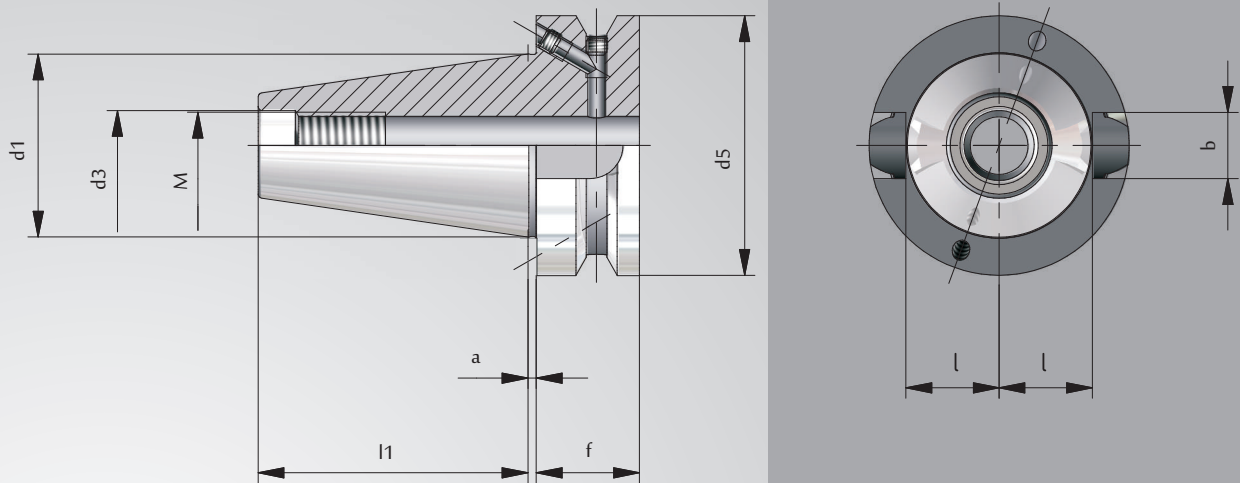


TOOL HOLDERS

WITH SHANK ISO 7388-2, FORM JD/JF
FORMER MAS-BT, FORM AD/B

MAS-BT



BT	l ₁	d ₁	d ₅	f	a	M	d ₃	b	l
30*	48,4	31,75	46	20	2	M12	12,5	16,1	16,3
40	65,4	44,45	63	25	2	M16	17	16,1	22,6
50	101,8	69,85	100	35	3	M24	25	25,7	35,4

*Version AD.

Collet chuck ER

Application: For clamping tools with cylindrical shank in collets ER

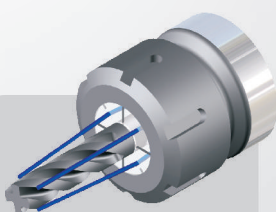
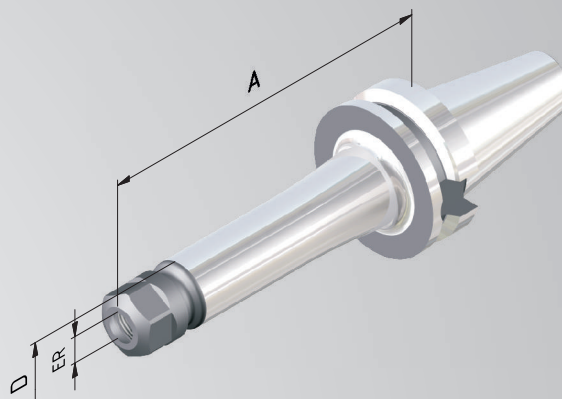
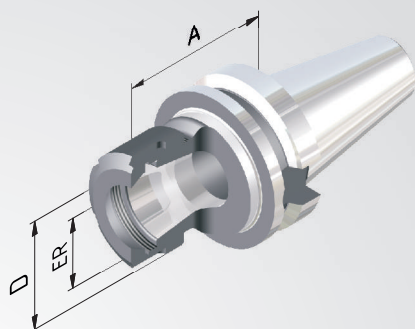
Technical Design: Runout of outer taper to inner taper $\leq 0,003$ mm. Due to adjusted taper tolerances of the ER-Inner taper and the collet taper max. runout of $\leq 8\mu$ at $2,5 \times D$.

