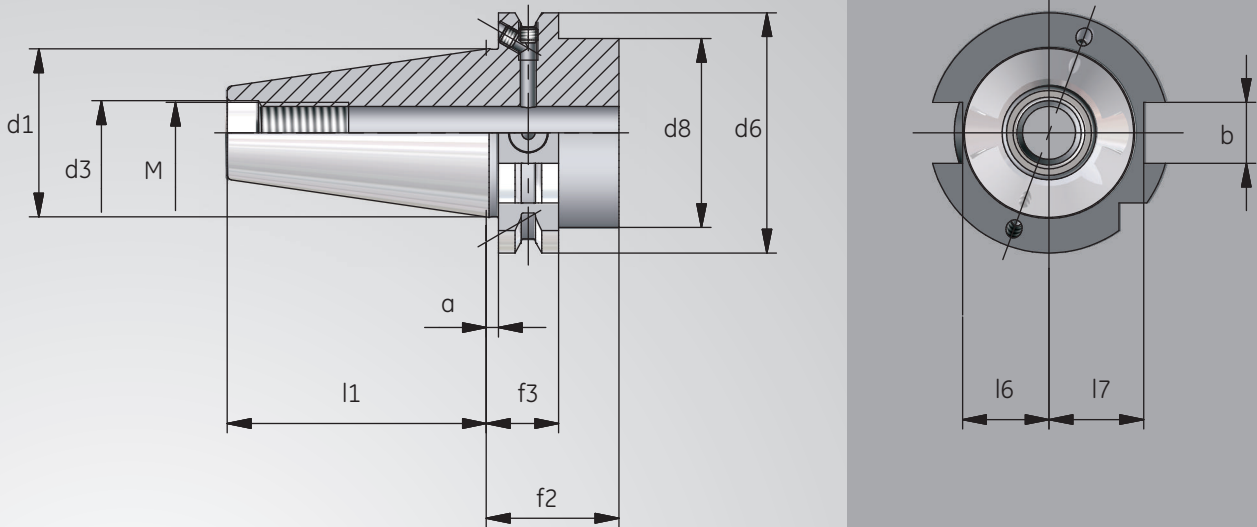


TOOL HOLDERS

WITH SHANK ISO 7388-1, FORM AD/AF
FORMER DIN 69871, FORM AD/B



DIN 69871

SK	l_1	d_1	d_6	f_3	f_2 min.	a	M	d_3	d_8 max.	b	l_6	l_7
40	68,4	44,45	63,55	19,1	35	3,2	M16	17	50	16,1	22,8	25
50	101,75	69,85	97,5	19,1	35	3,2	M24	25	80	25,7	35,5	37,7

Collet chuck ER

Application: For clamping tools with cylindrical shank in collets ER.

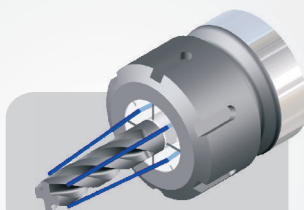
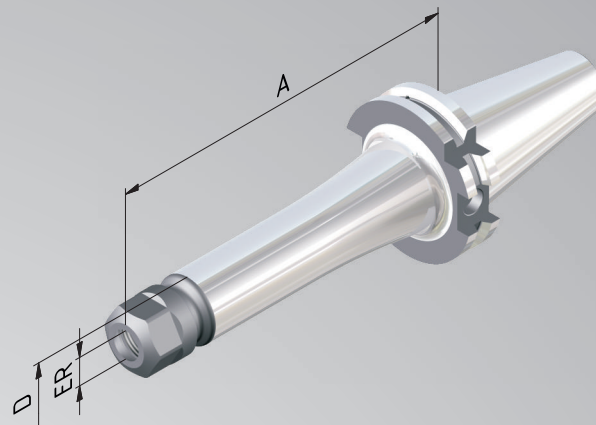
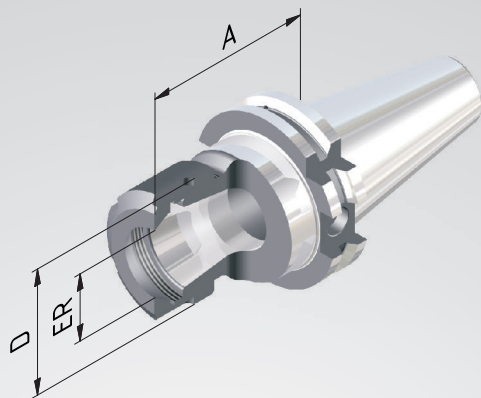
Technical Design: Runout of outer taper to inner taper $\leq 0,003$ mm. Due to adjusted taper tolerances of the ER-Inner taper and the collet taper max. runout of $\leq 8\mu$ at $2,5 \times D$.

Includes: Clamping nut.

Accessories: See page 130.



Fine balanced
 $G 2,5$ at 25.000mm^{-1}
or max. residual imbalance
 ≤ 1 gmm



Sealed versions see
pages 132, 133.

Order No.	SK	ER	Clamping range	A	D
= 70					
714002-01	40	16	1–10	70	28
714002-02	40	20	1–13	70	34
714002-03	40	25	1–16	70	42
714002-04	40	32	2–20	70	50
714002-05	40	40	4–26	70	63
= 100					
714002-31	40	16	1–10	100	28
714002-32	40	20	1–13	100	34
714002-33	40	25	1–16	100	42
714002-34	40	32	2–20	100	50
714002-35	40	40	4–26	100	63
= 160					
714002-61	40	16	1–10	160	28
714002-63	40	25	1–16	160	42
714002-64	40	32	2–20	160	50
714002-65	40	40	4–26	160	63
= 200					
714002-81	40	16	1–10	200	28
714002-83	40	25	1–16	200	42
714002-84	40	32	2–20	200	50

Collet chuck ER »Mini«

Application: For clamping tools with cylindrical shank in collets ER.

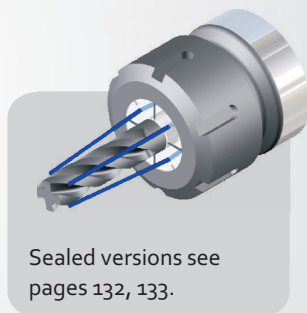
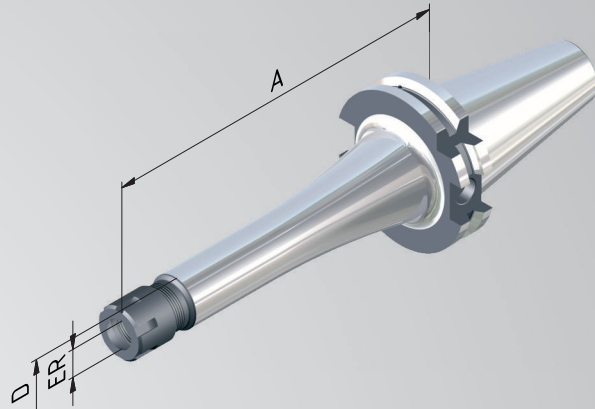
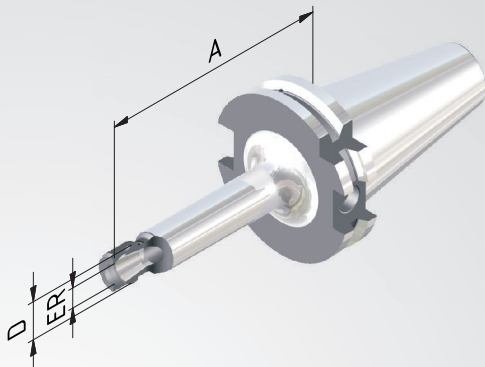
Technical Design: Runout of outer taper to inner taper $\leq 0,003$ mm. Due to adjusted taper tolerances of the ER-Inner taper and the collet taper max. runout of $\leq 8\mu$ at $2,5 \times D$.

Includes: Clamping nut.

Accessories: See page 130.



Fine balanced
 $G 2,5$ at 25.000^{min-1}
or max. residual imbalance
 ≤ 1 gmm



Sealed versions see
pages 132, 133.

