



C|E|L|S|I|O

Efficient. Radially rigid. Slim.

CELSIO is a heat-shrinking system that is suitable for different shrinking devices. It uses induction heat from eddy currents to heat the heat shrinking toolholder, which clamps the tool shank firmly. The unit of toolholder and tool forms an almost homogeneous connection. The Cool Flow variant of the CELSIO toolholder has integrated cooling channels that can be closed with M3 screws to direct the coolant directly to the cutting edge of the tool. The Dual Contact version offers a simultaneous taper and flat work surface for machines with a corresponding interface, closing the gap between the tool flange and the spindle face.

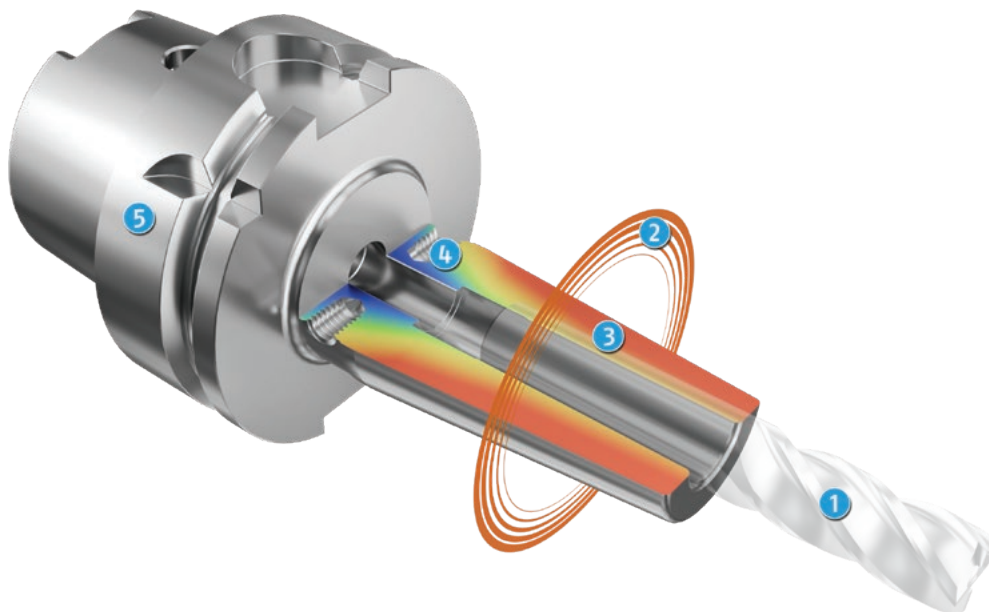


For milling, drilling and high-speed cutting



Advantages – Your benefits

- + High clamping forces**
Secure and friction-locked clamping for transmission of high torques
- + Good ratio between radial rigidity and interfering contour**
High machine-cutting performance, faster machining times and increased productivity are made possible
- + Toolholder for powerful metal cutting**
High-speed machining at machine speeds of up to 50,000 RPM and for use of HSS and HM tools
- + Run-out accuracy ≤ 0.003 mm measured according to DIN 69882-8 in the clamping bore**
Optimal surface results, high precision machining and safe processes due to a uniform cutting action and highest repeatability
- + Universally applicable**
Suitable for use in milling, finish milling, drilling or HSC machining
- + Dynamic form**
With long chucks, the reinforced shank offers an effective compromise between slimness and sturdiness
- + High level of flexibility**
Can be ideally combined with CELSIO SVL heat shrinking extensions



- ① Tool
- ② Eddy currents
- ③ Heated clamping diameter via induction coil
- ④ Thread for balancing screw
- ⑤ Base body

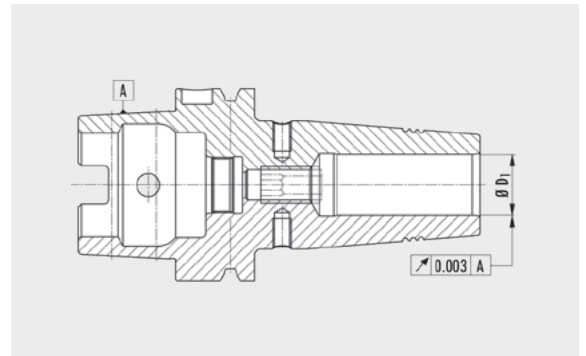
High flexibility due to the use of extensions

The CELSIO heat shrinking extensions with optimized interfering contours offer the universal solution for individual, hard-to-access type of machining cases. The CELSIO program offers optimal versatility through the nearly unlimited number of combination possibilities of heat shrinking toolholders and heat shrinking extensions.

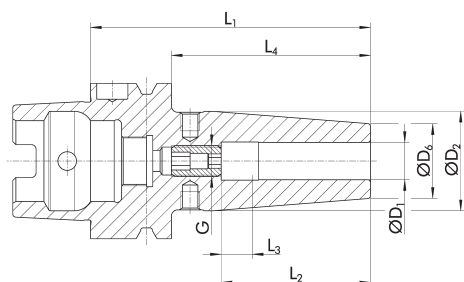


Run-out accuracy

The run-out accuracy of ≤ 0.003 mm is measured according to DIN 69882-8.



CELSIO HSK-A 40



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1458784	4.5°	3	17	12	60	13		40		4	0.2
1458785	4.5°	4	17	12	60	15		40		6	0.2
1458786	4.5°	5	17	12	60	15.5		40		8	0.2
0208100	4.5°	6	27	21	80	37	10	60	M5	20	0.4
0208101	4.5°	8	27	21	80	37	10	60	M6	50	0.4
0208102	4.5°	10	32	24	80	42	10	60	M8x1	70	0.4
0208103	4.5°	12	32	24	90	48	10	70	M10x1	150	0.5
0208104	4.5°	14	34	27	90	48	10	70	M10x1	180	0.5
0208105	4.5°	16	34	27	90	51	10	70	M12x1	300	0.5

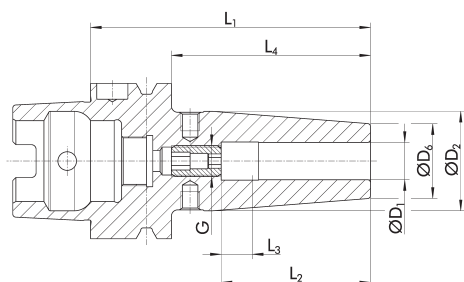
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 50



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1458793	4.5°	3	17	12	60	13		34		4	0.4
1458794	4.5°	4	17	12	60	15		34		6	0.4
1458795	4.5°	5	17	12	60	15.5		34		8	0.4
0208110	4.5°	6	27	21	80	37	10	54	M5	20	0.7
0208111	4.5°	8	27	21	80	37	10	54	M6	52	0.7
0208112	4.5°	10	32	24	85	42	10	59	M8x1	70	0.8
0208113	4.5°	12	32	24	90	48	10	64	M10x1	150	0.8
0208114	4.5°	14	34	27	90	48	10	64	M10x1	180	0.9
0208115	4.5°	16	34	27	95	51	10	69	M12x1	300	0.9
0208116	4.5°	18	42	33	95	51	10	69	M12x1	370	1
0208117	4.5°	20	42	33	100	53	10	74	M16x1	450	1

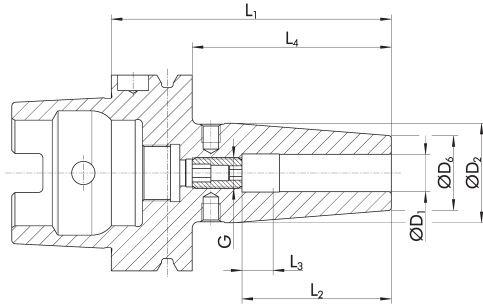
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 63



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1458801	4.5°	3	17	12	80	13		54		4	0.7
1458802	4.5°	4	17	12	80	15		54		6	0.7
1458803	4.5°	5	17	12	80	15.5		54		8	0.7
0208120	4.5°	6	27	21	80	37	10	54	M5	20	1
0208121	4.5°	8	27	21	80	37	10	54	M6	50	0.9
0208122	4.5°	10	32	24	85	42	10	59	M8x1	70	0.9
0208123	4.5°	12	32	24	90	48	10	64	M10x1	150	1
0208124	4.5°	14	34	27	90	48	10	64	M10x1	180	1
0208125	4.5°	16	34	27	95	51	10	69	M12x1	300	0.9
0208126	4.5°	18	42	33	95	51	10	69	M12x1	370	1.1
0208127	4.5°	20	42	33	100	53	10	74	M16x1	450	1.1
0208128	4.5°	25	53	44	115	59	10	89	M16x1	680	1.3
0208159	4.5°	32	53	44	120	63	10	94	M16x1	750	1.6

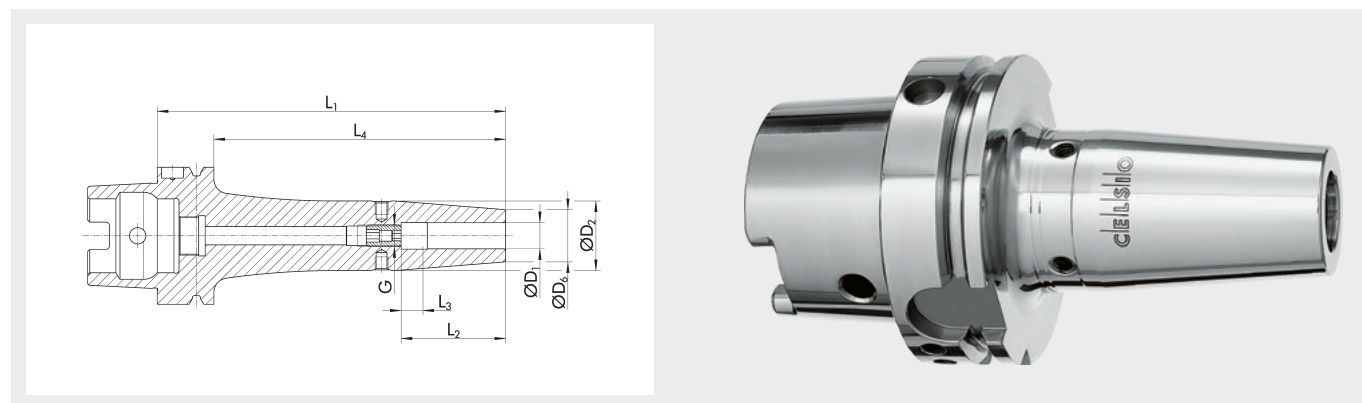
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 63 L₁ =120



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26001791	4.5°	3	17	12	120			94			0.9
26001792	4.5°	4	17	12	120			94			0.9
26000234	4.5°	5	17	12	120			94			0.9
28000022	4.5°	6	27	21	120	37	10	94	M5	20	1
28000023	4.5°	8	27	21	120	37	10	94	M6	50	1.1
28000024	4.5°	10	32	24	120	42	10	94	M8x1	70	1.1
28000025	4.5°	12	32	24	120	48	10	94	M10x1	150	1.2
28000026	4.5°	14	34	27	120	48	10	94	M10x1	180	1.2
28000027	4.5°	16	34	27	120	51	10	94	M12x1	300	1.3
28000028	4.5°	18	42	33	120	51	10	94	M12x1	370	1.3
28000029	4.5°	20	42	33	120	53	10	94	M16x1	450	1.4
1472661	4.5°	25	53	44	120	59	10	94	M16x1	680	1.8

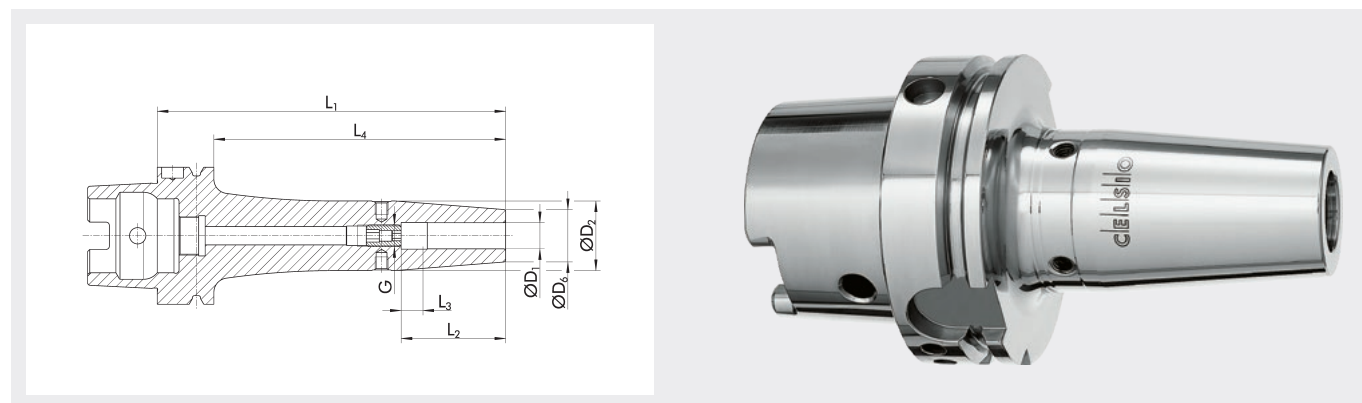
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 63 L₁ =120 schlank/slim



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Weight [kg]
23005013	Slim	6	30	15	120	37	10	94	M5	0.95
23005014	Slim	8	30	15	120	37	10	94	M6	0.95
23005015	Slim	10	33	18	120	42	10	94	M8x1	1.01
23005016	Slim	12	33	18	120	48	10	94	M10x1	1.1

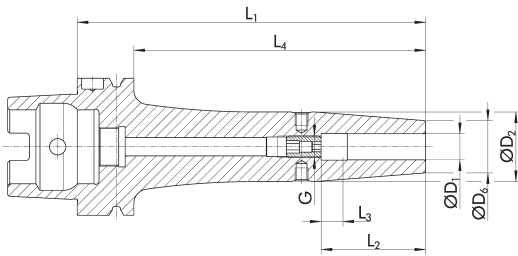
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 63 L₁ =130



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26002761	4.5°	3	17	12	130			104		4	0.82
26002762	4.5°	4	17	12	130			104		6	0.83
26002763	4.5°	5	17	12	130			104		8	0.83
0208130	4.5°	6	27	21	130	37	10	104	M5	20	1
0208131	4.5°	8	27	21	130	37	10	104	M6	50	1
0208132	4.5°	10	32	24	130	42	10	104	M8x1	70	1.2
0208133	4.5°	12	32	24	130	48	10	104	M10x1	150	1.1
0208134	4.5°	14	34	27	130	48	10	104	M10x1	180	1.2
0208135	4.5°	16	34	27	130	51	10	104	M12x1	300	1.2
0208136	4.5°	18	42	33	130	51	10	104	M12x1	370	1.5
0208137	4.5°	20	42	33	130	53	10	104	M16x1	450	1.4
0208138	4.5°	25	53	44	130	59	10	104	M16x1	680	2
1454450	4.5°	32	53	44	130	63	10	104	M16x1	750	1.85

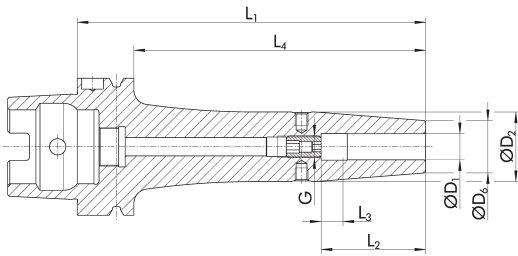
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 63 L₁ =160



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26000038	4.5°	3	21	12	160	13		134		4	0.7
26000039	4.5°	4	21	12	160	15		134		6	0.7
26000040	4.5°	5	21	12	160	15.5		134		8	0.7
0208140	4.5°	6	27	21	160	37	10	134	M5	20	1.4
0208141	4.5°	8	27	21	160	37	10	134	M6	50	1.3
0208142	4.5°	10	32	24	160	42	10	134	M8x1	70	1.5
0208143	4.5°	12	32	24	160	48	10	134	M10x1	150	1.5
0208144	4.5°	14	34	27	160	48	10	134	M10x1	180	1.6
0208145	4.5°	16	34	27	160	51	10	134	M12x1	300	1.7
0208146	4.5°	18	42	33	160	51	10	134	M12x1	370	1.8
0208147	4.5°	20	42	33	160	53	10	134	M16x1	450	1.8
0208148	4.5°	25	53	44	160	59	10	134	M16x1	680	1.9
0208149	4.5°	32	53	44	160	63	10	134	M16x1	750	1.8

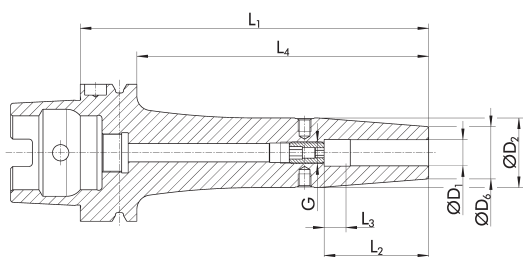
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 63 L₁ =200



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208150	4.5°	6	27	21	200	37	10	174	M5	20	1.6
0208151	4.5°	8	27	21	200	37	10	174	M6	50	1.6
0208152	4.5°	10	32	24	200	42	10	174	M8x1	70	1.7
0208153	4.5°	12	32	24	200	48	10	174	M10x1	150	1.7
0208154	4.5°	14	34	27	200	48	10	174	M10x1	180	1.8
0208155	4.5°	16	34	27	200	51	10	174	M12x1	300	1.9
0208156	4.5°	18	42	33	200	51	10	174	M12x1	370	1.9
0208157	4.5°	20	42	33	200	53	10	174	M16x1	450	2
0208158	4.5°	25	53	44	200	59	10	174	M16x1	680	2.2

