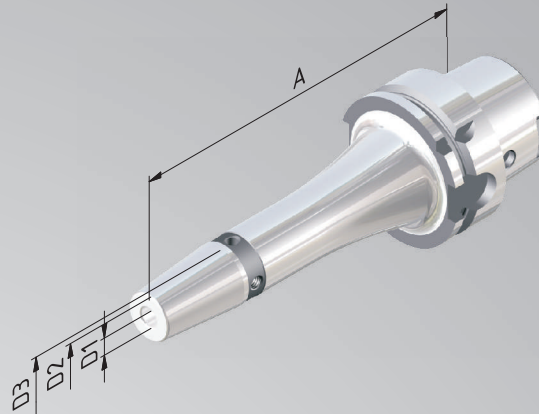
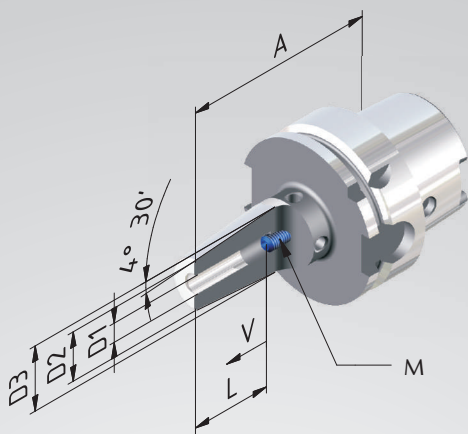


Shrink fit holder 4,5°

- 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 133.



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



Order No.	HSK	D1	A	D2	D3	V	L	M	
			SHORT						
610021-01	100	6	85	21	27	10	37	M5	
610021-02	100	8	85	21	27	10	37	M6	
610021-03	100	10	90	24	32	10	42	M8x1	
610021-04	100	12	95	24	32	10	48	M10x1	
610021-05	100	14	95	27	34	10	48	M10x1	
610021-06	100	16	100	27	34	10	51	M12x1	
610021-07	100	18	100	33	42	10	51	M12x1	
610021-08	100	20	105	33	42	10	53	M16x1	
610021-09	100	25	115	44	53	10	59	M16x1	
610021-10	100	32	120	44	53	10	63	M16x1	
			= 120						
610021-31	100	6	120	21	27	10	37	M5	
610021-32	100	8	120	21	27	10	37	M6	
610021-33	100	10	120	24	32	10	42	M8x1	
610021-34	100	12	120	24	32	10	48	M10x1	
610021-35	100	14	120	27	34	10	48	M10x1	
610021-36	100	16	120	27	34	10	51	M12x1	
610021-37	100	18	120	33	42	10	51	M12x1	
610021-38	100	20	120	33	42	10	53	M16x1	

Extended versions see next page >>

Shrink fit holder 4,5°

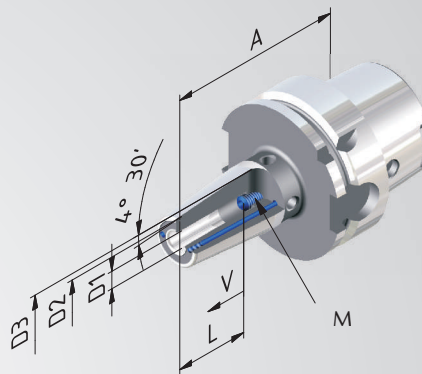
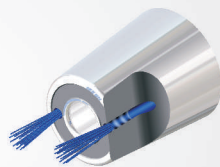
Order No.	HSK	D1	A	D2	D3	V	L	M
= 130								
610021-51	100	6	130	21	27	10	37	M5
610021-52	100	8	130	21	27	10	37	M6
610021-53	100	10	130	24	32	10	42	M8x1
610021-54	100	12	130	24	32	10	48	M10x1
610021-55	100	14	130	27	34	10	48	M10x1
610021-56	100	16	130	27	34	10	51	M12x1
610021-57	100	18	130	33	42	10	51	M12x1
610021-58	100	20	130	33	42	10	53	M16x1
610021-59	100	25	130	44	53	10	59	M16x1
= 160								
610021-61	100	6	160	21	27	10	37	M5
610021-62	100	8	160	21	27	10	37	M6
610021-63	100	10	160	24	32	10	42	M8x1
610021-64	100	12	160	24	32	10	48	M10x1
610021-65	100	14	160	27	34	10	48	M10x1
610021-66	100	16	160	27	34	10	51	M12x1
610021-67	100	18	160	33	42	10	51	M12x1
610021-68	100	20	160	33	42	10	53	M16x1
610021-69	100	25	160	44	53	10	59	M16x1
610021-70	100	32	160	44	53	10	63	M16x1
= 200								
610021-81	100	6	200	21	27	10	37	M5
610021-82	100	8	200	21	27	10	37	M6
610021-83	100	10	200	24	32	10	42	M8x1
610021-84	100	12	200	24	32	10	48	M10x1
610021-85	100	14	200	27	34	10	48	M10x1
610021-86	100	16	200	27	34	10	51	M12x1
610021-87	100	18	200	33	42	10	51	M12x1
610021-88	100	20	200	33	42	10	53	M16x1
610021-89	100	25	200	44	53	10	59	M16x1
610021-90	100	32	200	44	53	10	63	M16x1

Shrink fit holder »Cool Tool« 4,5°

- 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 132.



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



Order No.	HSK	D1	A	D2	D3	V	L	M
			SHORT					
610021-019	100	6	85	21	27	10	37	M5
610021-029	100	8	85	21	27	10	37	M6
610021-039	100	10	90	24	32	10	42	M8x1
610021-049	100	12	95	24	32	10	48	M10x1
610021-059	100	14	95	27	34	10	48	M10x1
610021-069	100	16	100	27	34	10	51	M12x1
610021-079	100	18	100	33	42	10	51	M12x1
610021-089	100	20	105	33	42	10	53	M16x1
610021-099	100	25	115	44	53	10	59	M16x1