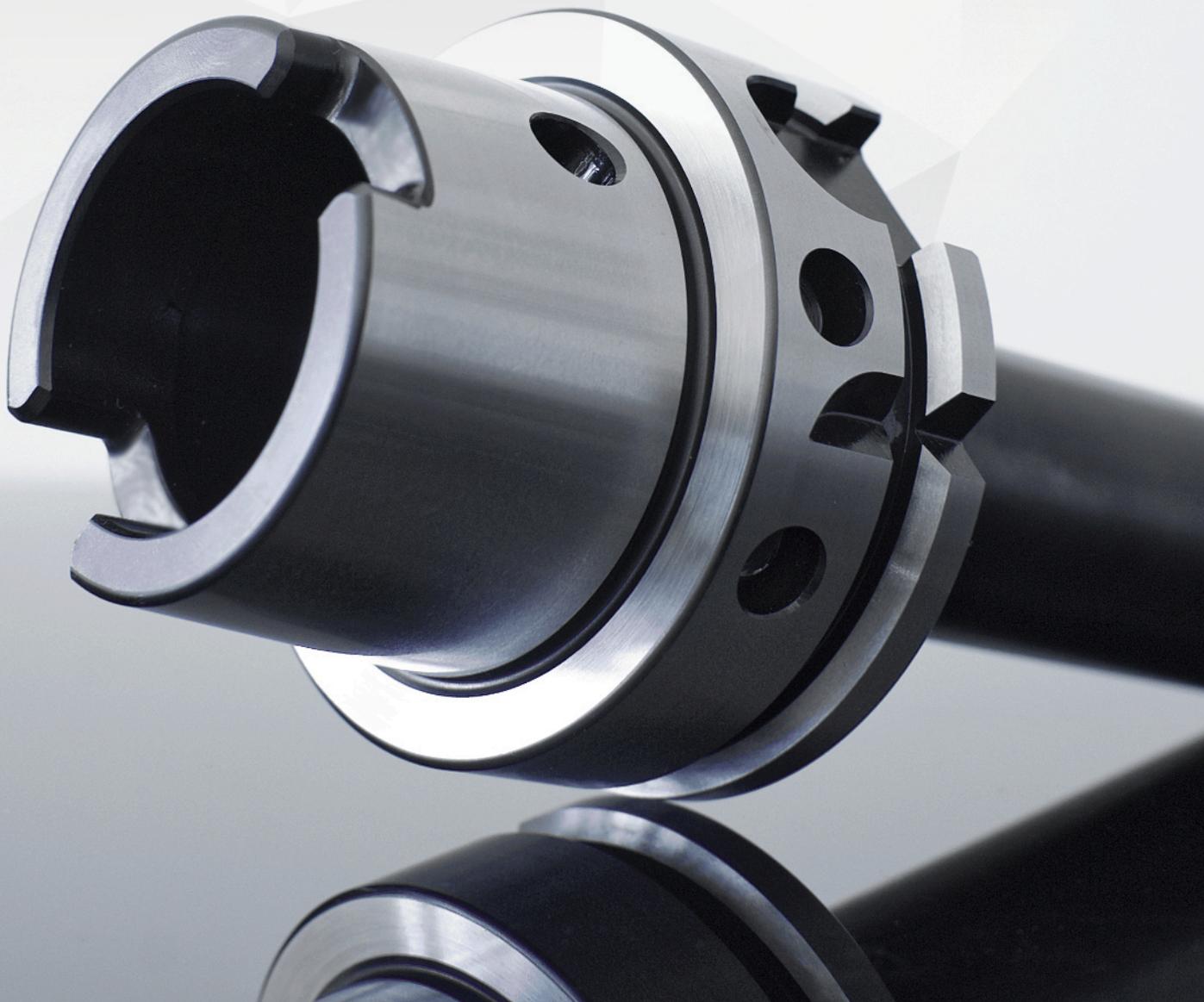


Tool holders  
HSK ISO 12164 (DIN 69893)

2024

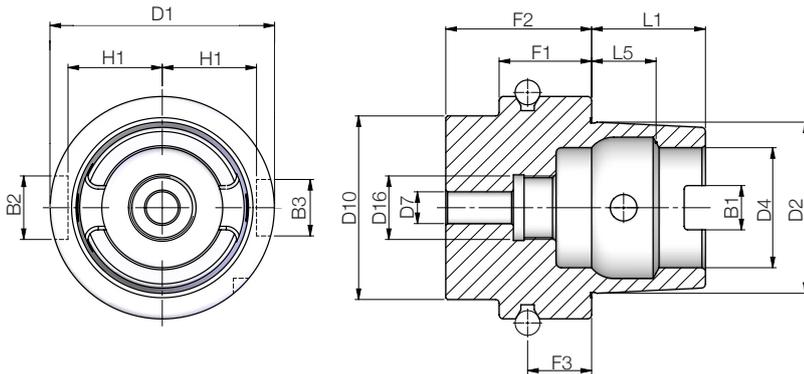




## HSK ISO 12164 (DIN 69893)

HSK 32	THERMO Shrink-fit chucks	7
HSK 32	“3 in 1” THERMO Shrink-fit chucks	7
HSK 40	THERMO Shrink-fit chucks	8
HSK 40	“3 in 1” THERMO Shrink-fit chucks	8
HSK 50	THERMO Shrink-fit chucks	9
HSK 50	“3 in 1” THERMO Shrink-fit chucks	9
HSK 63	THERMO Shrink-fit chucks	11
HSK 63	“3 in 1” THERMO Shrink-fit chucks	12
HSK 63	Extended “3 in 1” THERMO Shrink-fit chucks	13
HSK 63	THERMO Shrink-fit chucks - <i>Compact execution</i>	14
HSK 63	3° THERMO Shrink-fit chucks	15
HSK 63	End mill holders - <i>Slim execution</i>	16
HSK 63	End mill holders - <i>Internal coolant supply</i>	17
HSK 63	End mill holders	18
HSK 63	ER Collet chucks	20
HSK 63	ER Collet chucks - <i>Mini execution</i>	21
HSK 63	Morse taper holders for drills	22
HSK 63	Morse taper holders for mills	22
HSK 63	Threaded shank milling cutter holders	23
HSK 63	Combi shell mill holders for milling cutters	24
HSK 63	Shell mill holders for cutters with driving slot	24
HSK 63	Holders for indexable inserts drills	25
HSK 63	HV drill chucks for RH and LH rotation	25
HSK 63	Quick-change tapping heads	26
HSK 63	Blank bars	26
HSK 63	Test bars	26
HSK 63	Rectangular shank adaptors	28
HSK 63	Indexable inserts drills holders	29
HSK 63	Boring bar holders	29
HSK 100	THERMO Shrink-fit chucks	31
HSK 100	“3 in 1” THERMO Shrink-fit chucks	32
HSK 100	Extended “3 in 1” THERMO Shrink-fit chucks	33
HSK 100	End mill holders	34
HSK 100	End mill holders - <i>Slim execution</i>	35
HSK 100	End mill holders - <i>Internal coolant supply</i>	36
HSK 100	ER Collet chucks	37
HSK 100	ER Collet chucks - <i>Mini execution</i>	37
HSK 100	Morse taper holders for drills	38
HSK 100	Morse taper holders for mills	38
HSK 100	Threaded shank milling cutter holders	39
HSK 100	Combi shell mill holders for milling cutters	40
HSK 100	Shell mill holders for cutters with driving slot	41
HSK 100	Holders for indexable inserts drills	42
HSK 100	Quick-change tapping heads	42
HSK 100	Blank bars	43
HSK 100	Test bars	43





## HSK ISO 12164

### Form A Form C

Cone D1	D2	D4	D7 (max)	D10 (max)	D16	B1	B2	B3	F1	F2	F3	L1	L5	H1
32	24	17	4.2	26	M10x1	7.05	7	9	20	35	16	16	8.92	13
40	30	21	5	34	M12x1	8.05	9	11	20	35	16	20	11.42	17
50	38	26	6.8	42	M16x1	10.54	12	14	26	42	18	25	14.13	21
63	48	34	8.4	53	M18x1	12.54	16	18	26	42	18	32	18.13	26.5
80	60	42	10.2	68	M20x1.5	16.04	18	20	26	42	18	40	22.85	34
100	75	53	12	88	M24x1.5	20.02	20	22	29	45	20	50	28.56	44

Material: Case hardened steel with min. 900 N/mm<sup>2</sup> of tensile strength in core.