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.	BT	ER	Clamping range	A	D
SHORT					
753002-01	30	11	1-7	60	19
753002-02	30	16	1-10	60	28
753002-03	30	20	1-13	60	34
753002-04	30	25	1-16	60	42
753002-22	30	16	1-10	80	28
753002-23	30	20	1-13	80	34
753002-24	30	25	1-16	80	42
LANG					
753002-31	30	11	1-7	100	19
753002-32	30	16	1-10	100	28
753002-33	30	20	1-13	100	34
753002-34	30	25	1-16	100	42

Shrink fit holder 4,5°

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

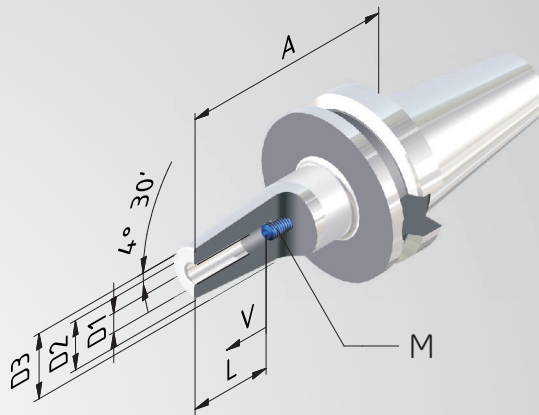
Technical Design: Made of special heat resistant steel. Suitable for inductive shrinking unit. With four additional threads for supplementary fine balancing. Runout of outer taper to $D_1 \leq 0,003$ mm.

Includes: Set screw.

Accessories: See page 135.



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



Order No.	BT	D1	A	D2	D3	V	L	M
SHORT								
753021-13	30	3	80	12	17	-	-	-
753021-14	30	4	80	12	17	-	-	-
753021-15	30	5	80	12	17	-	-	-
753021-01	30	6	80	21	27	10	37	M5
753021-02	30	8	80	21	27	10	37	M6
753021-03	30	10	80	24	32	10	42	M8x1
753021-04	30	12	80	24	32	10	48	M10x1
753021-05	30	14	80	27	34	10	48	M10x1
753021-06	30	16	80	27	34	10	51	M12x1
753021-07	30	18	90	33	42	10	51	M12x1
753021-08	30	20	90	33	42	10	53	M16x1

Collet chuck ER

Application: For clamping tools with cylindrical shank in collets ER

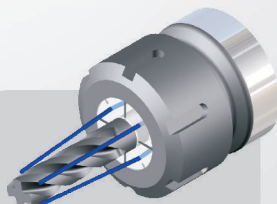
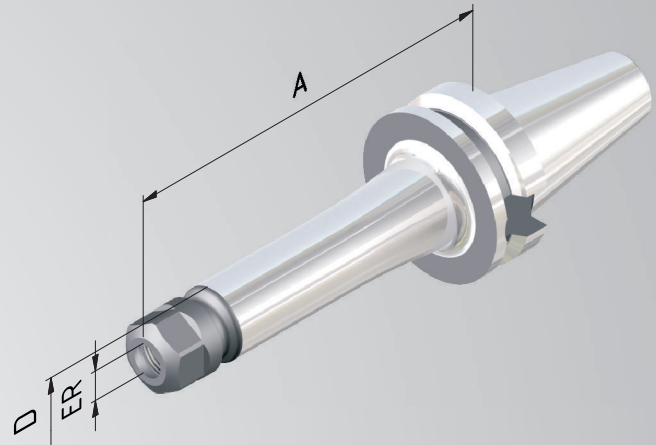
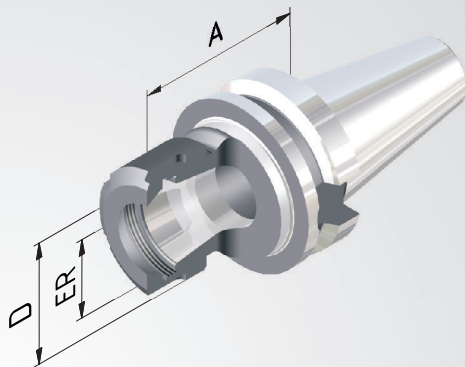
Technical Design: Runout of outer taper to inner taper $\leq 0,003$ mm. Due to adjusted taper tolerances of the ER-Inner taper and the collet taper max. runout of $\leq 8\mu$ at $2,5 \times D$.

Includes: Clamping nut.

Accessories: See page 130.



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



Sealed versions see
pages 132, 133.

Order No.	BT	ER	Spannbereich	A	D	
					= 70	
754002-01	40	16	1-10	70	28	
754002-03	40	25	1-16	70	42	
754002-04	40	32	2-20	70	50	
754002-05	40	40	4-26	70	63	
					= 100	
754002-31	40	16	1-10	100	28	
754002-33	40	25	1-16	100	42	
754002-34	40	32	2-20	100	50	
					= 160	
754002-61	40	16	1-10	160	28	
754002-63	40	25	1-16	160	42	
754002-64	40	32	2-20	160	50	

