

Reduction Sleeves for ETP Toolholders



Reduction sleeve HS - for internal cooling

The reduction sleeves are designed to fit with the ETP Toolholders. They are specially suited for high precision clamping of cylindrical tool shanks per DIN 6335 form HA, HB and HE, as well as tool shanks per DIN 1835 form B, C, D and E.

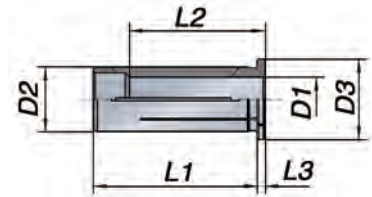
The special design of the reduction sleeves allows an efficient use of coolant through cutting tools.



Reduction sleeve HS-CF - for peripheral cooling

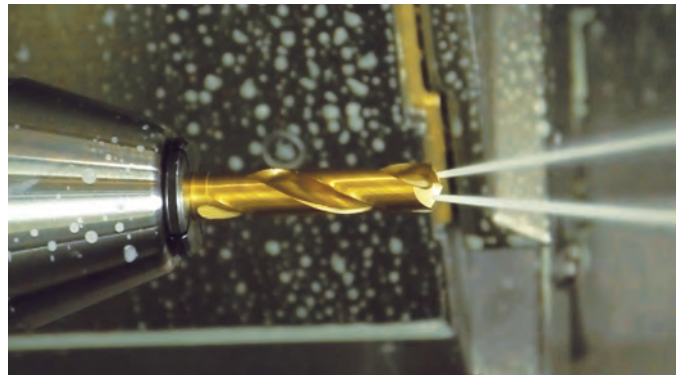
Outer-Ø of reduction sleeve corresponds to the type.

- HS12 = Ø 12 mm
- HS20 = Ø 20 mm
- HS25 = Ø 25 mm
- HS32 = Ø 32 mm

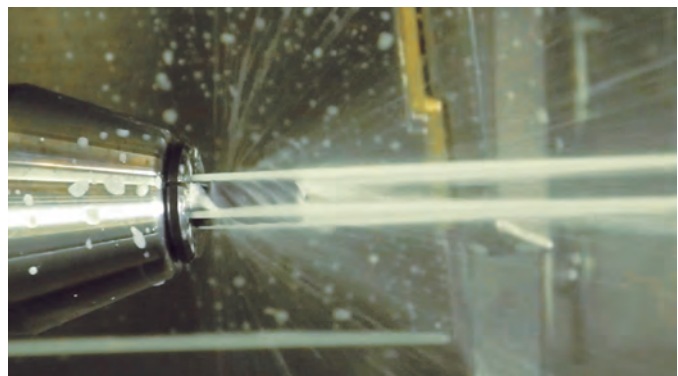


BENEFITS & FEATURES

- **Standard version HS suited for internal cooling**
Metal-to-metal seal for cutting tools with internal coolant channels.
- **HS-CF version suited for peripheral cooling**
The coolant flush reduction sleeves HS-CF can be used for peripheral cooling due to their coolant channels.
- **Accurate precision**
High runout accuracy < 3 µm.
- **High flexibility**
Clamping of different tool shank diameters. 12, 20, 25, 32 mm and 1/2", 3/4", 1", 1 1/4".
- **Power increase**
When using reduction sleeves the transmittable torque is increased.



Using Reduction sleeve HS - for internal cooling.



Using Reduction sleeve HS-CF - for peripheral cooling.