Order No.	SK	ER	Clamping range	A	D
				= 70	
714002-21	40	11	1-7	70	16
714002-23	40	16	1-10	70	22
				= 100	
714002-41	40	11	1-7	100	16
714002-43	40	16	1-10	100	22
714002-47	40	20	1-13	100	28
714002-45	40	25	1-16	100	35
				= 130	
714002-51	40	11	1-7	130	16
714002-52	40	16	1-10	130	22
714002-53	40	20	1-16	130	28
714002-54	40	25	1-13	130	35
				= 160	
714002-42	40	11	1-7	160	16
714002-44	40	16	1-10	160	22
714002-48	40	20	1-13	160	28
714002-46	40	25	1-16	160	35

Endmill holder Weldon

Application: For clamping tools with cylindrical shank according to DIN 1835B/6359HB.

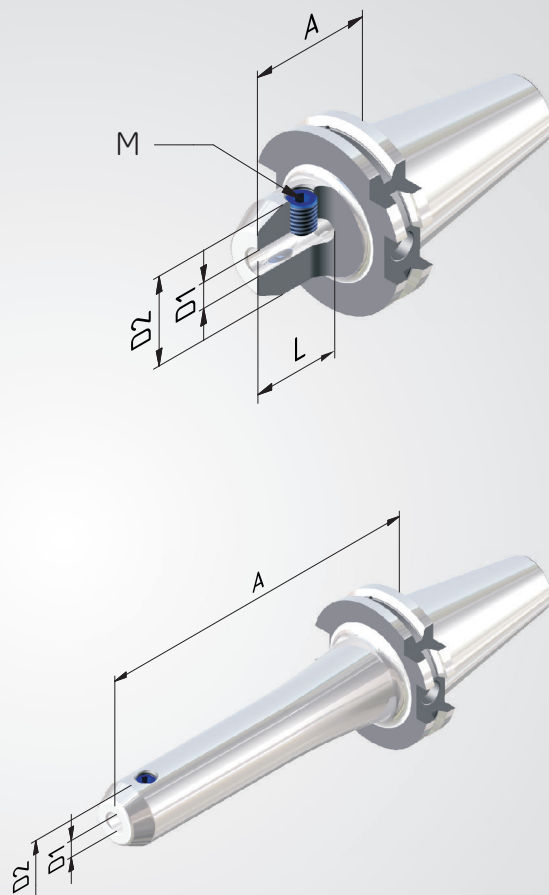
Technical Design: Runout of outer taper to $D_1 \leq 0,003$ mm. Tolerance of bore H4 (more accurate as DIN).

Includes: Clamping screw.

Accessories: See page 134.



Fine balanced
G 2,5 at 25.000^{min-1}
or max. residual imbalance
≤ 1 gmm



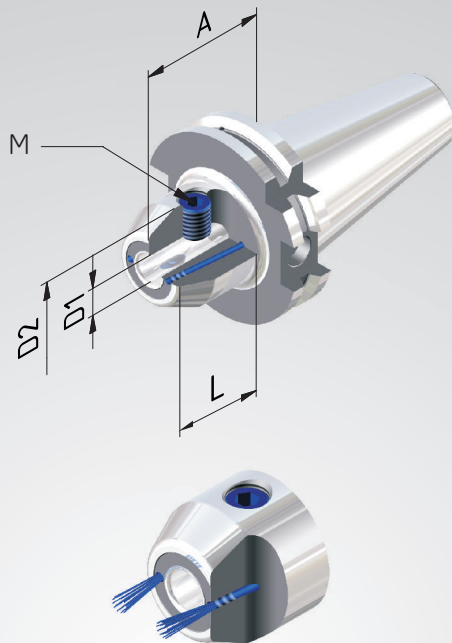
Order No.	SK	D1	A	D2	L	M
SHORT						
714004-01	40	6	50	25	35	M6
714004-02	40	8	50	28	35	M8
714004-03	40	10	50	35	41	M10
714004-04	40	12	50	42	48	M12
714004-05	40	14	50	42	48	M12
714004-06	40	16	63	48	51	M14
714004-07	40	18	63	48	51	M14
714004-08	40	20	63	52	53	M16
714004-09	40	25	100	65	60	M18x2
714004-10	40	32	100	72	64	M20x2
= 100						
714004-31	40	6	100	25	35	M6
714004-32	40	8	100	28	35	M8
714004-33	40	10	100	35	41	M10
714004-34	40	12	100	42	48	M12
714004-35	40	14	100	42	48	M12
714004-36	40	16	100	48	51	M14
714004-38	40	20	100	52	53	M16
= 160						
714004-61	40	6	160	25	35	M6
714004-62	40	8	160	28	35	M8
714004-63	40	10	160	35	41	M10
714004-64	40	12	160	42	48	M12
714004-65	40	14	160	42	48	M12
714004-66	40	16	160	48	51	M14
714004-68	40	20	160	52	53	M16

Endmill holder Weldon »Cool Tool«

- Application:** Particularly suitable for tools without internal coolant, and for machining at difficult positions with bad chip removal.
- Technical Design:** Two holes in the toolholder lead the coolant directly to the cutting edge. Coolant holes can be re-sealed with screws for the use of tools with internal coolant holes.
- Includes:** Clamping screw and 2 x M3-screws to plug the coolant holes if needed.
- Accessories:** See page 134.



Fine balanced
G 2,5 at 25.000^{min}
or max. residual imbalance
 ≤ 1 gmm



Order No.	SK	D1	A	D2	L	M
SHORT						
7140041-01	40	6	50	25	35	M6
7140041-02	40	8	50	28	35	M8
7140041-03	40	10	50	35	41	M10
7140041-04	40	12	50	42	48	M12
7140041-05	40	14	50	42	48	M12
7140041-06	40	16	63	48	51	M14
7140041-08	40	20	63	52	53	M16
7140041-09	40	25	100	65	60	M18x2
7140041-10	40	32	100	72	64	M20x2
= 100						
7140041-31	40	6	100	25	35	M6
7140041-32	40	8	100	28	35	M8
7140041-33	40	10	100	35	41	M10
7140041-34	40	12	100	42	48	M12
7140041-36	40	16	100	48	51	M14
7140041-38	40	20	100	52	53	M16
= 130						
7140041-51	40	6	130	25	35	M6
7140041-52	40	8	130	28	35	M8
7140041-53	40	10	130	35	41	M10
7140041-54	40	12	130	42	48	M12
7140041-55	40	14	130	42	48	M12
7140041-56	40	16	130	48	51	M14
7140041-57	40	18	130	50	51	M14
7140041-58	40	20	130	52	53	M16
7140041-59	40	25	130	65	60	M18x2
7140041-60	40	32	130	72	64	M20x2

Slim endmill holder Weldon

Application: For clamping tools with cylindrical shank according to DIN 1835B/6359HB and DIN 1835E/6359HE.

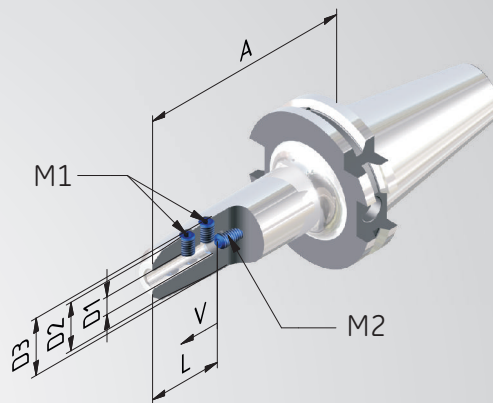
Technical Design: Runout of outer taper to $D_1 \leq 0,003$ mm. Tolerance of bore H₄ (more accurate as DIN).

Includes: Special clamping screw (with ball head) and set screw.

Accessories: See page 134.



Balanced
G 6,3 at 8.000^{mm/s}



Order No.	SK	D1	A	D2	D3	L	M1	M2
			= 100					
714027-01	40	6	100	13	24	36,5	M6	M5
714027-03	40	8	100	15	26	36,5	M6	M6
714027-05	40	10	100	16	28	40,5	M6	M8x1
714027-07	40	12	100	17	29	45,5	M6	M10x1
714027-09	40	14	100	19	32	45,5	M8	M10x1
714027-11	40	16	100	21	34	48,5	M8	M12x1
714027-13	40	18	100	23	36	48,5	M8	M12x1
714027-15	40	20	100	25	38	50,5	M8	M16x1

Shrink fit holder 4,5°

Application: For clamping tools with cylindrical shank of solid carbide or HSS, tol. h6.

