

21670

Blade head supports



Design

- Precision version with enlarged and face-ground contact surfaces
- Short overhang for greater stability

Scope of delivery:

Includes retaining screw.

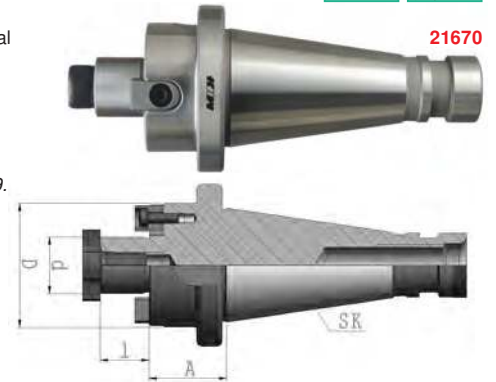
Applications

For face milling cutter heads and cutters with lateral grooves.

Note:

d = 40 mm also has 4 threaded holes for direct mounting.

For retaining screws, see art. no. 21656 and 21659. Retaining screw no. 21657.



21670

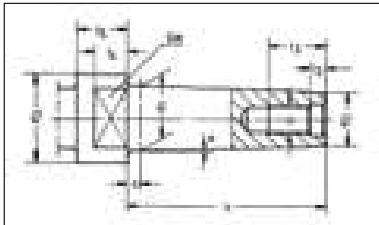
Taper SK	d mm	A mm	D mm	l mm	21670	...
40	22	30	48	19		305
40	27	30	58	21		306
40	32	30	78	24		307
40	40	30	88	27		308

Taper SK	d mm	A mm	D mm	l mm	21670	...
50	27	35	58	21		403
50	32	40	78	24		404
50	40	33	88	27		405

Info

Tool holder according to DIN 228

Morse taper shanks MK 3 - MK 5 DIN 228 Part 1 Shape A with synchronisation DIN 2207.



MK	l1 mm	d1 mm	g	a mm	d2 mm	d3 mm	l2 mm	l3 mm	l4 mm	l5 mm	SW	A Degrees/Minutes/Seconds
3	86	23.825	M 12	5.0	19.0	36	5.5	24	12	18	24	1/26/16
4	109	31.267	M 16	6.5	25.0	43	8.2	32	15	23	32	1/29/15
5	136	44.399	M 20	6.5	35.7	60	10.0	40	18	28	45	1/30/26

21180

High-performance three-jaw drill chuck SBF-plus



ALBRECHT

Präzisions Spannfutter

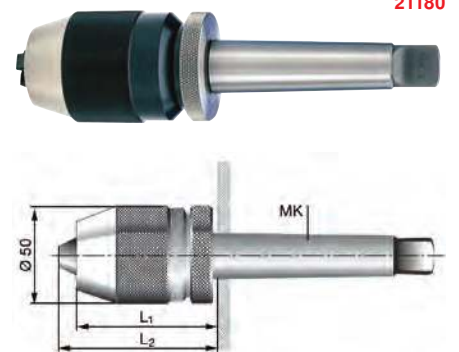
Design

Drill chuck with integrated MK shank. Keyless clamping, automatic reclamping, high degree of concentricity. Optimal stability thanks to compact design.

Applications

Only for clockwise rotation.

Clamping range mm	Drive arbor	D mm	L <sub>1</sub> mm	21180	...
1-13	MK 2	50	85.0		101
1-13	MK 3	50	85.0		102
1-13	MK 4	50	86.5		103
1-13	Diameter 16	50	79.0		104
3-16	MK 3	56	89.0		105
3-16	MK 4	56	90.0		106



21180

21321

Quick-change chuck



FAHRION®

PRÄZISION

Design

Precise quick-change chuck.

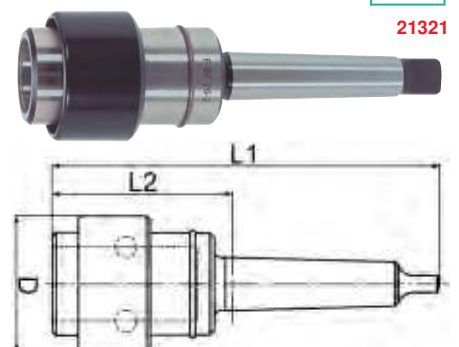
Applications

For drills and drilling machines.

Note:

For quick-change inserts, see art. no. 21323 and 21325.