Execution: Case hardened 58±2 Hrc. Depth of case 0.6 - 0.8 mm. Black oxidised.

Accuracy: Taper angle AT3 quality class. Roughness Ra < 0.4

## Key benefits of THERMO Shrink-fit:

Unlike more traditional tool clamping systems, Shrink-fit toolholding employs heating and cooling properties of steel in order to achieve superior clamping force.

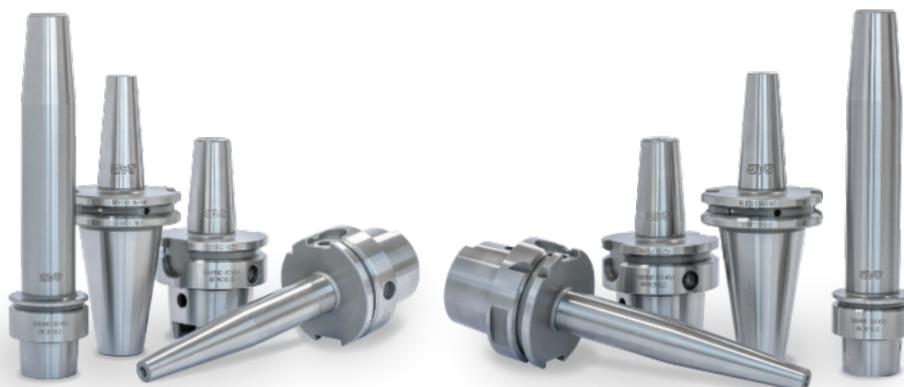
Inside diameter of the toolholder is precisely manufactured to be slightly smaller than the shank diameter of the cutting tool at the room temperature.

Using shrink-fit machine, heat is applied to the toolholder allowing it to expand so that the cutting tool can fit in. Upon cooling down, toolholder contracts to its original dimension the cutting tool.

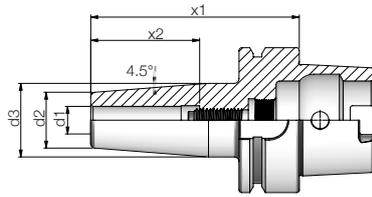
This clamping system allows for certain benefits not found in more traditional clamping:

- **Superior tool runout** - monobloc toolholder, without clamping elements (bolts, nuts, etc.)
- **Higher rigidity** - tool shank is gripped 360 deg., through the whole bore length
- **Straightforward operation** - fast tool change, less accessories required
- **Increased tool life** - better chip load distribution along the cutting edge
- **Easier workpiece approach** - thinner profile, reduced nose diameter, various toolholder lengths
- **Enhanced reach** - with use of cylindrical shrink fit extensions
- **Internal coolant supply** - delivering coolant through the toolholder to the tool edge for better chip removal and superior surface finish.
  - Coolant ports sealable using M4 screws.
  - High pressure nozzles for better coolant direction at higher rpm.
- **Extended spindle life** - tool holders fine balanced G2.5 at 25 000 rpm or more.
- **Costs saving** - higher machine productivity due to stable operation, increased feeds and speeds and cutting depths.

SAB has two decades worth of experience in supplying customers around the world with only top-quality Shrink fit toolholders.



## THERMO Shrink-fit chucks



Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>

d1	d2	d3	x1	x2	Code
3	9	17	70	-	SF03.32A.070
4	10	18	70	-	SF04.32A.070
5	11	19	70	-	SF05.32A.070

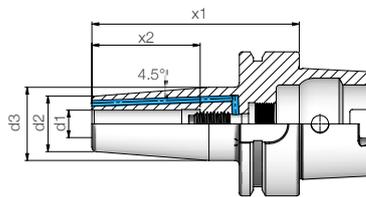
**32**  
Form A+C

## “3 in 1” THERMO Shrink-fit chucks

Internal coolant supply



1 - Open      2 - Closed      3 - High speed



Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>

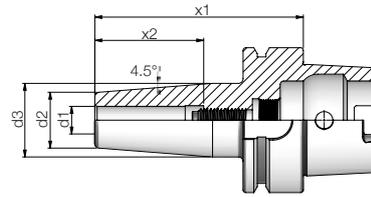
d1	d2	d3	x1	x2	Code
6	21	27	70	36	SF06.32A.070.IK
8	21	27	75	36	SF08.32A.070.IK
10	27	32	75	40	SF10.32A.070.IK

**32**  
Form A+C

Including high speed nozzles and sealing plugs

## THERMO Shrink-fit chucks

Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>



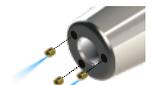
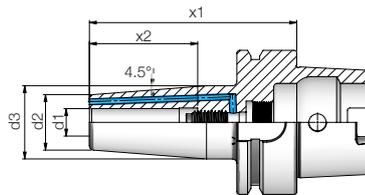
**40**  
Form A+C

d1	d2	d3	x1	x2	Code
3	9	15	60	-	SF03.40A.060
3	9	22	130	-	SF03.40A.130
4	10	16	60	-	SF04.40A.060
4	10	22	130	-	SF04.40A.130
5	11	17	60	-	SF05.40A.060
5	11	22	130	-	SF05.40A.130

## “3 in 1” THERMO Shrink-fit chucks

Internal coolant supply

Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>



1 - Open

2 - Closed

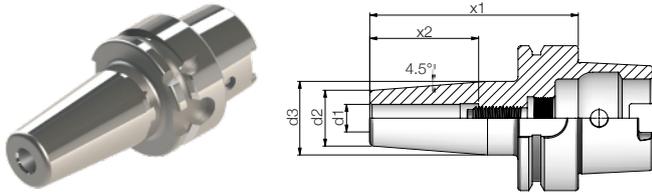
3 - High speed

**40**  
Form A+C

d1	d2	d3	x1	x2	Code
6	21	27	80	36	SF06.40A.080.IK
6	21	27	130	36	SF06.40A.130.IK
8	21	27	80	36	SF08.40A.080.IK
8	21	27	130	36	SF08.40A.130.IK
10	24	32	80	42	SF10.40A.080.IK
10	24	32	130	42	SF10.40A.130.IK
12	24	32	90	47	SF12.40A.090.IK
12	24	32	130	47	SF12.40A.130.IK
16	27	34	90	50	SF16.40A.090.IK
16	27	34	130	50	SF16.40A.130.IK

*Including high speed nozzles and sealing plugs*

## THERMO Shrink-fit chucks



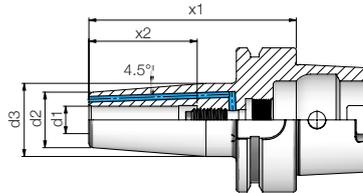
Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>

d1	d2	d3	x1	x2	Code
3	9	17	80	-	SF03.50A.080
3	9	22	120	-	SF03.50A.120
4	10	18	80	-	SF04.50A.080
4	10	22	120	-	SF04.50A.120
5	11	19	80	-	SF05.50A.080
5	11	22	120	-	SF05.50A.120

**50**  
Form A+C

## “3 in 1” THERMO Shrink-fit chucks

Internal coolant supply



Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>

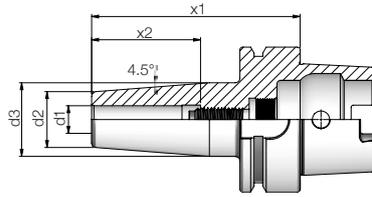
d1	d2	d3	x1	x2	Code
6	21	27	80	36	SF06.50A.080.IK
6	21	27	120	36	SF06.50A.120.IK
8	21	27	80	36	SF08.50A.080.IK
8	21	27	120	36	SF08.50A.120.IK
10	24	32	85	42	SF10.50A.085.IK
10	24	32	120	42	SF10.50A.120.IK
12	24	32	90	47	SF12.50A.090.IK
12	24	32	120	47	SF12.50A.120.IK
14	27	32	90	47	SF14.50A.090.IK
14	27	32	120	47	SF14.50A.120.IK
16	27	34	95	50	SF16.50A.095.IK
16	27	34	120	50	SF16.50A.120.IK
18	33	42	95	50	SF18.50A.095.IK
18	33	42	120	50	SF18.50A.120.IK
20	33	42	100	52	SF20.50A.100.IK
20	33	42	120	52	SF20.50A.120.IK