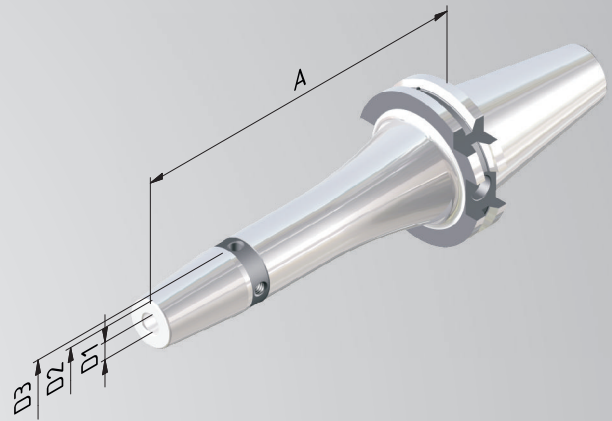
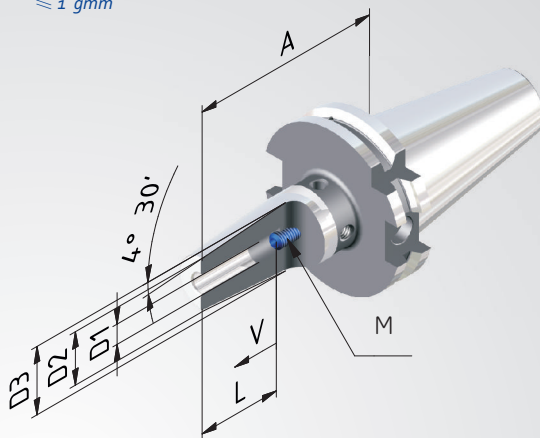
Technical Design: Made of special heat resistant steel. Suitable for inductive shrinking unit. With four additional threads for supplementary fine balancing. Runout of outer taper to $D_1 \leq 0,003$ mm.

Includes: Set screw.

Accessories: See page 135.



Fine balanced
 $G_{2,5}$ at 25.000^{mm-1}
or max. residual imbalance
 ≤ 1 gmm



Extra short shrink fit holders
can be found on page 68,
shrink fit holders »Cool Tool«.

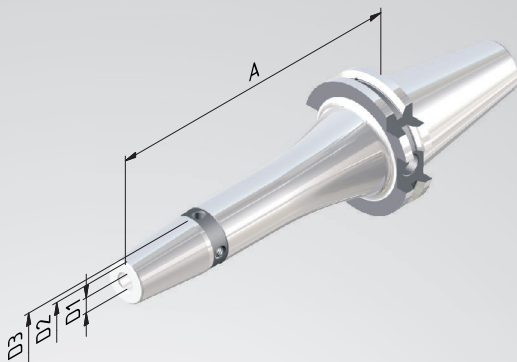
Order No.	SK	D1	A	D2	D3	V	L	M
SHORT								
714021-13	40	3	80	12	17	-	-	-
714021-14	40	4	80	12	17	-	-	-
714021-15	40	5	80	12	17	-	-	-
714021-01	40	6	80	21	27	10	37	M5
714021-02	40	8	80	21	27	10	37	M6
714021-03	40	10	80	24	32	10	42	M8x1
714021-04	40	12	80	24	32	10	48	M10x1
714021-05	40	14	80	27	34	10	48	M10x1
714021-06	40	16	80	27	34	10	51	M12x1
714021-07	40	18	80	33	42	10	51	M12x1
714021-08	40	20	80	33	42	10	53	M16x1
714021-09	40	25	100	44	53	10	59	M16x1
714021-10	40	32	100	44	53	10	63	M16x1

Long versions see next page >>

Shrink fit holder 4,5°



Fine balanced
G 2,5 at 25.000^{min}
or max. residual imbalance
≤ 1 gmm



Order No.	SK	D1	A = 120	D2	D3	V	L	M
714021-31	40	6	120	21	27	10	37	M5
714021-32	40	8	120	21	27	10	37	M6
714021-33	40	10	120	24	32	10	42	M8x1
714021-34	40	12	120	24	32	10	48	M10x1
714021-35	40	14	120	27	34	10	48	M10x1
714021-36	40	16	120	27	34	10	51	M12x1
714021-37	40	18	120	33	42	10	51	M12x1
714021-38	40	20	120	33	42	10	53	M16x1
714021-39	40	25	120	44	53	10	59	M16x1
= 130								
714021-513	40	3	130	21	27	-	-	-
714021-514	40	4	130	21	27	-	-	-
714021-515	40	5	130	24	32	-	-	-
714021-51	40	6	130	21	27	10	37	M5
714021-52	40	8	130	21	27	10	37	M6
714021-53	40	10	130	24	32	10	42	M8x1
714021-54	40	12	130	24	32	10	48	M10x1
714021-55	40	14	130	27	34	10	48	M10x1
714021-56	40	16	130	27	34	10	51	M12x1
714021-57	40	18	130	33	42	10	51	M12x1
714021-58	40	20	130	33	42	10	53	M16x1
714021-59	40	25	130	44	53	10	59	M16x1
714021-60	40	32	130	44	53	10	63	M16x1
= 160								
714021-61	40	6	160	21	27	10	37	M5
714021-62	40	8	160	21	27	10	37	M6
714021-63	40	10	160	24	32	10	42	M8x1
714021-64	40	12	160	24	32	10	48	M10x1
714021-65	40	14	160	27	34	10	48	M10x1
714021-66	40	16	160	27	34	10	51	M12x1
714021-67	40	18	160	33	42	10	51	M12x1
714021-68	40	20	160	33	42	10	53	M16x1
714021-69	40	25	160	44	53	10	59	M16x1
= 200								
714021-81	40	6	200	21	27	10	37	M5
714021-82	40	8	200	21	27	10	37	M6
714021-83	40	10	200	24	32	10	42	M8x1
714021-84	40	12	200	24	32	10	48	M10x1
714021-85	40	14	200	27	34	10	48	M10x1
714021-86	40	16	200	27	34	10	51	M12x1
714021-87	40	18	200	33	42	10	51	M12x1
714021-88	40	20	200	33	42	10	53	M16x1
714021-89	40	25	200	44	53	10	59	M16x1

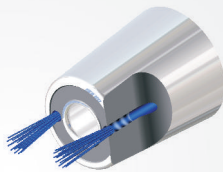
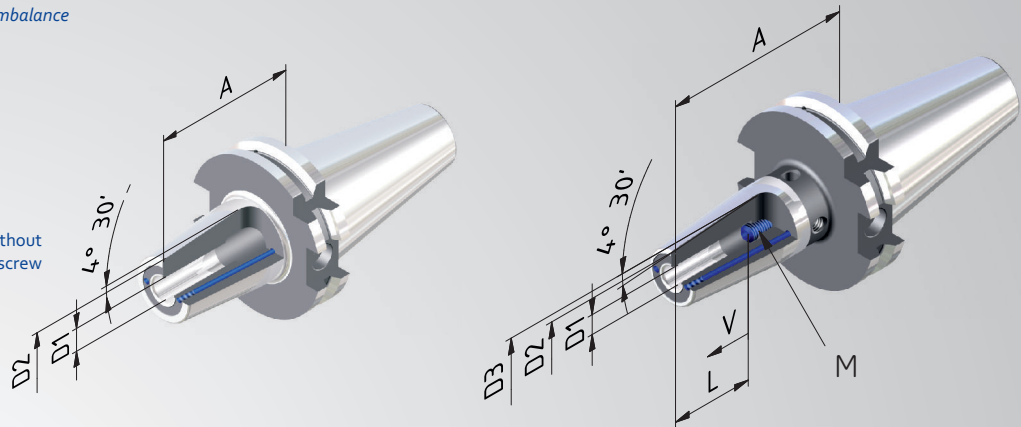
Shrink fit holder 4,5° »Cool Tool«

- Application:** Particularly suitable for tools without internal coolant, and for machining at difficult positions with bad chip removal.
- Technical Design:** Two holes in the toolholder lead the coolant directly to the cutting edge. Coolant holes can be re-sealed with screws for the use of tools with internal coolant holes.
- Includes:** Set screw and 2 x M3 screws to plug the coolant holes if needed.
- Accessories:** See page 134.