Reduction Sleeves Inch to inch

mm to inch

Reduction Sleeves inch to inch							
Part no.	Item description	D2 inch	D1 inch	D3 inch	L1 inch	L2 inch	L3 inch
Reduction Sleeves HS 1/2"							
● R1913.03182	HS 1/2" / 1/8"	0.500	0.1250	0.630	1.575	1.142	0.157
● R1913.04762	HS 1/2" / 3/16"	0.500	0.1875	0.630	1.575	1.142	0.157
● R1913.06352	HS 1/2" / 1/4"	0.500	0.2500	0.630	1.575	1.417	0.157
● R1913.07942	HS 1/2" / 5/16"	0.500	0.3125	0.630	1.575	1.457	0.157
● R1913.09522	HS 1/2" / 3/8"	0.500	0.3750	0.630	1.575	1.575	0.157
Reduction Sleeves HS 1/2"-CF							
● R1913.06353	HS 1/2"-CF / 1/4"	0.500	0.2500	0.630	1.575	1.417	0.157
● R1913.09523	HS 1/2"-CF / 3/8"	0.500	0.3750	0.630	1.575	1.575	0.157
Reduction Sleeves HS 3/4"							
● R1919.03182	HS 3/4" / 1/8"	0.750	0.1250	0.984	1.969	1.102	0.157
● R1919.04762	HS 3/4" / 3/16"	0.750	0.1875	0.984	1.969	1.102	0.157
● R1919.06352	HS 3/4" / 1/4"	0.750	0.2500	0.984	1.969	1.417	0.157
● R1919.07942	HS 3/4" / 5/16"	0.750	0.3125	0.984	1.969	1.457	0.157
● R1919.09522	HS 3/4" / 3/8"	0.750	0.3750	0.984	1.969	1.417	0.157
● R1919.11112	HS 3/4" / 7/16"	0.750	0.4375	0.984	1.969	1.575	0.157
● R1919.12702	HS 3/4" / 1/2"	0.750	0.5000	0.984	1.969	1.772	0.157
● R1919.14292	HS 3/4" / 9/16"	0.750	0.5625	0.984	1.969	1.772	0.157
● R1919.15882	HS 3/4" / 5/8"	0.750	0.6250	0.984	1.969	1.890	0.157
Reduction Sleeves HS 3/4"-CF							
● R1919.06353	HS 3/4"-CF / 1/4"	0.750	0.2500	0.984	1.969	1.417	0.157
● R1919.09523	HS 3/4"-CF / 3/8"	0.750	0.3750	0.984	1.969	1.417	0.157
● R1919.12703	HS 3/4"-CF / 1/2"	0.750	0.5000	0.984	1.969	1.772	0.157
● R1919.15883	HS 3/4"-CF / 5/8"	0.750	0.6250	0.984	1.969	1.890	0.157
Reduction Sleeves HS 1"							
● R1926.03182	HS 1" / 1/8"	1.000	0.1250	1.181	2.205	1.142	0.157
○ R1926.04762	HS 1" / 3/16"	1.000	0.1875	1.181	2.205	1.142	0.157
● R1926.06352	HS 1" / 1/4"	1.000	0.2500	1.181	2.205	1.457	0.157
● R1926.07942	HS 1" / 5/16"	1.000	0.3125	1.181	2.205	1.457	0.157
● R1926.09522	HS 1" / 3/8"	1.000	0.3750	1.181	2.205	1.496	0.157
● R1926.11112	HS 1" / 7/16"	1.000	0.4375	1.181	2.205	1.575	0.157
● R1926.12702	HS 1" / 1/2"	1.000	0.5000	1.181	2.205	1.811	0.157
● R1926.14292	HS 1" / 9/16"	1.000	0.5625	1.181	2.205	1.850	0.157
● R1926.15882	HS 1" / 5/8"	1.000	0.6250	1.181	2.205	1.890	0.157
● R1926.17462	HS 1" / 11/16"	1.000	0.6875	1.181	2.205	1.890	0.157
● R1926.19052	HS 1" / 3/4"	1.000	0.7500	1.181	2.205	1.890	0.157
Reduction Sleeves HS 1"-CF							
● R1926.06353	HS 1"-CF / 1/4"	1.000	0.2500	1.181	2.205	1.457	0.157
● R1926.09523	HS 1"-CF / 3/8"	1.000	0.3750	1.181	2.205	1.496	0.157
● R1926.12703	HS 1"-CF / 1/2"	1.000	0.5000	1.181	2.205	1.811	0.157
● R1926.15883	HS 1"-CF / 5/8"	1.000	0.6250	1.181	2.205	1.890	0.157
● R1926.19053	HS 1"-CF / 3/4"	1.000	0.7500	1.181	2.205	1.890	0.157
Reduction Sleeves HS 1 1/4"							
○ R1931.04762	HS 1 1/4" / 3/16"	1.250	0.1875	1.417	2.362	1.142	0.157
● R1931.06352	HS 1 1/4" / 1/4"	1.250	0.2500	1.417	2.362	1.417	0.157
● R1931.07942	HS 1 1/4" / 5/16"	1.250	0.3125	1.417	2.362	1.417	0.157
● R1931.09522	HS 1 1/4" / 3/8"	1.250	0.3750	1.417	2.362	1.457	0.157
○ R1931.11112	HS 1 1/4" / 7/16"	1.250	0.4375	1.417	2.362	1.772	0.157
● R1931.12702	HS 1 1/4" / 1/2"	1.250	0.5000	1.417	2.362	1.772	0.157
○ R1931.14292	HS 1 1/4" / 9/16"	1.250	0.5625	1.417	2.362	1.811	0.157
● R1931.15882	HS 1 1/4" / 5/8"	1.250	0.6250	1.417	2.362	1.811	0.157
● R1931.17462	HS 1 1/4" / 11/16"	1.250	0.6875	1.417	2.362	1.890	0.157
● R1931.19052	HS 1 1/4" / 3/4"	1.250	0.7500	1.417	2.362	1.969	0.157
● R1931.25402	HS 1 1/4" / 1"	1.250	1.000	1.417	2.362	2.205	0.157
Reduction Sleeves HS 1 1/4"-CF							
● R1931.12703	HS 1 1/4"-CF / 1/2"	1.250	0.5000	1.417	2.362	1.772	0.157
● R1931.15883	HS 1 1/4"-CF / 5/8"	1.250	0.6250	1.417	2.362	1.811	0.157
● R1931.19053	HS 1 1/4"-CF / 3/4"	1.250	0.7500	1.417	2.362	1.969	0.157
● R1931.25403	HS 1 1/4"-CF / 1"	1.250	1.000	1.417	2.362	2.205	0.157