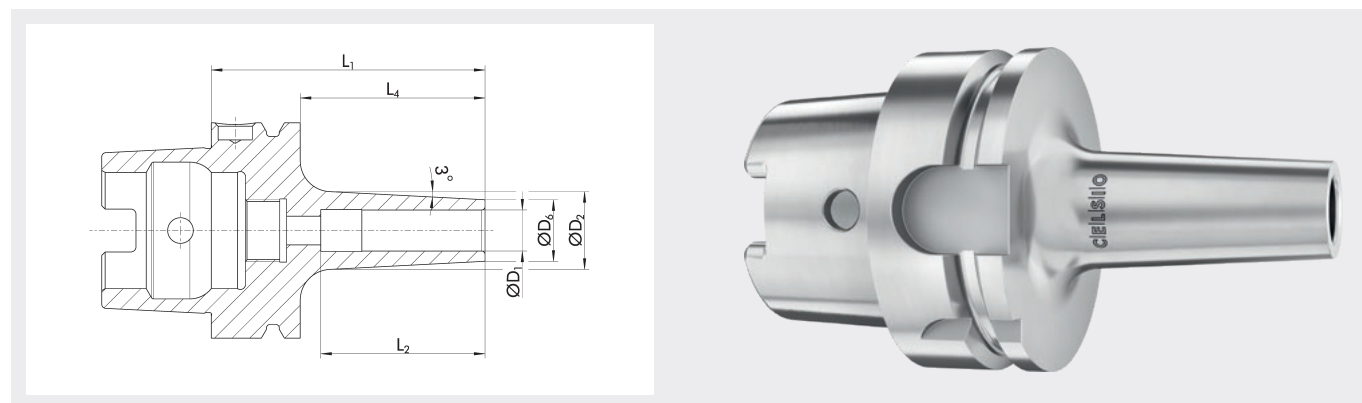
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-A 63



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
1313709	3°	3	14	9	80	13.5	54	0.71
1313713	3°	4	15	10	80	16	54	0.72
1313714	3°	5	16	11	80	16	54	0.72
26001894	3°	6	18	12	80	23	54	0.73
26001895	3°	8	20	14	80	37	54	0.74
26001896	3°	10	22	16	80	42	54	0.76
26001897	3°	12	24	18	80	48	54	0.77

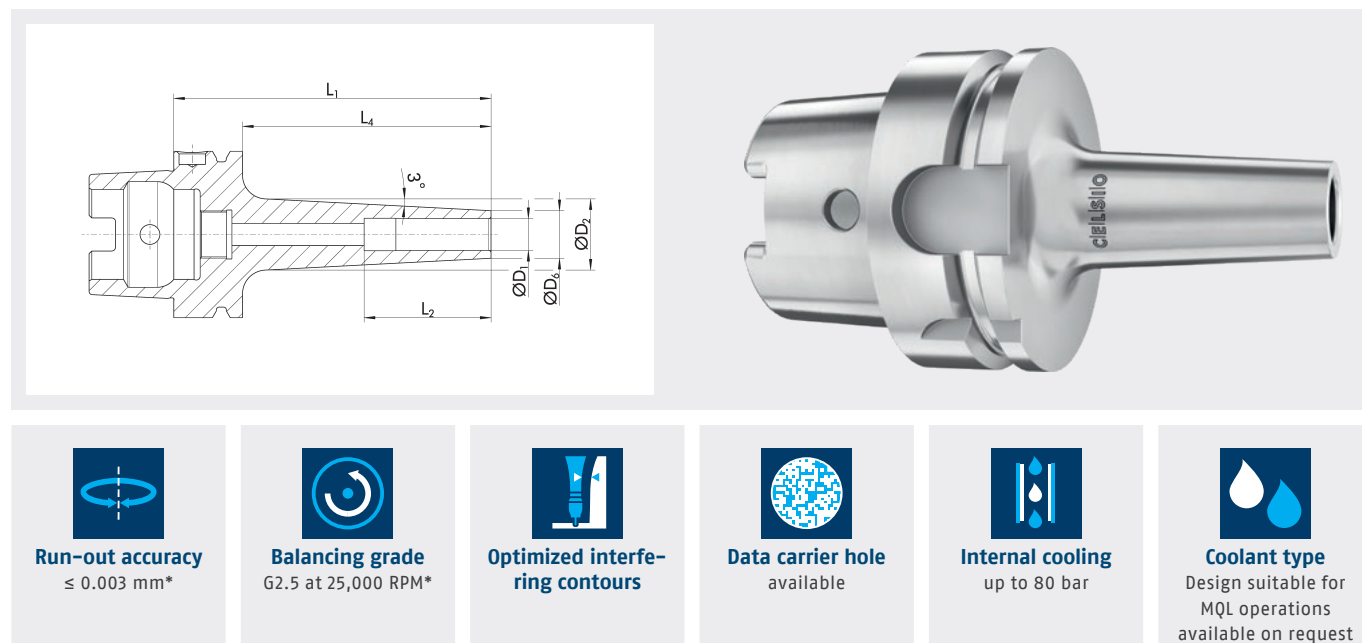
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-A 63 L₁ =120



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
1313715	3°	3	18	9	120	13.5	94	0.79
1313716	3°	4	19	10	120	16	94	0.81
1313717	3°	5	20	11	120	16	94	0.81
26001003	3°	6	22	12	120	23	94	0.83
26001004	3°	8	24	14	120	37	94	0.86
26001005	3°	10	26	16	120	42	94	0.9
26001006	3°	12	28	18	120	48	94	0.93

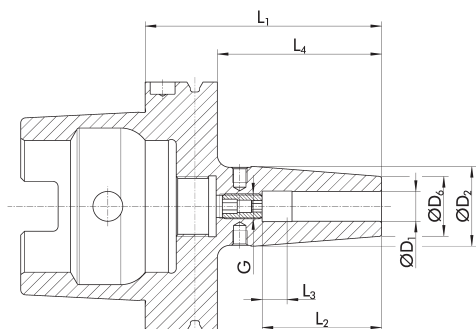
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 80



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208160	4.5°	6	27	21	85	37	10	59	M5	20	1.2
0208161	4.5°	8	27	21	85	37	10	59	M6	52	1.2
0208162	4.5°	10	32	24	90	42	10	64	M8x1	70	1.3
0208163	4.5°	12	32	24	95	48	10	69	M10x1	150	1.3
0208164	4.5°	14	34	27	95	48	10	69	M10x1	180	1.4
0208165	4.5°	16	34	27	100	51	10	74	M12x1	300	1.5
0208166	4.5°	18	42	33	100	51	10	74	M12x1	370	1.5
0208167	4.5°	20	42	33	105	53	10	79	M16x1	450	1.6
0208168	4.5°	25	53	44	115	59	10	89	M16x1	680	1.7
0208169	4.5°	32	53	44	120	63	10	94	M16x1	750	1.6

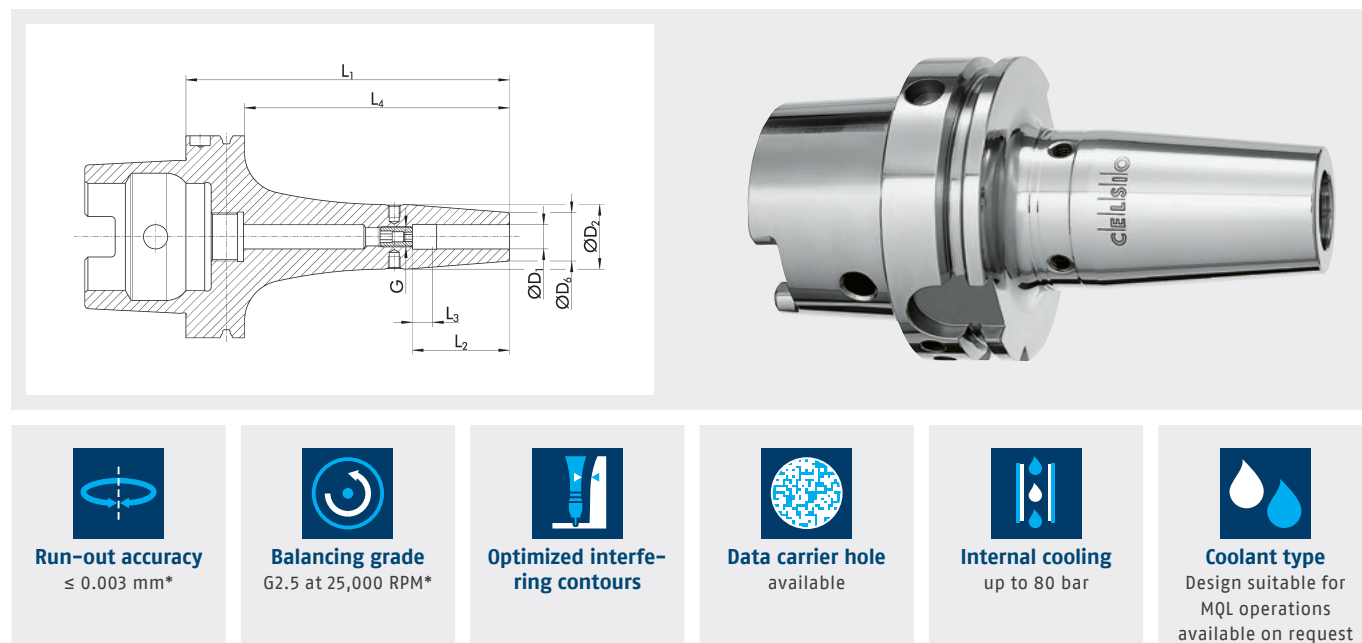
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 80 L₁ =160



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208180	4.5°	6	27	21	160	37	10	134	M5	20	1.8
0208181	4.5°	8	27	21	160	37	10	134	M6	52	1.8
0208182	4.5°	10	32	24	160	42	10	134	M8x1	70	2
0208183	4.5°	12	32	24	160	48	10	134	M10x1	150	1.95
0208185	4.5°	16	34	27	160	51	10	134	M12x1	300	2.1
0208187	4.5°	20	42	33	160	53	10	134	M16x1	450	2.3
0208178	4.5°	25	53	44	160	59	10	134	M16x1	680	2.9

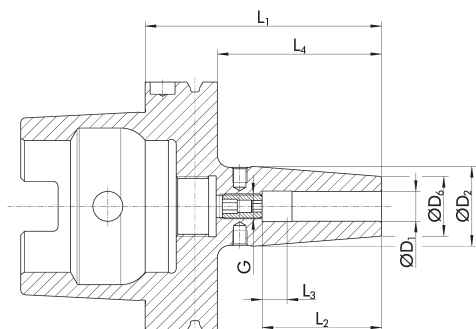
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 100



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208200	4.5°	6	27	21	85	36	10	56	M5	20	2.1
0208201	4.5°	8	27	21	85	36	10	56	M6	50	2.1
0208202	4.5°	10	32	24	90	42	10	61	M8x1	70	2.2
0208203	4.5°	12	32	24	95	47	10	66	M10x1	150	2.2
0208204	4.5°	14	34	27	95	47	10	66	M10x1	180	2.3
0208205	4.5°	16	34	27	100	50	10	71	M12x1	300	2.3
0208206	4.5°	18	42	33	100	50	10	71	M12x1	370	2.5
0208207	4.5°	20	42	33	105	52	10	76	M16x1	450	2.5
0208208	4.5°	25	53	44	115	58	10	86	M16x1	680	3.1
0208209	4.5°	32	53	44	120	62	10	91	M16x1	750	3.3

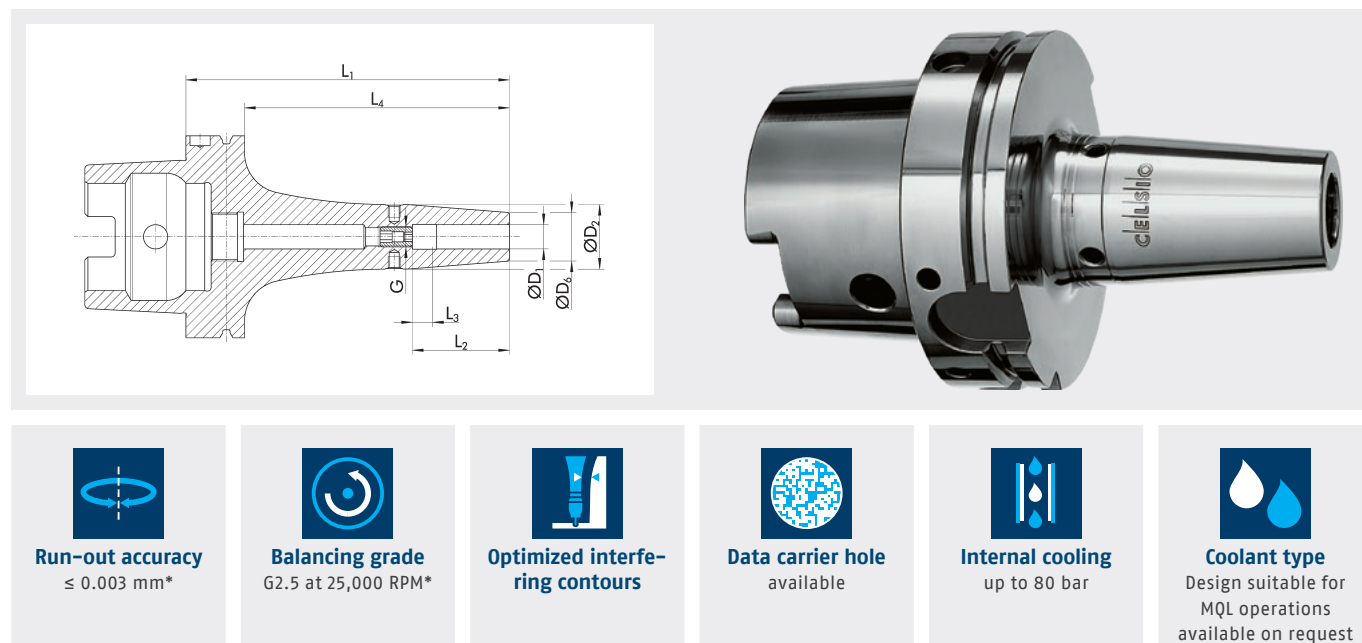
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 100 L₁ =130



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208210	4.5°	6	27	21	130	36	10	101	M5	20	2.5
0208211	4.5°	8	27	21	130	36	10	101	M6	50	2.5
0208212	4.5°	10	32	24	130	42	10	101	M8x1	70	2.5
0208213	4.5°	12	32	24	130	47	10	101	M10x1	150	2.5
0208214	4.5°	14	34	27	130	47	10	101	M10x1	180	2.6
0208215	4.5°	16	34	27	130	50	10	101	M12x1	300	2.6
0208216	4.5°	18	42	33	130	50	10	101	M12x1	370	2.7
0208217	4.5°	20	42	33	130	52	10	101	M16x1	450	3
26002389	4.5°	25	53	44	130	58	10	101	M16x1	680	3.3
1454827	4.5°	32	53	44	130	58	10	101	M16x1	680	3.3

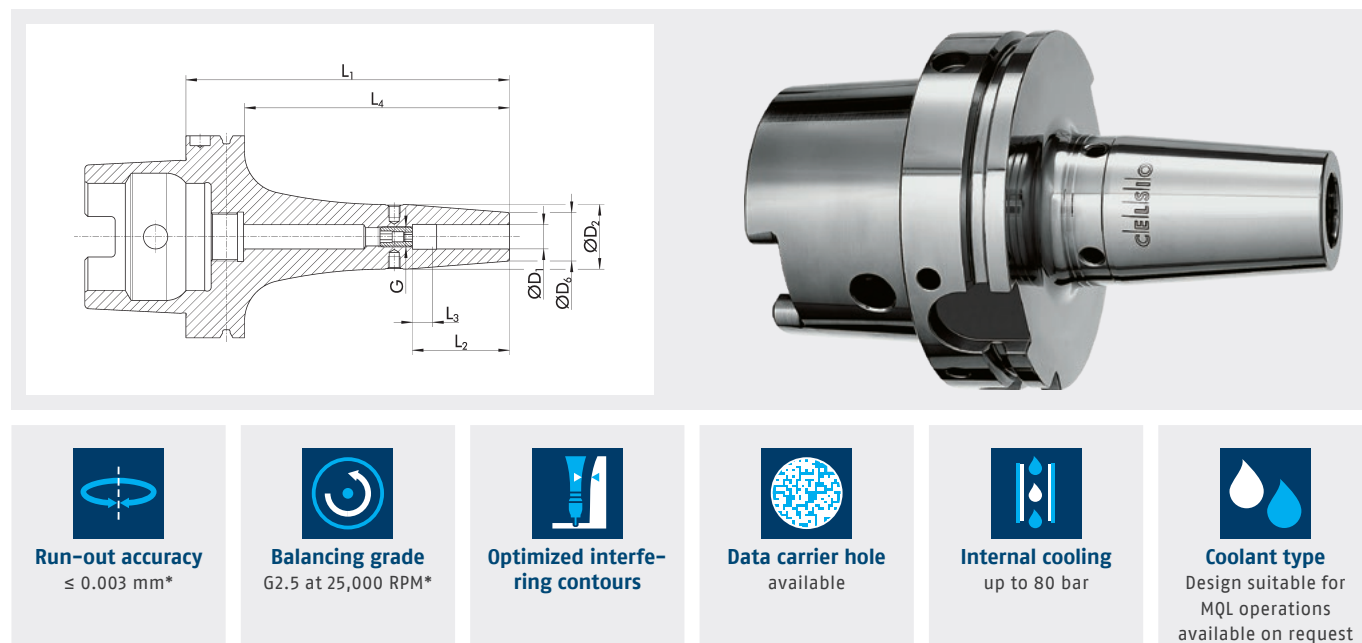
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 100 L₁ =160