Collet chuck ER »Mini«

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

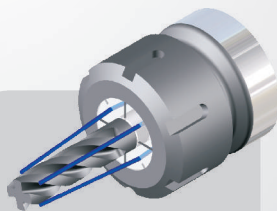
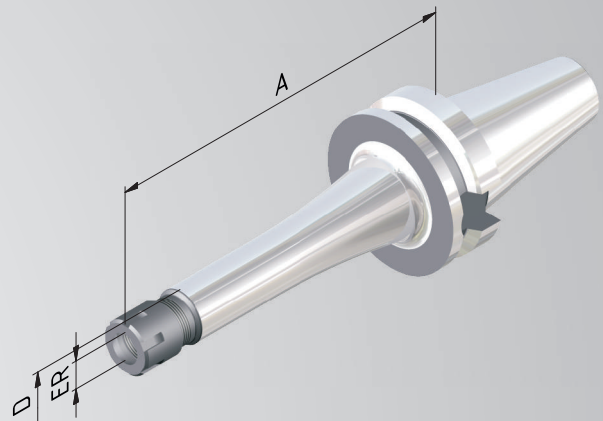
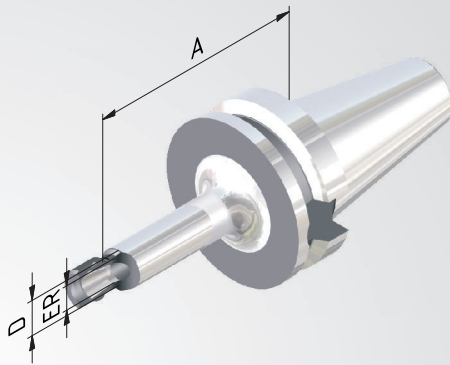
Technical Design: Runout of outer taper to inner taper $\leq 0,003$ mm. Due to adjusted taper tolerances of the ER-Inner taper and the collet taper max. runout of $\leq 8\mu$ at $2,5 \times D$.

Includes: Clamping nut.

Accessories: See page 130.



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



Sealed versions see
pages 132, 133.

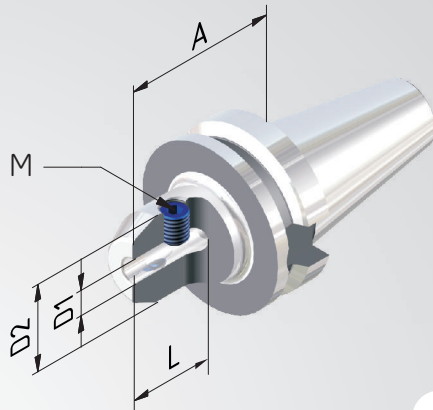
Order No.	BT	ER	Clamping range	A	D ₁
				= 100	
754002-41	40	11	1-7	100	16
754002-43	40	16	1-10	100	22
754002-45	40	25	1-16	100	35
				= 160	
754002-42	40	11	1-7	160	16
754002-44	40	16	1-10	160	22
754002-46	40	25	1-16	160	35

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^{mm/s}
or max. residual imbalance
≤ 1 gmm



Order No.	BT	D1	A	D2	L	M
SHORT						
754004-01	40	6	50	25	35	M6
754004-02	40	8	50	28	35	M8
754004-03	40	10	63	35	41	M10
754004-04	40	12	63	42	48	M12
754004-05	40	14	63	42	48	M12
754004-06	40	16	63	48	51	M14
754004-07	40	18	63	48	51	M14
754004-08	40	20	63	52	53	M16
754004-09	40	25	90	65	60	M18x2
754004-10	40	32	100	72	64	M20x2
= 100						
754004-31	40	6	100	25	35	M6
754004-32	40	8	100	28	35	M8
754004-33	40	10	100	35	41	M10
754004-34	40	12	100	42	48	M12
754004-36	40	16	100	48	51	M14
754004-38	40	20	100	52	53	M16

Shrink fit holder 4,5°

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

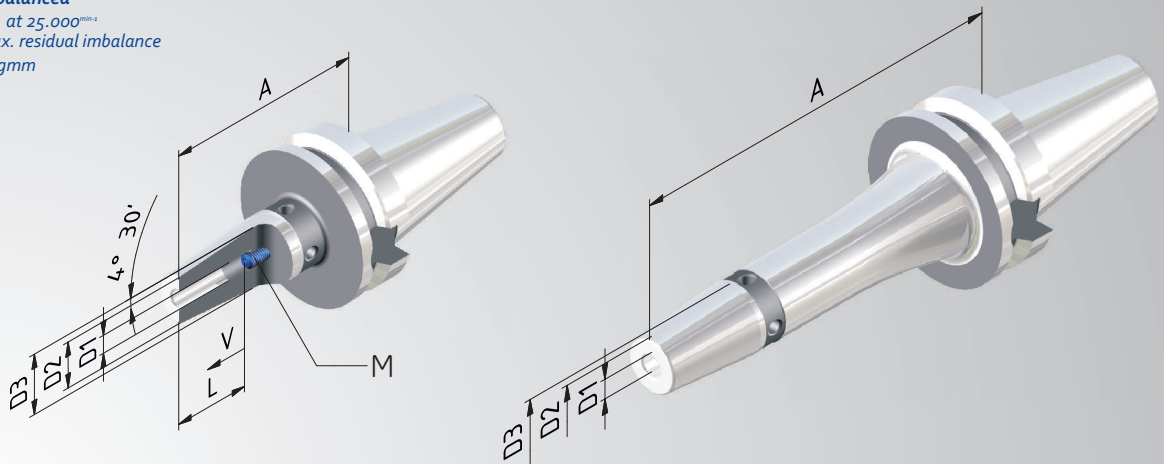
Technical Design: Made of special heat resistant steel. Suitable for inductive shrinking unit. With four additional threads for supplementary fine balancing. Runout of outer taper to $D_1 \leq 0,003$ mm.

