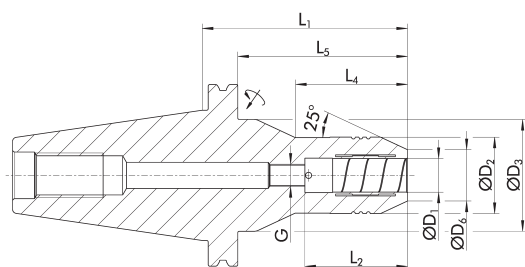


TENDO WZS



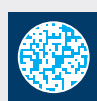
Run-out accuracy
< 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Short set-up time



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

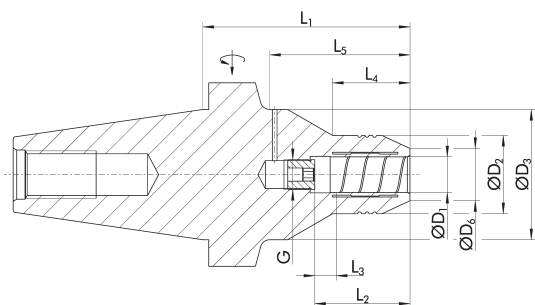
Technical data

ID	D1 [mm]	D2 [mm]	D3 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	G	Mmin [Nm]	Weight [kg]	
0219221	6 mm	32	60	15	110	43	55	90.9	M5	4	3.6	9205640
0219222	8 mm	33.5	60	17	110	43	55	90.9	M6	7	3.6	9205640
0219223	10 mm	35	60	19	110	43	55	90.9	M8x1	14	3.7	9205640
0219224	12 mm	36.5	60	21.5	110	50	55	90.9	M8x1	22	3.7	9205640
0219229	14 mm	38	60	23.5	110	50	60	90.9	M10x1	35	3.7	9205640
0219225	16 mm	39.5	60	25.5	110	53	60	90.9	M12x1	50	3.8	9205640
0219220	18 mm	41	60	27.5	110	53	60	90.9	M12x1	70	3.8	9205640
0219226	20 mm	42	70	28	110	95	47	90.9	M16x1	90	3.9	9205640
0219227	22 mm	44	70	30	110	95	49	90.9	M16x1	100	3.9	9205640
0219228	32 mm	54	70	40	110	95	62.5	90.9	M16x1	250	4	9205640

*Run-out accuracy: at 2.5 x D

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request



Run-out accuracy
< 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Short set-up time



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

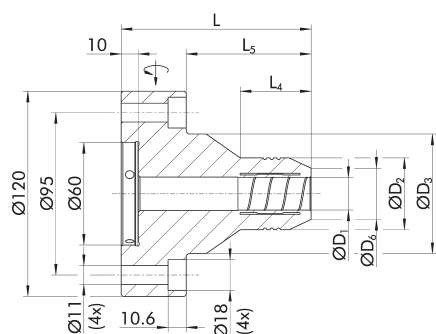
Technical data

ID	D1 [Inch]	D2 [mm]	D3 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	G	Mmin [Nm]	Weight [kg]	
28000629	3/8"	30.5	69.85	16	111	44.8	10	35	79	M6	11	2.7	9205640
28000630	1/2"	36	69.85	20	111	46	10	37	79	M10x1	30	2.7	9205640
28000631	5/8"	36.8	69.85	22	111	47.5	10	39	79	M10x1	50	2.7	9205640
28000632	3/4"	42	69.85	28	111	52	10	41	79	M16x1	80	2.8	9205640
28000633	7/8"	45.2	69.85	31	111	52	10	41	79	M16x1	100	2.8	9205640
28000634	1"	48	69.85	34	111	63	10	52	79	M16x1	180	2.8	9205640
28000635	1 1/4"	54	69.85	40	111	63	10	55.5	79	M16x1	250	4.4	9205640

*Run-out accuracy: at 2.5 x D

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request



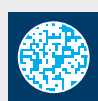
Run-out accuracy
< 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Short set-up time