Size	Shank MK	For holes in steel Ø mm	L1 mm	L2 mm	D mm	For insert sleeve Ø mm	21321	...
2	3	32	176	82	61	34		104
3	4	50	222	104	86	46		105



21321



**21323 Morse taper insert sleeves**

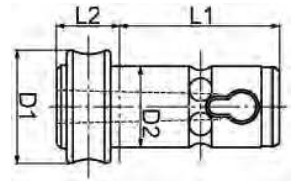


**Applications**

For quick-change chuck no. 21321. For mounting tools with Morse taper shanks and flat tangs in

accordance with DIN 228 B and clamping sleeves in accordance with DIN 6329 no. 22711 (for tools with straight shanks).

21323



For chuck size	For tools with MK	D2 sleeve Ø mm	L1 mm	L2 mm	D1 mm	21323	...
2	1	34	65	22	46		105
2	2	34	65	26	46		106
2	3	34	65	43	46		107
3	1	46	82	23	58		108
3	2	46	82	23	58		109
3	3	46	82	27	58		110
3	4	46	82	53	58		111

**21406 Tapping chucks**



**Design**

Double chuck, clamps shank, square. Adjustable safety slip coupling prevents tool breakage. Pendulum device compensates for misalignment between the machine and the workpiece. Elastic length compensation under compression and tension.

**Scope of delivery:**

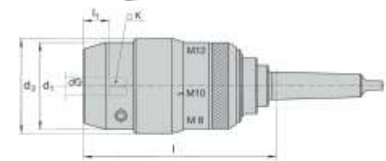
Includes spanner.

**Applications**

For cutting internal threads on reversible drills, lathes and milling machines. Can be used horizontally and vertically.



21406



Shank MK	Ø d mm	□ K mm	Metric thread	Whitworth thread	Whitworth pipe thread	Pendulum mm	Length compensation pressure/tension mm	d <sub>1</sub> mm	d <sub>2</sub> mm	l mm	l <sub>1</sub> mm	21406	...
2	2.5-10	0.0-8	M 3-12	1/8-1/2 inch	THD 1/8 inch	1.0	10/20	53	58	135	18-20		101
3	2.5-10	0.0-8	M 3-12	1/8-1/2 inch	THD 1/8 inch	1.0	10/20	53	58	135	18-20		102
3	6.0-16	4.7-12	M 8-20	1/4-13/16 inch	THD 1/8-1/2 inch	1.5	10/20	76	83	170	23-28		103
4	6.0-16	4.7-12	M 8-20	1/4-13/16 inch	THD 1/8-1/2 inch	1.5	10/20	76	83	171	23-28		104
4	11.0-23	0.0-18	M 14-30	9/16-1.1/8 inch	THD 1/4-7/8 inch	2.0	10/30	100	106	230	25-34		105

**21408 Thread-cutting devices**



**Design**

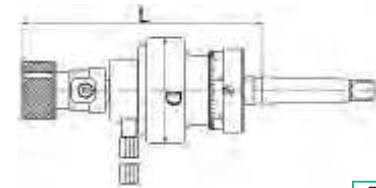
With infinitely adjustable clamping jaws. Integrated reverse 2:1. Adjustable safety slip coupling prevents tool breakage. Direction of rotation reverses immediately when the feed direction is changed.

**Applications**

For cutting female threads on table and pillar drills that rotate clockwise.



21408



Shank MK	Cutting range	Clamping range drill shank mm	Rotation speed max. rpm	D mm	L mm	21408	...
2	M 3-M 10	2.5-10.0	600	69	158		102
3	M 6-M 16	4.5-12.5	400	82	183		104
3	M 14-M 27	11.0-22.4	250	105	244		105

**21410 Thread-cutting devices**



**Design**

With Morse taper shank in accordance with DIN 228 B with a length compensation under tension.

**Applications**

For machine thread cutting on drills with manual feed and with non-reversing spindles. Maintenance free and suitable for both right-hand and left-hand threads.

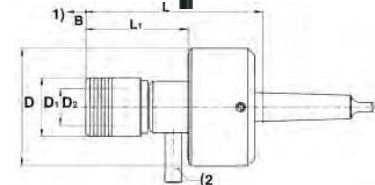
**Note:**

For quick-change inserts, see art. no. 21459-21460. Thread-cutting devices with other shafts deliverable on request.