Includes: Set screw.

Accessories: See page 135.



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



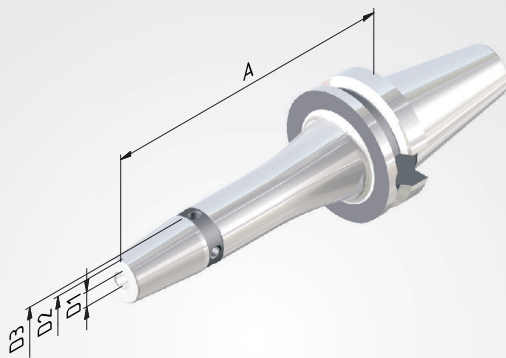
Order No.	BT	D1	A	D2	D3	V	L	M
SHORT								
754021-13	40	3	90	12	17	-	-	-
754021-14	40	4	90	12	17	-	-	-
754021-15	40	5	90	12	17	-	-	-
754021-01	40	6	90	21	27	10	37	M5
754021-02	40	8	90	21	27	10	37	M6
754021-03	40	10	90	24	32	10	42	M8x1
754021-04	40	12	90	24	32	10	48	M10x1
754021-05	40	14	90	27	34	10	48	M10x1
754021-06	40	16	90	27	34	10	51	M12x1
754021-07	40	18	90	33	42	10	51	M12x1
754021-08	40	20	90	33	42	10	53	M16x1
754021-09	40	25	100	44	53	10	59	M16x1

Long versions see next page >>

Shrink fit holder 4,5°



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



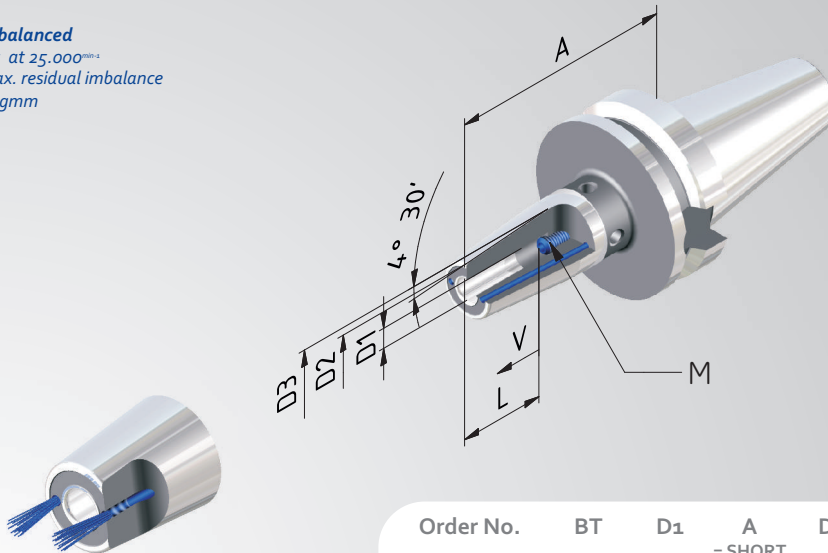
Order No.	BT	D1	A	D2	D3	V	L	M
= 120								
754021-31	40	6	120	21	27	10	37	M5
754021-32	40	8	120	21	27	10	37	M6
754021-33	40	10	120	24	32	10	42	M8x1
754021-34	40	12	120	24	32	10	48	M10x1
754021-35	40	14	120	27	34	10	48	M10x1
754021-36	40	16	120	27	34	10	51	M12x1
754021-37	40	18	120	33	42	10	51	M12x1
754021-38	40	20	120	33	42	10	53	M16x1
754021-39	40	25	120	44	53	10	59	M16x1
= 130								
754021-513	40	3	130	12	17	-	-	-
754021-514	40	4	130	12	17	-	-	-
754021-515	40	5	130	12	17	-	-	-
754021-51	40	6	130	21	27	10	37	M5
754021-52	40	8	130	21	27	10	37	M6
754021-53	40	10	130	24	32	10	42	M8x1
754021-54	40	12	130	24	32	10	48	M10x1
754021-55	40	14	130	27	34	10	48	M10x1
754021-56	40	16	130	27	34	10	51	M12x1
754021-57	40	18	130	33	42	10	51	M12x1
754021-58	40	20	130	33	42	10	53	M16x1
754021-59	40	25	130	44	53	10	59	M16x1
= 160								
754021-61	40	6	160	21	27	10	37	M5
754021-62	40	8	160	21	27	10	37	M6
754021-63	40	10	160	24	32	10	42	M8x1
754021-64	40	12	160	24	32	10	48	M10x1
754021-65	40	14	160	27	34	10	48	M10x1
754021-66	40	16	160	27	34	10	51	M12x1
754021-67	40	18	160	33	42	10	51	M12x1
754021-68	40	20	160	33	42	10	53	M16x1
754021-69	40	25	160	44	53	10	59	M16x1
= 200								
754021-81	40	6	200	21	27	10	37	M5
754021-82	40	8	200	21	27	10	37	M6
754021-83	40	10	200	24	32	10	42	M8x1
754021-84	40	12	200	24	32	10	48	M10x1
754021-85	40	14	200	27	34	10	48	M10x1
754021-86	40	16	200	27	34	10	51	M12x1
754021-87	40	18	200	33	42	10	51	M12x1
754021-88	40	20	200	33	42	10	53	M16x1
754021-89	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