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208220	4.5°	6	27	21	160	36	10	131	M5	20	2.5
0208221	4.5°	8	27	21	160	36	10	131	M6	50	2.5
0208222	4.5°	10	32	24	160	42	10	131	M8x1	70	2.9
0208223	4.5°	12	32	24	160	47	10	131	M10x1	150	2.8
0208224	4.5°	14	34	27	160	47	10	131	M10x1	180	3
0208225	4.5°	16	34	27	160	50	10	131	M12x1	300	3
0208226	4.5°	18	42	33	160	50	10	131	M12x1	370	3
0208227	4.5°	20	42	33	160	52	10	131	M16x1	450	3.3
0208228	4.5°	25	53	44	160	58	10	131	M16x1	680	3.6
0208229	4.5°	32	53	44	160	62	10	131	M16x1	750	3.3

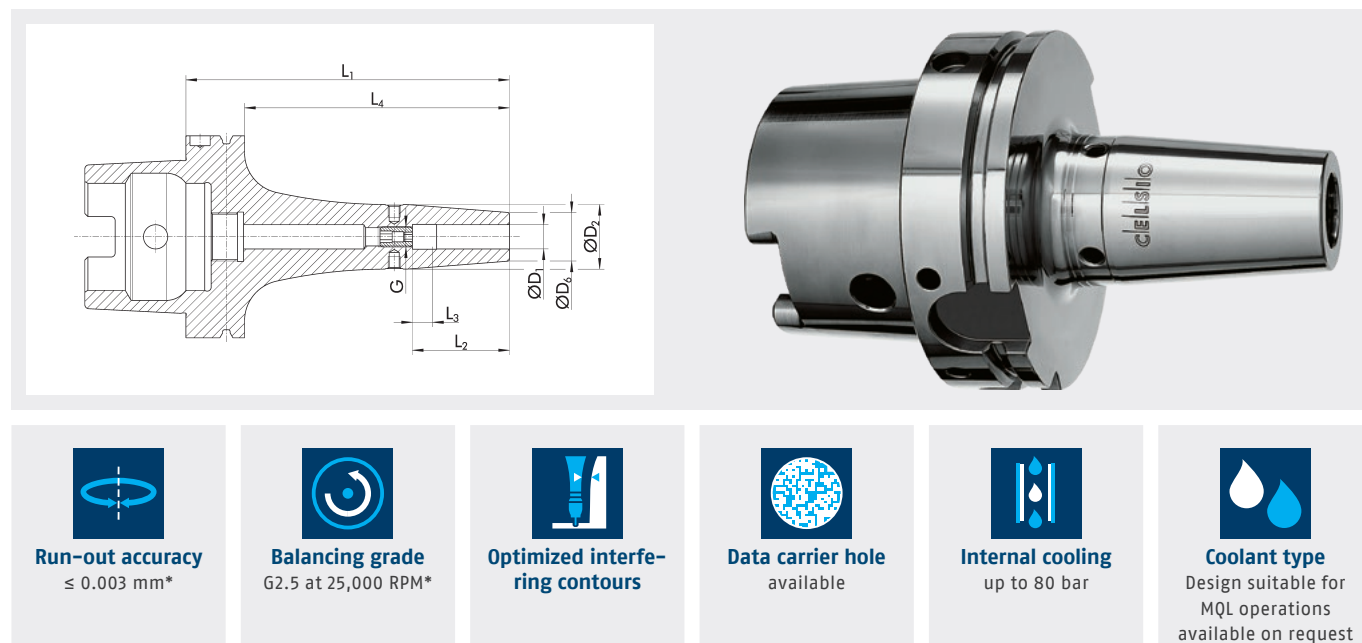
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-A 100 L₁ =200



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208230	4.5°	6	27	21	200	36	10	171	M5	20	2.9
0208231	4.5°	8	27	21	200	36	10	171	M6	50	2.9
0208232	4.5°	10	32	24	200	42	10	171	M8x1	70	3.1
0208233	4.5°	12	32	24	200	47	10	171	M10x1	150	3.1
0208234	4.5°	14	34	27	200	47	10	171	M10x1	180	3.2
0208235	4.5°	16	34	27	200	50	10	171	M12x1	300	3.3
0208236	4.5°	18	42	33	200	50	10	171	M12x1	370	3.4
0208237	4.5°	20	42	33	200	52	10	171	M16x1	450	3.4
0208238	4.5°	25	53	44	200	58	10	171	M16x1	680	4.5
0208239	4.5°	32	53	44	200	62	10	171	M16x1	750	4.7

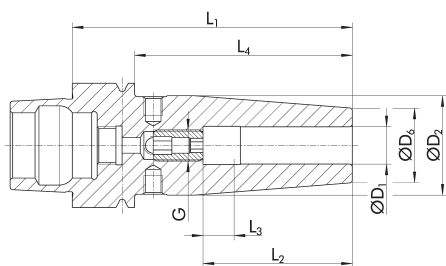
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-E 32



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0210140	4.5°	3	17	12	60			40		4	0.1
0210141	4.5°	4	17	12	60			40		6	0.1
0210142	4.5°	5	17	12	60			40		8	0.1
0208290	4.5°	6	27	21	70	37	10	50	M5	20	0.3
0208291	4.5°	8	27	21	70	37	10	50	M6	52	0.3
0208292	4.5°	10	32	24	80	42	10	60	M8x1	70	0.4

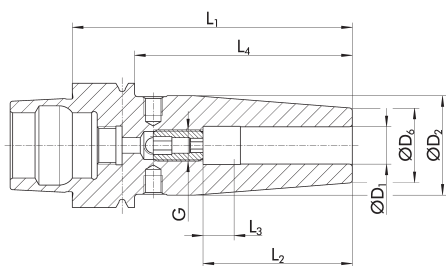
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-E 40 L₁ = 60



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
26001165	4.5°	6	27	21	60	36	40	0.37
26001166	4.5°	8	27	21	60	36	40	0.37
26001167	4.5°	10	32	24	60	42	40	0.41
26001168	4.5°	12	32	24	60	47	40	0.4
26001170	4.5°	16	34	27	60	50	40	0.4

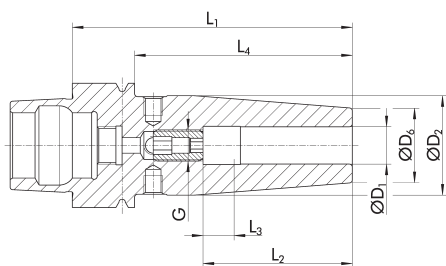
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-E 40



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1458806	4.5°	3	17	12	60			40		4	0.2
1458807	4.5°	4	17	12	60			40		6	0.2
1458808	4.5°	5	17	12	60			40		8	0.2
0208300	4.5°	6	27	21	80	37	10	60	M5	20	0.4
0208301	4.5°	8	27	21	80	37	10	60	M6	52	0.4
0208302	4.5°	10	32	24	80	42	10	60	M8x1	70	0.4
0208303	4.5°	12	32	24	90	48	10	70	M10x1	150	0.5
0208304	4.5°	14	34	27	90	48	10	70	M10x1	180	0.5
0208305	4.5°	16	34	27	90	51	10	70	M12x1	300	0.5

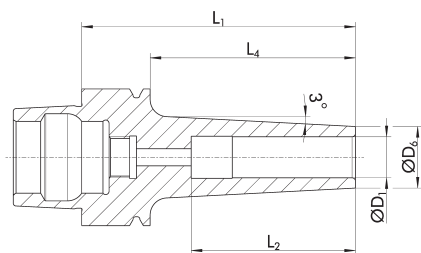
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-E 40 L₁=60 schlank/slim



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 40,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
1328691	Slim	3	10	6	60	13.5	40	0.23
1328692	Slim	4	11	7	60	16	40	0.23
1328693	Slim	5	12	8	60	16	40	0.23
1328694	Slim	6	13	9	60	37	40	0.24
1328695	Slim	8	15	11	60	37	40	0.24
1328696	Slim	10	17	13	60	42	40	0.25
1328697	Slim	12	19	15	60	42	40	0.25

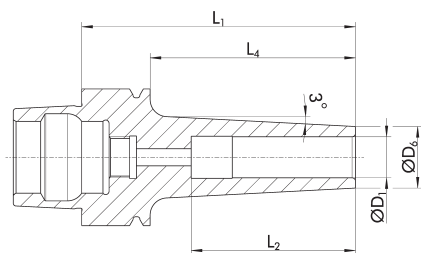
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-E 40 L₁ = 60



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 40,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
26000917	3°	3	9	60	13.5	40	0.25
26000918	3°	4	10	60	16	40	0.2
26000919	3°	5	11	60	16	40	0.25
26000463	3°	6	12	60	22	40	0.26
26000464	3°	8	14	60	37	40	0.26
26000920	3°	10	16	60	42	40	0.27
26000921	3°	12	18	60	42	40	0.28

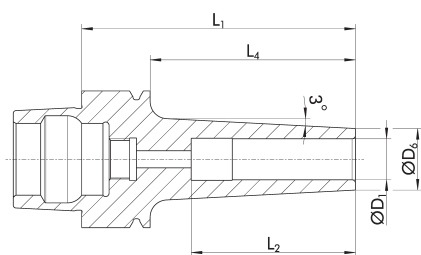
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-E 40 L₁ =70



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 40,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
26000922	3°	3	9	70	13.5	50	0.2
26000923	3°	4	10	70	16	50	0.26
26000924	3°	5	11	70	16	50	0.27
26000916	3°	6	12	70	37	50	0.27
26000925	3°	8	14	70	37	50	0.29
26000926	3°	10	16	70	42	50	0.29
26000927	3°	12	18	70	42	50	0.3

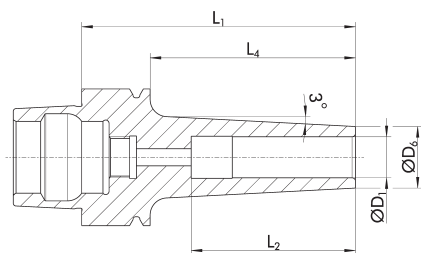
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-E 40 L₁ = 80



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 40,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
26000928	3°	3	9	80	13.5	60	0.27
26000929	3°	4	10	80	16	60	0.28
26000930	3°	5	11	80	16	60	0.28
26000931	3°	6	12	80	37	60	0.29
26000932	3°	8	14	80	37	60	0.32
26000933	3°	10	16	80	42	60	0.32
26001204	3°	12	18	80	42	60	0.3

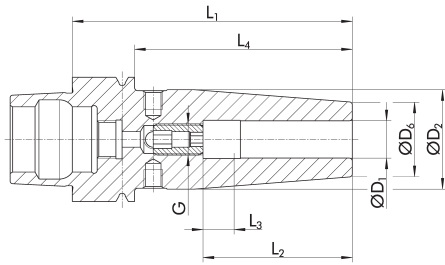
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-E 50



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1458810	4.5°	3	17	12	60			34		4	0.4
1458811	4.5°	4	17	12	60			34		6	0.4
1458812	4.5°	5	17	12	60			34		8	0.4
0208310	4.5°	6	27	21	80	37	10	54	M5	20	0.7
0208311	4.5°	8	27	21	80	37	10	54	M6	52	0.7
0208312	4.5°	10	32	24	85	42	10	59	M8x1	70	0.8
0208313	4.5°	12	32	24	90	48	10	64	M10x1	150	0.8
0208314	4.5°	14	34	27	90	48	10	64	M10x1	180	0.9
0208315	4.5°	16	34	27	95	51	10	69	M12x1	300	0.9

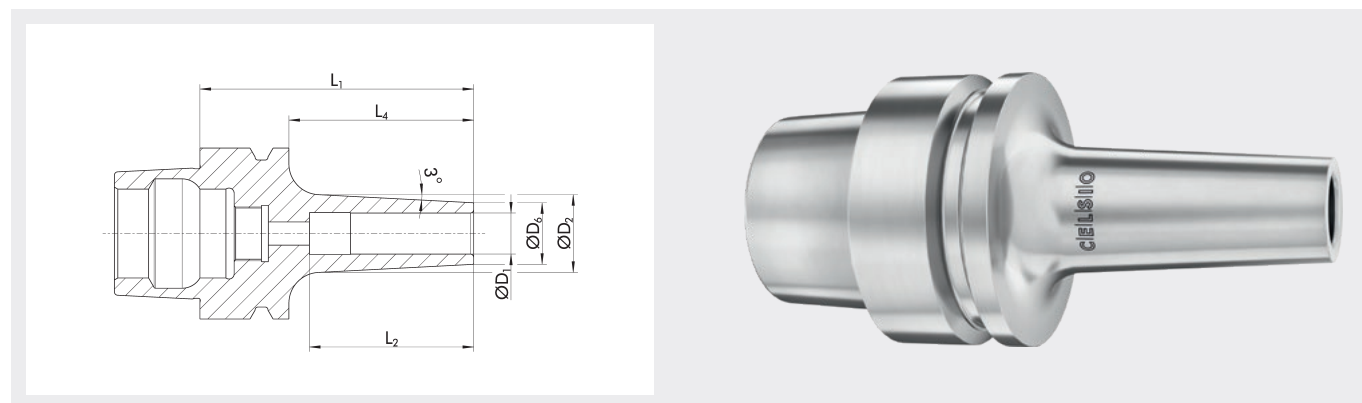
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-E 50 L₁ = 70



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 40,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
26001248	3°	3	14	9	70	13.5	44	0.46
26001249	3°	4	15	10	70	16	44	0.46
26001250	3°	5	16	11	70	16	44	0.47
26002177	3°	6	17	12	70	23	44	0.47
26001252	3°	8	19	14	70	37	44	0.48
26001253	3°	10	21	16	70	42	44	0.49
26001254	3°	12	23	18	70	48	44	0.49

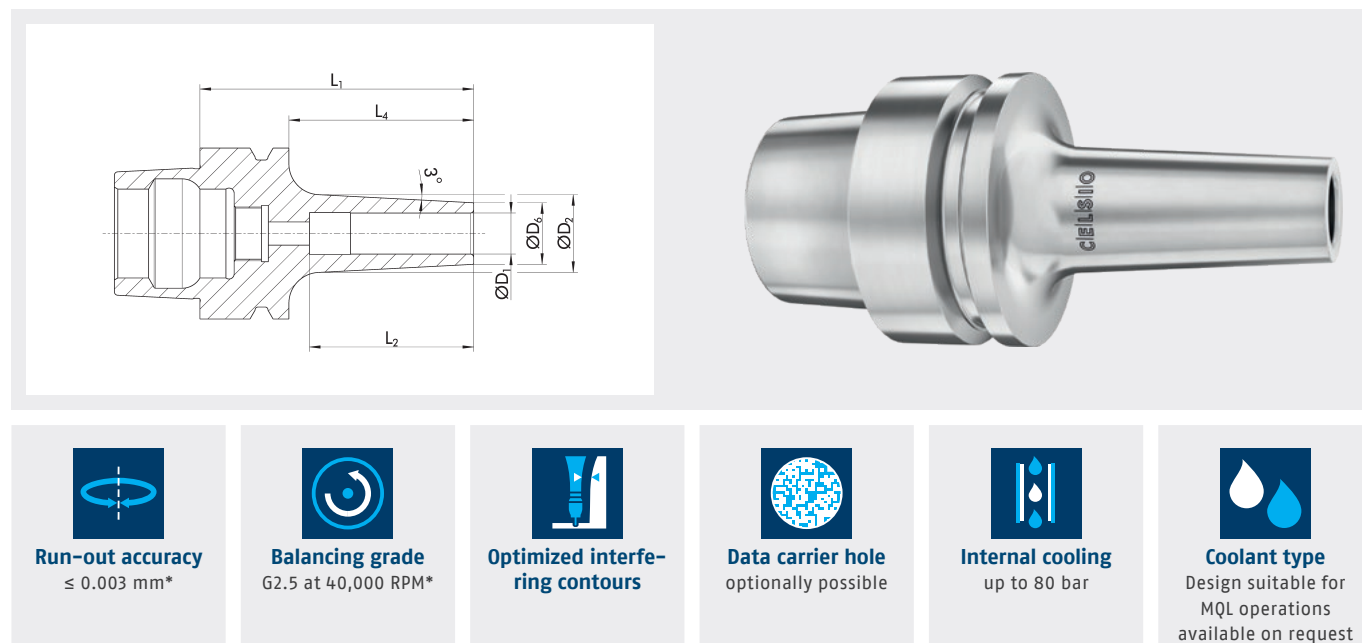
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-E 50 L₁ = 80



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
26001262	3°	3	15	9	80	13.5	54	0.5
26001263	3°	4	16	10	80	16	54	0.48
26001264	3°	5	17	11	80	16	54	0.48
26001265	3°	6	18	12	80	23	54	0.48
26001266	3°	8	20	14	80	37	54	0.5
26001267	3°	10	22	16	80	42	54	0.51
26001268	3°	12	24	18	80	48	54	0.52