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

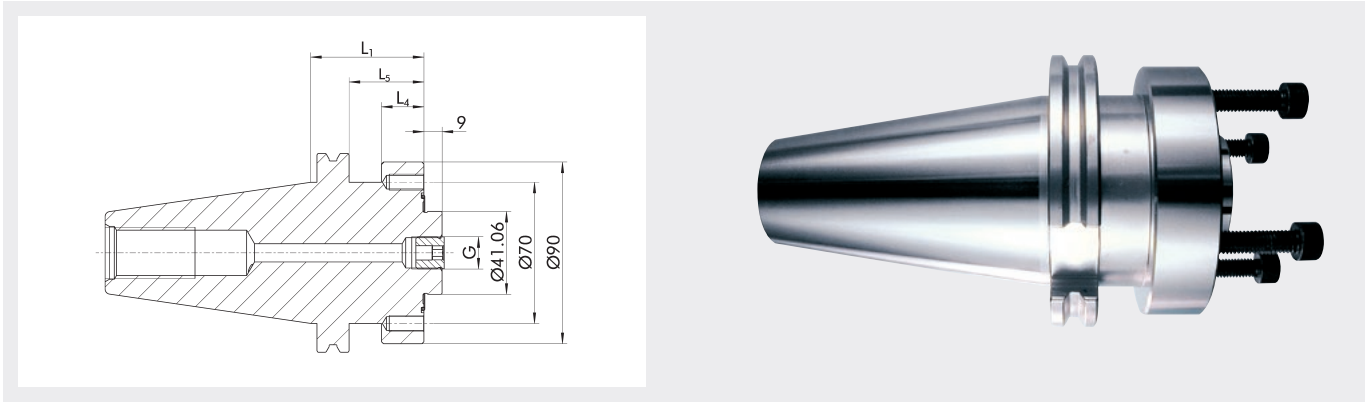
Technical data

ID	D1 [mm/Inch]	D2 [mm]	D3 [mm]	D6 [mm]	L [mm]	L2 [mm]	L4 [mm]	L5 [mm]	Mmin [Nm]	Weight [kg]	
28000061	20 mm	54		40.7	72	72	44		90	1.9	9205650
28000062	32 mm	54		52.2	82	82	54		250	1.9	9205660
28003756	12 mm	36.5	70	21.5	111		41	73	22	3	9205640
28003757	20 mm	42	70	28	111		47.4	73	90	3	9205640
28003758	32 mm	54	70	40	111		55	73	250	3	9205640
28000056	3/4"	54		40.7	72	72	44		80	1.9	9205650
28000057	1"	54		46.7	75	75	47		180	1.9	9205660
28000059	1 1/4"	54		52.2	82	82	54		250	1.9	9205660
28003746	1/2"	36	70	20	111		37	73	30	3	9205640
28003747	3/4"	42	70	28	111		41	73	80	3	9205640
28003748	1 1/4"	54	70	40	111		55	73	250	3	9205640

*Run-out accuracy: at 2.5 x D

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request



Short set-up time



Data carrier hole
optionally possible

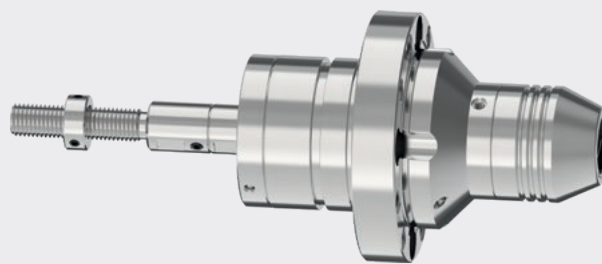
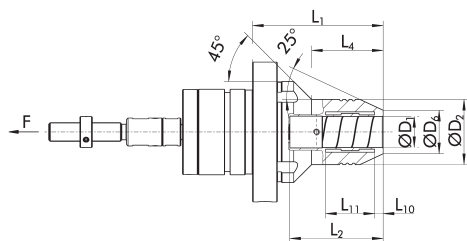


Internal cooling
up to 80 bar

Technical data

ID	Interface	L1 [mm]	L4 [mm]	L5 [mm]	G	Weight [kg]
28000184	CAT 40	54	19	35	M16x1	2.021
28000185	CAT 50	56	21	37	M16x1	4.166

