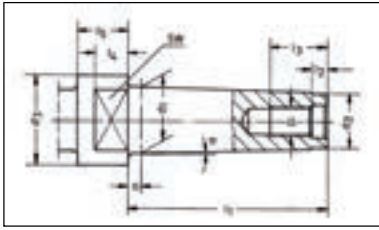


Info

Tool holding fixture in accordance with DIN 228

Morse taper shanks MT 3 - MT 5 DIN 228 Part 1 shape A with driver DIN 2207.



MT	l1 mm	d1 mm	G	a mm	d2 mm	d3 mm	l2 mm	l3 mm	l4 mm	l5 mm	SW	A Degree/minute/second
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 Chucks SBF-plus

DIN 228

ALBRECHT

Präzisions Spannfutter

Type

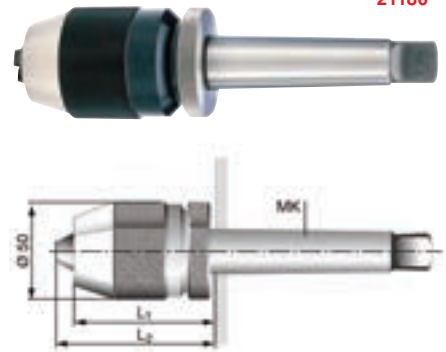
Drill chuck with integrated MT shank. Keyless clamping, automatic tightening, high true-running accuracy. Optimal stability thanks to a compact design.

Use

Only for clockwise operation.

21180

Clamping width mm	Clamping shank	D mm	L ₁ mm	21180	...
1 - 13	MK 2	50	85,0	101	102
1 - 13	MK 3	50	85,0	103	104
1 - 13	MK 4	50	86,5	105	106
1 - 13	Ø 16	50	79,0		
3 - 16	MK 3	56	89,0		
3 - 16	MK 4	56	90,0		



21321

Quick-Change Chucks

DIN 228

FAHRION®

PRÄZISION

Type

Precise quick-change mount.

Use

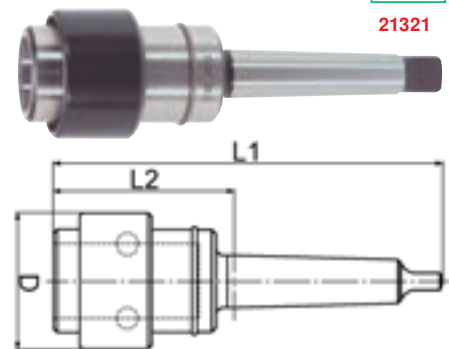
For boring mills and drills.

Note:

Quick-change sleeves see cat.-no. 21323 and 21325.

21321

Size	Shank MT	for boreholes in steel Ø mm	L1 mm	L2 mm	D mm	for chuck collet Ø mm	21321	...
2	3	32	176	82	61	34	104	105
3	4	50	222	104	86	46		



21323

Morse Taper Chuck Collets

FAHRION®

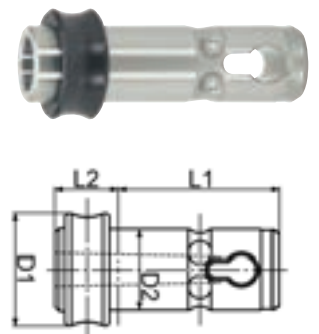
PRÄZISION

Use

For Quick-change collet cat.-no. 21321. For location of tools with Morse taper shank and ejector lugs acc. to DIN 228 B and clamping sleeves acc. to DIN 6329 cat.-no. 22711 (for tools with cyl. shank).

21323

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



Tap drill insert sleeves | Tap cutting chuck | Tapping Attachments | Collet chucks Combination milling cutter arbors

21325

Tap drill insert sleeves

FAHRION®
PRÄZISION

Type

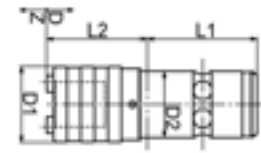
For mounting quick-change sleeves without friction clutch (cat.-no. 21459) or with adjustable safety friction clutch (cat.-no. 21460). with Length compensation in response to compression and tension (D/Z).

Use

For quick-change collet cat.-no. 21321.
For clamping tap drills with square collet.

21325

for chuck size	Cutting range	D/Z mm	L1 mm	L2 mm	D1 mm	D2 mm	Inserts size	21325	...
2	M 3 - M 12	7.5	65	45	36	34	1	101	
2	M 8 - M 20	12.5	65	69	53	34	2	102	
3	M 3 - M 12	7.5	82	45	36	46	1	103	
3	M 8 - M 20	12.5	82	69	53	46	2	104	



21406

Tap cutting chuck

BILZ

Type

Double chuck, clamps shank and square-end. Adjustable safety friction clutch to prevent tool breakage. Pendulum unit balances out alignment errors between machine and workpiece. Elastic length compensation in response to compression and tension.

Scope of supply:

Incl. of wrench.

Use

For cutting internal threads with reversible drills, lathes, and milling machines. Can be mounted horizontally or vertically.

DIN 228

21406



Shank MT	Ø d mm	□ K mm	Metric thread	Whitworth thread	Whitworth pipe thread	Pendulum action mm	Length compensation compr./tension mm	d1 mm	d2 mm	l mm	l1 mm	21406	...
2	2.5 - 10	0.0 - 8	M 3 - 12	1/8 - 1/2 inch	G 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	G 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	G 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	G 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	G 1/4 - 7/8 inch	2.0	10/30	100	106	230	25 - 34	105	

21408

Tapping Attachments

FAHRION®
PRÄZISION

Type

With infinitely adjustable clamping jaws. Installed return line 2:1. Adjustable safety friction clutch to prevent tool breakage. Rotation change immediately after an exchange of feed direction.