Reduction Sleeves mm to inch							
Part no.	Item description	D2 mm	D1 inch	D3 mm	L1 mm	L2 mm	L3 mm
Reduction Sleeves HS 12							
● R1912.03181	HS 12 / 1/8"	12	0.1250	16	40	29	4
● R1912.04761	HS 12 / 3/16"	12	0.1875	16	40	29	4
● R1912.06351	HS 12 / 1/4"	12	0.2500	16	40	29	4
● R1912.07941	HS 12 / 5/16"	12	0.3125	16	40	36	4
● R1912.09521	HS 12 / 3/8"	12	0.3750	16	40	37	4
Reduction Sleeves HS 20							
● R1920.03181	HS 20 / 1/8"	20	0.1250	25	50	28	4
● R1920.04761	HS 20 / 3/16"	20	0.1875	25	50	28	4
● R1920.06351	HS 20 / 1/4"	20	0.2500	25	50	36	4
● R1920.07941	HS 20 / 5/16"	20	0.3125	25	50	37	4
● R1920.09521	HS 20 / 3/8"	20	0.3750	25	50	36	4
● R1920.11111	HS 20 / 7/16"	20	0.4375	25	50	40	4
● R1920.12701	HS 20 / 1/2"	20	0.5000	25	50	45	4
● R1920.14291	HS 20 / 9/16"	20	0.5625	25	50	45	4
● R1920.15881	HS 20 / 5/8"	20	0.6250	25	50	48	4
Reduction Sleeves HS 25							
● R1925.03181	HS 25 / 1/8"	25	0.1250	30	56	29	4
○ R1925.04761	HS 25 / 3/16"	25	0.1875	30	56	29	4
● R1925.06351	HS 25 / 1/4"	25	0.2500	30	56	37	4
● R1925.07941	HS 25 / 5/16"	25	0.3125	30	56	37	4
● R1925.09521	HS 25 / 3/8"	25	0.3750	30	56	38	4
○ R1925.11111	HS 25 / 7/16"	25	0.4375	30	56	40	4
● R1925.12701	HS 25 / 1/2"	25	0.5000	30	56	46	4
○ R1925.14291	HS 25 / 9/16"	25	0.5625	30	56	47	4
● R1925.15881	HS 25 / 5/8"	25	0.6250	30	56	48	4
● R1925.17461	HS 25 / 11/16"	25	0.6875	30	56	48	4
● R1925.19051	HS 25 / 3/4"	25	0.7500	30	56	48	4
○ R1925.20631	HS 25 / 13/16"	25	0.8125	30	56	50	4
Reduction Sleeves HS 32							
○ R1932.04761	HS 32 / 3/16"	32	0.1875	36	60	29	4
● R1932.06351	HS 32 / 1/4"	32	0.2500	36	60	36	4
○ R1932.07941	HS 32 / 5/16"	32	0.3125	36	60	36	4
● R1932.09521	HS 32 / 3/8"	32	0.3750	36	60	37	4
○ R1932.11111	HS 32 / 7/16"	32	0.4375	36	60	45	4
● R1932.12701	HS 32 / 1/2"	32	0.5000	36	60	45	4
○ R1932.14291	HS 32 / 9/16"	32	0.5625	36	60	46	4
● R1932.15881	HS 32 / 5/8"	32	0.6250	36	60	46	4
● R1932.17461	HS 32 / 11/16"	32	0.6875	36	60	48	4
● R1932.19051	HS 32 / 3/4"	32	0.7500	36	60	50	4
○ R1932.20631	HS 32 / 13/16"	32	0.8125	36	60	50	4
● R1932.22221	HS 32 / 7/8"	32	0.8750	36	60	50	4
○ R1932.23811	HS 32 / 15/16"	32	0.9375	36	60	52	4
● R1932.25401	HS 32 / 1"	32	1.000	36	60	56	4