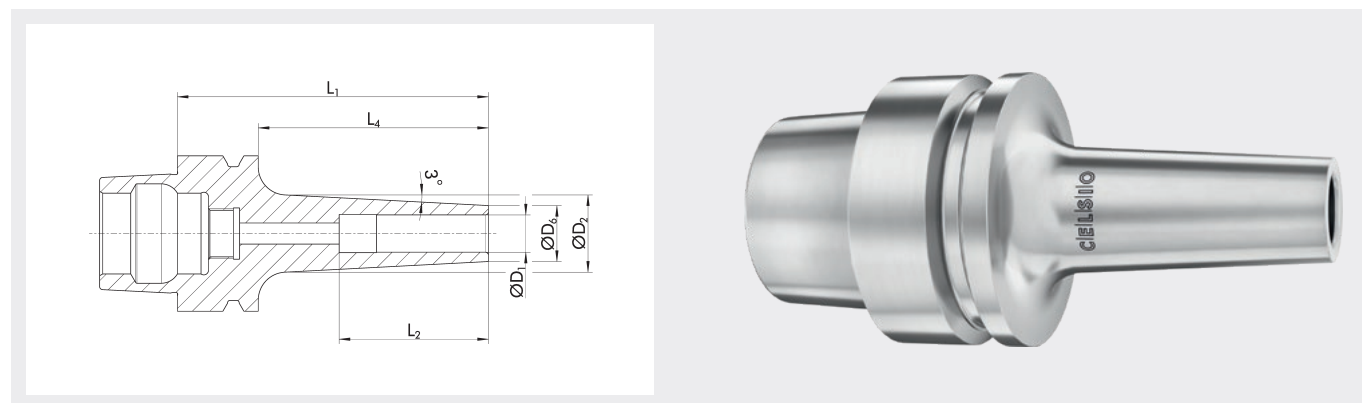
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° HSK-E 50 L₁ = 100



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 40,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar



Coolant type
Design suitable for
MQL operations
available on request

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
26001276	3°	3	17	9	100	13.5	74	0.5
26000936	3°	4	18	10	100	16	74	0.51
26001278	3°	5	17	11	100	16	74	0.52
1300128	3°	6	20	12	100	23	74	0.53
1300129	3°	8	22	14	100	37	74	0.55
1300134	3°	10	24	16	100	42	74	0.57
1300139	3°	12	26	18	100	48	74	0.6

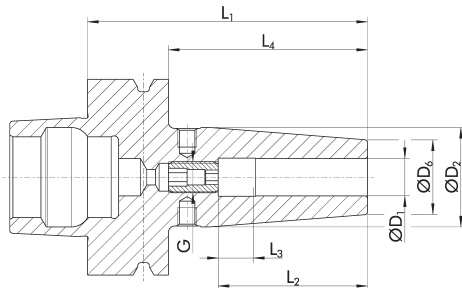
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-F 63



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26000560	4.5°	3	17	12	80			54		4	0.4
26000769	4.5°	4	17	12	80			54		6	0.4
26000770	4.5°	5	17	12	80			54		8	0.4
26000771	4.5°	6	27	21	80	37	10	54	M5	20	0.7
26000772	4.5°	8	27	21	80	37	10	54	M6	50	0.7
26000773	4.5°	10	32	24	85	42	10	59	M8x1	70	0.8
26000774	4.5°	12	32	24	90	48	10	64	M10x1	150	0.8
26000775	4.5°	16	34	27	95	51	10	69	M12x1	300	0.9
26000776	4.5°	20	42	33	100	53	10	74	M16x1	450	0.9
26000623	4.5°	25	53	44	115	59	10	89	M16x1	680	0.9

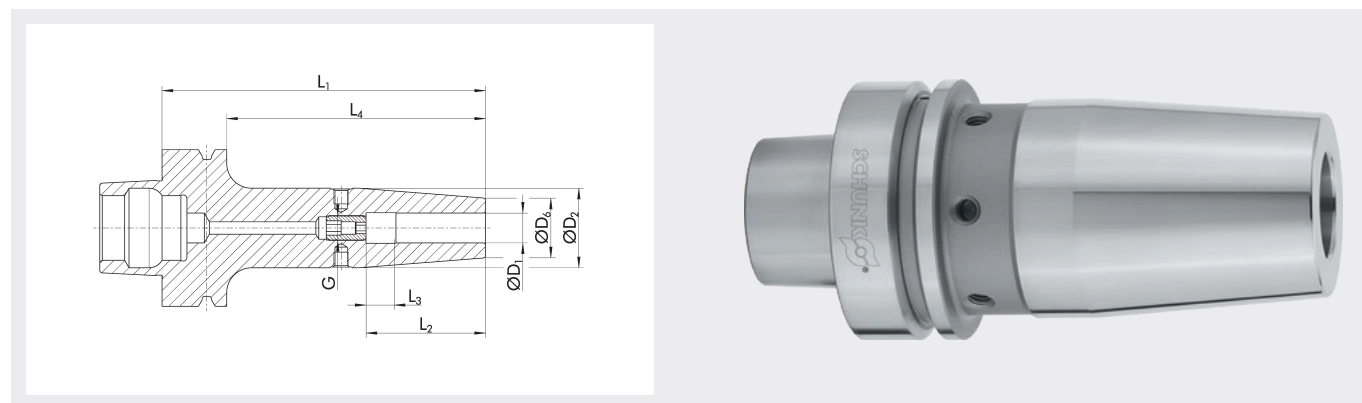
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO HSK-F 63 L₁ = 130



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

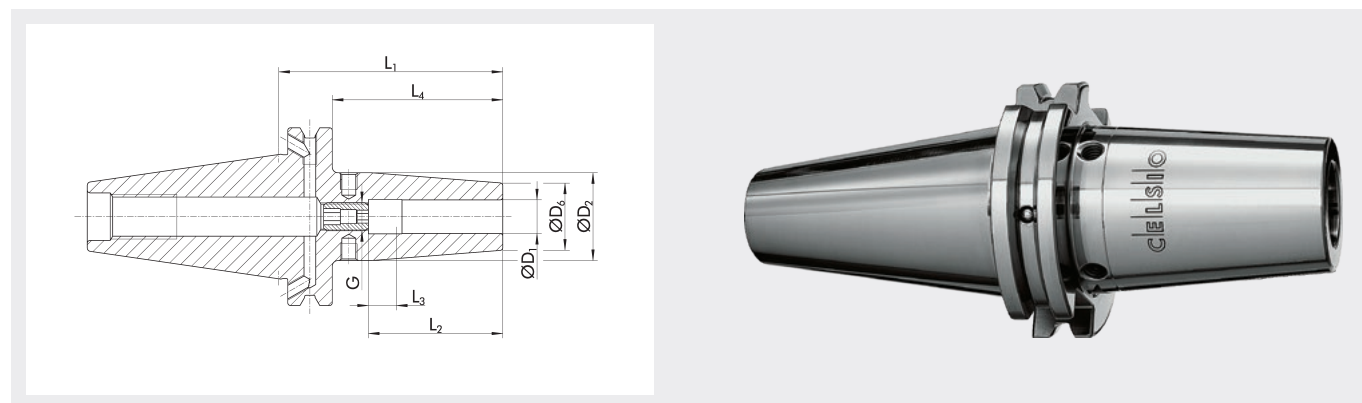
ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26000777	4.5°	6	27	21	130	37	10	104	M5	20	0.7
26000580	4.5°	8	27	21	130	37	10	104	M6	50	0.7
26000581	4.5°	10	32	24	130	42	10	104	M8x1	70	0.8
26000778	4.5°	12	32	24	130	48	10	104	M10x1	150	0.8
26000779	4.5°	16	34	27	130	51	10	104	M12x1	300	0.9
26000780	4.5°	20	42	33	130	53	10	104	M16x1	450	0.9
26000650	4.5°	25	53	44	130	59	10	104	M16x1	680	0.9

*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request
Cool Flow available on request

CELSIO SK 40



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1458815	4.5°	3	17	12	80	13		60.9		4	0.9
1458816	4.5°	4	17	12	80	15		60.9		6	0.9
1458817	4.5°	5	17	12	80	15.5		60.9		8	0.9
0208340	4.5°	6	27	21	80	37	10	61	M5	20	1
0208341	4.5°	8	27	21	80	37	10	61	M6	50	1
0208342	4.5°	10	32	24	80	42	10	61	M8x1	70	1
0208343	4.5°	12	32	24	80	48	10	61	M10x1	150	1
0208344	4.5°	14	34	27	80	48	10	61	M10x1	180	1.1
0208345	4.5°	16	34	27	80	51	10	61	M12x1	300	1
0208346	4.5°	18	41	33	80	51	10	61	M12x1	370	1.2
0208347	4.5°	20	41	33	80	53	10	61	M16x1	450	1.2
0208348	4.5°	25	53	44	100	59	10	81	M16x1	680	1.6
0208349	4.5°	32	53	44	100	63	10	81	M16x1	750	1.5

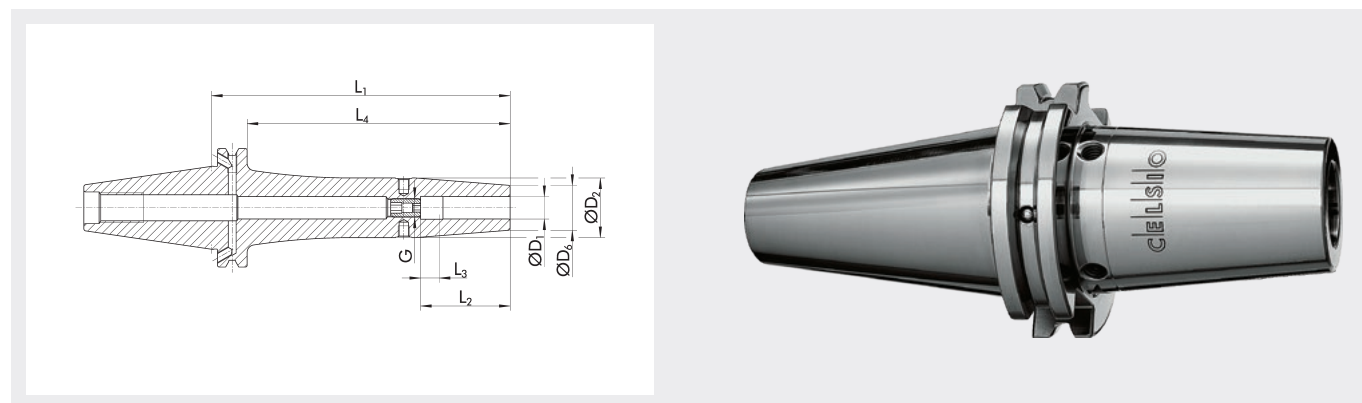
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SK 40 L₁ =120 schlank/slim



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

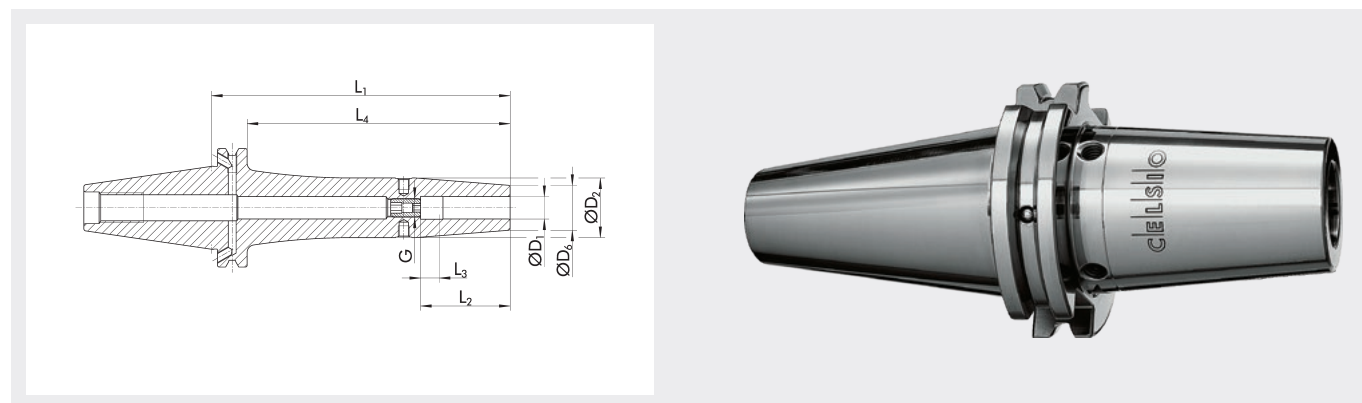
ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Weight [kg]
26001865	Slim	3	25	9	120			100.9		0.9
26001866	Slim	4	25	9	120			100.9		1.01
26001867	Slim	5	25	9	120			100.9		1.01
26001868	Slim	6	30	15	120	37	10	100.9	M5	1.1
26001869	Slim	8	30	15	120	37	10	100.9	M6	1.2
26001870	Slim	10	32	18	120	42	10	100.9	M8x1	1.2
26001871	Slim	12	32	18	120	48	10	100.9	M10x1	1.2

*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request
Cool Flow available on request

CELSIO SK 40 L₁ =130



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26000906	4.5°	3	17	12	130			110.9		4	1
26000634	4.5°	32	53	44	130	63	10	110.9	M16x1	750	1.8
26000907	4.5°	4	17	12	130			110.9		6	1
26002788	4.5°	5	17	12	130			110.9		8	1
0208350	4.5°	6	27	21	130	37	10	110.9	M5	20	1.2
0208351	4.5°	8	27	21	130	37	10	110.9	M6	50	1.2
0208352	4.5°	10	32	24	130	42	10	110.9	M8x1	70	1.3
0208353	4.5°	12	32	24	130	48	10	110.9	M10x1	150	1.3
0208354	4.5°	14	34	27	130	48	10	110.9	M10x1	180	1.4
0208355	4.5°	16	34	27	130	51	10	110.9	M12x1	300	1.4
0208356	4.5°	18	42	33	130	51	10	110.9	M12x1	370	1.5
0208357	4.5°	20	42	33	130	53	10	110.9	M16x1	450	1.5
0208358	4.5°	25	53	44	130	59	10	110.9	M16x1	680	1.8

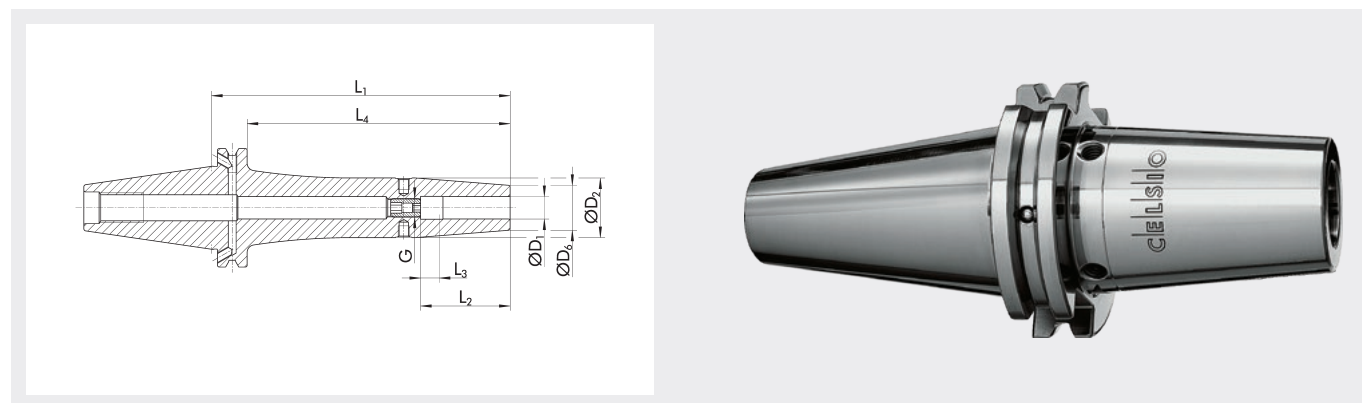
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SK 40 L₁ =160



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208360	4.5°	6	27	21	160	37	10	141	M5	20	1.4
0208361	4.5°	8	27	21	160	37	10	141	M6	50	1.4
0208362	4.5°	10	32	24	160	42	10	141	M8x1	70	1.6
0208363	4.5°	12	32	24	160	48	10	141	M10x1	150	1.6
0208364	4.5°	14	34	27	160	48	10	141	M10x1	180	1.6
0208365	4.5°	16	34	27	160	51	10	141	M12x1	300	1.6
0208366	4.5°	18	42	33	160	51	10	141	M12x1	370	1.7
0208367	4.5°	20	42	33	160	53	10	141	M16x1	450	1.9
0208368	4.5°	25	53	44	160	59	10	141	M16x1	680	2.5

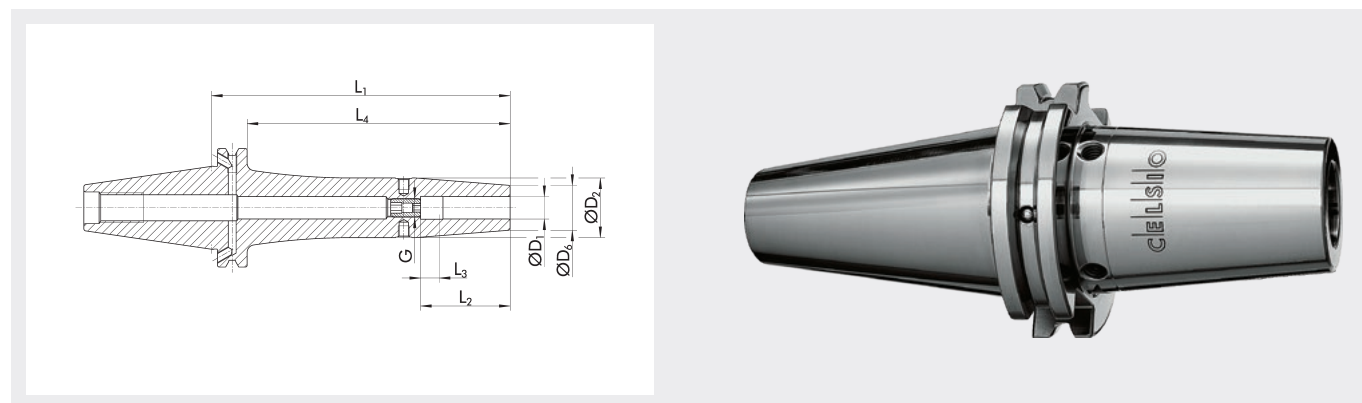
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SK 40 L₁ =200



