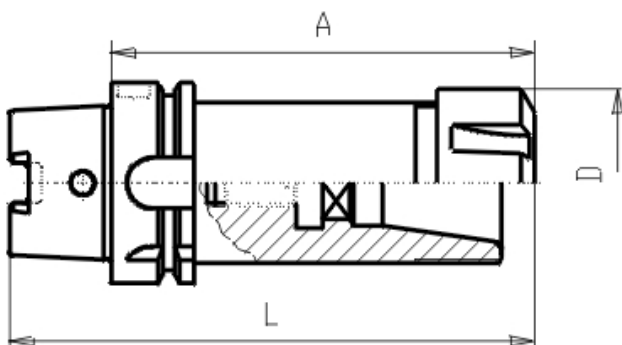




HSK DIN 69893

Collet Chuck ER / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

0208, 02011, 02016, 02020, 02025, 02032, 02040, 02050, G023, 024, 024IK, 024G, 024HU, 024mini,

Verwendung

For clamping of toolings with cylindrical shafts.

Lieferumfang

with clamping-nut DIN 6499.

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Thread, outside-shank and inside-shank for collets grinded. Runout accuracy of outside-shank to inside-shank lmax. 0,005mm

sonstige Bemerkungen

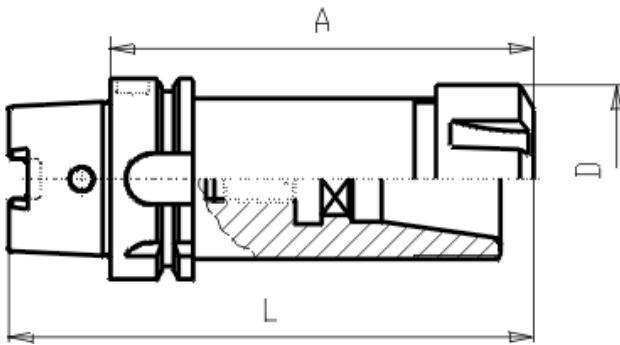
Pre-balanced at G6,3 12.000 rpm

Article-Nr.	HSK	A	L	D	Typ ER	Spannber. ER
G610A63 16x 90	A63	90	122	22	16	1-10
G610A63 16x160y	A63	160	192	22	16	1-10
G610A63 25x 90	A63	90	122	42	25	2-16
G610A63 25x160y	A63	160	192	42	25	2-16
G610A63 32x100	A63	100	132	50	32	3-20
G610A63 32x160y	A63	160	192	50	32	3-20
G610A63 40x120	A63	120	152	63	40	4-26
G610A63 40x160y	A63	160	192	63	40	4-26



HSK DIN 69893

Collet Chuck ER / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

0208, 02011, 02016, 02020, 02025, 02032,
02040, 02050, G023, 024, 024IK, 024G,
024HU, 024mini,

Verwendung

For clamping of toolings with cylindrical shafts.

Lieferumfang

with clamping-nut DIN 6499.

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Thread, outside-shank and inside-shank for collets grinded. Runout accuracy of outside-shank to inside-shank lmax. 0,005mm

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm

Article-Nr.	HSK	A	L	D	Typ ER	Spannber. ER
G610A 1 32x100	A100	100	150	50	32	3-20
G610A 1 32x160	A100	160	210	50	32	3-20
G610A 1 40x120	A100	120	170	63	40	4-26
G610A 1 40x160	A100	160	210	63	40	4-26



HSK DIN 69893

Hydraulic Chuck / HSK A63 G6,3/12.000 rpm

**Verlinkung Zubehör**

01420, 01432,

Verwendung

For clamping of toolings with cylindrical shaft

Lieferumfang

including wrench

Werkstoff

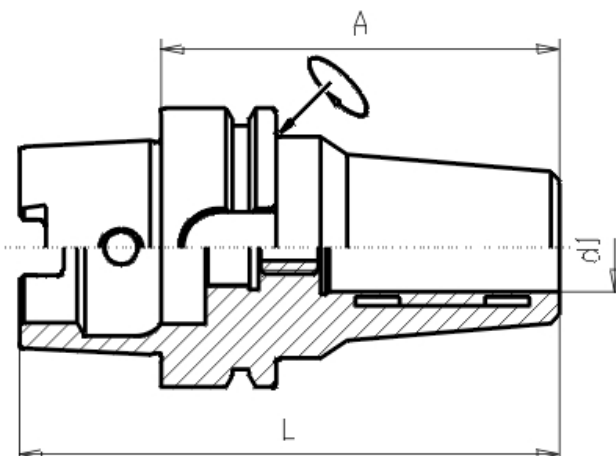
Alloyed case-hardened steel with a tensile strength of 800N/mm