Additional sizes and customized designs are available upon request



Run-out accuracy
< 0.003 mm*



Balancing grade



Short set-up time



Optimized interfering contours

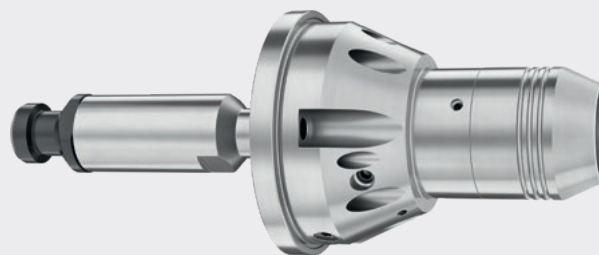
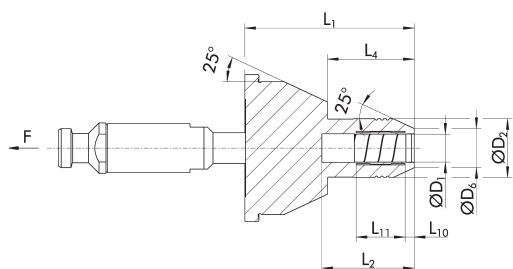


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L10 [mm]	L11 [mm]	Weight [kg]
20059729	12 mm	36.5	21.5	84	60	43	5.5	31.1	2.3
20056776	20 mm	42	28	84	60	46	5.5	31.5	2.3
20060231	25 mm	47	33	84	60	48.5	5.5	35	2.3
20063191	32 mm	54	40	90	70	56	5.5	42	2.4

*Run-out accuracy: at 2.5 x D



Run-out accuracy
< 0.003 mm*



Balancing grade



Short set-up time



Optimized interfering contours

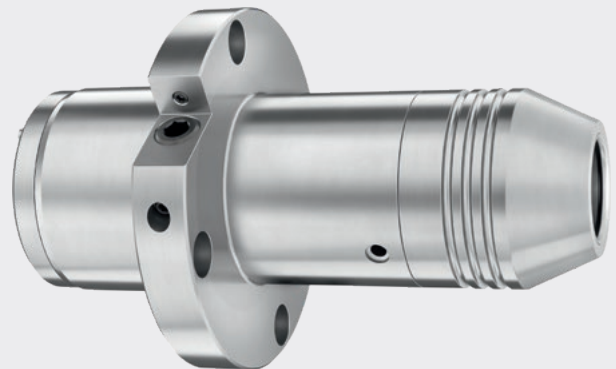
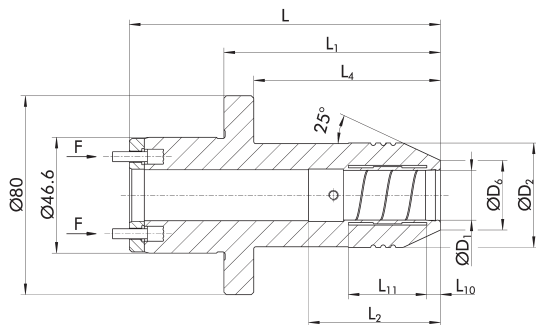


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L10 [mm]	L11 [mm]	Weight [kg]
0206746	12 mm	36.5	21.5	111	50	52	5.5	32.1	3.3
0206747	20 mm	42	28	121	60	62	5.5	31.5	3.4
0206748	22 mm	44	30	126	60	62	5.5	35.5	3.5
0206749	32 mm	54	40	131	70	72	6	42.5	3.8

*Run-out accuracy: at 2.5 x D



Run-out accuracy
< 0.003 mm*



Balancing grade



Short set-up time



Optimized interfering contours

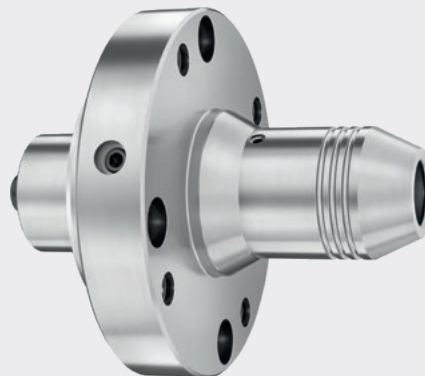
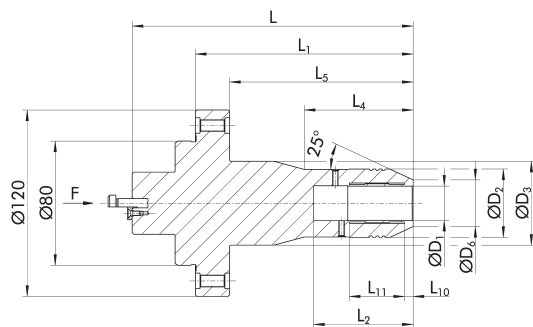