Fine balanced
G 2,5 at 25.000^{mm/s}
or max. residual imbalance
≤ 1 gmm

Extra short version without
length setting screw



Order No.	SK	D1	A	D2	D3	V	L	M
EXTRA SHORT								
7140219-03	40	10	65	26	-	-	42	-
7140219-04	40	12	65	26	-	-	48	-
7140219-06	40	16	65	29	-	-	51	-
7140219-08	40	20	65	35	-	-	53	-
7140219-09	40	25	75	45	-	-	59	-
SHORT								
714021-139*	40	3	80	26	-	-	42	-
714021-149*	40	4	80	26	-	-	48	-
714021-159*	40	5	80	29	-	-	51	-
714021-019	40	6	80	21	27	10	37	M5
714021-029	40	8	80	21	27	10	37	M6
714021-039	40	10	80	24	32	10	42	M8x1
714021-049	40	12	80	24	32	10	48	M10x1
714021-059	40	14	80	27	34	10	48	M10x1
714021-069	40	16	80	27	34	10	51	M12x1
714021-079	40	18	80	33	42	10	51	M12x1
714021-089	40	20	80	33	42	10	53	M16x1
714021-099	40	25	100	44	53	10	59	M16x1

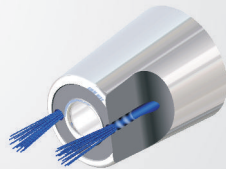
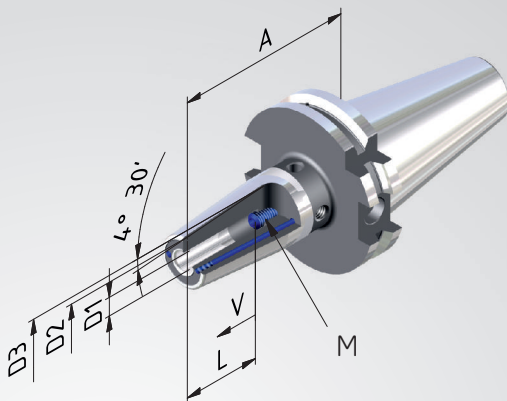
* Cool tool holes can not be plugged.

Long versions see next page >>

Shrink fit holder 4,5° »Cool Tool«



Fine balanced
G 2,5 at 25.000^{min-1}
or max. residual imbalance
≤ 1 gmm



Order No.	SK	D1	A	D2	D3	V	L	M	
			= 120						
714021-319	40	6	120	21	27	10	37	M5	
714021-329	40	8	120	21	27	10	37	M6	
714021-339	40	10	120	24	32	10	42	M8x1	
714021-349	40	12	120	24	32	10	48	M10x1	
714021-359	40	14	120	27	34	10	48	M10x1	
714021-369	40	16	120	27	34	10	51	M12x1	
714021-379	40	18	120	33	42	10	51	M12x1	
714021-389	40	20	120	33	42	10	53	M16x1	
			= 130						
714021-5139*	40	3	130	12	17	-	-	-	
714021-5149*	40	4	130	12	17	-	-	-	
714021-5159*	40	5	130	12	17	-	-	-	
714021-519	40	6	130	21	27	10	37	M5	
714021-529	40	8	130	21	27	10	37	M6	
714021-539	40	10	130	24	32	10	42	M8x1	
714021-549	40	12	130	24	32	10	48	M10x1	
714021-559	40	14	130	27	34	10	48	M10x1	
714021-569	40	16	130	27	34	10	51	M12x1	
714021-579	40	18	130	33	42	10	51	M12x1	
714021-589	40	20	130	33	42	10	53	M16x1	
714021-599	40	25	130	44	53	10	59	M16x1	
714021-609	40	32	130	44	53	10	63	M16x1	

* Cool tool holes can not be plugged.

Extended slim shrink fit holder 4,5°

Application: For clamping tools with cylindrical shank of solid carbide or HSS, tol. h6.

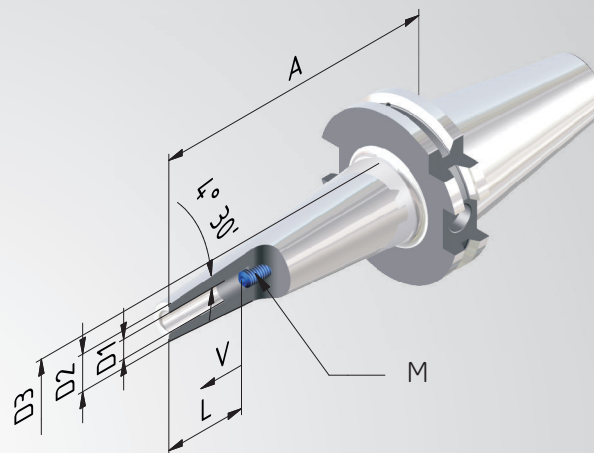
Technical Design: Made of special heat resistant steel. Suitable for inductive shrinking unit. Runout of outer taper to $D_1 \leq 0,003$ mm.

Includes: Set screw.

Accessories: See page 135.



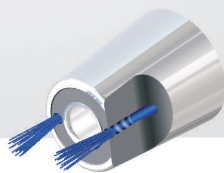
Fine balanced
G 2,5 at 25.000^{rpm}
or max. residual imbalance
 ≤ 1 gmm



Order No.	SK	D1	A	D2	D3	V	L	M
			= 120					
714021-413	40	3	120	9	25	-	-	-
714021-414	40	4	120	9	25	-	-	-
714021-415	40	5	120	9	25	-	-	-
714021-41	40	6	120	15	30	10	37	M5
714021-42	40	8	120	15	30	10	37	M6
714021-43	40	10	120	18	32	10	42	M8x1
714021-44	40	12	120	18	32	10	48	M10x1

Version »Cool Tool«

7140219-41	40	6	120	15	31	10	37	M5
7140219-42	40	8	120	16	32	10	37	M6
7140219-43	40	10	120	18	34	10	42	M8x1
7140219-44	40	12	120	20	36	10	48	M10x1



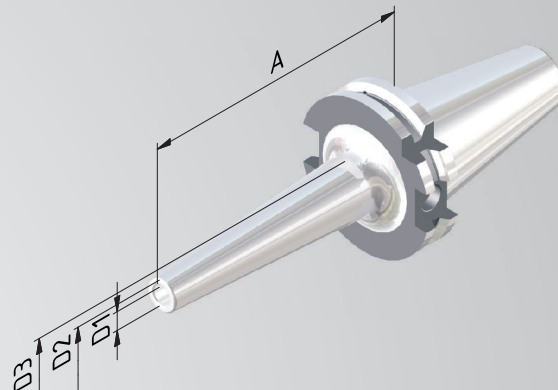
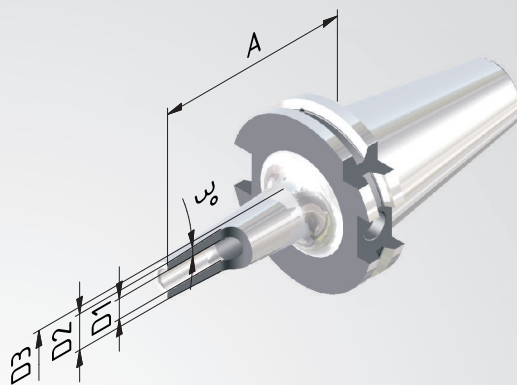
Shrink fit holder 3°

Application: For clamping tools with cylindrical shank of solid carbide or HSS, tol. h6.

Technical Design: Made of special heat resistant steel. Suitable for inductive shrinking unit. Runout of outer taper to $D_1 \leq 0,003$ mm.



Fine balanced
 $G 2,5$ at $25.000^{m/s^2}$
or max. residual imbalance
 ≤ 1 gmm



Order No.	SK	D1	A	D2	D3
			= 80		
714051-13	40	3	80	9	14
714051-14	40	4	80	10	15
714051-15	40	5	80	11	16
714051-01	40	6	80	12	19
714051-02	40	8	80	14	21
714051-03	40	10	80	16	23
714051-04	40	12	80	18	25
			= 120		
714051-313	40	3	120	9	18
714051-314	40	4	120	10	19
714051-315	40	5	120	11	20
714051-31	40	6	120	12	23
714051-32	40	8	120	14	25
714051-33	40	10	120	16	27
714051-34	40	12	120	18	29

Thread shank adapter

Application: For clamping threaded shank end mill bodies.