Ausführung

Max runout of 3µm. Balanced at G6,3 15.000 rpm.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	d1	A	L
G614A63 16	A63	16	90	122
G614A63 20	A63	20	90	122
G614A63 32	A63	32	125	157



HSK DIN 69893

Hydraulic Chuck / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

01420, 01432,

Verwendung

For clamping of toolings with cylindrical shaft

Lieferumfang

including wrench

Werkstoff

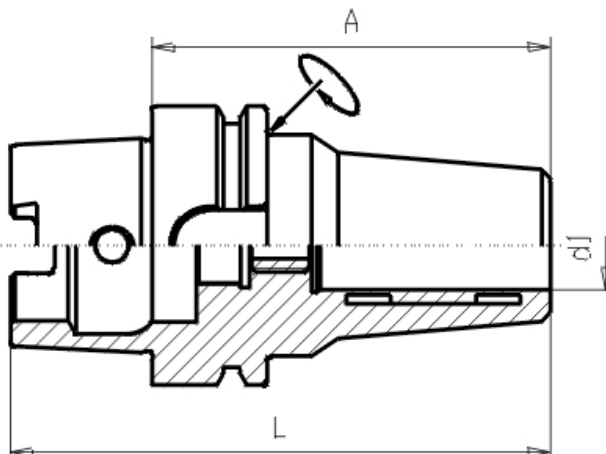
Alloyed case-hardened steel with a tensile strength of 800N/mm

Ausführung

Max runout of 3µm. Balanced at G6,3 15.000 rpm.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	d1	A	L
G614A 1 16	A100	16	100	150
G614A 1 20	A100	20	105	155
G614A 1 32	A100	32	120	170



HSK DIN 69893

Tapping Chuck / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

013 1mit, 013 1ohne, 013 2mit, 013 2ohne, 013 3mit,

Verwendung

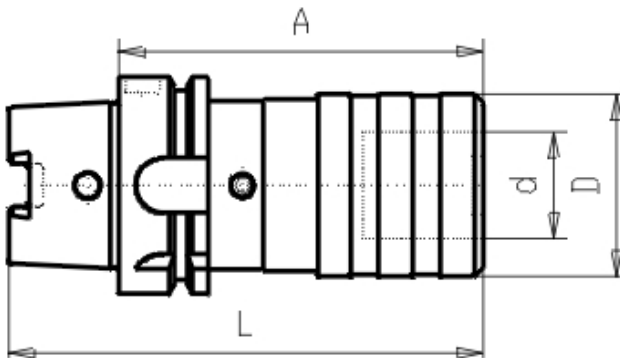
For fixing bushes for tapping chucks see Group 013. The torque of chamfer start can be adjusted mechanical with an hexagon socket screw. With compensation on press and pull

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Shank surface is grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	A	L	d.	D	Größe	Gewinde
G617A63 1(20)	A63	40	72	19	48	1	M3-M12
G617A63 2(20)	A63	107	139	31	60	2	M8-M20



HSK DIN 69893

Tapping Chuck / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

013 1mit, 013 1ohne, 013 2mit, 013 2ohne, 013 3mit,

Verwendung

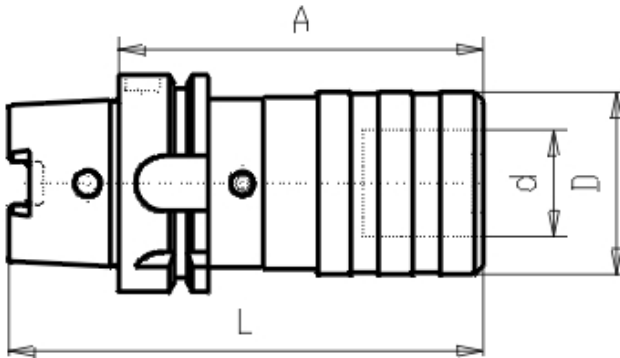
For fixing bushes for tapping chucks see Group 013. The torque of chamfer start can be adjusted mechanical with an hexagon socket screw. With compensation on press and pull

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Shank surface is grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	A	L	d.	D	Größe	Gewinde
G617A 1 1	A100	150	200	19	48	1	M3-M12
G617A 1 2	A100	175	225	31	60	2	M8-M20
G617A 1 3	A100	208	258	48	79	3	M14-M33



HSK DIN 69893

End Mill Holder WELDON / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

01032B, 01020,

Verwendung

For milling-tools with zylindrical shaft type Weldon DIN 1835 Form B. Suitable for central coolant flow