**50**  
Form A+C

Including high speed nozzles and sealing plugs



## THERMO Shrink-fit chucks



Radial runout  $\leq 0,003$  mm

G2.5 at 25 000 min<sup>-1</sup>

d1	d2	d3	x1	x2	Code
3	9	16	80	-	SF03.63A.080
3	9	16	120	-	SF03.63A.120
3	9	22	160	-	SF03.63A.160
4	10	17	80	-	SF04.63A.080
4	10	17	120	-	SF04.63A.120
4	10	22	160	-	SF04.63A.160
5	11	18	80	-	SF05.63A.080
5	11	18	120	-	SF05.63A.120
5	11	22	160	-	SF05.63A.160
6	21	27	80	36	SF06.63A.080
6	21	27	120	36	SF06.63A.120
6	21	27	160	36	SF06.63A.160
8	21	27	80	36	SF08.63A.080
8	21	27	120	36	SF08.63A.120
8	21	27	160	36	SF08.63A.160
10	24	32	85	42	SF10.63A.085
10	24	32	120	42	SF10.63A.120
10	24	32	160	42	SF10.63A.160
12	24	32	90	47	SF12.63A.090
12	24	32	120	47	SF12.63A.120
12	24	32	160	47	SF12.63A.160
14	27	34	90	47	SF14.63A.090
14	27	34	120	47	SF14.63A.120
14	27	34	160	47	SF14.63A.160
16	27	34	95	50	SF16.63A.095
16	27	34	120	50	SF16.63A.120
16	27	34	160	50	SF16.63A.160
18	33	42	95	50	SF18.63A.095
18	33	42	120	50	SF18.63A.120
18	33	42	160	50	SF18.63A.160
20	33	42	100	52	SF20.63A.100
20	33	42	120	52	SF20.63A.120
20	33	42	160	52	SF20.63A.160
25	44	53	115	58	SF25.63A.115
25	44	53	160	58	SF25.63A.160
32	44	53	100	63	SF32.63A.100
32	44	53	160	63	SF32.63A.160

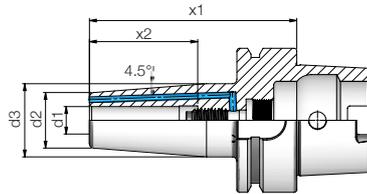


## “3 in 1” THERMO Shrink-fit chucks

Internal coolant supply

Radial runout  $\leq 0,003$  mm

G2.5 at 25 000 min<sup>-1</sup>

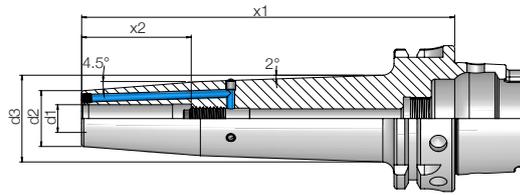


	d1	d2	d3	x1	x2	Code
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>63</b>  <small>Form A+C</small> </div>	6	21	27	80	36	SF06.63A.080.IK
	6	21	27	120	36	SF06.63A.120.IK
	8	21	27	80	36	SF08.63A.080.IK
	8	21	27	120	36	SF08.63A.120.IK
	10	24	32	85	42	SF10.63A.085.IK
	10	24	32	120	42	SF10.63A.120.IK
	12	24	32	90	47	SF12.63A.090.IK
	12	24	32	120	47	SF12.63A.120.IK
	14	27	34	90	47	SF14.63A.090.IK
	14	27	34	120	47	SF14.63A.120.IK
	16	27	34	95	50	SF16.63A.095.IK
	16	27	34	120	50	SF16.63A.120.IK
	18	33	42	95	50	SF18.63A.095.IK
	18	33	42	120	50	SF18.63A.120.IK
	20	33	42	100	52	SF20.63A.100.IK
	20	33	42	120	52	SF20.63A.120.IK
25	44	53	115	58	SF25.63A.115.IK	
32	44	53	120	63	SF32.63A.120.IK	

*Including high speed nozzles and sealing plugs*

# Extended “3 in 1” THERMO Shrink-fit chucks

Internal coolant supply



Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>

d1	d2	d3	x1	x2	Code
6	21	33.5	160	36	SF06.63A.160.IK
6	21	36	200	36	SF06.63A.200.IK
8	21	33.5	160	36	SF08.63A.160.IK
8	21	36	200	36	SF08.63A.200.IK
10	24	37.5	160	42	SF10.63A.160.IK
10	24	40.5	200	42	SF10.63A.200.IK
12	24	37.5	160	47	SF12.63A.160.IK
12	24	40.5	200	47	SF12.63A.200.IK
14	27	40	160	47	SF14.63A.160.IK
14	27	43	200	47	SF14.63A.200.IK
16	27	40	160	50	SF16.63A.160.IK
16	27	43	200	50	SF16.63A.200.IK
18	33	47	160	50	SF18.63A.160.IK
18	33	50	200	50	SF18.63A.200.IK
20	33	47	160	52	SF20.63A.160.IK
20	33	50	200	52	SF20.63A.200.IK
25	44	53	160	58	SF25.63A.160.IK
32	44	53	160	63	SF32.63A.160.IK



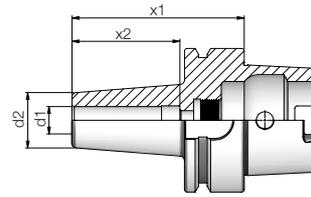
Including high speed nozzles and sealing plugs  
Vibration-dampening tapered profile

## THERMO Shrink-fit chucks

Compact execution

Radial runout  $\leq 0,003$  mm

G2.5 at 25 000 min<sup>-1</sup>

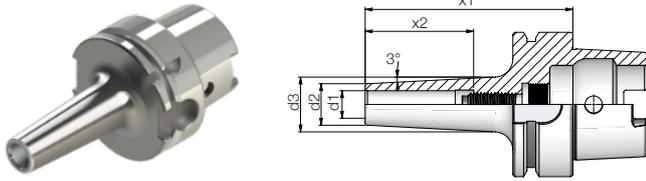


**63**  
Form A+C

d1	d2	x1	x2	Code
6	21	65	36	SF06.63A.065
8	21	65	36	SF08.63A.065
10	24	65	42	SF10.63A.065
12	27	75	47	SF12.63A.075
14	33	75	47	SF14.63A.075
16	33	75	50	SF16.63A.075
18	44	75	50	SF18.63A.075
20	44	75	50	SF20.63A.075
25	46	85	56	SF25.63A.085
32	47	85	58	SF32.63A.085

## 3° THERMO Shrink-fit chucks

Slim execution



Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>

d1	d2	d3	x1	x2	Code
3	9	14	80	-	SF03.63A.080.3
3	9	18	120	-	SF03.63A.120.3
3	9	22	160	-	SF03.63A.160.3
4	10	15	80	-	SF04.63A.080.3
4	10	19	120	-	SF04.63A.120.3
4	10	23	160	-	SF04.63A.160.3
5	11	16	80	-	SF05.63A.080.3
5	11	20	120	-	SF05.63A.120.3
5	11	24	160	-	SF05.63A.160.3
6	12	17	80	36	SF06.63A.080.3
6	12	21	120	36	SF06.63A.120.3
6	12	25	160	36	SF06.63A.160.3
8	14	19	80	36	SF08.63A.080.3
8	14	23	120	36	SF08.63A.120.3
8	14	27	160	36	SF08.63A.160.3
10	16	21	85	42	SF10.63A.085.3
10	16	25	120	42	SF10.63A.120.3
10	16	29	160	42	SF10.63A.160.3
12	18	24	90	47	SF12.63A.090.3
12	18	27	120	47	SF12.63A.120.3
12	18	31	160	47	SF12.63A.160.3
16	24	30	95	47	SF16.63A.095.3
16	24	33	120	47	SF16.63A.120.3
16	24	37	160	47	SF16.63A.160.3