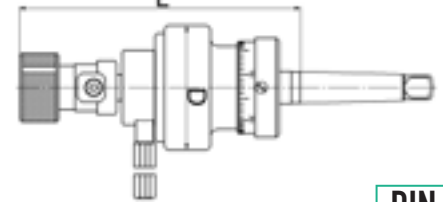
Use

For cutting internal threads on clockwise rotating table and tower drilling machines.

DIN 228

21408

Shank MT	Cutting range	Clamping range shank mm	Rotational 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

Tapping Attachments

BILZ

Type

With Morse taper shank in compliance with DIN 228 B with length compensation in response to tension.

Use

For thread cutting with hand drills and manual feed and without spindle reservation. maintenance-free and for right- and left-hand threads.

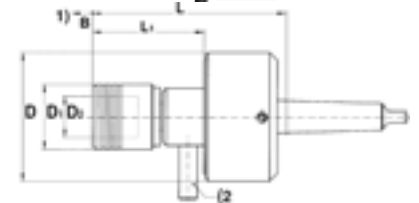
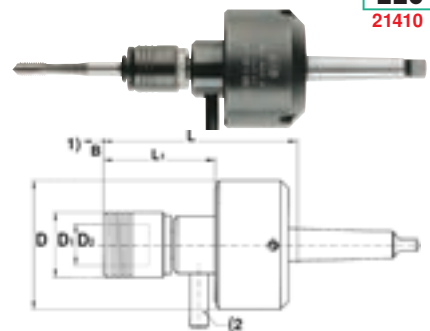
Note:

Quick-change sleeves see cat.-no. 21459 - 21460.
Tapping heads with further shanks available on request.

- 1) Self feed
- 2) Torque support

DIN 228

21410



Size	Type	for taps	n max. rpm	B mm	L mm	L1 mm	D mm	D1 mm	D2 mm	21410	...
1	TA 12/MT 2	M 3 - M 12	1200	6	140	60	80	32	19	102	
1	TA 12/MT 3	M 3 - M 12	1200	6	140	60	80	32	19	103	
2	TA 20/MT 3	M 8 - M 20	500	8	170	86	100	50	31	104	

21541

OZ collet chucks

DIN
228

A

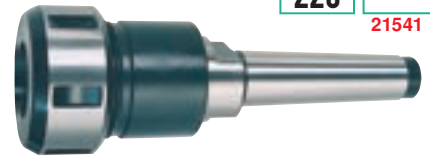
21541

Type

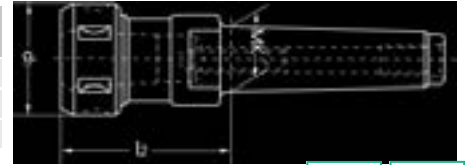
Morse taper shank with internal draw-in thread.
With clamping nut.

Note:

Collets see cat.-no. 21552 - 21554.



Taper MT / draw-in thread	Clamping range mm	for collets Type	l ₂ mm	d ₁ 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 milling cutter arbors

DIN
228

A

21648

Type

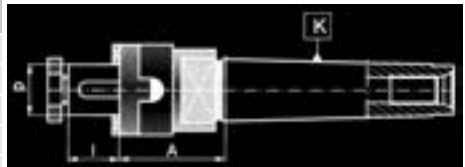
Morse taper shank with internal draw-in thread.

Use

With feather key for milling cutters with longitudinal keyway e.g. DIN 841 and driving ring for milling cutters with transverse slot DIN 1880 and milling heads DIN 1830.



Taper MT	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 supports acc. to DIN 69893

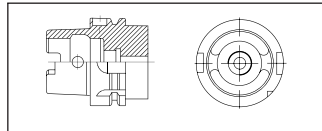
Type

Alloyed case-hardened steel, min. tensile strength 950 N/mm². Taper tolerance less than AT3 acc. to DIN 7187 and DIN 2080. The case hardness and case depth are adapted to suit each support. In order to avoid breakage or cracks, the thin-walled HSK chucks are not full-hardened.

The different shapes of the hollow shank taper DIN 69893:

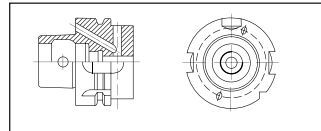
Hollow shank taper HSK for automatic tool exchange with gripper groove

Shape A



- For machining centres with automatic tool changing.
- Central coolant supply through coolant tube.

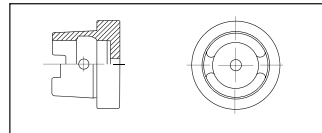
Shape B



- For machining centres and turning machines with automatic tool changing.
- Enlarged contact.
- Coolant through flange or central with coolant tube.

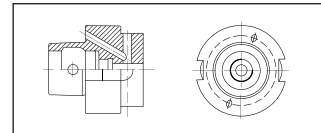
Hollow shank taper HSK for manual tool changing without gripper groove

Shape C



- Preferred type in transfer lines and special machines with manual tool exchange.
- Central coolant supply.

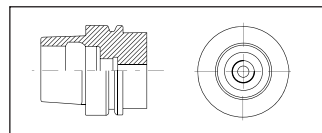
Shape D



- For applications requiring good support through face rest.
- Manual tool exchange.
- Enlarged contact.
- Coolant through flange or central with coolant tube.

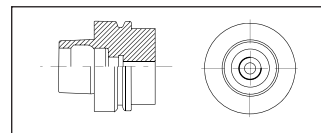
Hollow shank taper HSK for high rotational speed applications during high speed machining (HSC) with gripper groove

Shape E



- Preferred for high-speed machining.
- Symmetric without driver slots.
- Central coolant supply possible through coolant tube.

Shape F



- Enlarged contact.
- Central coolant supply possible through coolant tube.