Order No.	BT	D1	A	D2	D3	V	L	M
			= SHORT					
754021-019	40	6	90	21	27	10	37	M5
754021-029	40	8	90	21	27	10	37	M6
754021-039	40	10	90	24	32	10	42	M8x1
754021-049	40	12	90	24	32	10	48	M10x1
754021-059	40	14	90	27	34	10	48	M10x1
754021-069	40	16	90	27	34	10	51	M12x1
754021-079	40	18	90	33	42	10	51	M12x1
754021-089	40	20	90	33	42	10	53	M16x1
754021-099	40	25	100	44	53	10	59	M16x1
			= 130					
754021-519	40	6	130	21	27	10	37	M5
754021-529	40	8	130	21	27	10	37	M6
754021-539	40	10	130	24	32	10	42	M8x1
754021-549	40	12	130	24	32	10	48	M10x1
754021-559	40	14	130	27	34	10	48	M10x1
754021-569	40	16	130	27	34	10	51	M12x1
754021-579	40	18	130	33	42	10	51	M12x1
754021-589	40	20	130	33	42	10	53	M16x1

Shell mill holder »Cool Tool«

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

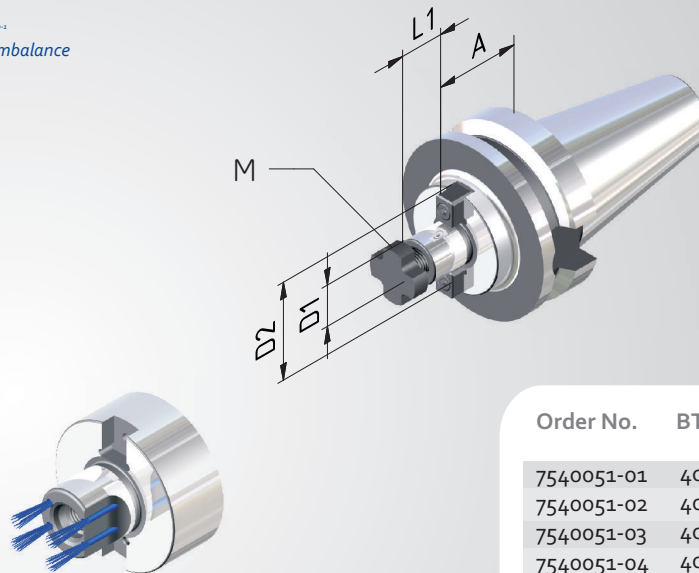
Technical Design: With extended flange. Runout of outer taper to $D_1 \leq 0,006 \text{ mm}$.

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
 $\leq 1 \text{ gmm}$



Order No.	BT	D1	A	D2	L1	M
SHORT						
7540051-01	40	16	35	38	17	M8
7540051-02	40	22	35	48	19	M10
7540051-03	40	27	35	60	21	M12
7540051-04	40	32	50	78	24	M16
7540051-05	40	40	50	89	27	M20
= 100						
7540051-31	40	16	100	38	17	M8
7540051-32	40	22	100	48	19	M10
7540051-33	40	27	100	60	21	M12
7540051-34	40	32	100	78	24	M16

Combi shell mill holder

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

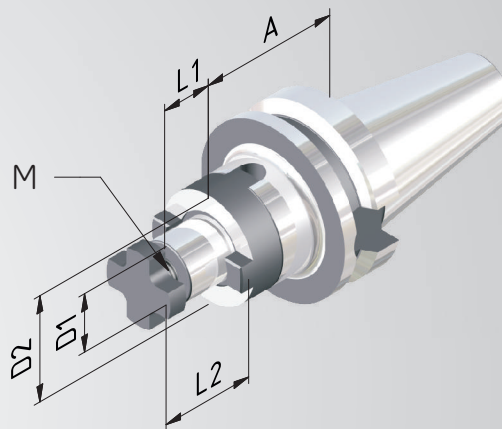
Technical Design: Runout of outer taper to $D_1 \leq 0,006$ mm.

Includes: Clamping screw, drive keys and adjusting spring.