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208370	4.5°	6	27	21	200	37	10	181	M5	20	1.5
0208371	4.5°	8	27	21	200	37	10	181	M6	50	1.6
0208372	4.5°	10	32	24	200	42	10	181	M8x1	70	1.7
0208373	4.5°	12	32	24	200	48	10	181	M10x1	150	1.7
0208374	4.5°	14	34	27	200	48	10	181	M10x1	180	1.8
0208375	4.5°	16	34	27	200	51	10	181	M12x1	300	1.8
0208376	4.5°	18	42	33	200	51	10	181	M12x1	370	1.8
0208377	4.5°	20	42	33	200	53	10	181	M16x1	450	1.9
0208378	4.5°	25	53	44	200	59	10	181	M16x1	680	2.4

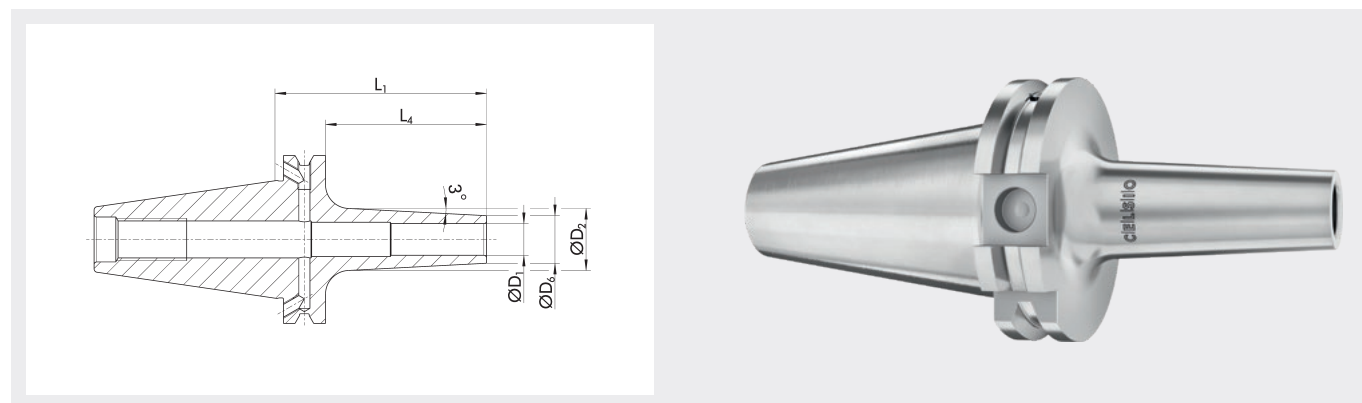
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO 3° SK 40 L₁ = 80



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

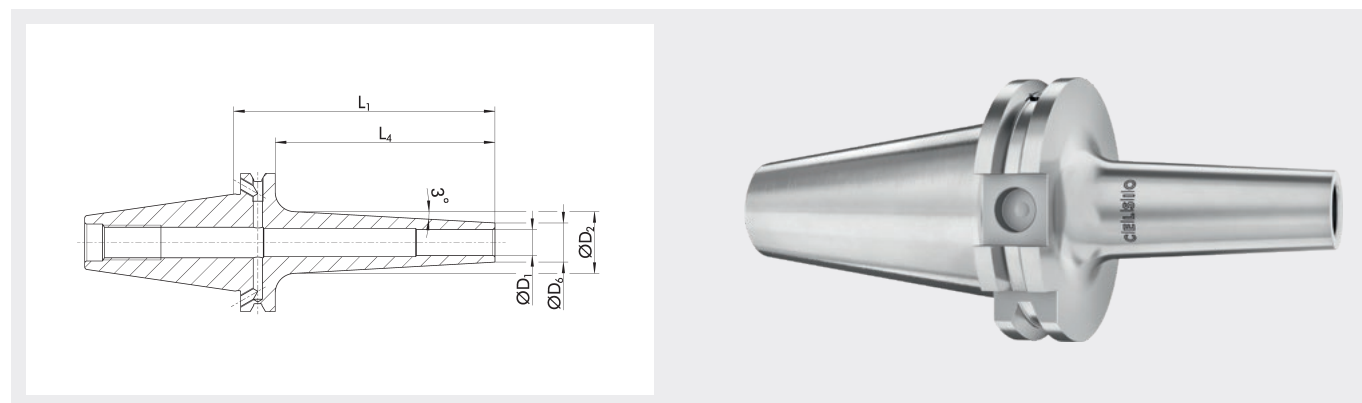
ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
1324339	3°	3	14	9	80	13.5	60.9	0.9
1324340	3°	4	15	10	80	16	60.9	0.9
1324341	3°	5	16	11	80	16	60.9	0.9
26002496	3°	6	19	12	80	23	60.9	0.8
26002497	3°	8	21	14	80	27	60.9	0.9
26002498	3°	10	23	16	80	32	60.9	0.9
26002499	3°	12	25	18	80	37	60.9	0.9

*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request
Cool Flow available on request

CELSIO 3° SK 40 L₁ =120



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L4 [mm]	Weight [kg]
1324642	3°	3	18	9	120	13.5	100.9	1.01
1324643	3°	4	19	10	120	16	100.9	1.01
1324644	3°	5	20	11	120	16	100.9	1.01
26002500	3°	6	23	12	120	23	100.9	0.9
26002501	3°	8	25	14	120	27	100.9	0.9
26002502	3°	10	27	16	120	32	100.9	0.9
26002503	3°	12	29	18	120	37	100.9	1.01

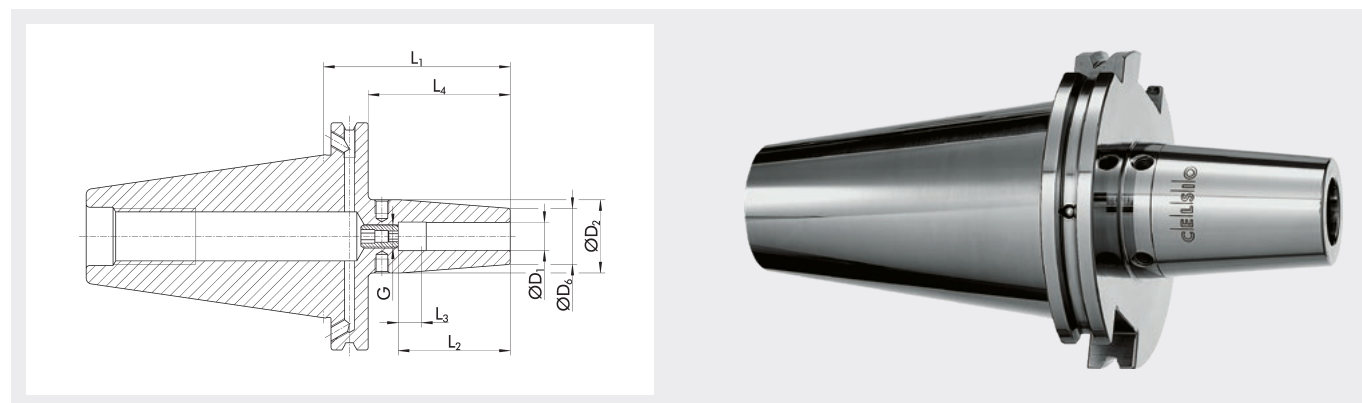
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SK 50



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208240	4.5°	6	27	21	80	36	10	61	M5	20	2.9
0208241	4.5°	8	27	21	80	36	10	61	M6	52	2.9
0208242	4.5°	10	32	24	80	42	10	61	M8x1	70	2.9
0208243	4.5°	12	32	24	80	47	10	61	M10x1	150	2.9
0208244	4.5°	14	34	27	80	47	10	61	M10x1	180	3
0208245	4.5°	16	34	27	80	50	10	61	M12x1	300	2.9
0208246	4.5°	18	41	33	80	50	10	61	M12x1	370	3
0208247	4.5°	20	41	33	80	52	10	61	M16x1	450	2.9
0208248	4.5°	25	53	44	100	58	10	81	M16x1	680	3.5
0208249	4.5°	32	53	44	100	62	10	81	M16x1	750	3.4

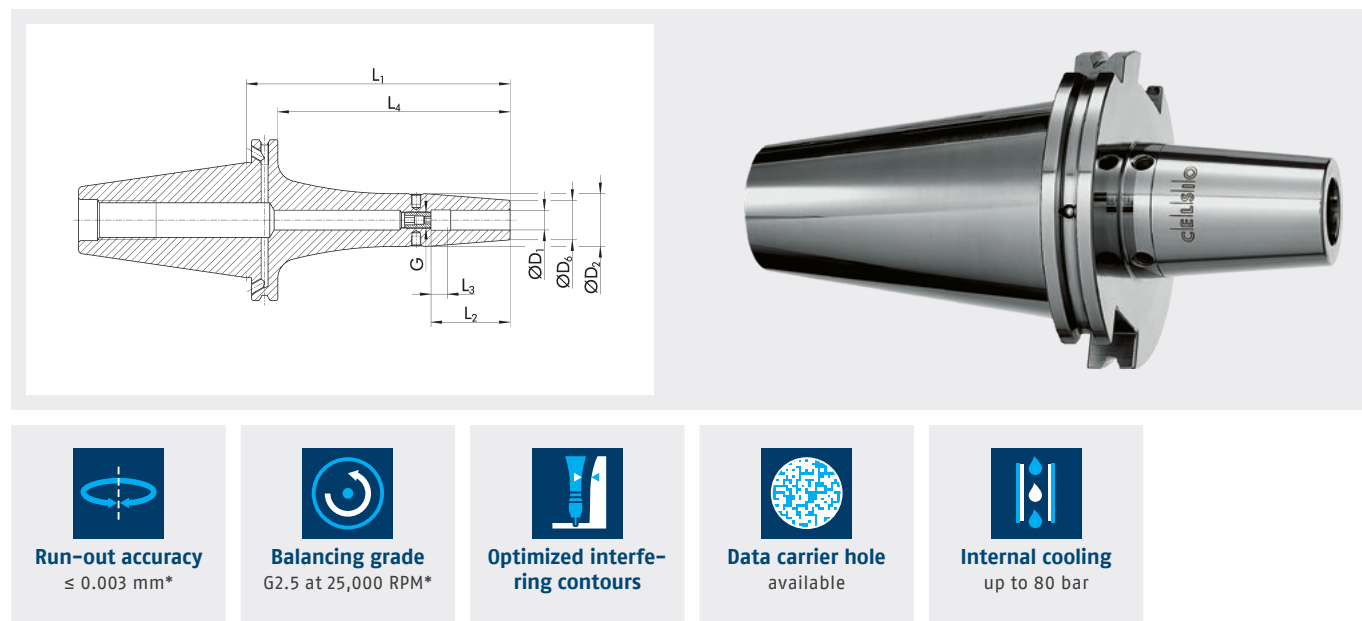
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SK 50 L₁ =130



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208250	4.5°	6	27	21	130	36	10	111	M5	20	3
0208251	4.5°	8	27	21	130	36	10	111	M6	52	3
0208252	4.5°	10	32	24	130	42	10	111	M8x1	70	3.1
0208253	4.5°	12	32	24	130	47	10	111	M10x1	150	3.1
0208254	4.5°	14	34	27	130	47	10	111	M10x1	180	3.2
0208255	4.5°	16	34	27	130	50	10	111	M12x1	300	3.1
0208256	4.5°	18	42	33	130	50	10	111	M12x1	370	3.5
0208257	4.5°	20	42	33	130	52	10	111	M16x1	450	3.5
0208258	4.5°	25	53	44	130	58	10	111	M16x1	680	4.5
0208259	4.5°	32	53	44	130	62	10	111	M16x1	750	3.9

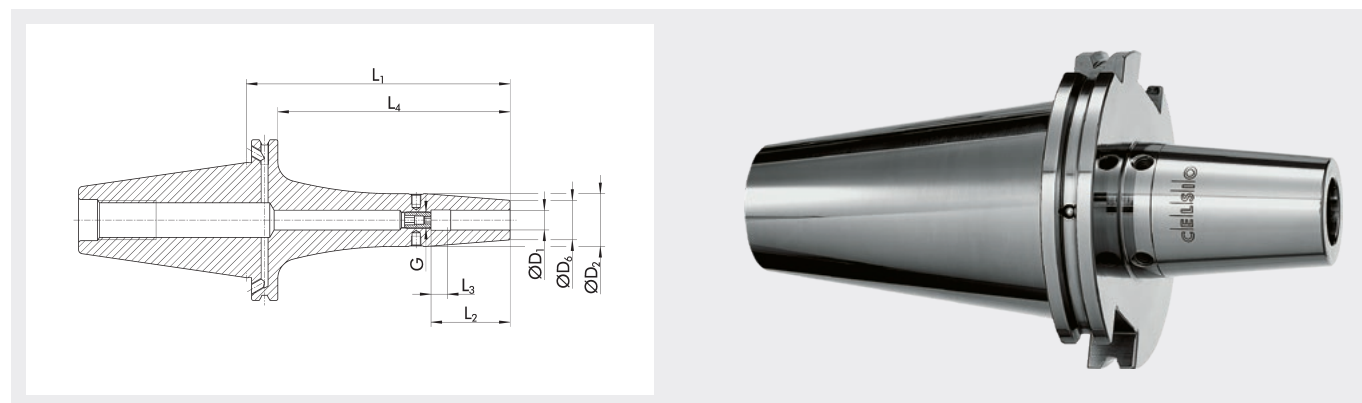
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SK 50 L₁ = 160



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208260	4.5°	6	27	21	160	36	10	141	M5	20	3.2
0208261	4.5°	8	27	21	160	36	10	141	M6	52	3.2
0208262	4.5°	10	32	24	160	42	10	141	M8x1	70	3.5
0208263	4.5°	12	32	24	160	47	10	141	M10x1	150	3.5
0208264	4.5°	14	34	27	160	47	10	141	M10x1	180	3.5
0208265	4.5°	16	34	27	160	50	10	141	M12x1	300	3.6
0208266	4.5°	18	42	33	160	50	10	141	M12x1	370	3.9
0208267	4.5°	20	42	33	160	52	10	141	M16x1	450	4
0208268	4.5°	25	53	44	160	58	10	141	M16x1	680	4.1
0208269	4.5°	32	53	44	160	62	10	141	M16x1	750	4.4

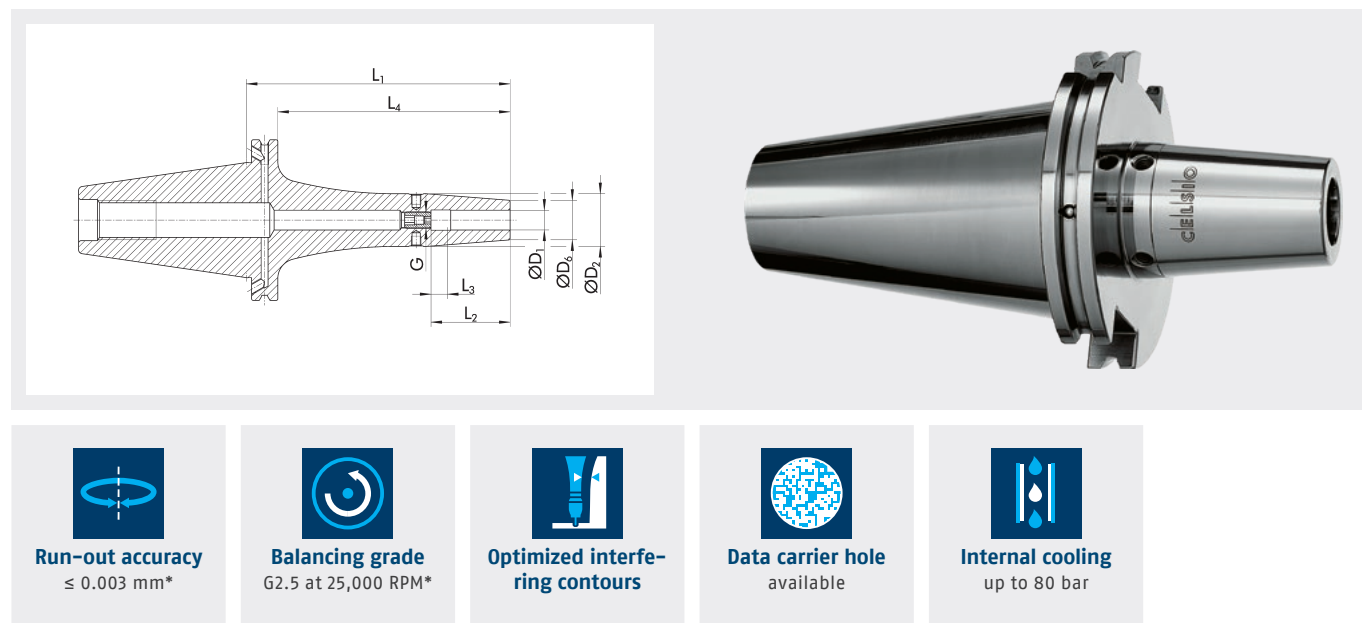
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SK 50 L₁ =200



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208270	4.5°	6	27	21	200	36	10	181	M5	20	3.7
0208271	4.5°	8	27	21	200	36	10	181	M6	52	3.9
0208272	4.5°	10	32	24	200	42	10	181	M8x1	70	3.8
0208273	4.5°	12	32	24	200	47	10	181	M10x1	150	3.9
0208274	4.5°	14	34	27	200	47	10	181	M10x1	180	3.9
0208275	4.5°	16	34	27	200	50	10	181	M12x1	300	4
0208276	4.5°	18	42	33	200	50	10	181	M12x1	370	4.1
0208277	4.5°	20	42	33	200	52	10	181	M16x1	450	4.1
0208278	4.5°	25	53	44	200	58	10	181	M16x1	680	4.5
0208279	4.5°	32	53	44	200	62	10	181	M16x1	750	5

