.6	160	57.5	900 12



Carbide Dead Centers HE / HEG · extended

extended design for increased grinding wheel clearance

Suitable for use in grinding machines with fixed tailstock sleeves. Available with or without extraction thread, can be used for soft and hardened workpieces.

Type HE · without extracting thread



flattened with half carbide tip



0.002



Type HEG · with extracting thread



flattened with half carbide tip



0.002

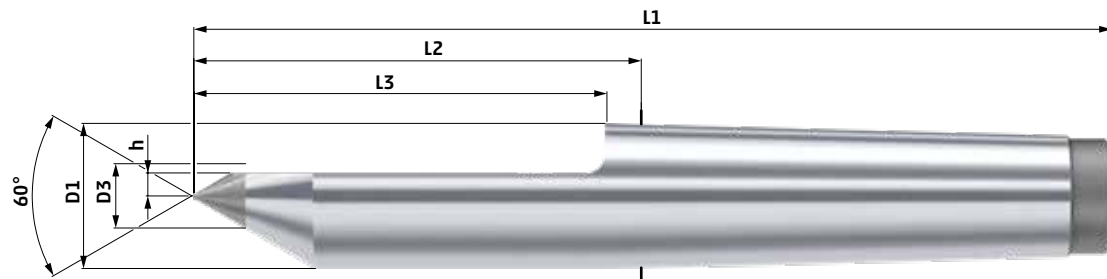


- Run-out deviation max.: 0.002 mm.
- With carbide insert.
- Max. load of the dead centers upon request.
- Special design upon request.
- Extended version of DIN 806 type HE and DIN 807 type HE.
- Extracting nuts DIN 807, see page 173 in our main catalogue.

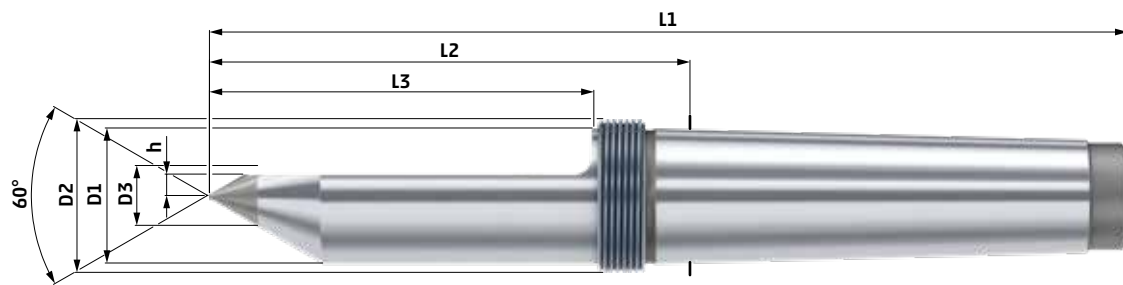
Technical data – type HE / HEG · extended



type HE
flattened with half carbide tip



type HEG
flattened with half carbide tip



TYPE HE



MT	D1	D3	L3	h	L1	L2	cat. no.
2	18	7	55	2	125	61	911 21
3	24.1	11	68	3	155	74	911 22
4	31.6	14	90	5	200	97.5	911 23
5	44.7	18	113	7	250	120.5	911 24

TYPE HEG



D2	L1	L2	cat. no.
M22x1.5	137	73	913 21
M27x1.5	168	87	913 22
M36x1.5	215	112.5	913 23
M48x1.5	267	137.5	913 24



Dead Centers FNM / FNCM / FNZM

design **Mazak**

For use in **Mazak machine tools**. Equipped **with a special sealing surface** for the Mazak sleeve sealing, in sizes MT4 and MT5.