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L10 [mm]	L11 [mm]	Weight [kg]
0206766	12 mm	36.5	21.5	125	87		75	5.5	32.1	1.3
0206767	20 mm	42	28	125	87		75	5.5	31.5	1.4
0206768	22 mm	44	30	125	87	61	75	5.5	35.5	1.5
0206769	32 mm	54	40	125	87	61	75	6	42.5	1.6

*Run-out accuracy: at 2.5 x D



Run-out accuracy
 $< 0.003 \text{ mm}^*$



Balancing grade



Short set-up time



Optimized interfering contours

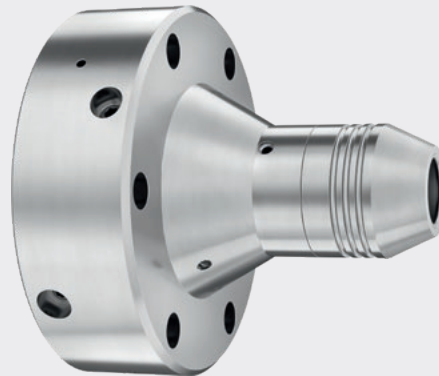
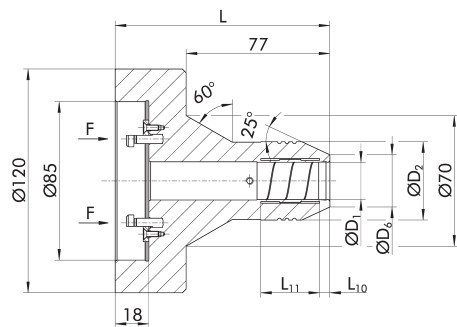


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D3 [mm]	D6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L10 [mm]	L11 [mm]	Weight [kg]
0206671	12 mm	36.5	54	21.5	130.6	90	64	47	68	5.5	32.1	3.12
0206660	12 mm	36.5	54	21.5	180.6	140	64	70	118	5.5	32.1	3.7
0206672	20 mm	42	54	28	130.6	90	64	53	68	5.5	31.5	3.12
0206661	20 mm	42	54	28	180.6	140	64	70	118	5.5	31.5	3.85
0206673	22 mm	44	54	30	130.6	90	64	53	68	5.5	35.5	3.15
0206662	22 mm	44	54	30	180.6	140	64	70	118	5.5	35.5	3.9
0206674	32 mm	54		40	130.6	90	70		68	6	42.5	3.22
0206663	32 mm	54		40	180.6	140	70		118	6	42.5	4.1

*Run-out accuracy: at $2.5 \times D$



Run-out accuracy
 $< 0.003 \text{ mm}^*$



Balancing grade



Short set-up time



Optimized interfering contours

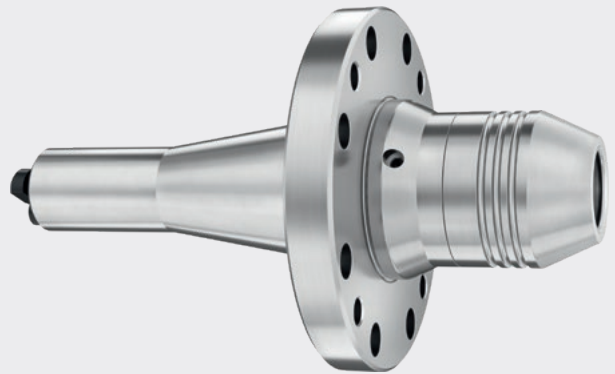
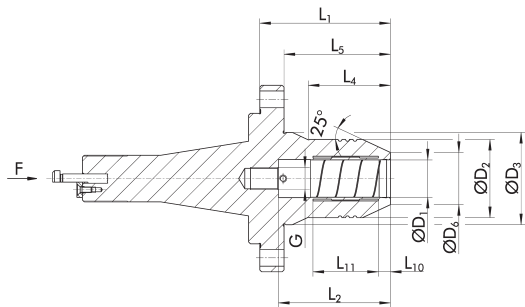