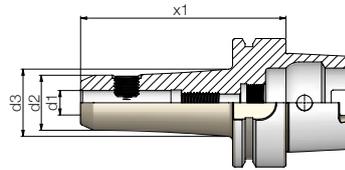


## End mill holders

Slim execution

Radial runout  $\leq 0,003$  mm

G6.3 at 25 000 min<sup>-1</sup>

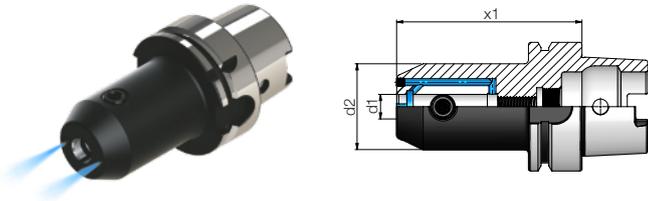


**63**  
Form A+C

d1	d2	d3	x1	Code
6	17	23	100	WE06.63A.100F
6	17	28	130	WE06.63A.130F
6	17	29	160	WE06.63A.160F
8	21	27	100	WE08.63A.100F
8	21	32	130	WE08.63A.130F
8	21	33	160	WE08.63A.160F
10	24	30	100	WE10.63A.100F
10	24	35	130	WE10.63A.130F
10	24	36	160	WE10.63A.160F
12	27	33	100	WE12.63A.100F
12	27	38	130	WE12.63A.130F
12	27	39	160	WE12.63A.160F
14	29	35	100	WE14.63A.100F
14	29	40	130	WE14.63A.130F
14	29	41	160	WE14.63A.160F
16	33	39	100	WE16.63A.100F
16	33	44	130	WE16.63A.130F
16	33	45	160	WE16.63A.160F
18	35	41	100	WE18.63A.100F
18	35	46	130	WE18.63A.130F
18	35	47	160	WE18.63A.160F
20	39	45	100	WE20.63A.100F
20	39	48	130	WE20.63A.130F
20	39	49	160	WE20.63A.160F
25	47	47	100	WE25.63A.100F
25	47	47	130	WE25.63A.130F
25	47	47	160	WE25.63A.160F
32	57	57	110	WE32.63A.130F
32	57	57	160	WE32.63A.160F

## End mill holders

Internal coolant supply



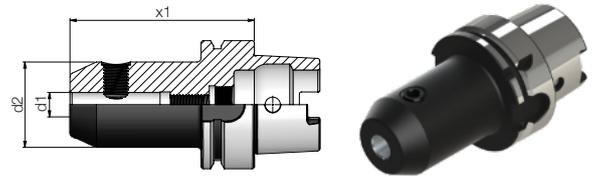
Radial runout  $\leq 0,003$  mm  
G6.3 at 25 000 min<sup>-1</sup>

d1	d2	x1	Code
6	25	65	WE06.63A.065.IK
6	25	120	WE06.63A.120.IK
8	28	65	WE08.63A.065.IK
8	28	120	WE08.63A.120.IK
10	35	65	WE10.63A.065.IK
10	35	120	WE10.63A.120.IK
12	42	80	WE12.63A.080.IK
12	42	120	WE12.63A.120.IK
14	44	80	WE14.63A.080.IK
14	44	120	WE14.63A.120.IK
16	48	80	WE16.63A.080.IK
16	48	120	WE16.63A.120.IK
18	50	80	WE18.63A.080.IK
18	50	120	WE18.63A.120.IK
20	52	80	WE20.63A.080.IK
20	52	120	WE20.63A.120.IK
25	65	110	WE25.63A.110.IK
32	72	110	WE32.63A.110.IK
40	90	120	WE40.63A.120.IK

**63**  
Form A+C

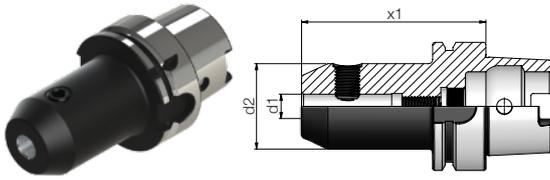
## End mill holders

Radial runout  $\leq 0,003$  mm  
G6.3 at 25 000 min<sup>-1</sup>



d1	d2	x1	Code
6	25	65	WE06.63A.065
6	25	100	WE06.63A.100
6	25	120	WE06.63A.120
6	25	160	WE06.63A.160
8	28	65	WE08.63A.065
8	28	100	WE08.63A.100
8	28	120	WE08.63A.120
8	28	160	WE08.63A.160
10	35	65	WE10.63A.065
10	35	100	WE10.63A.100
10	35	120	WE10.63A.120
10	35	160	WE10.63A.160
12	42	80	WE12.63A.080
12	42	100	WE12.63A.100
12	42	120	WE12.63A.120
12	42	160	WE12.63A.160
14	44	80	WE14.63A.080
14	44	100	WE14.63A.100
14	44	120	WE14.63A.120
14	44	160	WE14.63A.160

## End mill holders



Radial runout  $\leq 0,003$  mm

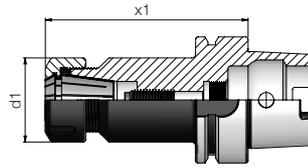
G6.3 at 25 000 min<sup>-1</sup>

d1	d2	x1	Code
16	48	80	WE16.63A.080
16	48	100	WE16.63A.100
16	48	120	WE16.63A.120
16	48	160	WE16.63A.160
18	50	80	WE18.63A.080
18	50	100	WE18.63A.100
18	50	120	WE18.63A.120
18	50	160	WE18.63A.160
20	52	80	WE20.63A.080
20	52	100	WE20.63A.100
20	52	120	WE20.63A.120
20	52	160	WE20.63A.160
25	65	110	WE25.63A.110
25	65	160	WE25.63A.160
32	72	110	WE32.63A.110
32	72	160	WE32.63A.160
40	90	120	WE40.63A.120



## ER Collet chucks

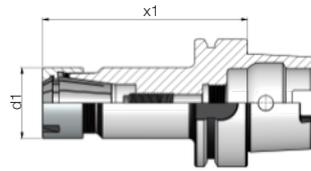
Radial runout  $\leq 0,003$  mm  
G6.3 at 25 000 min<sup>-1</sup>



ER	Range	x1	d1	Code	
63 Form A+C	16	0.5 - 10	80	28	ER16.63A.080
	16	0.5 - 10	100	28	ER16.63A.100
	16	0.5 - 10	160	28	ER16.63A.160
	16	0.5 - 10	200	28	ER16.63A.200
	20	1 - 13	80	35	ER20.63A.080
	20	1 - 13	100	35	ER20.63A.100
	20	1 - 13	160	35	ER20.63A.160
	20	1 - 13	200	35	ER20.63A.200
	25	1 - 16	80	42	ER25.63A.080
	25	1 - 16	100	42	ER25.63A.100
	25	1 - 16	160	42	ER25.63A.160
	25	1 - 16	200	42	ER25.63A.200
	32	2 - 20	80	50	ER32.63A.080
	32	2 - 20	100	50	ER32.63A.100
	32	2 - 20	160	50	ER32.63A.160
	32	2 - 20	200	50	ER32.63A.200
	40	3 - 26	90	63	ER40.63A.090
	40	3 - 26	120	63	ER40.63A.120
	40	3 - 26	160	63	ER40.63A.160
	40	3 - 26	200	63	ER40.63A.200

## ER Collet chucks

Mini execution



Radial runout  $\leq 0,003$  mm

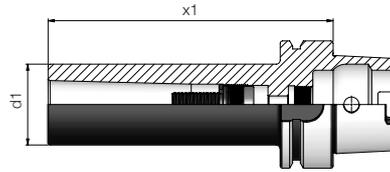
G6.3 at 25 000 min<sup>-1</sup>

ER	Range	x1	d1	Code
11	0.5 - 7	80	16	ER11.63A.080M
11	0.5 - 7	100	16	ER11.63A.100M
11	0.5 - 7	160	16	ER11.63A.160M
16	0.5 - 10	80	22	ER16.63A.080M
16	0.5 - 10	100	22	ER16.63A.100M
16	0.5 - 10	160	22	ER16.63A.160M
20	1 - 13	80	28	ER20.63A.080M
20	1 - 13	100	28	ER20.63A.100M
20	1 - 13	160	28	ER20.63A.160M
25	1 - 16	80	35	ER25.63A.080M
25	1 - 16	100	35	ER25.63A.100M
25	1 - 16	160	35	ER25.63A.160M