Accessories: See page 137.



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

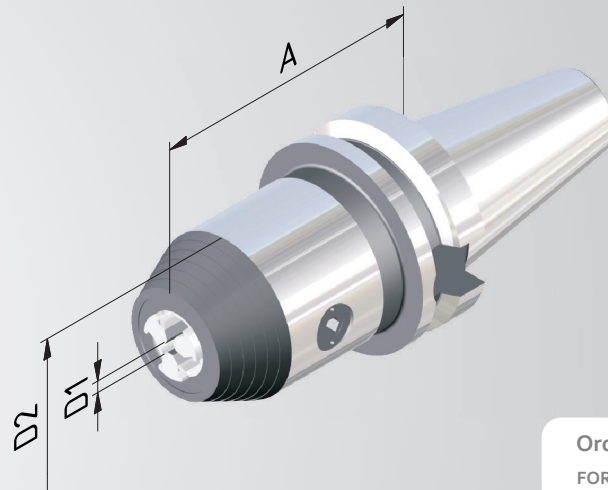


Order No.	BT	D1	A	D2	L1	L2	M	
			SHORT					
754006-01	40	16	55	32	17	27	M8	
754006-02	40	22	55	40	19	31	M10	
754006-03	40	27	55	48	21	33	M12	
754006-04	40	32	60	58	24	38	M16	

Short drill chuck

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

Technical Design: Wrench.



Order No.	BT	Spannb.	D1	A	D2
FORM AD for tools with internal coolant					
754095-52	40	1/16	88	50	

Collet chuck ER

Application: For clamping tools with cylindrical shank in collets ER

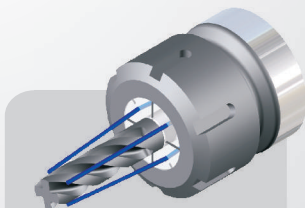
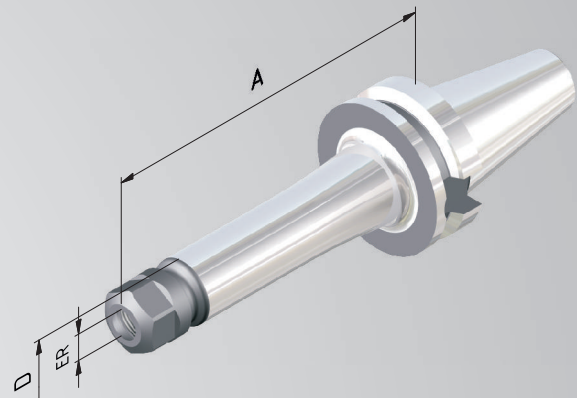
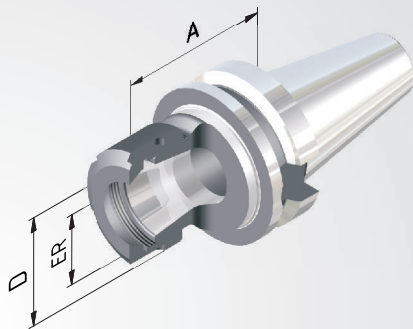
Technical Design: Runout of outer taper to inner taper $\leq 0,003$ mm. Due to adjusted taper tolerances of the ER-Inner taper and the collet taper max. runout of $\leq 8\mu$ at $2,5 \times D$.

Includes: Clamping nut.

Accessories: See page 130.



Fine balanced
 $G 2,5$ at 25.000 rpm^{-1}
or max. residual imbalance
 $\leq 1 \text{ gmm}$



Sealed versions see
pages 132, 133.

Order No.	BT	ER	A	D	Clamping range
755002-01	50	16	70	28	1-10
755002-02	50	25	70	42	1-16
755002-03	50	32	70	50	2-20
755002-04	50	40	80	63	4-26
= 100					
755002-31	50	16	100	28	1-10
755002-32	50	25	100	42	1-16
755002-33	50	32	100	50	2-20
755002-34	50	40	100	63	4-26
= 160					
755002-61	50	16	160	28	1-10
755002-62	50	25	160	42	1-16
755002-63	50	32	160	50	2-20
755002-64	50	40	160	63	4-26

Endmill holder Weldon

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

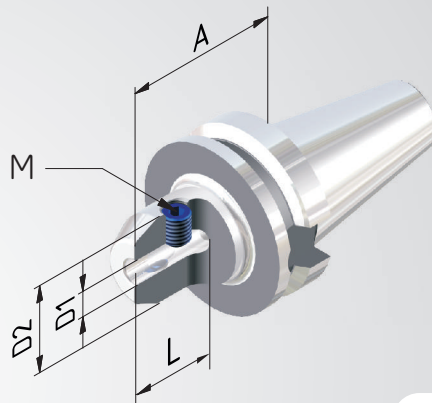
Technical Design: Runout of outer taper to $D_1 \leq 0,003$ mm. Tolerance of bore H4 (more accurate as DIN).