Lieferumfang

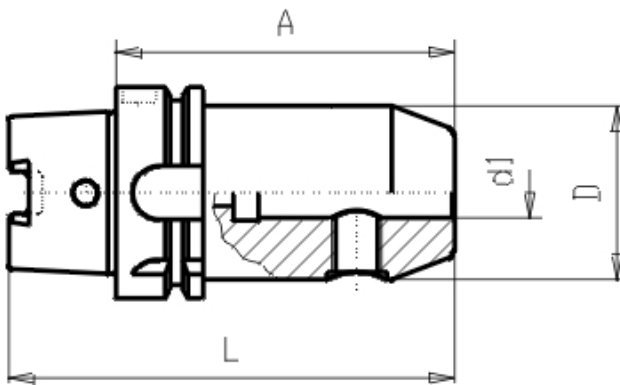
with 1 clamping screw, from Dia 25mm with 2 screws

Werkstoff

Alloyed case-hardened steel with a tensile strength of min. 800 N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC) Shank and zylindrical surface are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	d1	A	L	D
G620A63 6x 65	A63	6	65	97	25
G620A63 6x160	A63	6	160	192	18
G620A63 8x 65	A63	8	65	97	28
G620A63 8x160	A63	8	160	192	22
G620A63 10x 65	A63	10	65	97	35
G620A63 10x160	A63	10	160	192	30
G620A63 12x 80	A63	12	80	112	42
G620A63 12x160	A63	12	160	192	35
G620A63 14x 80	A63	14	80	112	44
G620A63 16x 80	A63	16	80	112	48
G620A63 16x160	A63	16	160	192	42
G620A63 18x 80	A63	18	80	112	50
G620A63 20x 80	A63	20	80	112	52
G620A63 20x160	A63	20	160	192	52
G620A63 25x110	A63	25	110	142	63
G620A63 25x160	A63	25	160	192	65
G620A63 32x110	A63	32	110	142	70
G620A63 32x160	A63	32	160	192	72



HSK DIN 69893

End Mill Holder WELDON / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

01032B, 01020,

Verwendung

For milling-tools with zylindrical shaft type Weldon DIN 1835 Form B. Suitable for central coolant flow

Lieferumfang

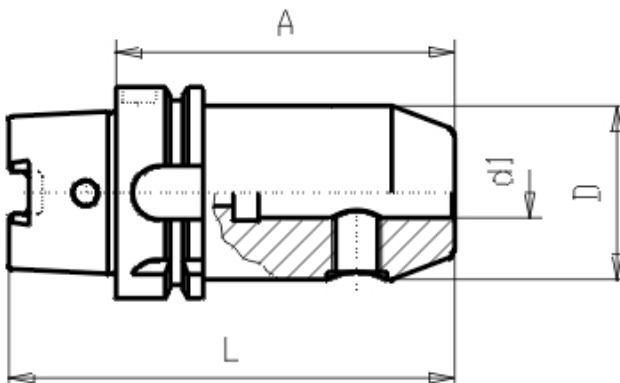
with 1 clamping screw, from Dia 25mm with 2 screws

Werkstoff

Alloyed case-hardened steel with a tensile strength of min. 800 N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC) Shank and zylindrical surface are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	d1	A	L	D
G620A 1 6x 90	A100	6	90	140	25
G620A 1 6x160	A100	6	160	210	18
G620A 1 8x 90	A100	8	90	140	28
G620A 1 8x160	A100	8	160	210	22
G620A 1 10x 90	A100	10	90	140	35
G620A 1 10x160	A100	10	160	210	30
G620A 1 12x100	A100	12	100	150	42
G620A 1 12x160	A100	12	160	210	35
G620A 1 14x100	A100	14	100	150	44
G620A 1 16x100	A100	16	100	150	48
G620A 1 16x160	A100	16	160	210	42
G620A 1 18x100	A100	18	100	150	50
G620A 1 20x110	A100	20	110	160	52
G620A 1 20x160	A100	20	160	210	45
G620A 1 25x120	A100	25	120	170	65
G620A 1 32x120	A100	32	120	170	72
G620A 1 40x120	A100	40	120	170	80



HSK DIN 69893

End Mill Holder Whistle-Notch / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