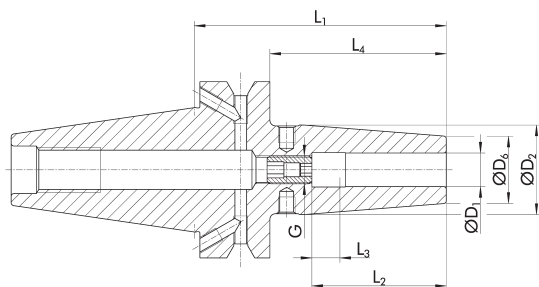
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 30



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26000713	4.5°	3	17	12	80			58		4	0.44
26000714	4.5°	4	17	12	80			58		6	0.44
26000715	4.5°	5	17	12	80			58		8	0.48
26000716	4.5°	6	27	21	80	37	10	58	M5	20	0.57
26000717	4.5°	8	27	21	80	37	10	58	M6	50	5.8
26000718	4.5°	10	32	24	80	42	10	58	M8x1	70	0.66
26000719	4.5°	12	32	24	80	48	10	58	M10x1	150	0.66
26000720	4.5°	14	34	27	80	48	10	58	M10x1	180	0.66
26000721	4.5°	16	34	27	80	51	10	58	M12x1	300	0.66
26000015	4.5°	18	42	33	90	51	10	68	M12x1	370	0.66
26000723	4.5°	20	42	33	90	53	10	68	M16x1	450	0.84

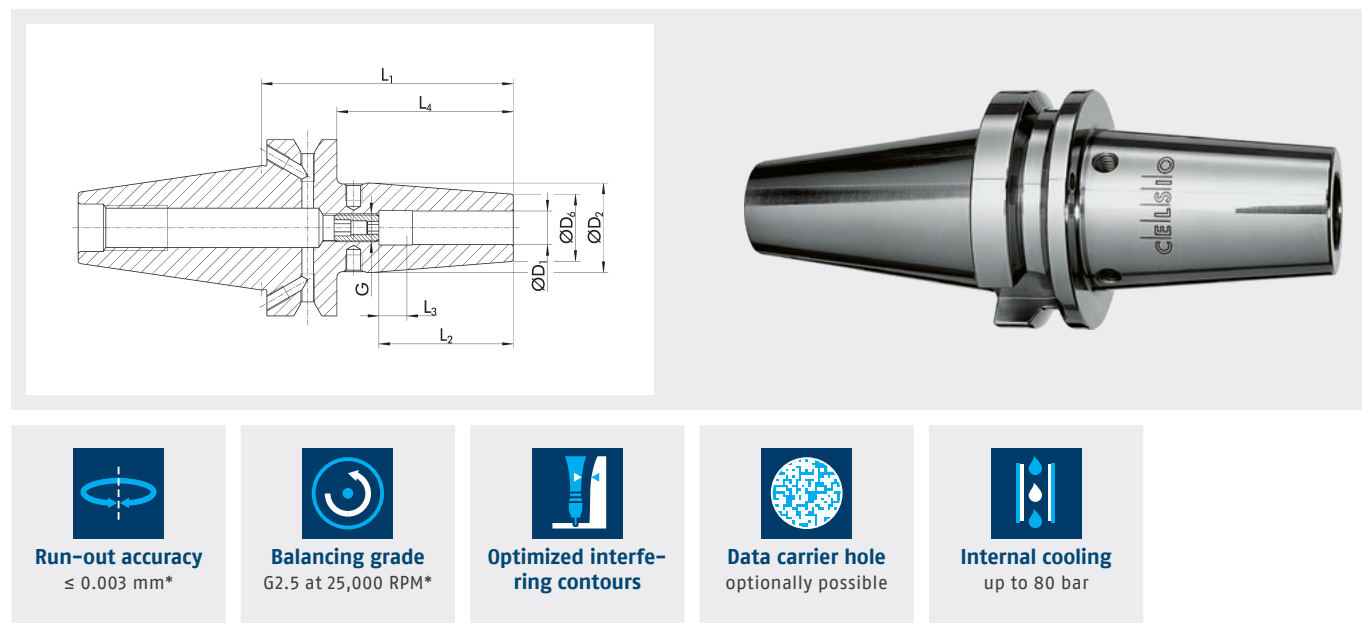
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 40



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1458826	4.5°	3	17	12	90			63		4	1.1
1458827	4.5°	4	17	12	90			63		6	1.1
1458828	4.5°	5	17	12	90			63		8	1.1
0208500	4.5°	6	27	21	90	37	10	63	M5	20	1.1
0208501	4.5°	8	27	21	90	37	10	63	M6	50	1.1
0208502	4.5°	10	32	24	90	42	10	63	M8x1	70	1.2
0208503	4.5°	12	32	24	90	48	10	63	M10x1	150	1.2
0208504	4.5°	14	34	27	90	48	10	63	M10x1	180	1.2
0208505	4.5°	16	34	27	90	51	10	63	M12x1	300	1.2
0208506	4.5°	18	42	33	90	51	10	63	M12x1	370	1.3
0208507	4.5°	20	42	33	90	53	10	63	M16x1	450	1.5
0208508	4.5°	25	53	44	100	59	10	73	M16x1	680	1.8

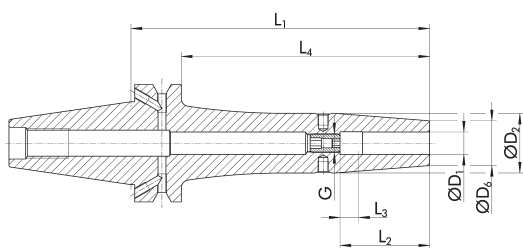
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 40 L₁ =130



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1324749	4.5°	3	17	12	130			103		4	2
1324751	4.5°	4	17	12	130			103		6	2
1324752	4.5°	5	17	12	130			103		8	2
0208510	4.5°	6	27	21	130	37	10	103	M5	20	1.5
0208511	4.5°	8	27	21	130	37	10	103	M6	50	1.5
0208512	4.5°	10	32	24	130	42	10	103	M8x1	70	1.6
0208513	4.5°	12	32	24	130	48	10	103	M10x1	150	1.7
0208514	4.5°	14	34	27	130	48	10	103	M10x1	180	1.7
0208515	4.5°	16	34	27	130	51	10	103	M12x1	300	1.8
0208516	4.5°	18	42	33	130	51	10	103	M12x1	370	1.8
0208517	4.5°	20	42	33	130	53	10	103	M16x1	450	1.9
0208518	4.5°	25	53	44	130	59	10	103	M16x1	680	2

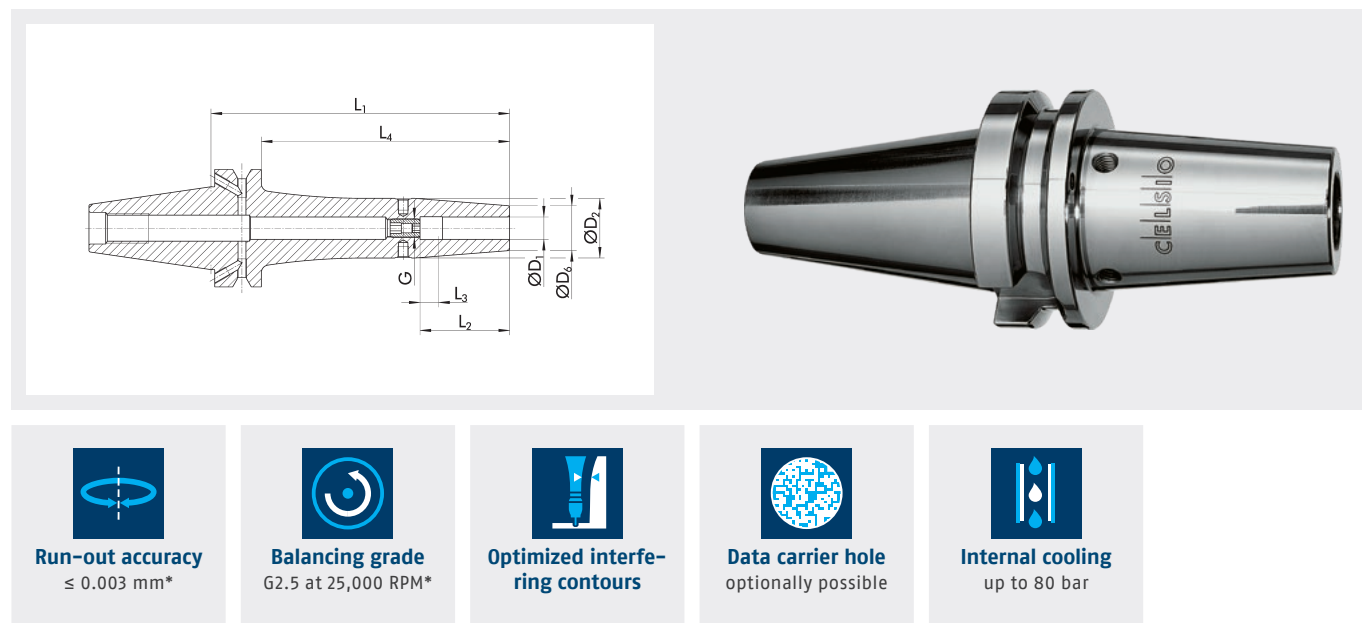
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 40 L₁ =160



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208520	4.5°	6	27	21	160	37	10	133	M5	20	1.5
0208521	4.5°	8	27	21	160	37	10	133	M6	50	1.6
0208522	4.5°	10	32	24	160	42	10	133	M8x1	70	1.6
0208523	4.5°	12	32	24	160	48	10	133	M10x1	150	1.6
0208524	4.5°	14	34	27	160	48	10	133	M10x1	180	1.8
0208525	4.5°	16	34	27	160	51	10	133	M12x1	300	1.8
0208526	4.5°	18	42	33	160	51	10	133	M12x1	370	2
0208527	4.5°	20	42	33	160	53	10	133	M16x1	450	2
0208528	4.5°	25	53	44	160	59	10	133	M16x1	680	2.8

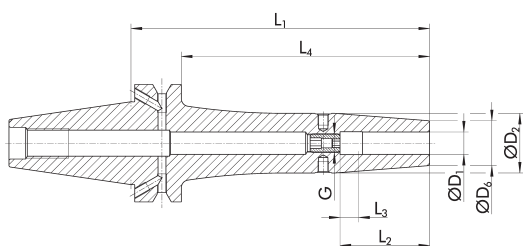
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 40 L₁ = 200



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208530	4.5°	6	27	21	200	37	10	173	M5	20	2
0208531	4.5°	8	27	21	200	37	10	173	M6	50	2.2
0208532	4.5°	10	32	24	200	42	10	173	M8x1	70	1.7
0208533	4.5°	12	32	24	200	48	10	173	M10x1	150	2.3
0208534	4.5°	14	34	27	200	48	10	173	M10x1	180	2.4
0208535	4.5°	16	34	27	200	51	10	173	M12x1	300	2.4
0208536	4.5°	18	42	33	200	51	10	173	M12x1	370	2.5
0208537	4.5°	20	42	33	200	53	10	173	M16x1	450	2.6
0208538	4.5°	25	53	44	200	59	10	173	M16x1	680	3

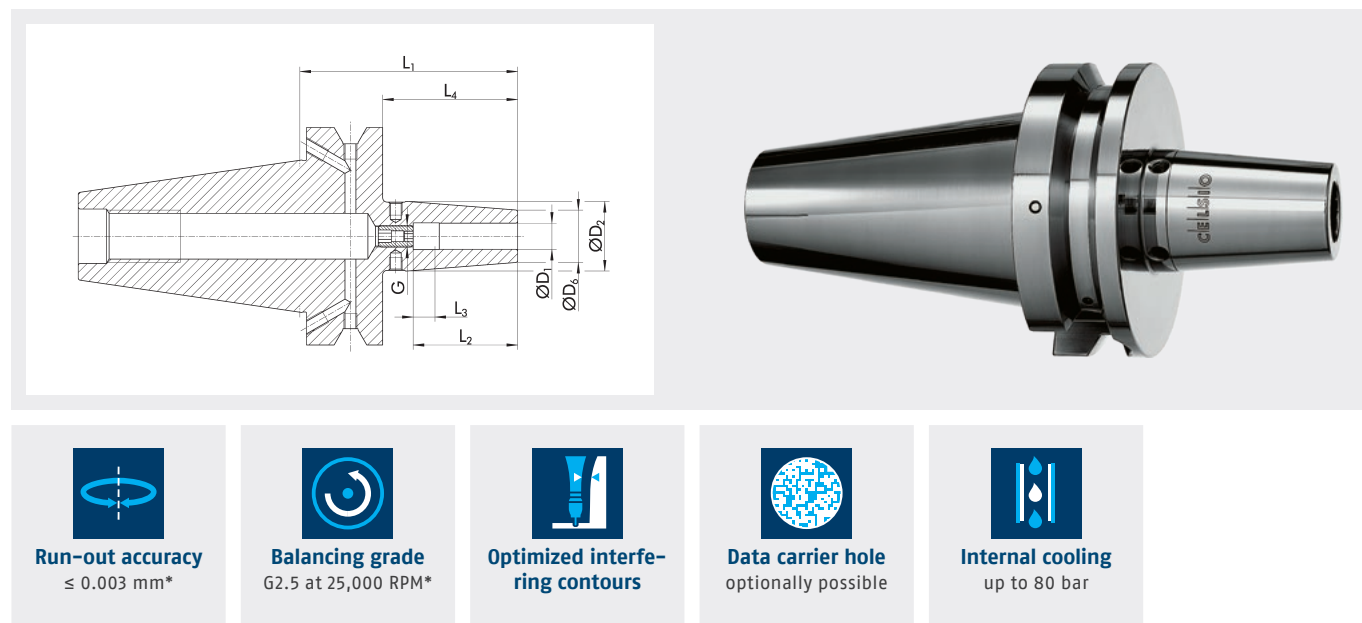
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 50



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208540	4.5°	6	27	21	100	36	10	62	M5	20	2.5
0208541	4.5°	8	27	21	100	36	10	62	M6	50	2.5
0208542	4.5°	10	32	24	100	42	10	62	M8x1	70	2.7
0208543	4.5°	12	32	24	100	47	10	62	M10x1	150	2.7
0208544	4.5°	14	34	27	100	47	10	62	M10x1	180	2.9
0208545	4.5°	16	34	27	100	50	10	62	M12x1	300	2.9
0208546	4.5°	18	42	33	100	50	10	62	M12x1	370	3
0208547	4.5°	20	42	33	100	52	10	62	M16x1	450	3.1
0208548	4.5°	25	53	44	100	58	10	62	M16x1	680	3.5
0208549	4.5°	32	53	44	100	62	10	62	M16x1	750	3.9

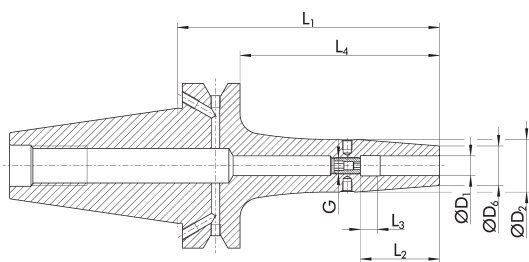
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 50 L₁ =130



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208550	4.5°	6	27	21	130	37	10	92	M5	20	2.8
0208551	4.5°	8	27	21	130	37	10	92	M6	50	2.9
0208552	4.5°	10	32	24	130	42	10	92	M8x1	70	2.9
0208553	4.5°	12	32	24	130	48	10	92	M10x1	150	3
0208554	4.5°	14	34	27	130	48	10	92	M10x1	180	3.1
0208555	4.5°	16	34	27	130	51	10	92	M12x1	300	3.1
0208556	4.5°	18	42	33	130	51	10	92	M12x1	370	3.2
0208557	4.5°	20	42	33	130	53	10	92	M16x1	450	3.3
0208558	4.5°	25	53	44	130	59	10	92	M16x1	680	3.7
0208559	4.5°	32	53	44	130	63	10	92	M16x1	750	4.1

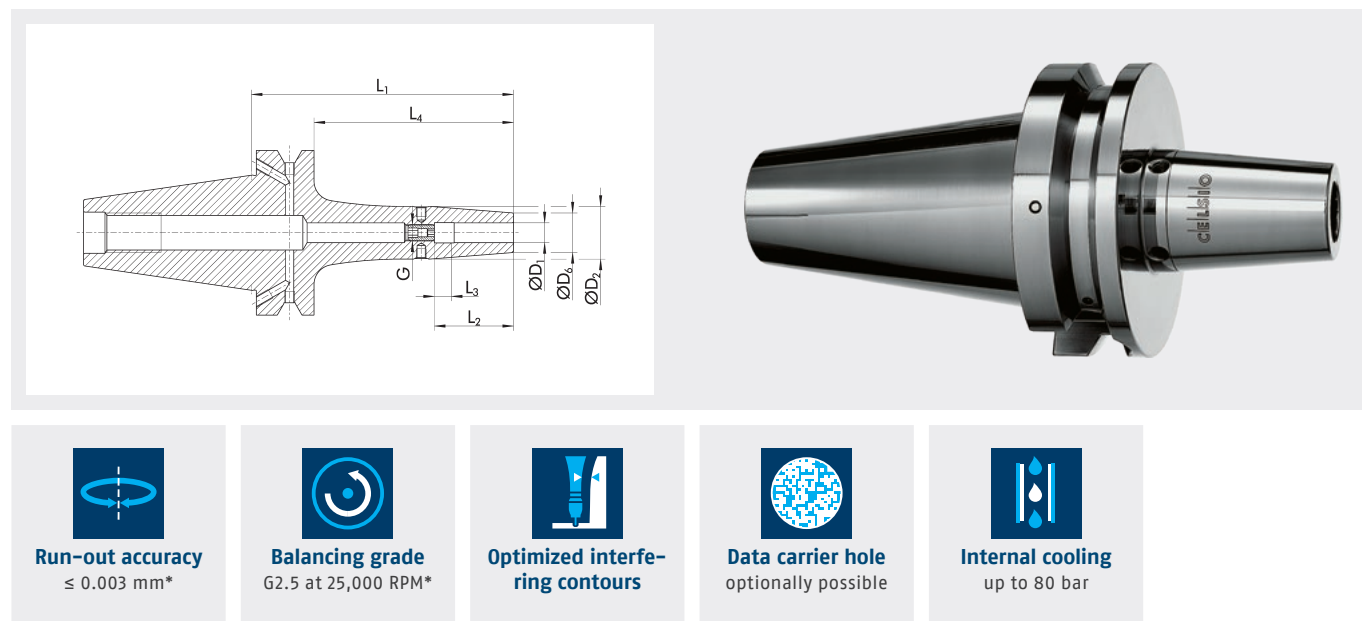
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 50 L₁ =160