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.	BT	D1	A	D2	L	M
755004-01	50	6	63	25	35	M6
755004-02	50	8	63	28	35	M8
755004-03	50	10	70	35	41	M10
755004-04	50	12	80	42	48	M12
755004-06	50	16	80	48	51	M14
755004-08	50	20	80	52	53	M16
755004-09	50	25	100	65	60	M18x2
755004-10	50	32	105	72	64	M20x2

Shrink fit holder 4,5°

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

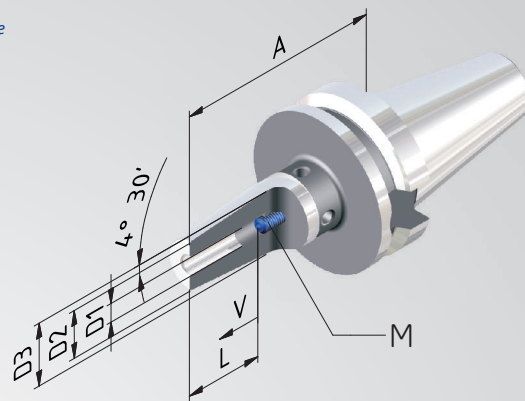
Technical Design: Made of special heat resistant steel. Suitable for inductive shrinking unit. With four additional threads for supplementary fine balancing. Runout of outer taper to $D_1 \leq 0,003$ mm.

Includes: Set screw.

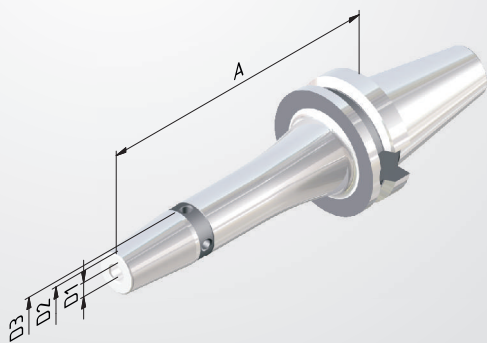
Accessories: See page 135.



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



Order No.	BT	D1	A	D2	D3	V	L	M	
			= 100						
755021-01	50	6	100	21	27	10	37	M5	
755021-02	50	8	100	21	27	10	37	M6	
755021-03	50	10	100	24	32	10	42	M8x1	
755021-04	50	12	100	24	32	10	48	M10x1	
755021-05	50	14	100	27	34	10	48	M10x1	
755021-06	50	16	100	27	34	10	51	M12x1	
755021-07	50	18	100	33	42	10	51	M12x1	
755021-08	50	20	100	33	42	10	53	M16x1	
755021-09	50	25	100	44	53	10	59	M16x1	
755021-10	50	32	100	44	53	10	63	M16x1	
			= 130						
755021-51	50	6	130	21	27	10	37	M5	
755021-52	50	8	130	21	27	10	37	M6	
755021-53	50	10	130	24	32	10	42	M8x1	
755021-54	50	12	130	24	32	10	48	M10x1	
755021-55	50	14	130	27	34	10	48	M10x1	
755021-56	50	16	130	27	34	10	51	M12x1	
755021-57	50	18	130	33	42	10	51	M12x1	
755021-58	50	20	130	33	42	10	53	M16x1	
755021-59	50	25	130	44	53	10	59	M16x1	
755021-60	50	32	130	44	53	10	63	M16x1	

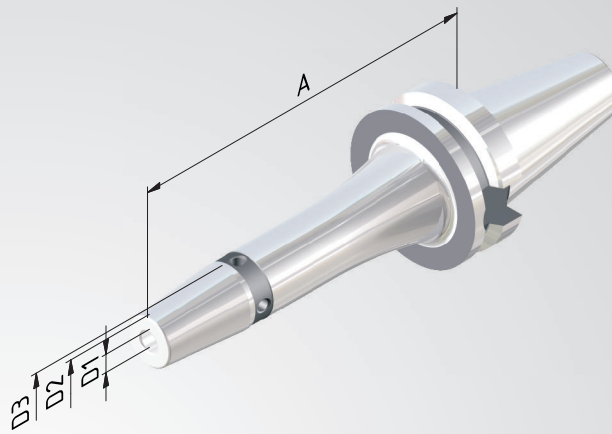


Long versions see next page >>

Shrink fit holder 4,5°



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



Order No.	BT	D1	A	D2	D3	V	L	M
			= 160					
755021-61	50	6	160	21	27	10	37	M5
755021-62	50	8	160	21	27	10	37	M6
755021-63	50	10	160	24	32	10	42	M8x1
755021-64	50	12	160	24	32	10	48	M10x1
755021-65	50	14	160	27	34	10	48	M10x1
755021-66	50	16	160	27	34	10	51	M12x1
755021-67	50	18	160	33	42	10	51	M12x1
755021-68	50	20	160	33	42	10	53	M16x1
755021-69	50	25	160	44	53	10	59	M16x1
755021-70	50	32	160	44	53	10	63	M16x1
			= 200					
755021-81	50	6	200	21	27	10	37	M5
755021-82	50	8	200	21	27	10	37	M6
755021-83	50	10	200	24	32	10	42	M8x1
755021-84	50	12	200	24	32	10	48	M10x1
755021-85	50	14	200	27	34	10	48	M10x1
755021-86	50	16	200	27	34	10	51	M12x1
755021-87	50	18	200	33	42	10	51	M12x1
755021-88	50	20	200	33	42	10	53	M16x1
755021-89	50	25	200	44	53	10	59	M16x1
755021-90	50	32	200	44	53	10	63	M16x1