Technical Design: Runout of outer taper to $D_1 \leq 0,005$ mm.



Fine balanced
 $G_{2,5}$ at 25.000mm^{-1}
or max. residual imbalance
 ≤ 1 gmm

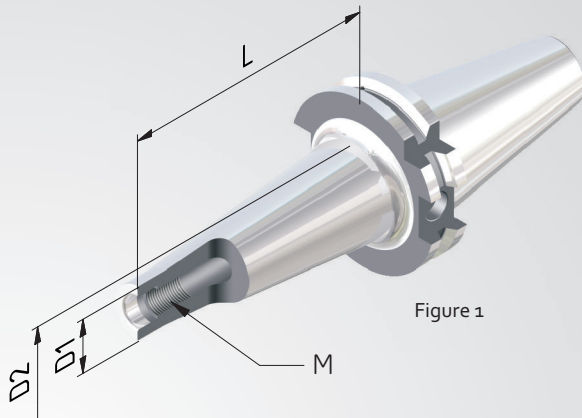


Figure 1

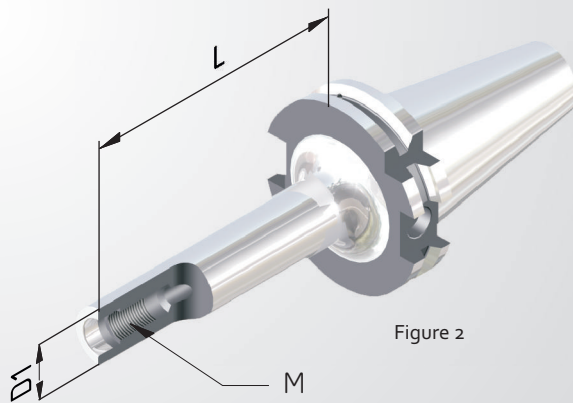


Figure 2

Order No. SK M L D1 D2
Conical (Figure 1)

714008-01	40	M8	25	13	15
714008-02	40	M8	50	13	23
714008-03	40	M8	75	13	25
714010-01	40	M10	25	18	23
714010-02	40	M10	50	18	25
714010-03	40	M10	75	18	30
714010-04	40	M10	100	18	35
714010-06	40	M10	150	18	45
714012-01	40	M12	25	21	24
714012-02	40	M12	50	21	30
714012-03	40	M12	75	21	35
714012-04	40	M12	100	21	38
714012-06	40	M12	150	21	48
714016-01	40	M16	25	29	29
714016-02	40	M16	50	29	34
714016-03	40	M16	75	29	35
714016-04	40	M16	100	29	40
714016-06	40	M16	150	29	48

Cylindrical (Figure 2)

7140057-01	40	M5	25	10	
7140067-01	40	M6	25	10	
7140087-01	40	M8	25	13	
7140087-02	40	M8	50	13	
7140087-03	40	M8	75	13	
7140107-01	40	M10	25	18	
7140107-02	40	M10	50	18	
7140107-03	40	M10	75	18	
7140107-04	40	M10	100	18	
7140107-06	40	M10	150	18	
7140127-01	40	M12	25	21	
7140127-02	40	M12	50	21	
7140127-03	40	M12	75	21	
7140127-04	40	M12	100	21	
7140127-06	40	M12	150	21	
7140167-01	40	M16	25	29	
7140167-02	40	M16	50	29	
7140167-03	40	M16	75	29	
7140167-04	40	M16	100	29	
7140167-06	40	M16	150	29	

Shell mill holder »Cool Tool«

Application: For adapting shell mills with coolant through to the cutting edges.

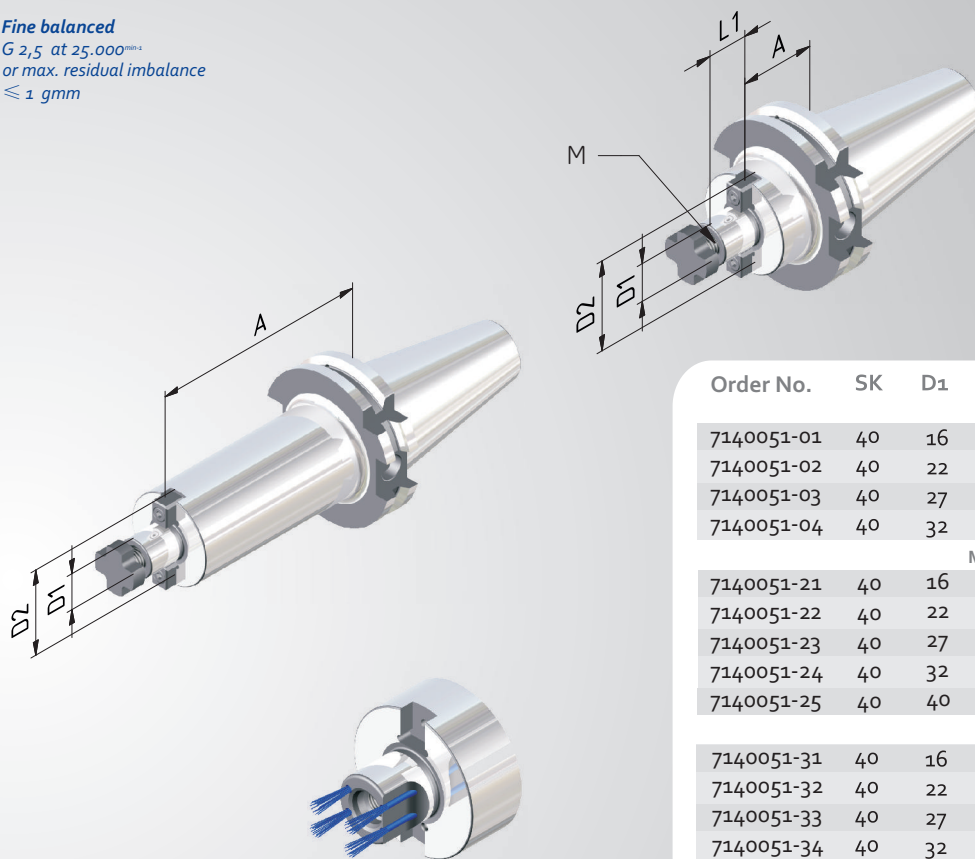
Technical Design: With extended flange. Runout of outer taper to $D_1 \leq 0,006$ mm.

Includes: Clamping screw and drive keys.

Accessories and Spareparts: See page 134.



Fine balanced
 $G 2,5$ at $25.000^{mm/s}$
or max. residual imbalance
 ≤ 1 gmm



Order No.	SK	D1	A	D2	L1	M
SHORT						
7140051-01	40	16	35	38	17	M8
7140051-02	40	22	35	48	19	M10
7140051-03	40	27	35	50	21	M12
7140051-04	40	32	50	78	24	M16
MEDIUM						
7140051-21	40	16	60	38	17	M8
7140051-22	40	22	60	48	19	M10
7140051-23	40	27	60	50	21	M12
7140051-24	40	32	70	78	24	M16
7140051-25	40	40	70	89	27	M20
= 100						
7140051-31	40	16	100	38	17	M8
7140051-32	40	22	100	48	19	M10
7140051-33	40	27	100	50	21	M12
7140051-34	40	32	100	78	24	M16
= 160						
7140051-62	40	22	160	48	19	M10
7140051-63	40	27	160	50	21	M12
7140051-64	40	32	160	78	24	M16

Combi shell mill holder

Application: For adapting shell mills with transverse and longitudinal groove.