Reduction Sleeves mm to mm

Reduction Sleeves mm to mm							
Part no.	Item description	D2 mm	D1 mm	D3 mm	L1 mm	L2 mm	L3 mm
Reduction Sleeves HS 12-MB (Micro Bore)							
○ R1912.01009	HS 12-MB / 1 mm	12	1.000	16	40	20	4
○ R1912.01509	HS 12-MB / 1,5 mm	12	1.500	16	40	20	4
○ R1912.02009	HS 12-MB / 2 mm	12	2.000	16	40	20	4
○ R1912.02509	HS 12-MB / 2,5 mm	12	2.500	16	40	20	4
Reduction Sleeves HS 6							
○ R1906.01000	HS 6 / 1 mm	6	1	9	27		3
○ R1906.02000	HS 6 / 2 mm	6	2	9	27		3
○ R1906.03000	HS 6 / 3 mm	6	3	9	27		3
○ R1906.04000	HS 6 / 4 mm	6	4	9	27		3
Reduction Sleeves HS 8							
○ R1908.06000	HS 8 / 6 mm	8	6	11	27		3
Reduction Sleeves HS 12							
● R1912.03000	HS 12 / 3 mm	12	3.000	16	40	29	4
● R1912.04000	HS 12 / 4 mm	12	4.000	16	40	29	4
● R1912.05000	HS 12 / 5 mm	12	5.000	16	40	29	4
● R1912.06000	HS 12 / 6 mm	12	6.000	16	40	36	4
● R1912.07000	HS 12 / 7 mm	12	7.000	16	40	37	4
● R1912.08000	HS 12 / 8 mm	12	8.000	16	40	37	4
● R1912.09000	HS 12 / 9 mm	12	9.000	16	40	37	4
● R1912.10000	HS 12 / 10 mm	12	10.000	16	40	40	4
Reduction Sleeves HS 12-CF							
● R1912.03002	HS 12-CF / 3 mm	12	3.000	16	40	29	4
● R1912.04002	HS 12-CF / 4 mm	12	4.000	16	40	29	4
● R1912.05002	HS 12-CF / 5 mm	12	5.000	16	40	29	4
● R1912.06002	HS 12-CF / 6 mm	12	6.000	16	40	36	4
● R1912.08002	HS 12-CF / 8 mm	12	8.000	16	40	37	4
Reduction Sleeves HS 20							
● R1920.03000	HS 20 / 3 mm	20	3.000	25	50	28	4
● R1920.04000	HS 20 / 4 mm	20	4.000	25	50	28	4
● R1920.05000	HS 20 / 5 mm	20	5.000	25	50	28	4
● R1920.06000	HS 20 / 6 mm	20	6.000	25	50	36	4
● R1920.07000	HS 20 / 7 mm	20	7.000	25	50	38	4
● R1920.08000	HS 20 / 8 mm	20	8.000	25	50	37	4
● R1920.09000	HS 20 / 9 mm	20	9.000	25	50	38	4
● R1920.10000	HS 20 / 10 mm	20	10.000	25	50	40	4
● R1920.11000	HS 20 / 11 mm	20	11.000	25	50	40	4
● R1920.12000	HS 20 / 12 mm	20	12.000	25	50	45	4
● R1920.13000	HS 20 / 13 mm	20	13.000	25	50	45	4
● R1920.14000	HS 20 / 14 mm	20	14.000	25	50	45	4
● R1920.15000	HS 20 / 15 mm	20	15.000	25	50	45	4
● R1920.16000	HS 20 / 16 mm	20	16.000	25	50	48	4
● R1920.18000	HS 20 / 18 mm	20	18.000	25	50	48	4