Shell mill holder »Cool Tool«

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

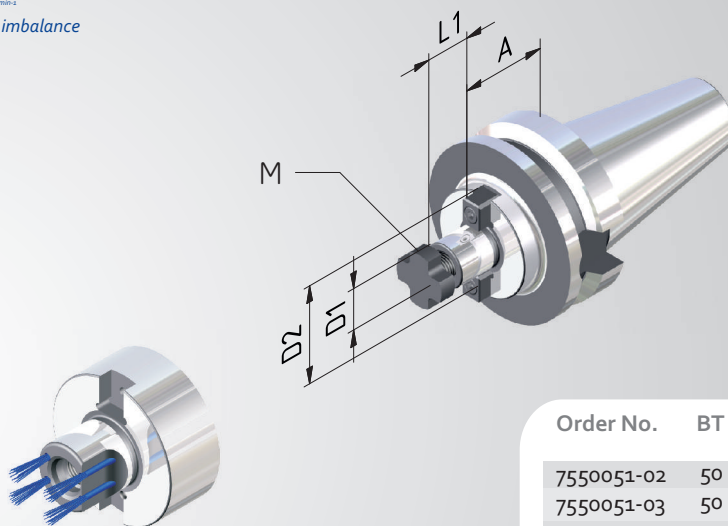
Technical Design: With extended flange. Runout of outer taper to $D_1 \leq 0,006$ mm.

Includes: Clamping screw and drive keys.

Accessories and Spareparts: See page 134.



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



Order No.	BT	D1	A	D2	L1	M
			= 55			
7550051-02	50	22	55	48	19	M8
7550051-03	50	27	55	60	21	M10
7550051-04	50	32	55	78	24	M12
7550051-05	50	40	55	89	27	M16
			= 100			
7550051-32	50	22	100	48	19	M8
7550051-33	50	27	100	60	21	M10
7550051-34	50	32	100	78	24	M12

Combi shell mill holder

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

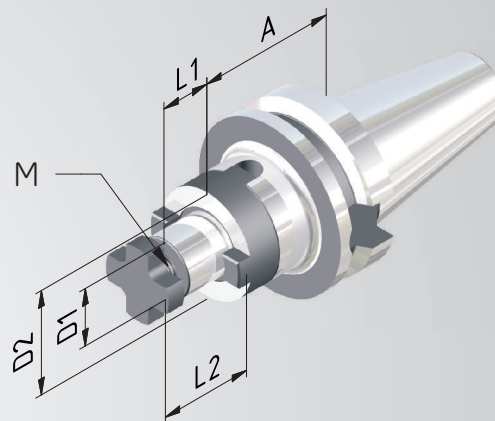
Technical Design: Runout of outer taper to $D_1 \leq 0,006$ mm.

Includes: Clamping screw, drive keys and adjusting spring.

Accessories: See page 137.



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

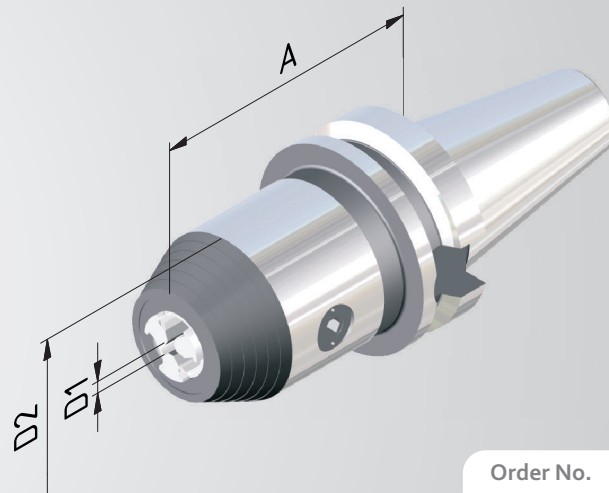


Order No.	BT	D1	A = 70	D2	L1	L2	M
755006-02	50	22	70	40	19	31	M8
755006-03	50	27	70	48	21	33	M10
755006-04	50	32	70	58	24	38	M12
755006-05	50	40	70	70	27	41	M16

Short drill chuck

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

Technical Design: Wrench.



Order No.	BT	Clamping range	D1	A	D2
755095-52	50	1/16		99	50

FORM AD for tools with internal coolant