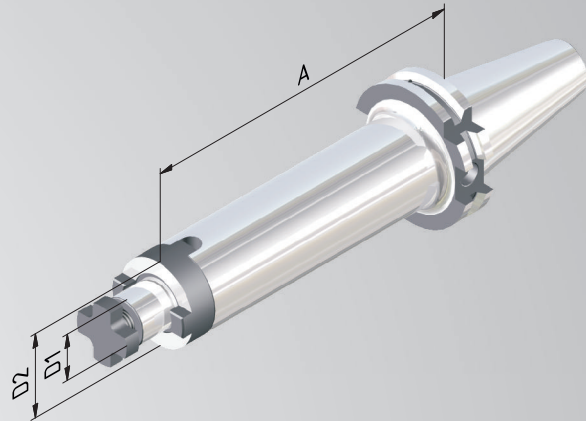
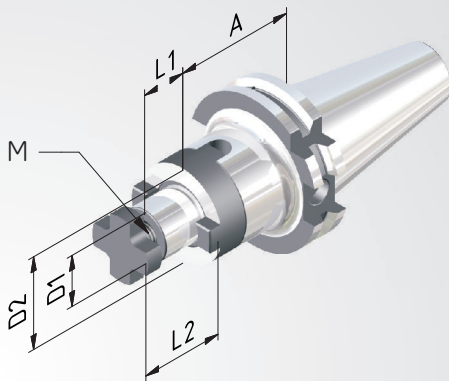
Technical Design: Runout of outer taper to $D_1 \leq 0,006$ mm.

Includes: Clamping screw, drive keys and adjusting spring.

Accessories: See from page 137.



Fine balanced
G 2,5 at 25.000^{mm/s}
or max. residual imbalance
 ≤ 1 gmm

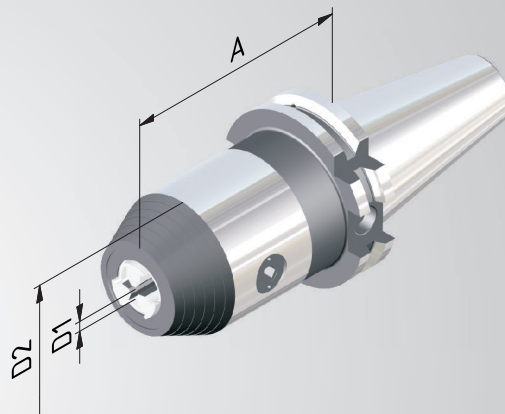


Order No.	SK	D1	A	D2	L1	L2	M
SHORT							
714006-01	40	16	55	32	17	27	M8
714006-02	40	22	55	40	19	31	M10
714006-03	40	27	55	48	21	33	M12
714006-04	40	32	60	58	24	38	M16
= 100							
714006-31	40	16	100	32	17	27	M8
714006-32	40	22	100	40	19	31	M10
714006-33	40	27	100	48	21	33	M12
714006-34	40	32	100	58	24	38	M16
= 160							
714006-61	40	16	160	32	17	27	M8
714006-62	40	22	160	40	19	31	M10
714006-63	40	27	160	48	21	33	M12
714006-64	40	32	160	58	24	38	M16

Short drill chuck

Application: For clamping tools with cylindrical shank. Also suitable for tools with internal coolant.

Technical Design: Wrench.



Order No. SK Clamping range D1 A D2

FORM AD for tools with internal coolant

714095-52	40	1/16	80	50
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Collet chuck ER

Application: For clamping tools with cylindrical shank in collets ER

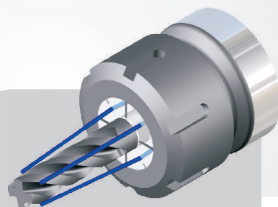
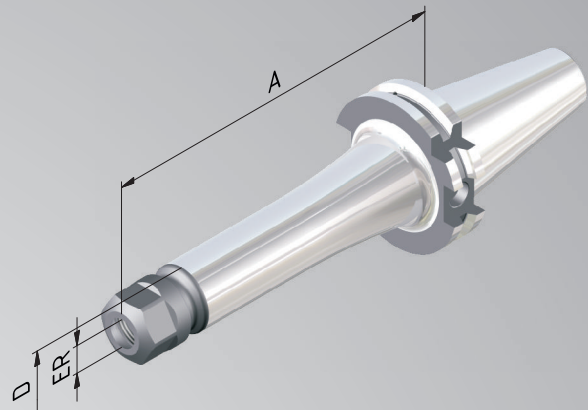
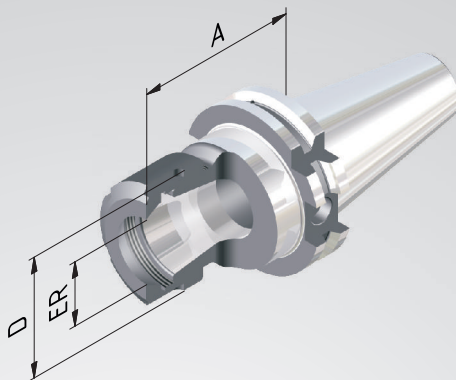
Technical Design: Runout of outer taper to inner taper $\leq 0,003$ mm. Due to adjusted taper tolerances of the ER-Inner taper and the collet taper max. runout of $\leq 8\mu$ at $2,5 \times D$.

Includes: Clamping nut

Accessories: See page 130.



Fine balanced
 $G 2,5$ at 25.000^{min-1}
or max. residual imbalance
 ≤ 1 gmm



Sealed versions see
pages 132, 133.

Order No.	SK	ER	Clamping range	A	D
				= 70	
715002-01	50	16	1–10	70	28
715002-02	50	25	1–16	70	42
715002-03	50	32	2–20	70	50
715002-04	50	40	4–26	70	63
				= 100	
715002-31	50	16	1–10	100	28
715002-32	50	25	1–16	100	42
715002-33	50	32	2–20	100	50
715002-34	50	40	4–26	100	63
				= 160	
715002-61	50	16	1–10	160	28
715002-62	50	25	1–16	160	42
715002-63	50	32	2–20	160	50
715002-64	50	40	4–26	160	63

Endmill holder Weldon

Application: For clamping tools with cylindrical shank according to DIN 1835B/6359HB.

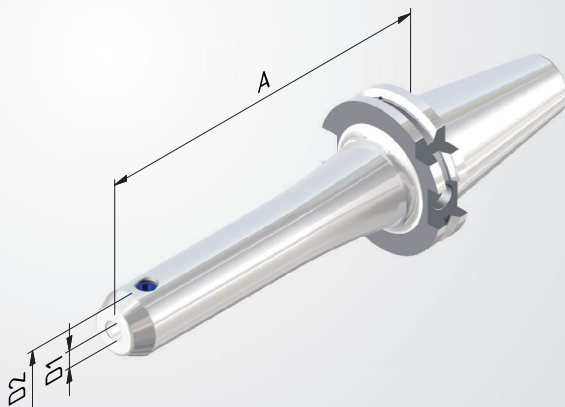
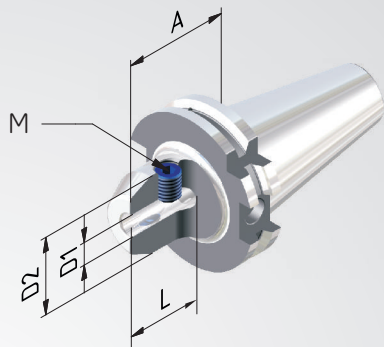
Technical Design: Runout of outer taper to $D_1 \leq 0,003$ mm. Tolerance of bore H4 (more accurate as DIN).

Includes: Clamping screw.

Accessories: See page 134.