Type FNM with morse taper

↑ **0.002**



Type FNCM with morse taper

» **extended tooling clearance**
for better access of machining tools

↑ **0.002**



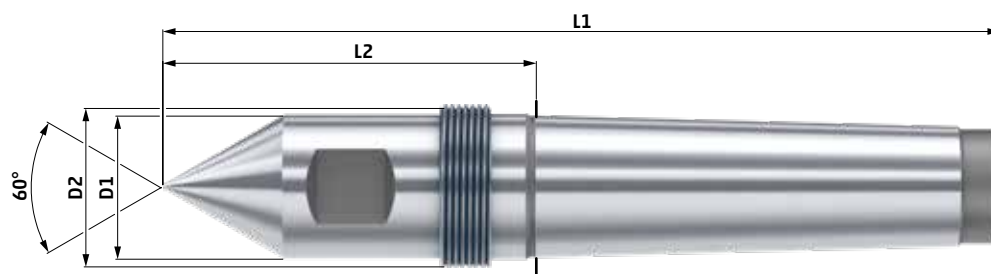
Type FNZM with morse taper

» **cylindrical set down**
for general use with extended length for better
tool clearance

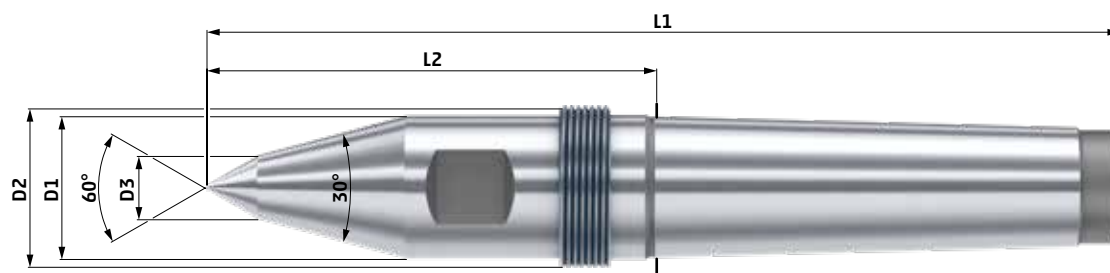
↑ **0.002**



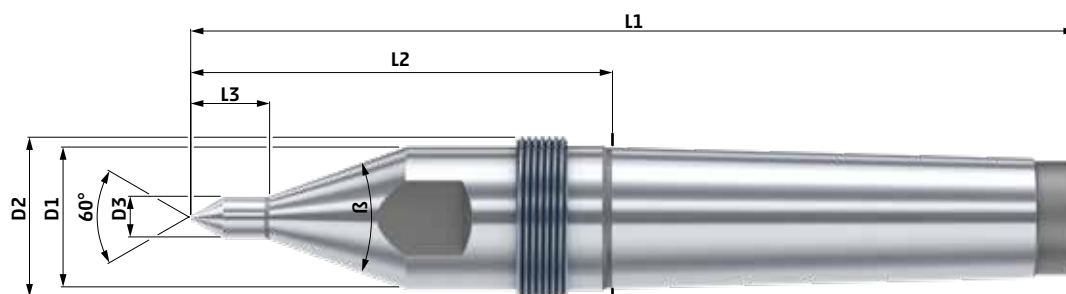
- Run-out deviation max.: 0.002 mm.
- Made of fully hardened tool-steel.
- With cylindrical set down and extended length for better tool clearance.
- All types with extracting thread to prevent spindle ball bearings or solid spindle sleeves from damage.
- Extracting nuts DIN 1804 h, see page 23.
- Max. load of the dead centers upon request.
- Special design upon request.

Technical data – type FNM with morse taper**TYPE FNM**

MT	D1	D2	D3	L1	L2	cat. no.
4	31.6	M35x1.5	-	185	82.5	924 00
5	44.7	M50x1.5	-	237	107.5	924 01

Technical data – type FNCM with morse taper**TYPE FNCM**

MT	D1	D2	D3	L1	L2	cat. no.
4	31.6	M35x1.5	14	202	99.5	924 05
5	44.7	M50x1.5	16	267	137.5	924 06

Technical data – type FNZM with morse taper**TYPE FNZM**

MT4	D1	D2	D3	L1	L2	L3	β	cat. no.
4	31.6	M35x1.5	9	196	93.5	17	40	924 10
	31.6	M35x1.5	13	200	97.5	27	40	924 11
	31.6	M35x1.5	19	208	105.5	53	90	924 12
5	44.7	M50x1.5	19	275	145.5	53	40	924 13
	44.7	M50x1.5	28	267	137.5	65	60	924 14



Dead Centers FNAM / FNWM

design **Mazak**

Type FNAM with morse taper

» for large workpiece centers

high degree of flexibility for clamping of workpieces with large centers



0,01

incl. center cone



changeable center cones
see page 158
in our main catalogue

- Run-out deviation max.: 0.01 mm incl. center cone.
- Different types of center cones from Ø 25 to Ø 315, see page 158 in our main catalogue.
- Special center cones up to Ø 400 available upon customer's request.
- Extracting nuts DIN 1804 h, see page 23.
- Max. load of the dead centers upon request.