## Morse taper holders for mills

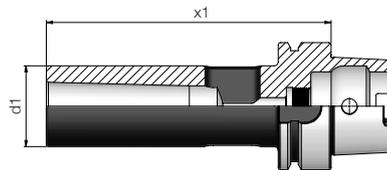
Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>



MK	x1	d1	Code
1	100	25	MK1A.63A.100
2	120	32	MK2A.63A.120
3	140	40	MK3A.63A.140
4	165	48	MK4A.63A.165

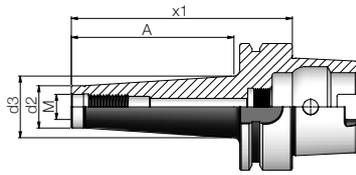
## Morse taper holders for drills

Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>



MK	x1	d1	Code
1	100	25	MK1B.63A.100
2	120	32	MK2B.63A.120
3	140	40	MK3B.63A.140
4	160	48	MK4B.63A.160

## Threaded shank milling cutter holders



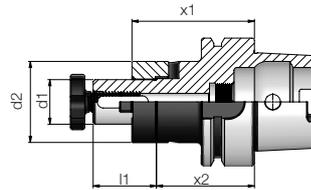
Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>

M	A	x1	d2	d3	Code
M6	25	51	10	13	EF06.63A.051
M6	50	76	10	19	EF06.63A.076
M6	75	101	10	19	EF06.63A.101
M8	25	51	13	15	EF08.63A.051
M8	50	76	13	23	EF08.63A.076
M8	75	101	13	25	EF08.63A.101
M8	100	126	13	28	EF08.63A.126
M8	150	176	13	32	EF08.63A.176
M10	25	51	18	20	EF10.63A.051
M10	50	76	18	25	EF10.63A.076
M10	75	101	18	28	EF10.63A.101
M10	100	126	18	32	EF10.63A.126
M10	150	176	18	36	EF10.63A.176
M12	25	51	21	24	EF12.63A.051
M12	50	76	21	24	EF12.63A.076
M12	75	101	21	31	EF12.63A.101
M12	100	126	21	33	EF12.63A.126
M12	150	176	21	36	EF12.63A.176
M16	25	51	29	28.5	EF16.63A.051
M16	50	76	29	34	EF16.63A.076
M16	75	101	29	34	EF16.63A.101
M16	100	126	29	36	EF16.63A.126
M16	150	176	29	41	EF16.63A.176



## Combi shell mill holders for milling cutters

Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>



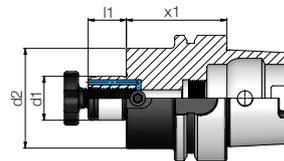
**63**  
Form A+C

d1	x1	x2	d2	l2	Code
16	60	50	32	27	KD16.63A.060
16	100	90	32	27	KD16.63A.100
22	60	48	40	31	KD22.63A.060
22	100	88	40	31	KD22.63A.100
27	60	48	48	33	KD27.63A.060
27	100	88	48	33	KD27.63A.100
32	60	46	58	38	KD32.63A.060
32	100	86	58	38	KD32.63A.100
40	70	56	70	41	KD40.63A.070

## Shell mill holders for cutters with driving slot

Internal coolant supply

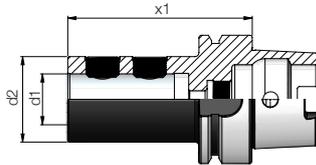
Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>



**63**  
Form A+C

d1	x1	l1	d2	Code
16	45	17	38	AD16.63A.045
16	100	17	38	AD16.63A.100
16	130	17	38	AD16.63A.130
16	160	17	38	AD16.63A.160
22	50	19	48	AD22.63A.050
22	100	19	48	AD22.63A.100
22	130	19	48	AD22.63A.130
22	160	19	48	AD22.63A.160
27	60	21	60	AD27.63A.060
27	100	21	60	AD27.63A.100
27	130	21	60	AD27.63A.130
27	160	21	60	AD27.63A.160
32	60	24	78	AD32.63A.060
32	100	24	78	AD32.63A.100
40	60	27	89	AD40.63A.060
40	100	27	89	AD40.63A.100

## HOLDERS for indexable inserts drills

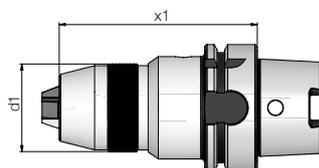


Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>

d1	x1	d2	Code
20	80	40	VB20.63A.080
25	90	45	VB25.63A.090
32	90	52	VB32.63A.090



## HV drill chucks for RH and LH rotation



Radial runout  $\leq 0,02$  mm  
G2.5 at 25 000 min<sup>-1</sup>

mm	x1	d1	Code
0.3 - 8	95	36	HV08.63A.095
0.5 - 13	103	44	HV13.63A.103
1 - 16	106	51	HV16.63A.106



*Integrated precision drill chuck with Hexagonal key lock.*

*For drilling, milling, reaming and tapping.*

*Through coolant.*

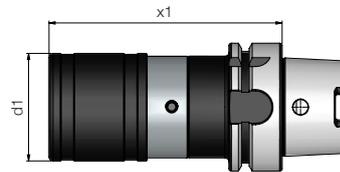
*Drill chuck slipping impossible due to chuck being screwed with the holder body.*

*Compact design, enhanced reach.*

*Range up to 8, 13 or 16 mm.*

## Quick-change tapping heads

Length compensation in compression and tension.



**63**  
Form A+C

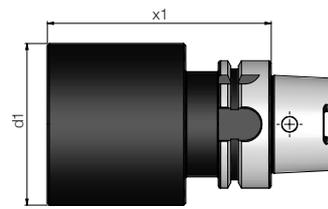
Tap size	Compensation	Insert size	x1	d1	Code
M3 - M14	± 7.5	1	74	36	GN12.63A.074
M5 - M22	± 10	2	110	53	GN20.63A.110
M14 - M33	± 17.5	3	141	78	GN33.63A.141

## Blank bars

Cone and flange hardened and finished.

Machineable soft body.

Pre-balanced



**63**  
Form A+C

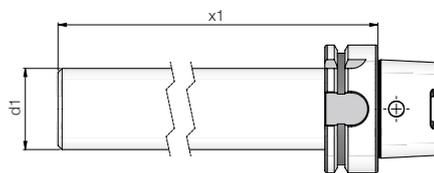
d1	x1	Code
80	160	RL80.63A.160
80	200	RL80.63A.200
80	250	RL80.63A.250

## Test bars

Radial runout ≤ 0,003 mm

Precisely ground length and diameter.

Test certificate and protective case supplied.



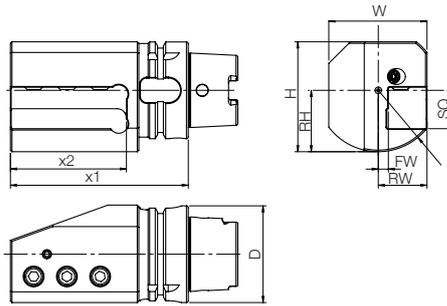
**63**  
Form A+C

d1	x1	Code
40	250	TB40.63A.250



## Rectangular shank adaptors

Internal coolant supply

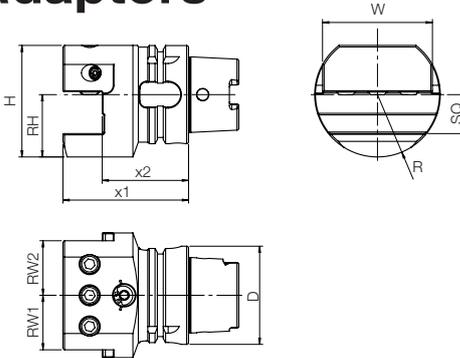


63  
Form T

D	Code	Orientation	x1	x2	SQ	H	W	RH	RW	FW	R	kg
63	63T.QSHR/L.105.20DC	Right/Left	105	65	20	71.6	63.5	40	31.5	11.5	40	2.5
63	63T.QSHR/L.115.25DC	Right/Left	115	75	25	71.6	63.5	40	31.5	6.5	40	3.7