Fine balanced
 $G 2,5$ at 25.000^{min-1}
or max. residual imbalance
 ≤ 1 gmm



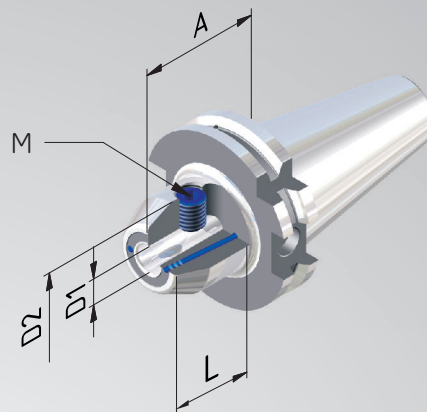
Order No.	SK	D1	A	D2	L	M1
SHORT						
715004-01	50	6	63	25	35	M6
715004-02	50	8	63	28	35	M8
715004-03	50	10	63	35	41	M10
715004-04	50	12	63	42	48	M12
715004-05	50	14	63	42	48	M12
715004-06	50	16	63	48	51	M14
715004-08	50	20	63	52	53	M16
715004-09	50	25	80	65	60	M18x2
715004-10	50	32	100	72	64	M20x2
= 100						
715004-31	50	6	100	25	35	M6
715004-32	50	8	100	28	35	M8
715004-33	50	10	100	35	41	M10
715004-34	50	12	100	42	48	M12
715004-35	50	14	100	42	48	M12
715004-36	50	16	100	48	51	M14
715004-38	50	20	100	52	53	M16
715004-39	50	25	100	65	60	M18x2
= 160						
715004-61	50	6	160	25	35	M6
715004-62	50	8	160	28	35	M8
715004-63	50	10	160	35	41	M10
715004-64	50	12	160	42	48	M12
715004-65	50	14	160	42	48	M12
715004-66	50	16	160	48	51	M14
715004-68	50	20	160	52	53	M16
715004-69	50	25	160	65	60	M18x2
715004-70	50	32	160	72	64	M20x2

Endmill holder Weldon »Cool Tool«

- Application:** Particularly suitable for tools without internal coolant, and for machining at difficult positions with bad chip removal.
- Technical Design:** Two holes in the toolholder lead the coolant directly to the cutting edge. Coolant holes can be re-sealed with screws for the use of tools with internal coolant holes.
- Includes:** Clamping screw and 2 x M3-screws to plug the coolant holes if needed.
- Accessories:** See page 134.



Fine balanced
G 2,5 at 25.000^{mm/s}
or max. residual imbalance
≤ 1 gmm



Order No.	SK	D1	A	D2	L	M
7150041-01	50	6	63	25	35	M6
7150041-02	50	8	63	28	35	M8
7150041-03	50	10	63	35	41	M10
7150041-04	50	12	63	42	48	M12
7150041-05	50	14	63	42	48	M12
7150041-06	50	16	63	48	51	M14
7150041-07	50	18	63	48	51	M14
7150041-08	50	20	63	52	53	M16
7150041-09	50	25	80	65	60	M18x2
7150041-10	50	32	100	72	64	M20x2

Shrink fit holder 4,5°

Application: For clamping tools with cylindrical shank of solid carbide or HSS, tol. h6.

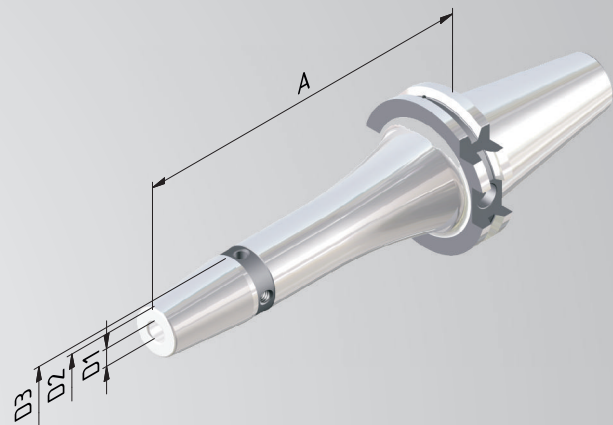
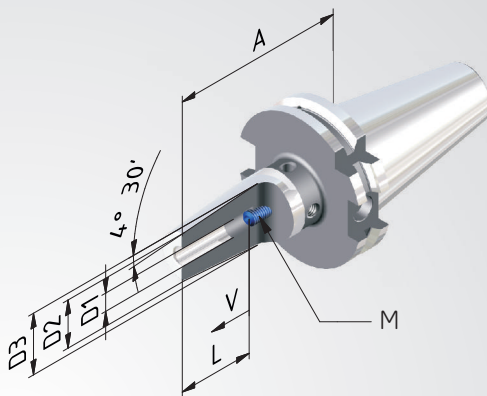
Technical Design: Made of special heat resistant steel. Suitable for inductive shrinking unit. With four additional threads for supplementary fine balancing. Runout of outer taper to $D_1 \leq 0,003$ mm.

Includes: Set screw.

Accessories: See page 135.



Fine balanced
G 2,5 at 25.000^{min}
or max. residual imbalance
 ≤ 1 gmm



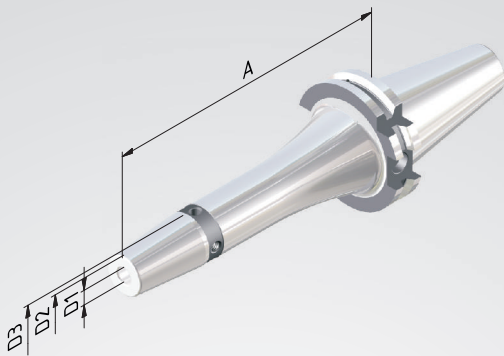
Order No.	SK	D1	A	D2	D3	V	L	M
SHORT								
715021-01	50	6	80	21	27	10	37	M5
715021-02	50	8	80	21	27	10	37	M6
715021-03	50	10	80	24	32	10	42	M8x1
715021-04	50	12	80	24	32	10	48	M10x1
715021-05	50	14	80	27	34	10	48	M10x1
715021-06	50	16	80	27	34	10	51	M12x1
715021-07	50	18	80	33	42	10	51	M12x1
715021-08	50	20	80	33	42	10	53	M16x1
715021-09	50	25	100	44	53	10	59	M16x1
715021-10	50	32	100	44	53	10	63	M16x1

Long versions see next page >>

Shrink fit holder 4,5°



Fine balanced
G 2,5 at 25.000^{min-1}
or max. residual imbalance
≤ 1 gmm



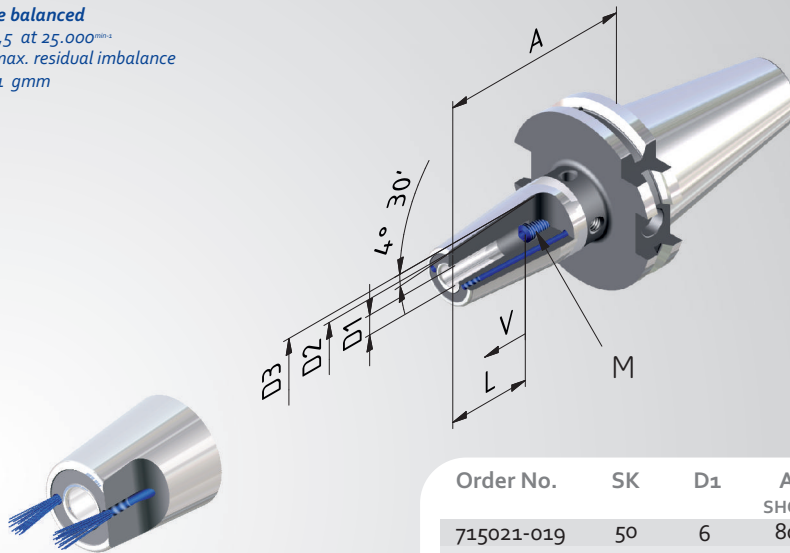
Order No.	SK	D1	A	D2	D3	V	L	M
= 120								
715021-31	50	6	120	21	27	10	37	M5
715021-32	50	8	120	21	27	10	37	M6
715021-33	50	10	120	24	32	10	42	M8x1
715021-34	50	12	120	24	32	10	48	M10x1
715021-35	50	14	120	27	34	10	48	M10x1
715021-36	50	16	120	27	34	10	51	M12x1
715021-37	50	18	120	33	42	10	51	M12x1
715021-38	50	20	120	33	42	10	53	M16x1
715021-39	50	25	120	44	53	10	59	M16x1
715021-40	50	32	120	44	53	10	63	M16x1
= 130								
715021-51	50	6	130	21	27	10	37	M5
715021-52	50	8	130	21	27	10	37	M6
715021-53	50	10	130	24	32	10	42	M8x1
715021-54	50	12	130	24	32	10	48	M10x1
715021-55	50	14	130	27	34	10	48	M10x1
715021-56	50	16	130	27	34	10	51	M12x1
715021-57	50	18	130	33	42	10	51	M12x1
715021-58	50	20	130	33	42	10	53	M16x1
715021-59	50	25	130	44	53	10	59	M16x1
715021-60	50	32	130	44	53	10	63	M16x1
= 160								
715021-61	50	6	160	21	27	10	37	M5
715021-62	50	8	160	21	27	10	37	M6
715021-63	50	10	160	24	32	10	42	M8x1
715021-64	50	12	160	24	32	10	48	M10x1
715021-65	50	14	160	27	34	10	48	M10x1
715021-66	50	16	160	27	34	10	51	M12x1
715021-67	50	18	160	33	42	10	51	M12x1
715021-68	50	20	160	33	42	10	53	M16x1
715021-69	50	25	160	44	53	10	59	M16x1
715021-70	50	32	160	44	53	10	63	M16x1
= 200								
715021-81	50	6	200	21	27	10	37	M5
715021-82	50	8	200	21	27	10	37	M6
715021-83	50	10	200	24	32	10	42	M8x1
715021-84	50	12	200	24	32	10	48	M10x1
715021-85	50	14	200	27	34	10	48	M10x1
715021-86	50	16	200	27	34	10	51	M12x1
715021-87	50	18	200	33	42	10	51	M12x1
715021-88	50	20	200	33	42	10	53	M16x1
715021-89	50	25	200	44	53	10	59	M16x1
715021-90	50	32	200	44	53	10	63	M16x1