Type FNWM with morse taper

» maximum flexibility

the adaptation of various changeable inserts ensures a high degree of flexibility and saving of costs



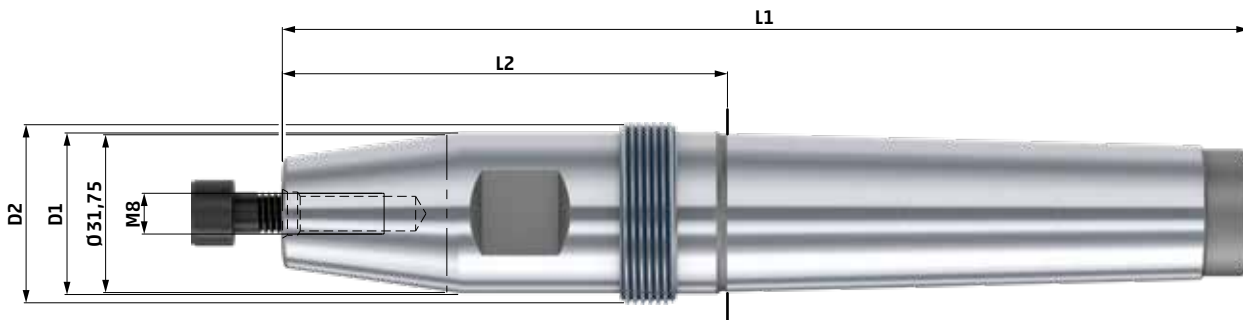
0,01

incl. insert

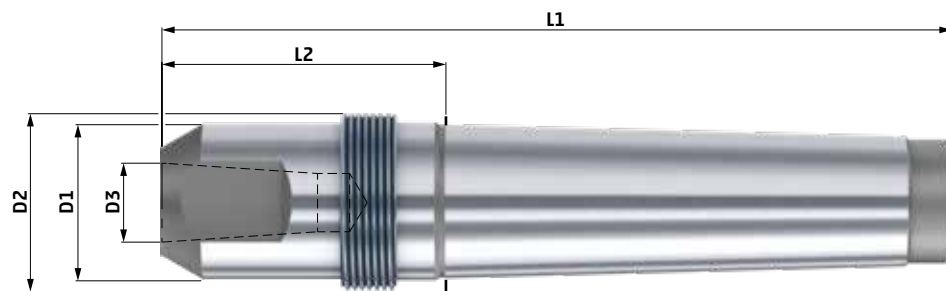


changeable inserts
see page 160 - 161
in our main catalogue

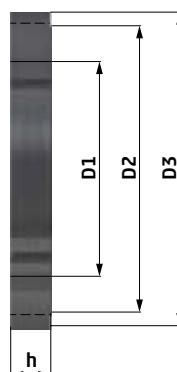
- Run-out deviation max.: 0.01 mm incl. insert.
- Various changeable inserts of different designs, see page 160 - 161 in our main catalogue.
- Special inserts available upon customer's request.
- Extracting nuts DIN 1804 h, see page 23.
- Max. load of the dead centers upon request.

Technical data – type FNM with morse taper**TYPE FNM**

MT	D1	D2	D3	L1	L2	cat. no.
4	31,6	M35x1,5	-	190	87,5	924 20
5	44,7	M50x1,5	-	240	110,5	924 21

Technical data – type FNWM with morse taper**TYPE FNWM**

MT	D1	D2	D3	L1	L2	cat. no.
4	31,6	M35x1,5	16	160	57,5	924 25
5	44,7	M50x1,5	22	200	70,5	924 26

Extracting nut DIN 1804 h**Type DIN 1804 h****Technical data – type DIN 1804 h**

D1	D2	D3	h	cat. no.
M35 x 1.5	47	55	11	830 41
M50 x 1.5	67	75	13	830 45



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