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208560	4.5°	6	27	21	160	37	10	122	M5	20	3.2
0208561	4.5°	8	27	21	160	37	10	122	M6	50	3.2
0208562	4.5°	10	32	24	160	42	10	122	M8x1	70	3.3
0208563	4.5°	12	32	24	160	48	10	122	M10x1	150	3.4
0208564	4.5°	14	34	27	160	48	10	122	M10x1	180	3.4
0208565	4.5°	16	34	27	160	51	10	122	M12x1	300	3.5
0208566	4.5°	18	42	33	160	51	10	122	M12x1	370	3.6
0208567	4.5°	20	42	33	160	53	10	122	M16x1	450	3.6
0208568	4.5°	25	53	44	160	59	10	122	M16x1	680	4
0208569	4.5°	32	53	44	160	63	10	122	M16x1	750	4.4

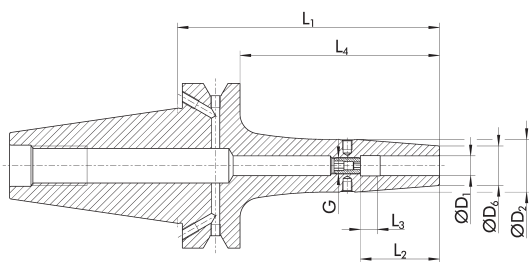
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO JIS-BT 50 L₁ = 200



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0208570	4.5°	6	27	21	200	37	10	162	M5	20	3.7
0208571	4.5°	8	27	21	200	37	10	162	M6	50	3.9
0208572	4.5°	10	32	24	200	42	10	162	M8x1	70	3.8
0208573	4.5°	12	32	24	200	48	10	162	M12x1	150	3.9
0208574	4.5°	14	34	27	200	48	10	162	M10x1	180	3.9
0208575	4.5°	16	34	27	200	51	10	162	M12x1	300	4
0208576	4.5°	18	42	33	200	51	10	162	M12x1	370	4.1
0208577	4.5°	20	42	33	200	53	10	162	M16x1	450	4.1
0208578	4.5°	25	53	44	200	59	10	162	M16x1	680	4.5
0208579	4.5°	32	53	44	200	63	10	162	M16x1	750	5

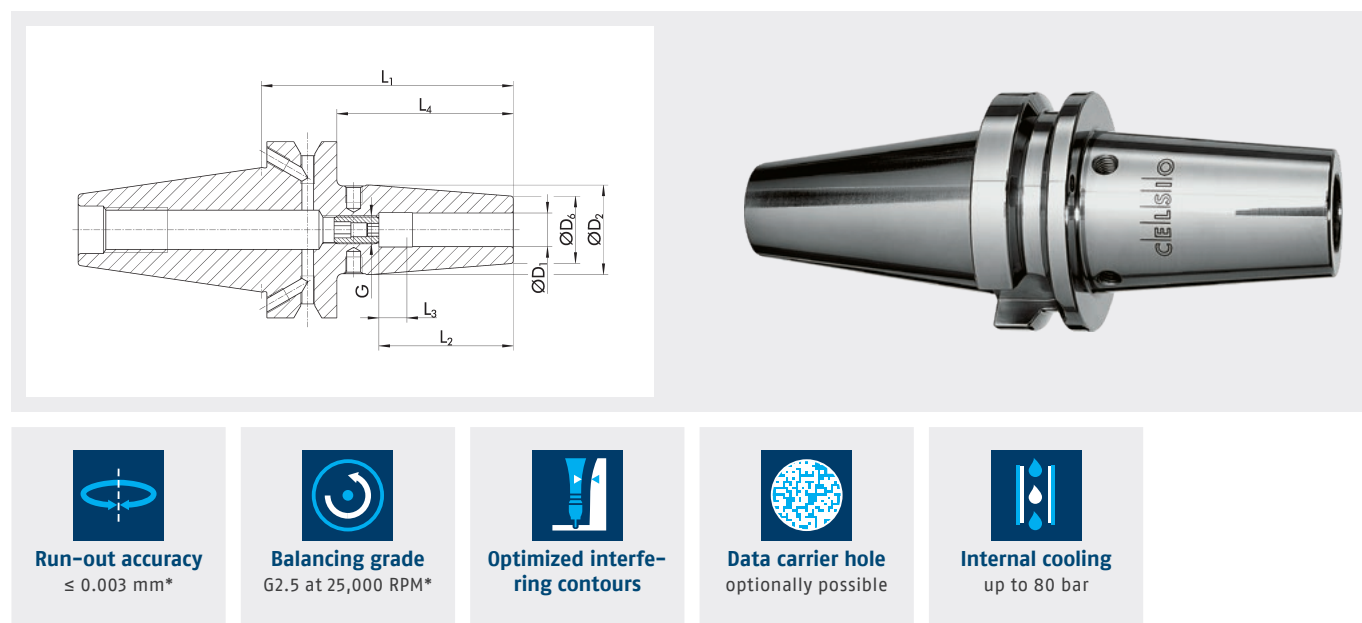
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO BT-DC 30



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1428070	4.5°	3	17	12	80			58		4	1
1428081	4.5°	4	17	12	80			58		6	1
1428087	4.5°	5	17	12	80			58		8	1
1428003	4.5°	6	27	21	80	37	10	58	M5	20	1
1428005	4.5°	8	27	21	80	37	10	58	M6	50	1
1428006	4.5°	10	32	24	80	42	10	58	M8x1	70	1
1428007	4.5°	12	32	24	80	48	10	58	M10x1	150	1
1428008	4.5°	16	34	27	80	51	10	58	M12x1	300	1
1428013	4.5°	20	42	33	90	53	10	68	M16x1	450	1

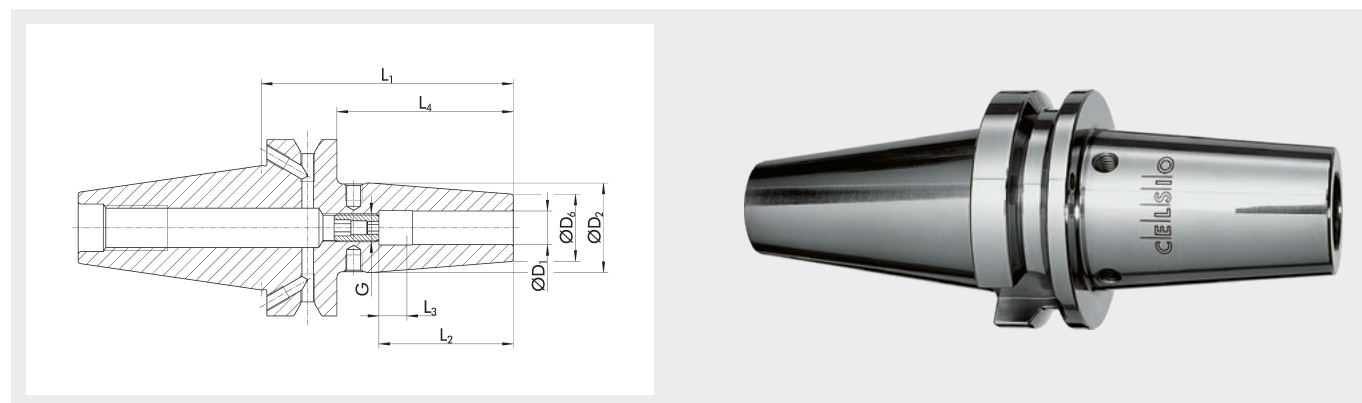
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or $U_{\max} < 1 \text{ gmm}$

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO BT-DC 40



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1428304	4.5°	3	17	12	90			63		4	1.1
1428306	4.5°	4	17	12	90			63		6	1.1
1428307	4.5°	5	17	12	90			63		8	1.1
1428555	4.5°	6	27	21	90	37	10	63	M5	20	1.1
1428560	4.5°	8	27	21	90	37	10	63	M6	50	1.1
1428561	4.5°	10	32	24	90	42	10	63	M8x1	70	1.2
1428563	4.5°	12	32	24	90	48	10	63	M10x1	150	1.2
1428564	4.5°	16	34	27	90	51	10	63	M12x1	300	1.2
1428565	4.5°	20	42	33	90	53	10	63	M16x1	450	1.5
1421577	4.5°	25	53	44	100	59	10	73	M16x1	680	1.8

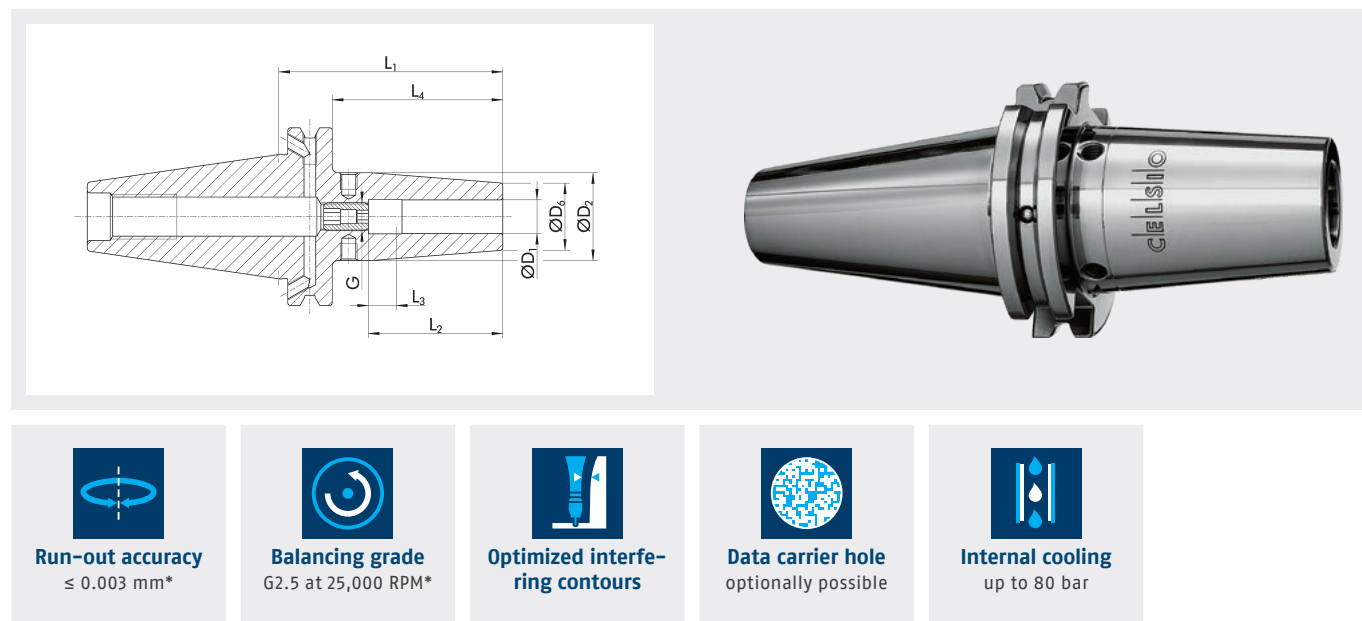
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO CAT 40



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1485928	4.5°	6	27	21	80	36	10	61	M5	20	1
26002051	4.5°	8	27	21	80	36	10	61	M6	52	1
26002042	4.5°	10	32	24	80	42	10	61	M8x1	70	1
26002041	4.5°	12	32	24	80	47	10	61	M10x1	150	1
26002045	4.5°	16	34	27	80	50	10	61	M12x1	300	1
26002555	4.5°	20	42	33	80	52	10	61	M16x1	420	1.2
26002043	4.5°	25	53	44	100	58	10	81	M16x1	550	1.6
1485941	4.5°	32	53	44	100	58	10	81	M16x1	600	1.5

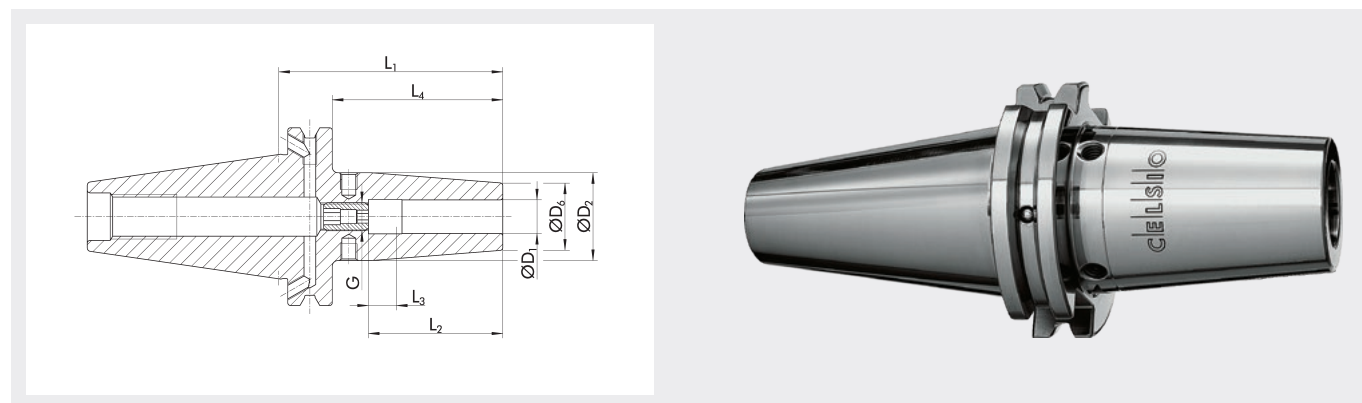
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO CAT 40



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

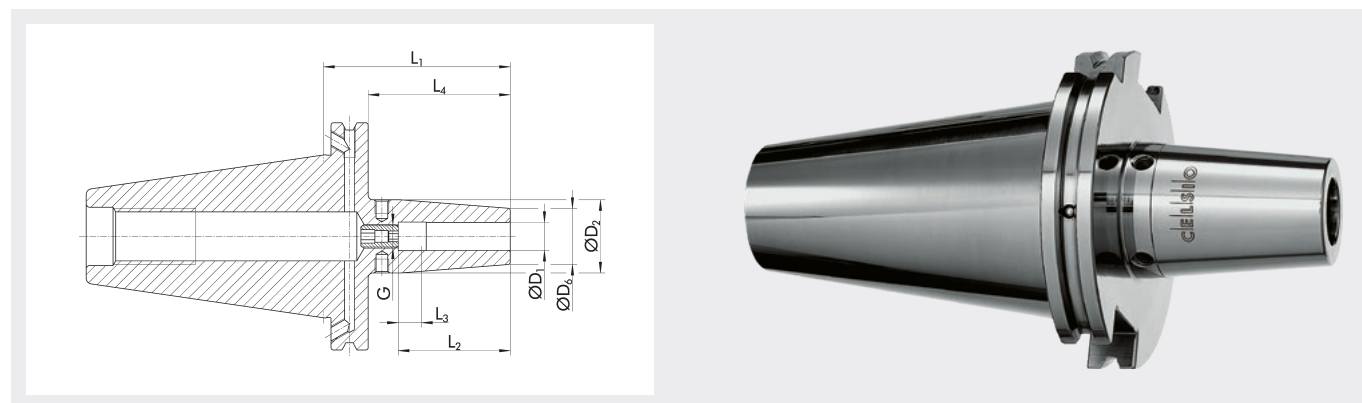
ID	Variant	D1 [Inch]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1485904	4.5°	1/4"	27	21	80	36	10	61	M5	20	1
1485896	4.5°	3/8"	32	24	80	42	10	61	M8x1	70	1
1485910	4.5°	1/2"	32	24	80	47	10	61	M10x1	150	1
1485916	4.5°	5/8"	34	27	80	50	10	61	M12x1	300	1
1485917	4.5°	3/4"	42	33	80	52	10	61	M16x1	420	1.2
1485918	4.5°	1"	53	44	100	58	10	81	M16x1	550	1.6
1485919	4.5°	1 1/4"	53	44	100	58	10	81	M16x1	600	1.5

*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request
Cool Flow available on request

CELSIO CAT 50



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1486401	4.5°	6	27	21	80	36	10	61	M5	20	2.9
26002053	4.5°	8	27	21	80	36	10	61	M6	52	2.9
1486403	4.5°	10	32	24	80	42	10	61	M8x1	70	2.9
26002052	4.5°	12	32	24	80	47	10	61	M10x1	150	2.9
26002085	4.5°	16	34	27	80	50	10	61	M12x1	300	2.9
26002086	4.5°	20	42	33	80	52	10	61	M16x1	420	2.9
1486404	4.5°	25	53	44	100	58	10	81	M16x1	550	3.5
1430373	4.5°	32	53	44	100	58	10	81	M16x1	600	3.4