Shrink fit holder 4,5° »Cool Tool«

- Application:** Particularly suitable for tools without internal coolant, and for machining at difficult positions with bad chip removal.
- Technical Design:** Two holes in the toolholder lead the coolant directly to the cutting edge. Coolant holes can be re-sealed with screws for the use of tools with internal coolant holes.
- Includes:** Set screw and 2 x M3 screws to plug the coolant holes if needed.
- Accessories:** See page 134.



Fine balanced
G 2,5 at 25.000^{min-1}
or max. residual imbalance
≤ 1 gmm



Order No.	SK	D1	A	D2	D3	V	L	M
			SHORT					
715021-019	50	6	80	21	27	10	37	M5
715021-029	50	8	80	21	27	10	37	M6
715021-039	50	10	80	24	32	10	42	M8x1
715021-049	50	12	80	24	32	10	48	M10x1
715021-059	50	14	80	27	34	10	48	M10x1
715021-069	50	16	80	27	34	10	51	M12x1
715021-079	50	18	80	33	42	10	51	M12x1
715021-089	50	20	80	33	42	10	53	M16x1
715021-099	50	25	100	44	53	10	59	M16x1
715021-109	50	32	100	44	53	10	63	M16x1

Shell mill holder »Cool Tool«

Application: For adapting shell mills with coolant through to the cutting edges.

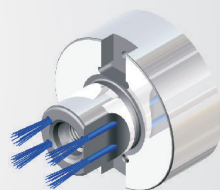
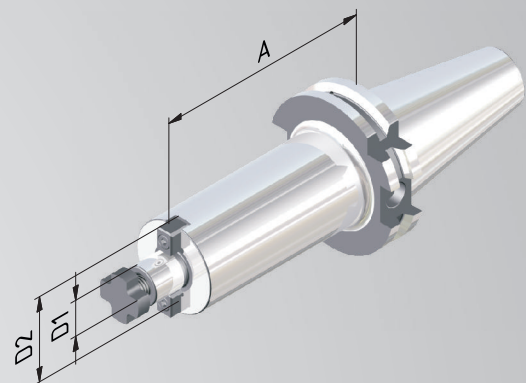
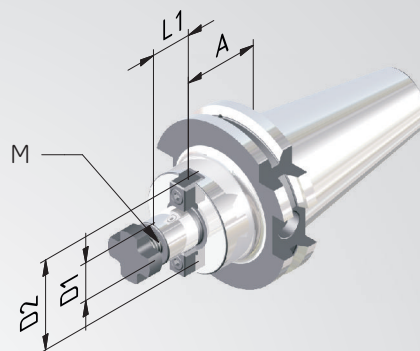
Technical Design: With extended flange. Runout of outer taper to $D_1 \leq 0,006$ mm.

Includes: Clamping screw and drive keys.

Accessories and Spareparts: See page 134.



Fine balanced
 $G_{2,5}$ at 25.000^{min-1}
or max. residual imbalance
 ≤ 1 gmm



Order No.	SK	D1	A	D2	L1	M
SHORT						
7150051-02	50	22	35	48	19	M10
7150051-03	50	27	35	60	21	M12
7150051-04	50	32	35	78	24	M16
7150051-05	50	40	50	89	27	M20
= 100						
7150051-32	50	22	100	48	19	M10
7150051-33	50	27	100	60	21	M12
7150051-34	50	32	100	78	24	M16
7150051-35	50	40	100	89	27	M20
= 160						
7150051-621	50	22	160	48	19	M10
7150051-631	50	27	160	60	21	M12
7150051-641	50	32	160	78	24	M16
7150051-651	50	40	160	89	27	M20

Combi shell mill holder

Application: For adapting shell mills with transverse and longitudinal groove.

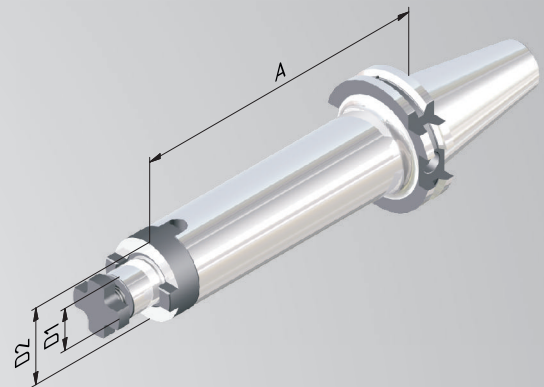
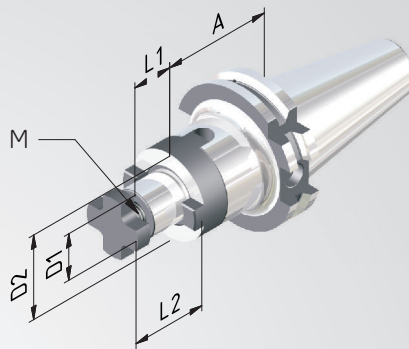
Technical Design: Runout of outer taper to $D_1 \leq 0,006$ mm.

Includes: Clamping screw, drive keys and adjusting spring.

Accessories: See from page 137.



Fine balanced
 $G_{2,5}$ at $25,000^{mm^2}$
or max. residual imbalance
 ≤ 1 gmm

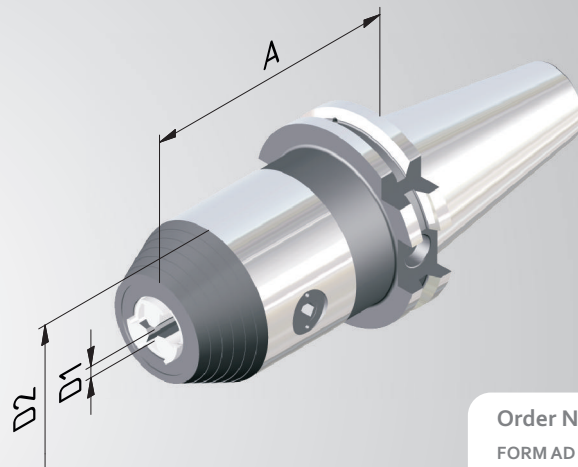


Order No.	SK	D1	A	D2	l1	l2	M
= 55							
715006-02	50	22	55	40	19	31	M10
715006-03	50	27	55	48	21	33	M12
715006-04	50	32	55	58	24	38	M16
715006-05	50	40	55	70	27	41	M20
= 100							
715006-32	50	22	100	40	19	31	M10
715006-33	50	27	100	48	21	33	M12
715006-34	50	32	100	58	24	38	M16
715006-35	50	40	100	70	27	41	M20
= 160							
715006-62	50	22	160	40	19	31	M10
715006-63	50	27	160	48	21	33	M12
715006-64	50	32	160	58	24	38	M16
715006-65	50	40	160	70	27	41	M20

Short drill chuck

Application: For clamping tools with cylindrical shank. Also suitable for tools with internal coolant.

Technical Design: Wrench.



Order No.	SK	Clamping range D1	A	D2
715095-52	50	1/16	80	50

FORMAD for tools with internal coolant