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D6 [mm]	L [mm]	L10 [mm]	L11 [mm]	Weight [kg]
0206696	12 mm	36.5	21.5	115	5.5	32.1	3.2
0206697	20 mm	42	28	115	5.5	31.5	3.3
0206698	22 mm	44	30	115	5.5	35.5	3.4
0206699	32 mm	54	40	115	6	42.5	3.5

*Run-out accuracy: at 2.5 x D



Run-out accuracy
< 0.003 mm*



Balancing grade



Short set-up time



**Optimized interfering
ring contours**

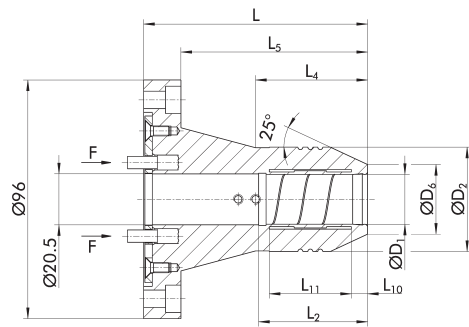


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D3 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L10 [mm]	L11 [mm]	G	Weight [kg]
0206645	12 mm	36.5	45	21.5	59	50	33	46	5.5	25.6	M8x1	1.6
0206646	20 mm	42	49.5	28	70	60	44	57	5.5	31.5	M12x1	1.8
0206647	22 mm	44	53	30	77	70	45	64	5.5	35.5	M12x1	1.9
0206648	32 mm	54	57	40	82	75	59	69	6	42.5	M12x1	2.1

*Run-out accuracy: at 2.5 x D



Run-out accuracy
 $< 0.003 \text{ mm}^*$



Balancing grade



Short set-up time



Optimized interfering contours

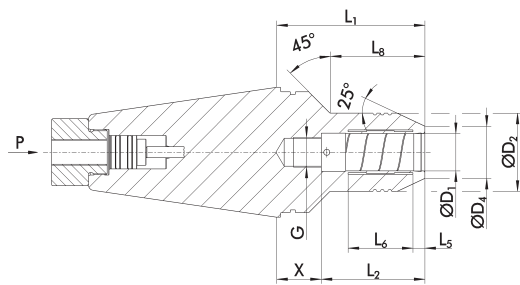


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D6 [mm]	L [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L10 [mm]	L11 [mm]	Weight [kg]
0206686	12 mm	36.5	21.5	90		39	75	5.5	32.1	1.3
0206687	20 mm	42	28	90		45	73	5.5	31.5	1.4
0206688	22 mm	44	30	90	70	45	75	5.5	35.5	1.5
0206689	32 mm	54	40	90	70	58	75	6	42.5	1.6

*Run-out accuracy: at $2.5 \times D$



Run-out accuracy
 $< 0.003 \text{ mm}^*$



Balancing grade



Short set-up time



Optimized interfering contours

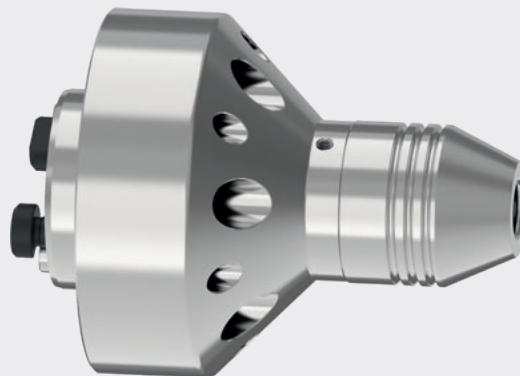
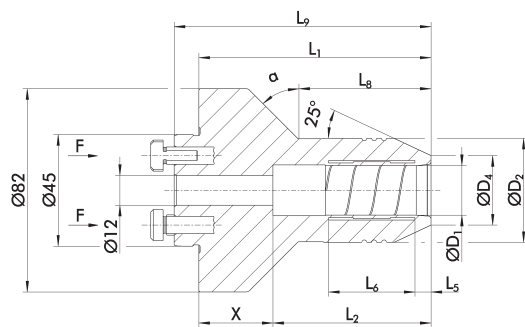