## Rectangular shank adaptors

Internal coolant supply

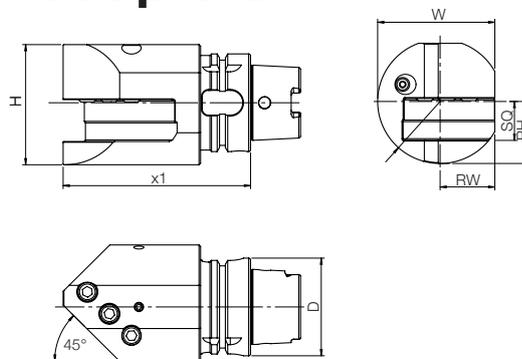


63  
Form T

D	Code	Orientation	x1	x2	SQ	H	W	RH	RW1	RW2	R	kg
63	63T.QSHA.70.20DC	Right/Left	70	50	20	71.6	70	40	33	33	40	1.9
63	63T.QSHA.80.25DC	Right/Left	80	55	25	71.6	70	40	35	35	40	1.9

## Rectangular shank adaptors

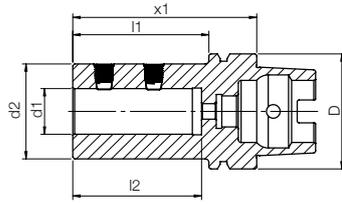
Internal coolant supply



63  
Form T

D	Code	Orientation	X1	SQ	H	W	RH	RW	R	kg
63	63T.QSHR/L45.110.20DC	Right/Left	110	20	71.6	71.5	40	31.5	40	2.5
63	63T.QSHR/L45.120.25DC	Right/Left	120	25	77.6	75	40	35	40	3.3

## Indexable inserts drills holders

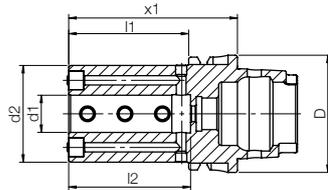


Internal coolant supply

D	Code	d1	x1	d2	l1	l2
63	63T.116.080	16	80	34	54	54
63	63T.120.080	20	80	40	54	54
63	63T.125.085	25	85	45	59	59
63	63T.132.090	32	90	52	64	63
63	63T.140.100	40	100	60	74	73

**63**  
Form T

## Boring bar holders



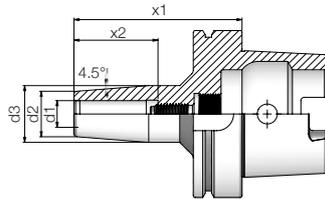
Direct coolant supply

D	Code	d1	x1	d2	l1	l2
63	63T.008.090	8	75	25	49	37
63	63T.010.090	10	80	29	54	45
63	63T.012.090	12	85	34	59	50
63	63T.016.090	16	100	40	74	65
63	63T.020.090	20	100	50	74	65
63	63T.025.090	25	105	55	79	72
63	63T.032.090	32	115	64	89	79
63	63T.040.100	40	135	80	109	96

**63**  
Form T



## THERMO Shrink-fit chucks



Radial runout  $\leq 0,003$  mm

G2.5 at 25 000 min<sup>-1</sup>

d1	d2	d3	x1	x2	Code
6	21	27	85	36	SF06.100A.085
6	21	27	130	36	SF06.100A.130
6	21	27	160	36	SF06.100A.160
8	21	27	85	36	SF08.100A.085
8	21	27	130	36	SF08.100A.130
8	21	27	160	36	SF08.100A.160
10	24	32	90	42	SF10.100A.090
10	24	32	130	42	SF10.100A.130
10	24	32	160	42	SF10.100A.160
12	24	32	95	47	SF12.100A.095
12	24	32	130	47	SF12.100A.130
12	24	32	160	47	SF12.100A.160
14	27	34	100	47	SF14.100A.100
14	27	34	130	47	SF14.100A.130
14	27	34	160	47	SF14.100A.160
16	27	34	100	50	SF16.100A.100
16	27	34	130	50	SF16.100A.130
16	27	34	160	50	SF16.100A.160
20	33	42	105	52	SF20.100A.105
20	33	42	130	52	SF20.100A.130
20	33	42	160	52	SF20.100A.160
25	44	53	115	58	SF25.100A.115
25	44	53	130	58	SF25.100A.130
25	44	53	160	58	SF25.100A.160
32	44	53	120	63	SF32.100A.120
32	44	53	160	63	SF32.100A.160

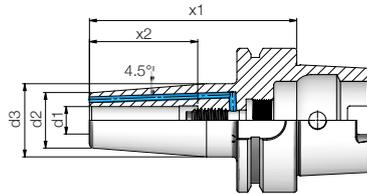
**100**  
Form A+C

## “3 in 1” THERMO Shrink-fit chucks

Internal coolant supply

Radial runout  $\leq 0,003$  mm

G2.5 at 25 000 min<sup>-1</sup>



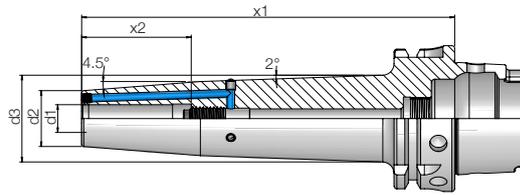
**100**  
Form A+C

d1	d2	d3	x1	x2	Code
6	21	27	85	36	SF06.100A.085.IK
6	21	27	130	36	SF06.100A.130.IK
8	21	27	85	36	SF08.100A.085.IK
8	21	27	130	36	SF08.100A.130.IK
10	24	32	90	42	SF10.100A.090.IK
10	24	32	130	42	SF10.100A.130.IK
12	24	32	95	47	SF12.100A.095.IK
12	24	32	130	47	SF12.100A.130.IK
14	27	34	95	47	SF14.100A.095.IK
14	27	34	130	47	SF14.100A.130.IK
16	27	34	100	50	SF16.100A.100.IK
16	27	34	130	50	SF16.100A.130.IK
18	33	42	100	50	SF18.100A.100.IK
18	33	42	130	50	SF18.100A.130.IK
20	33	42	105	52	SF20.100A.105.IK
20	33	42	130	52	SF20.100A.130.IK
25	44	53	115	58	SF25.100A.115.IK
32	44	53	120	63	SF32.100A.120.IK

*Including high speed nozzles and sealing plugs*

# Extended “3 in 1” THERMO Shrink-fit chucks

Internal coolant supply



Radial runout  $\leq 0,003$  mm  
G2.5 at 25 000 min<sup>-1</sup>

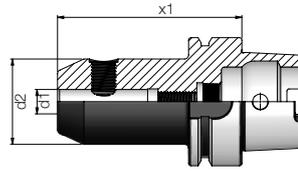
d1	d2	d3	x1	x2	Code
6	21	33	160	36	SF06.100A.160.IK
6	21	35.5	200	36	SF06.100A.200.IK
8	21	33	160	36	SF08.100A.160.IK
8	21	35.5	200	36	SF08.100A.200.IK
10	24	37	160	42	SF10.100A.160.IK
10	24	40	200	42	SF10.100A.200.IK
12	24	37	160	47	SF12.100A.160.IK
12	24	40	200	47	SF12.100A.200.IK
14	27	39.5	160	47	SF14.100A.160.IK
14	27	42.5	200	47	SF14.100A.200.IK
16	27	39.5	160	50	SF16.100A.160.IK
16	27	42.5	200	50	SF16.100A.200.IK
18	33	46.5	160	50	SF18.100A.160.IK
18	33	49.5	200	50	SF18.100A.200.IK
20	33	46.5	160	52	SF20.100A.160.IK
20	33	49.5	200	52	SF20.100A.200.IK
25	44	58	160	58	SF25.100A.160.IK
25	44	60.5	200	58	SF25.100A.200.IK
32	44	58	160	63	SF32.100A.160.IK
32	44	60.5	200	63	SF32.100A.200.IK

100  
Form A+C

Including high speed nozzles and sealing plugs  
Vibration-dampening tapered profile