- 1) Notch
- 2) Torque support



21410



Size	Type	For screw tap	n max. rpm	B mm	L mm	L <sub>1</sub> mm	D mm	D <sub>1</sub> mm	D <sub>2</sub> mm	21410	...
1	TA 12/MK 2	M 3-M 12	1200	6	140	60	80	32	19		102
1	TA 12/MK 3	M 3-M 12	1200	6	140	60	80	32	19		103
2	TA 20/MK 3	M 8-M 20	500	8	170	86	100	50	31		104



21541

## OZ collet chucks

DIN  
228

A

21541

## Design

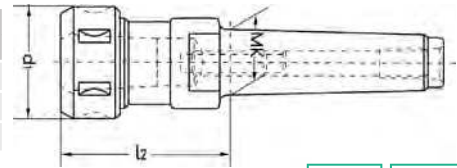
Morse taper with inner clamping threads.  
With clamping nut.

## Note:

For collet chucks, see art. no. 21552–21554.



Taper MK/ Clamping thread	Clamping range mm	For collet chuck type	l <sub>2</sub> mm	d <sub>1</sub> mm	21541	...
2/M 10	2–16	415 E	62	43		100
3/M 12	2–25	462 E	70	60		101
4/M 16	2–25	462 E	70	60		102



21648

## Combination mill arbors

DIN  
228

A

21648

## Design

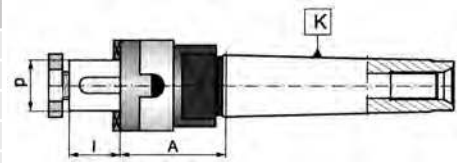
Morse taper shank with inner clamping thread.

## Applications

With key for cutters with longitudinal grooves such as DIN 841, and driver ring for cutters with lateral groove DIN 1880 and blade heads DIN 1830.



Taper MK	d mm	A mm	l mm	21648	...
3	16	48	17		101
3	22	48	19		102
3	27	48	21		103
4	22	55	19		106
4	27	55	21		107



## Info

## Tool chucks in accordance with DIN 69893

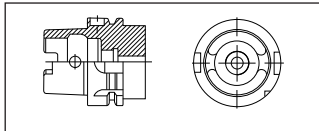
## Design

Alloyed case-hardening steel, min. tensile strength of 950 N/mm<sup>2</sup>. Taper tolerance lower than AT3 in accordance with DIN 7187 and DIN 2080. The operating hardness and depth are adapted to the respective chuck. To prevent the risk of breaking or cracking, thin-walled HSK chucks are not fully hardened.

## Various shapes of hollow shank taper in line with DIN 69893:

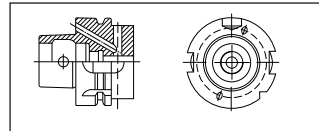
## Hollow shank taper HSK for automatic tool changes with gripper groove.

## Type A



- Machining centre applications with automatic tool changes.
- Central coolant supply via coolant tube.

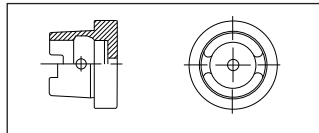
## Type B



- Machining centre and lathe applications with automatic tool changes.
- Extended contact flange.
- Coolant supply via flange or central coolant tube.

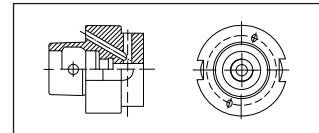
## HSK hollow shank taper for manual tool changes without gripper groove.

## Type C



- Primarily for applications in transfer lines and special machines with manual tool changes.
- Central coolant supply.

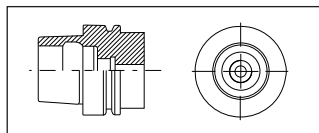
## Type D



- Suitable for machining applications that require good support from a flat face.
- Manual tool change.
- Extended contact flange.
- Coolant supply via flange or central coolant tube.

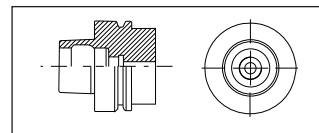
## HSK hollow shank taper for high rotation speeds in high-speed cutting (HSC) with gripper groove.

## Type E



- HSC machining applications.
- Symmetrical without driver slots.
- Central coolant supply possible via coolant tube.

## Type F



- Extended contact flange.
- Central coolant supply possible via coolant tube.