Reduction Sleeves mm to mm							
Part no.	Item description	D2 mm	D1 mm	D3 mm	L1 mm	L2 mm	L3 mm
Reduction Sleeves HS 20-CF							
● R1920.03002	HS 20-CF / 3 mm	20	3.000	25	50	28	4
● R1920.04002	HS 20-CF / 4 mm	20	4.000	25	50	28	4
● R1920.05002	HS 20-CF / 5 mm	20	5.000	25	50	28	4
● R1920.06002	HS 20-CF / 6 mm	20	6.000	25	50	36	4
● R1920.08002	HS 20-CF / 8 mm	20	8.000	25	50	37	4
● R1920.10002	HS 20-CF / 10 mm	20	10.000	25	50	40	4
● R1920.12002	HS 20-CF / 12 mm	20	12.000	25	50	45	4
● R1920.14002	HS 20-CF / 14 mm	20	14.000	25	50	45	4
● R1920.16002	HS 20-CF / 16 mm	20	16.000	25	50	48	4
Reduction Sleeves HS 25							
● R1925.03000	HS 25 / 3 mm	25	3.000	30	56	29	4
● R1925.04000	HS 25 / 4 mm	25	4.000	30	56	29	4
● R1925.05000	HS 25 / 5 mm	25	5.000	30	56	29	4
● R1925.06000	HS 25 / 6 mm	25	6.000	30	56	37	4
● R1925.07000	HS 25 / 7 mm	25	7.000	30	56	37	4
● R1925.08000	HS 25 / 8 mm	25	8.000	30	56	37	4
● R1925.09000	HS 25 / 9 mm	25	9.000	30	56	38	4
● R1925.10000	HS 25 / 10 mm	25	10.000	30	56	40	4
● R1925.12000	HS 25 / 12 mm	25	12.000	30	56	46	4
● R1925.14000	HS 25 / 14 mm	25	14.000	30	56	47	4
● R1925.16000	HS 25 / 16 mm	25	16.000	30	56	48	4
● R1925.18000	HS 25 / 18 mm	25	18.000	30	56	48	4
● R1925.20000	HS 25 / 20 mm	25	20.000	30	56	50	4
Reduction Sleeves HS 32							
○ R1932.03000	HS 32 / 3 mm	32	3.000	36	60	29	4
○ R1932.04000	HS 32 / 4 mm	32	4.000	36	60	29	4
○ R1932.05000	HS 32 / 5 mm	32	5.000	36	60	29	4
● R1932.06000	HS 32 / 6 mm	32	6.000	36	60	36	4
● R1932.07000	HS 32 / 7 mm	32	7.000	36	60	37	4
● R1932.08000	HS 32 / 8 mm	32	8.000	36	60	36	4
● R1932.09000	HS 32 / 9 mm	32	9.000	36	60	37	4
● R1932.10000	HS 32 / 10 mm	32	10.000	36	60	40	4
○ R1932.11000	HS 32 / 11 mm	32	11.000	36	60	40	4
● R1932.12000	HS 32 / 12 mm	32	12.000	36	60	45	4
● R1932.13000	HS 32 / 13 mm	32	13.000	36	60	45	4
● R1932.14000	HS 32 / 14 mm	32	14.000	36	60	46	4
○ R1932.15000	HS 32 / 15 mm	32	15.000	36	60	46	4
● R1932.16000	HS 32 / 16 mm	32	16.000	36	60	48	4
● R1932.17000	HS 32 / 17 mm	32	17.000	36	60	48	4
● R1932.18000	HS 32 / 18 mm	32	18.000	36	60	49	4
○ R1932.19000	HS 32 / 19 mm	32	19.000	36	60	49	4
● R1932.20000	HS 32 / 20 mm	32	20.000	36	60	50	4
● R1932.22000	HS 32 / 22 mm	32	22.000	36	60	50	4
● R1932.25000	HS 32 / 25 mm	32	25.000	36	60	56	4
Reduction Sleeves HS 32-CF							
○ R1932.06002	HS 32-CF / 6 mm	32	6.000	36	60	36	4
○ R1932.08002	HS 32-CF / 8 mm	32	8.000	36	60	36	4
○ R1932.10002	HS 32-CF / 10 mm	32	10.000	36	60	40	4
○ R1932.12002	HS 32-CF / 12 mm	32	12.000	36	60	45	4
○ R1932.14002	HS 32-CF / 14 mm	32	14.000	36	60	46	4
○ R1932.16002	HS 32-CF / 16 mm	32	16.000	36	60	48	4
○ R1932.18002	HS 32-CF / 18 mm	32	18.000	36	60	49	4
○ R1932.20002	HS 32-CF / 20 mm	32	20.000	36	60	50	4
○ R1932.25002	HS 32-CF / 25 mm	32	25.000	36	60	56	4