## End mill holders

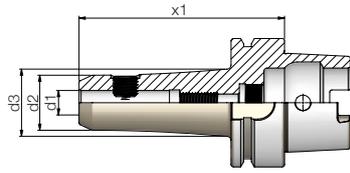
Radial runout  $\leq 0,003$  mm  
G6.3 at 25 000 min<sup>-1</sup>



	d1	d2	x1	Code
100 Form A+C	6	25	80	WE06.100A.080
	6	25	100	WE06.100A.100
	6	25	160	WE06.100A.160
	8	28	80	WE08.100A.080
	8	28	100	WE08.100A.100
	8	28	160	WE08.100A.160
	10	35	80	WE10.100A.080
	10	35	100	WE10.100A.100
	10	35	160	WE10.100A.160
	12	42	80	WE12.100A.080
	12	42	100	WE12.100A.100
	12	42	160	WE12.100A.160
	14	44	80	WE14.100A.080
	14	44	100	WE14.100A.100
	14	44	160	WE14.100A.160
	16	48	80	WE16.100A.080
	16	48	100	WE16.100A.100
	16	48	160	WE16.100A.160
	18	50	80	WE18.100A.080
	18	50	100	WE18.100A.100
	18	50	160	WE18.100A.160
	20	52	80	WE20.100A.080
	20	52	100	WE20.100A.100
	20	52	160	WE20.100A.160
	25	65	100	WE25.100A.100
	25	65	120	WE25.100A.120
	25	65	160	WE25.100A.160
	32	72	100	WE32.100A.100
	32	72	120	WE32.100A.120
	32	72	160	WE32.100A.160
	40	72	110	WE40.100A.110
	50	72	125	WE50.100A.125

## End mill holders

Slim execution



Radial runout  $\leq 0,003$  mm

G6.3 at 25 000 min<sup>-1</sup>

d1	d2	d3	x1	Code
6	17	26	130	WE06.100A.130F
6	17	27	160	WE06.100A.160F
6	17	37	200	WE06.100A.200F
8	21	30	130	WE08.100A.130F
8	21	32	160	WE08.100A.160F
8	21	41	200	WE08.100A.200F
10	24	33	130	WE10.100A.130F
10	24	35	160	WE10.100A.160F
10	24	44	200	WE10.100A.200F
12	27	37	130	WE12.100A.130F
12	27	38	160	WE12.100A.160F
12	27	47	200	WE12.100A.200F
14	29	39	130	WE14.100A.130F
14	29	40	160	WE14.100A.160F
14	29	49	200	WE14.100A.200F
16	33	43	130	WE16.100A.130F
16	33	44	160	WE16.100A.160F
16	33	53	200	WE16.100A.200F
18	35	45	130	WE18.100A.130F
18	35	46	160	WE18.100A.160F
18	35	55	200	WE18.100A.200F
20	39	49	130	WE20.100A.130F
20	39	50	160	WE20.100A.160F
20	39	59	200	WE20.100A.200F
25	47	57	130	WE25.100A.130F
25	47	58	160	WE25.100A.160F
25	47	67	200	WE25.100A.200F
32	57	67	130	WE32.100A.130F
32	57	68	160	WE32.100A.160F
32	57	70	200	WE32.100A.200F

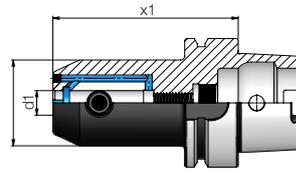
100  
Form A+C

## End mill holders

Internal coolant supply

Radial runout  $\leq 0,003 \text{ mm}_R$

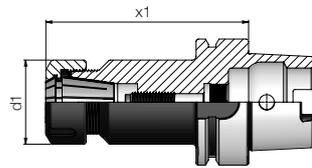
G6.3 at  $25\,000 \text{ min}^{-1}$



**100**  
Form A+C

d1	d2	x1	Code
6	25	80	WE06.100A.080.IK
8	28	80	WE08.100A.080.IK
10	35	80	WE10.100A.080.IK
12	42	80	WE12.100A.080.IK
14	44	80	WE14.100A.080.IK
16	48	100	WE16.100A.100.IK
18	50	100	WE18.100A.100.IK
20	52	100	WE20.100A.100.IK
25	65	100	WE25.100A.100.IK
32	72	100	WE32.100A.100.IK
40	72	110	WE40.100A.110.IK

## ER Collet chucks



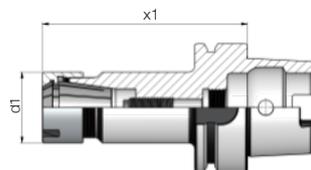
Radial runout  $\leq 0,003$  mm  
G6.3 at 25 000 min<sup>-1</sup>

ER	Range	x1	d1	Code
16	0.5 - 10	100	28	ER16.100A.100
16	0.5 - 10	160	28	ER16.100A.160
16	0.5 - 10	200	28	ER16.100A.200
25	1 - 16	100	42	ER25.100A.100
25	1 - 16	160	42	ER25.100A.160
25	1 - 16	200	42	ER25.100A.200
32	2 - 20	100	50	ER32.100A.100
32	2 - 20	160	50	ER32.100A.160
32	2 - 20	200	50	ER32.100A.200
40	3 - 26	120	63	ER40.100A.120
40	3 - 26	160	63	ER40.100A.160
40	3 - 26	200	63	ER40.100A.200

**100**  
Form A+C

## ER Collet chucks

Mini execution



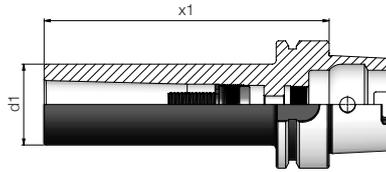
Radial runout  $\leq 0,003$  mm  
G6.3 at 25 000 min<sup>-1</sup>

ER	Range	x1	d1	Code
16	0.5 - 10	100	22	ER16.100A.100M
16	0.5 - 10	160	22	ER16.100A.160M
20	1 - 13	100	28	ER20.100A.100M
20	1 - 13	160	28	ER20.100A.160M
25	1 - 16	100	35	ER25.100A.100M
25	1 - 16	160	35	ER25.100A.160M

**100**  
Form A+C

## Morse taper holders for mills

Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>

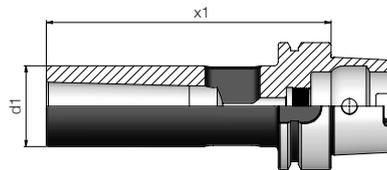


100  
Form A+C

MK	x1	d1	Code
1	100	25	MK1A.100A.100
2	120	32	MK2A.100A.120
3	150	40	MK3A.100A.150
4	175	48	MK4A.100A.175
5	200	63	MK5A.100A.200

## Morse taper holders for drills

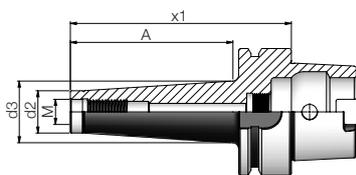
Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>



100  
Form A+C

MK	x1	d1	Code
1	100	25	MK1B.100A.100
2	120	32	MK2B.100A.120
3	150	40	MK3B.100A.150
4	170	48	MK3B.100A.170
5	200	63	MK4B.100A.200

## Threaded shank milling cutter holders



Radial runout  $\leq 0,003$  mm

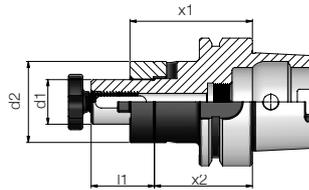
G2.5 at 25 000 min<sup>-1</sup>

M	A	x1	d2	d3	Code
M8	50	79	13	20.5	EF08.100A.079
M8	100	129	13	30	EF08.100A.129
M8	150	179	13	34.5	EF08.100A.179
M10	50	79	18	21.5	EF10.100A.079
M10	100	129	18	31	EF10.100A.129
M10	150	179	18	35.5	EF10.100A.179
M12	50	79	21	23.5	EF12.100A.079
M12	100	129	21	32	EF12.100A.129
M12	150	179	21	39.5	EF12.100A.179
M16	50	79	29	33.5	EF16.100A.079
M16	100	129	29	36	EF16.100A.129
M16	150	179	29	42.5	EF16.100A.179