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D4 [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	X [mm]	G	Weight [kg]
0206626	12 mm	36.5	21.5	80	54	5.5	25.6	53	26	M8x1	2.9
0206627	20 mm	42	28	80	56.5	5.5	31.5	56.5	23.5	M10x1	3.1
0206628	22 mm	44	30	80	54	5.5	35.5	56.5	26	M10x1	3.2
0206629	32 mm	54	40	80.5	69.5	6	42.5	62.5	24	M10x1	3.3

*Run-out accuracy: at $2.5 \times D$



Run-out accuracy
 $< 0.003 \text{ mm}^*$



Balancing grade



Short set-up time



Optimized interfering contours

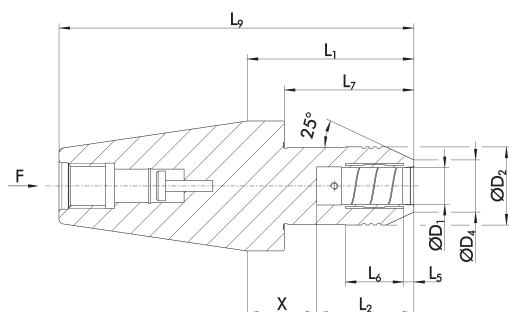


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D4 [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	X [mm]	α [°]	Weight [kg]
0206776	12 mm	36.5	21.5	94	62	5.5	32.1	45	104	32	45	1.7
0206777	20 mm	42	38	94	62	5.5	31.5	47	104	32	45	1.8
0206778	22 mm	44	30	94	62	5.5	35.5	47	104	32	45	1.9
0206779	32 mm	54	40	94	62	6	42.5	69	104	32	90	2

*Run-out accuracy: at 2.5 x D



Run-out accuracy
 $< 0.003 \text{ mm}^*$



Balancing grade



Short set-up time



Optimized interfering contours

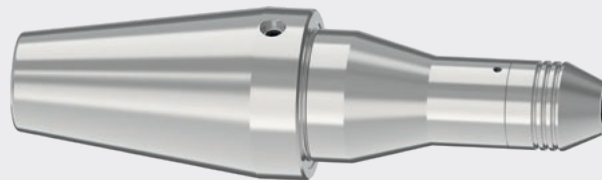
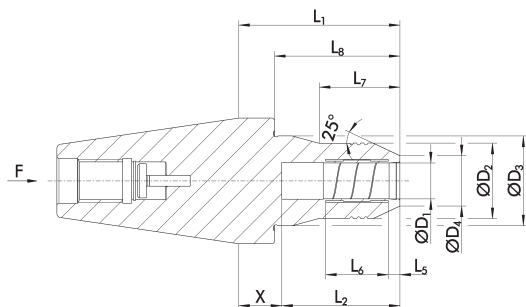


Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D4 [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L9 [mm]	X [mm]	Weight [kg]
0206676	12 mm	36.5	21.5	90	52.5	5.5	32.1	70	191.6	37.5	2.7
0206677	20 mm	42	28	90	52.5	5.5	31.5	70	191.6	37.5	2.9
0206678	22 mm	44	30	90	55	5.5	35.5	70	191.6	37.5	3
0206679	32 mm	54	40	100	65	6	42.5	80	201.6	35	3.1

*Run-out accuracy: at $2.5 \times D$



Run-out accuracy
< 0.003 mm*



Balancing grade



Short set-up time



Optimized interfering contours



Internal cooling

Technical data

ID	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	X [mm]	Weight [kg]
0206606	12 mm	36.5		21.5	90	50	5.5	32.1		70	40	2.7
0206607	20 mm	42		28	90	64	5.5	31.5		70	26	2.9
0206608	22 mm	44		30	90	64	5.5	35.5		70	26	3
0206609	32 mm	54		40	90	70	6	42.5		70	20	3.1
0206616	12 mm	36.5	54	21.5	140	50	5.5	32.1	70	120	90	3.4
0206617	20 mm	42	54	28	140	64	5.5	31.5	70	120	76	3.6
0206618	22 mm	44	54	30	140	64	5.5	35.5	70	120	76	3.7
0206619	32 mm	54		40	140	70	6	42.5		120	70	3.8

*Run-out accuracy: at 2.5 x D



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