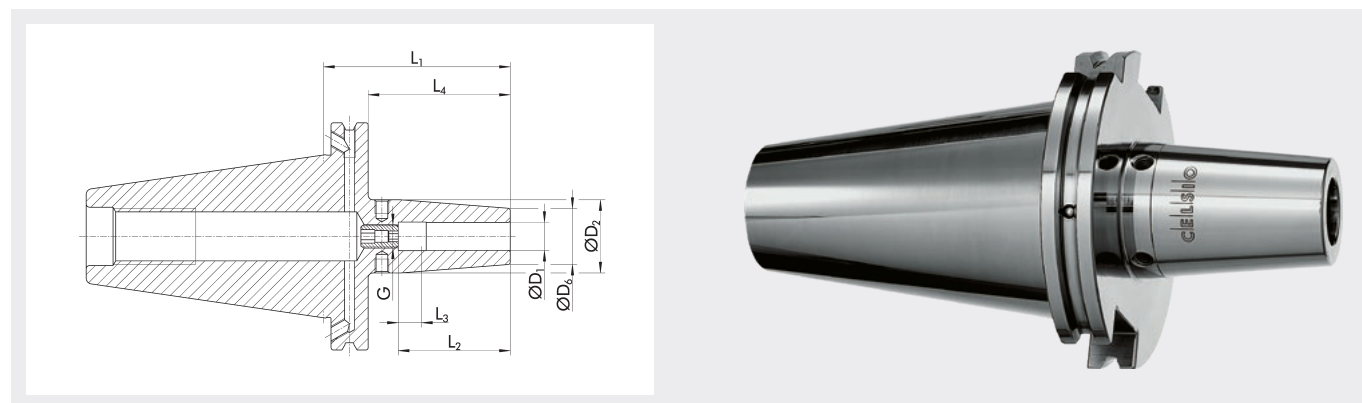
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO CAT 50



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
optionally possible



Internal cooling
up to 80 bar

Technical data

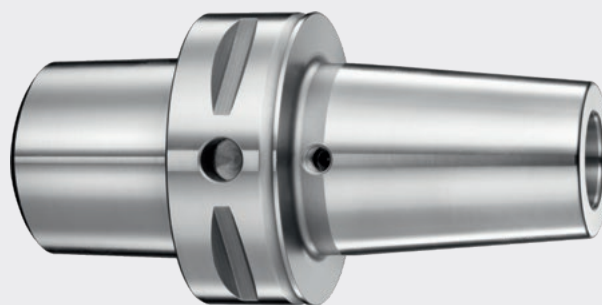
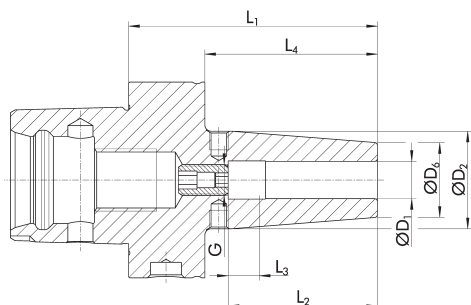
ID	Variant	D1 [Inch]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
1485943	4.5°	1/4"	27	21	80	36	10	61	M5	20	2.9
1485944	4.5°	3/8"	32	24	80	42	10	61	M8x1	70	2.9
1485946	4.5°	1/2"	32	24	80	47	10	61	M10x1	150	2.9
1485948	4.5°	5/8"	34	27	80	50	10	61	M12x1	300	2.9
1485949	4.5°	3/4"	42	33	80	52	10	61	M16x1	420	2.9
1485950	4.5°	1"	53	44	100	58	10	81	M16x1	550	3.5
1485951	4.5°	1 1/4"	53	44	100	58	10	81	M16x1	600	3.4

*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request
Cool Flow available on request

CELSIO SCHUNK CAPTO C4



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26002698	4.5°	6	27	21	75	26	10	52.5	M5	20	0.6
26002836	4.5°	8	27	21	75	26	10	52.5	M6	50	0.6
26002837	4.5°	10	31.4	24	75	42	10	52.5	M8x1	70	0.7
26002838	4.5°	12	31.4	24	75	47	10	52.5	M10x1	150	0.7
26002839	4.5°	14	34	27	80	47	10	57.5	M10x1	180	0.7
26002840	4.5°	16	34	27	80	50	10	57.5	M12x1	300	0.7
26002841	4.5°	18	41.4	33	80	50	10	57.5	M12x1	370	0.8
26002842	4.5°	20	41.4	33	85	52	10	62.5	M16x1	450	0.9

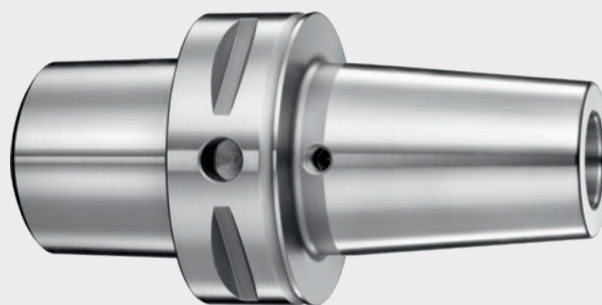
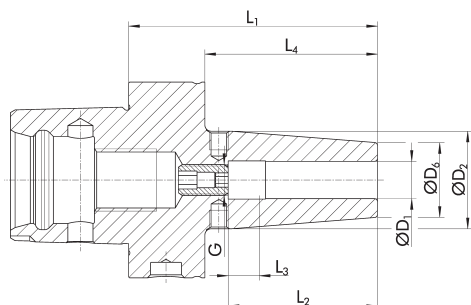
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SCHUNK CAPTO C5



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26002843	4.5°	6	27	21	75	36	10	52.5	M5	20	0.6
26002844	4.5°	8	27	21	75	36	10	52.5	M6	50	0.6
26002845	4.5°	10	31.4	24	75	42	10	52.5	M8x1	70	0.7
26002846	4.5°	12	31.4	24	75	47	10	52.5	M10x1	150	0.7
26002847	4.5°	14	34	27	80	47	10	57.5	M10x1	180	0.7
26002848	4.5°	16	34	27	80	50	10	57.5	M12x1	300	0.7
26002849	4.5°	18	41.4	33	80	50	10	57.5	M12x1	370	0.8
26002850	4.5°	20	41.4	33	85	52	10	62.5	M16x1	450	0.9
26002851	4.5°	25	52.4	44	90	58	10	67.5	M16x1	680	1.2

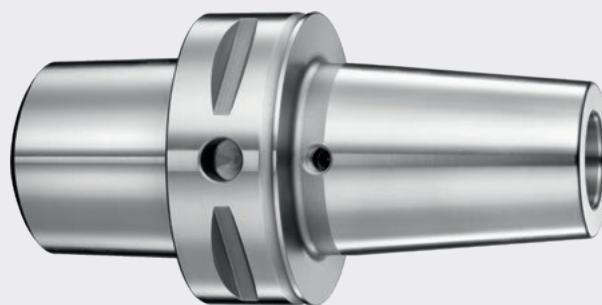
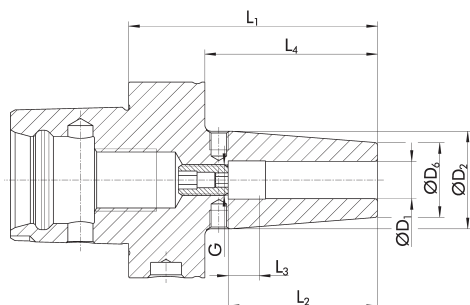
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SCHUNK CAPTO C6



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0243436	4.5°	18	44	33	85	50	10	60.5	M12x1	370	1.3
26002319	4.5°	3	17	12	80			55.5		4	0.9
26001855	4.5°	4	17	12	80			55.5		6	0.9
26002458	4.5°	5	17	12	80			55.5		8	0.9
0243430	4.5°	6	27	21	80	36	10	55.5	M5	20	1
0243431	4.5°	8	27	21	80	36	10	55.5	M6	50	1
0243432	4.5°	10	32	24	80	42	10	55.5	M8x1	70	1
0243433	4.5°	12	32	24	80	47	10	55.5	M10x1	150	1
0243434	4.5°	14	34	27	85	47	10	60.5	M10x1	180	1.1
0243435	4.5°	16	34	27	85	50	10	60.5	M12x1	300	1.1
0243437	4.5°	20	44	33	85	52	10	60.5	M16x1	450	1.3
0243438	4.5°	25	53	44	90	58	10	65.5	M16x1	680	1.5
0243439	4.5°	32	53	44	95	58	10	70.5	M16x1	750	1.5

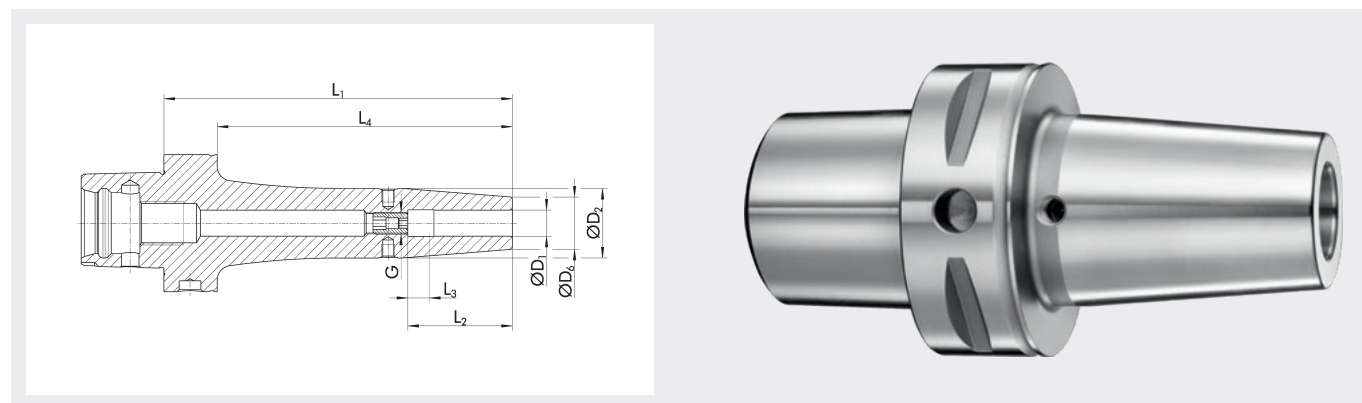
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SCHUNK CAPTO C6 L₁ =120



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0243440	4.5°	6	27	21	120	36	10	95.5	M5	20	1.3
0243441	4.5°	8	27	21	120	36	10	95.5	M6	50	1.3
0243442	4.5°	10	32	24	120	42	10	95.5	M8x1	70	1.4
0243443	4.5°	12	32	24	120	47.5	10	95.5	M10x1	150	1.5
0243444	4.5°	14	34	27	120	47.5	10	95.5	M10x1	180	1.5
0243445	4.5°	16	34	27	120	50	10	95.5	M12x1	300	1.6
0243446	4.5°	18	42	33	120	50.5	10	95.5	M12x1	370	1.6
0243447	4.5°	20	44	33	120	52	10	95.5	M16x1	450	1.8
0243448	4.5°	25	53	44	120	59.5	10	95.5	M16x1	680	2
0243449	4.5°	32	53	44	120	64.5	10	95.5	M16x1	750	2.2

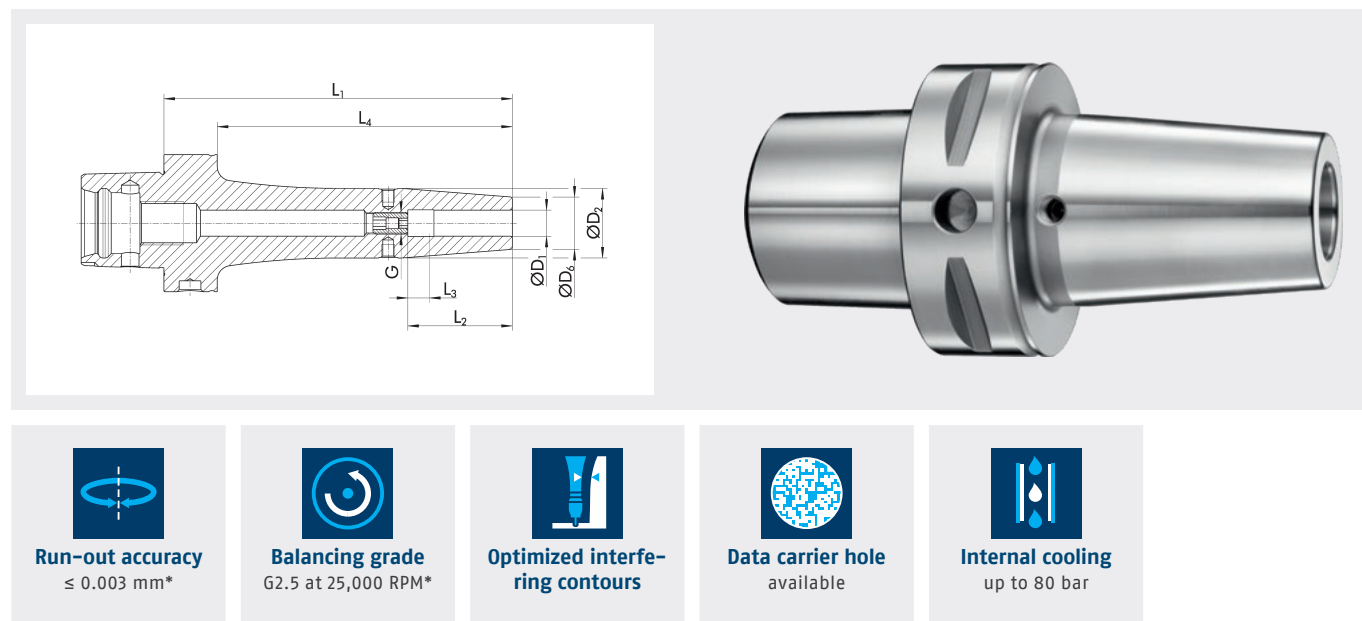
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SCHUNK CAPTO C6 L₁ =160



Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
0243450	4.5°	6	27	21	160	36	10	135.5	M5	20	1.6
0243451	4.5°	8	27	21	160	36	10	135.5	M6	50	1.6
0243452	4.5°	10	32	24	160	42	10	135.5	M8x1	70	1.8
0243453	4.5°	12	32	24	160	47	10	135.5	M10x1	150	1.9
0243454	4.5°	14	34	27	160	47	10	135.5	M10x1	180	1.9
0243455	4.5°	16	34	27	160	50	10	135.5	M12x1	300	1.9
0243456	4.5°	18	44	33	160	50	10	135.5	M12x1	370	2
0243457	4.5°	20	44	33	160	52	10	135.5	M16x1	450	2.2
0243458	4.5°	25	53	44	160	58	10	135.5	M16x1	680	2.4
0243459	4.5°	32	53	44	160	58	10	135.5	M16x1	750	2.8

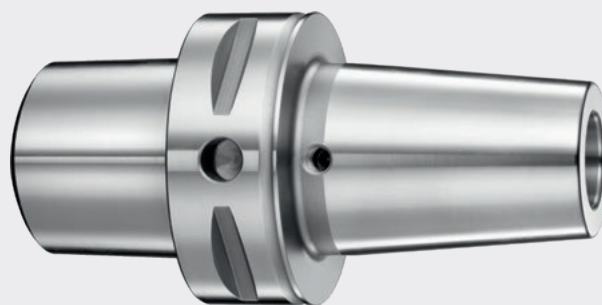
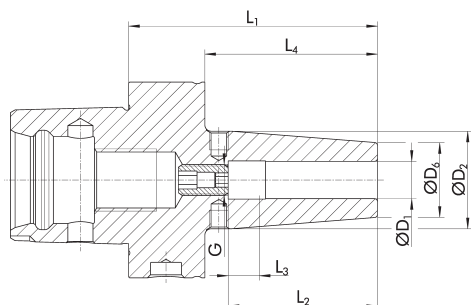
*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or U_{max} < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request

CELSIO SCHUNK CAPTO C8



Run-out accuracy
≤ 0.003 mm*



Balancing grade
G2.5 at 25,000 RPM*



Optimized interfering contours



Data carrier hole
available



Internal cooling
up to 80 bar

Technical data

ID	Variant	D1 [mm]	D2 [mm]	D6 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	G	Mmin [Nm]	Weight [kg]
26002852	4.5°	6	27	21	80	36	10	50	M5	20	1
26002853	4.5°	8	27	21	80	36	10	50	M6	50	1
26002854	4.5°	10	32	24	80	42	10	50	M8x1	70	1
26002855	4.5°	12	32	24	80	47	10	50	M10x1	150	1
26002856	4.5°	14	34	27	85	47	10	55	M10x1	180	1.1
26002857	4.5°	16	34	27	85	50	10	55	M12x1	300	1.1
26002858	4.5°	18	40	33	85	50	10	55	M12x1	370	1.3
26002859	4.5°	20	40	33	85	52	10	55	M16x1	450	1.3
26002860	4.5°	25	53	44	90	58	10	60	M16x1	680	1.5
26002861	4.5°	32	53	44	95	58	10	65	M16x1	750	1.5

*Run-out accuracy: measured in the clamping bore (according to DIN 69882-8)

*Balancing grade: or Umax < 1 gmm

Additional sizes and customized designs are available upon request

Cool Flow available on request



SCHUNK SE & Co. KG

Spanntechnik

Greiftechnik

Automatisierungstechnik

Bahnhofstr. 106 - 134

D-74348 Lauffen/Neckar

Tel. +49-7133-103-0

Fax +49-7133-103-2399

CMS@de.schunk.com

schunk.com