**100**  
Form A+C

## Combi shell mill holders for milling cutters

Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>

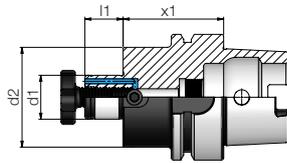


**100**  
Form A+C

d1	x1	x2	d2	l2	Code
16	60	50	32	27	KD16.100A.060
16	100	90	32	27	KD16.100A.100
22	60	48	40	31	KD22.100A.060
22	100	88	40	31	KD22.100A.100
27	60	48	48	33	KD27.100A.060
27	100	88	48	33	KD27.100A.100
32	60	46	58	38	KD32.100A.060
32	100	86	58	38	KD32.100A.100
40	70	56	70	41	KD40.100A.070
40	100	86	70	41	KD40.100A.100

# Shell mill holders for cutters with driving slot

Internal coolant supply



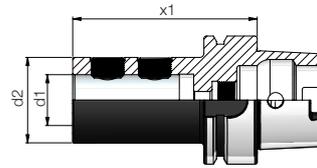
Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>

d1	x1	l1	d2	Code
16	45	17	38	AD16.100A.045
16	100	17	38	AD16.100A.100
16	160	17	38	AD16.100A.160
16	200	17	38	AD16.100A.200
22	50	19	48	AD22.100A.050
22	100	19	48	AD22.100A.100
22	160	19	48	AD22.100A.160
22	200	19	48	AD22.100A.200
27	50	21	60	AD27.100A.060
27	100	21	60	AD27.100A.100
27	160	21	60	AD27.100A.160
27	200	21	60	AD27.100A.200
32	50	24	78	AD32.100A.060
32	100	24	78	AD32.100A.100
32	160	24	78	AD32.100A.160
32	200	24	78	AD32.100A.200
40	60	27	89	AD40.100A.060
40	100	27	89	AD40.100A.100
40	160	27	89	AD40.100A.160
40	200	27	89	AD40.100A.200
60	80	40	129	AD60.100A.080

**100**  
Form A+C

## HOLDERS for indexable inserts drills

Radial runout  $\leq 0,005$  mm  
G6.3 at 25 000 min<sup>-1</sup>

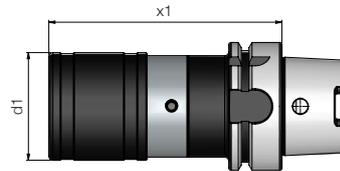


**100**  
Form A+C

d1	x1	d2	Code
20	90	40	VB20.100A.090
25	95	45	VB25.100A.095
32	100	52	VB32.100A.100
40	110	60	VB40.100A.110

## Quick-change tapping heads

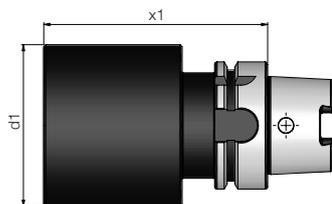
Length compensation in compression and tension.



**100**  
Form A+C

Tap size	Compensation	Insert size	x1	d1	Code
M3 - M14	$\pm 7.5$	1	80	36	GN12.100A.080
M5 - M22	$\pm 10$	2	100	53	GN20.100A.100
M14 - M33	$\pm 17.5$	3	144	78	GN33.100A.144

## Blank bars

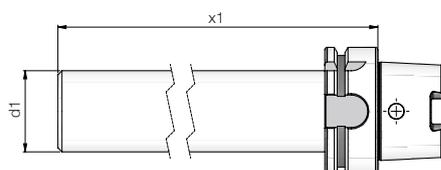


Cone and flange hardened and finished.  
Machineable soft body.  
Pre-balanced

d1	x1	Code
95	160	RL95.100A.160
95	200	RL95.100A.200
95	250	RL95.100A.250



## Test bars



Radial runout  $\leq 0,003$  mm  
Precisely ground length and diameter.  
Test certificate and protective case supplied.

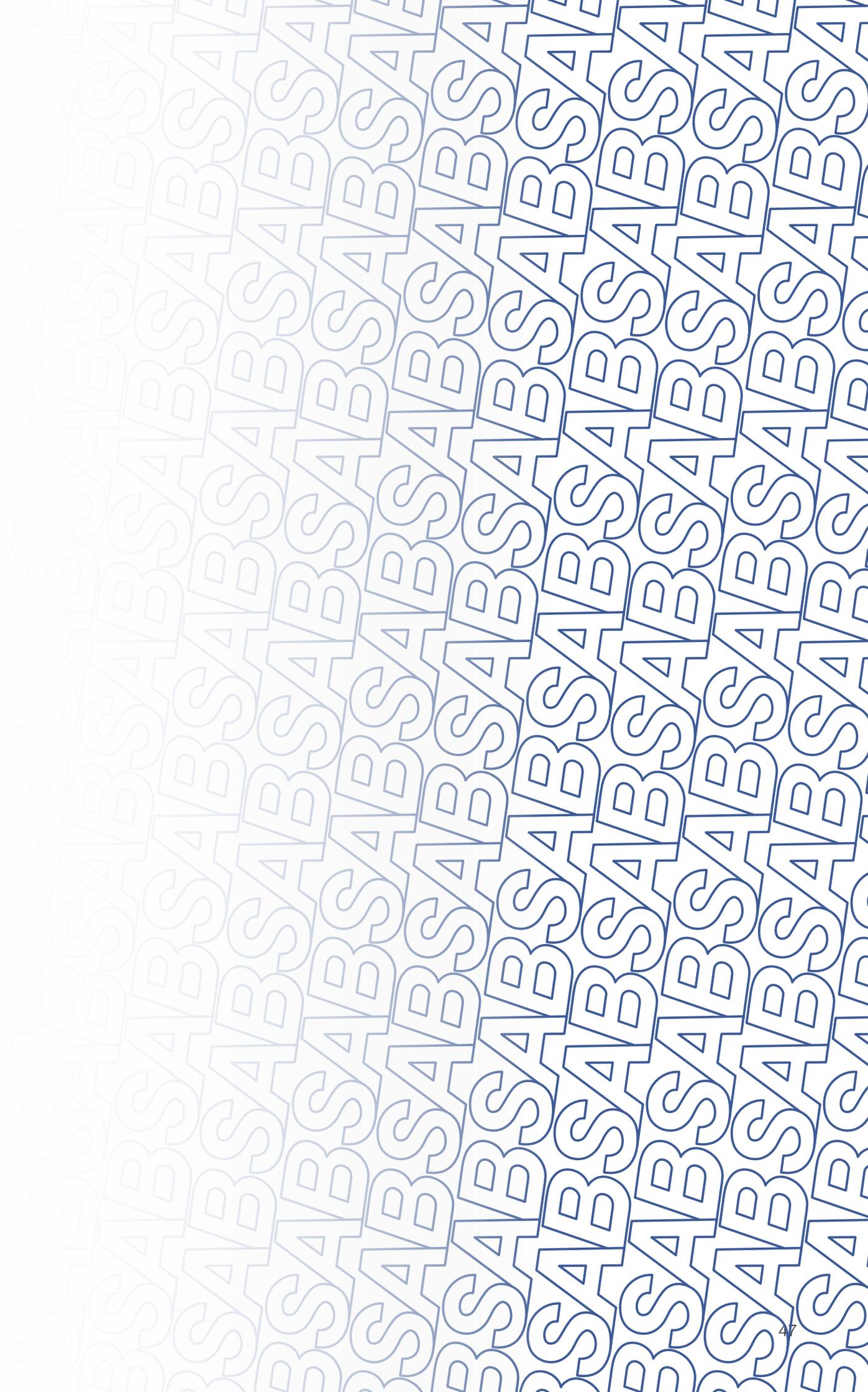
d1	x1	Code
50	250	TB50.100A.250











# SAB



Find additional information and  
product catalogues

[www.sab.hr](http://www.sab.hr)

SAB d.o.o.  
Podborska 1b / 43500 Daruvar  
tel. + 385 43 675 850  
fax. + 385 43 334 700  
[sab@sab.hr](mailto:sab@sab.hr) / [www.sab.hr](http://www.sab.hr)

Note: Product photos and illustrations are not binding. Product descriptions, technical specifications and dimensions are binding only when explicitly agreed upon. We reserve right to make technical modifications as well as price changes. We take no liability for print or type errors. Only our terms and conditions are valid. 02/2024