For milling-tools with zylindrical shaft type
Whistle Notch DIN 1835E / 6359HE

Lieferumfang

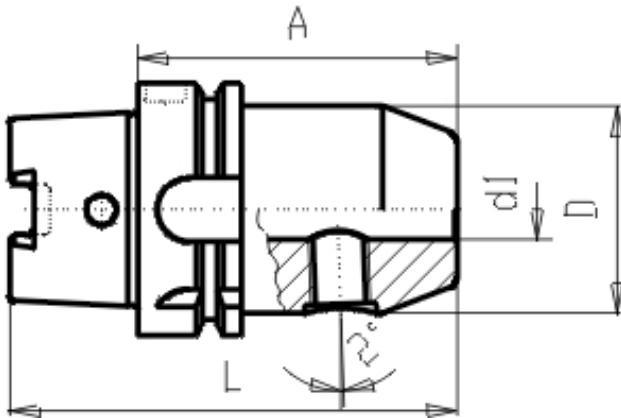
with 1 clamping screw and 1 set screw

Werkstoff

Alloyed case-hardened steel with a tensile strength of min. 800 N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC) Shank and zylindrical surface are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	d1	A	L	D
G621A63 6x 80	A63	6	80	112	25
G621A63 8x 80	A63	8	80	112	28
G621A63 10x 80	A63	10	80	112	35
G621A63 12x 90	A63	12	90	122	42
G621A63 14x 90	A63	14	90	122	44
G621A63 16x100	A63	16	100	132	48
G621A63 18x100	A63	18	100	132	50
G621A63 20x105	A63	20	105	137	52
G621A63 25x110	A63	25	110	142	65
G621A63 32x110	A63	32	110	142	72



HSK DIN 69893

End Mill Holder Whistle-Notch / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

For milling-tools with zylindrical shaft type
Whistle Notch DIN 1835E / 6359HE

Lieferumfang

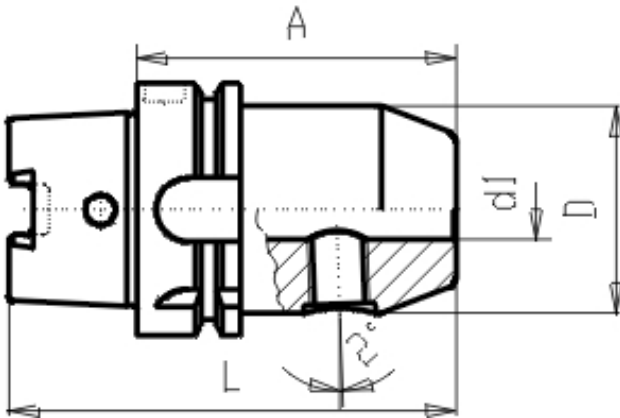
with 1 clamping screw and 1 set screw

Werkstoff

Alloyed case-hardened steel with a tensile strength of min. 800 N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC) Shank and zylindrical surface are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm

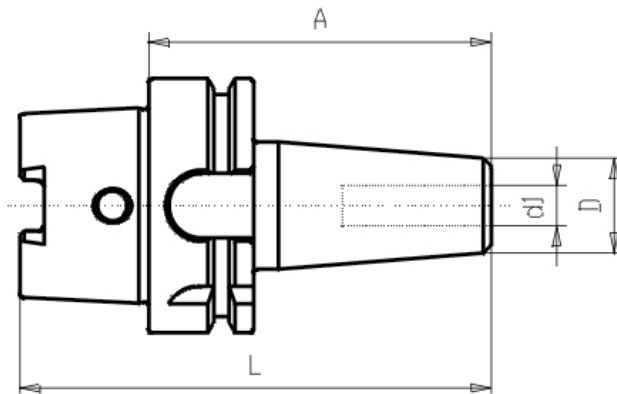


Article-Nr.	HSK	d1	A	L	D
G621A 1 6x 90	A100	6	90	140	25
G621A 1 8x 90	A100	8	90	140	28
G621A 1 10x 90	A100	10	90	140	35
G621A 1 12x100	A100	12	100	150	42
G621A 1 14x100	A100	14	100	150	44
G621A 1 16x100	A100	16	100	150	48
G621A 1 18x100	A100	18	100	150	50
G621A 1 20x110	A100	20	110	160	52
G621A 1 25x120	A100	25	120	170	65
G621A 1 32x120	A100	32	120	170	72
G621A 1 40x130	A100	40	130	180	80



HSK DIN 69893

Shrink Fit Holder / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

For milling-tools with cylindrical shaft type Weldon DIN 1835 Form B. Suitable for internal coolant flow Form AD/B = either central or over collar

Werkstoff

High alloyed special steel for high temperature stability with a tensile strength of 1600 - 1800 N/mm²

Besonderheit

Pre-balanced at G6,3 12.000 rpm

sonstige Bemerkungen

balanced G6,3 at 15.000 rpm. Max. runout 3 µm.

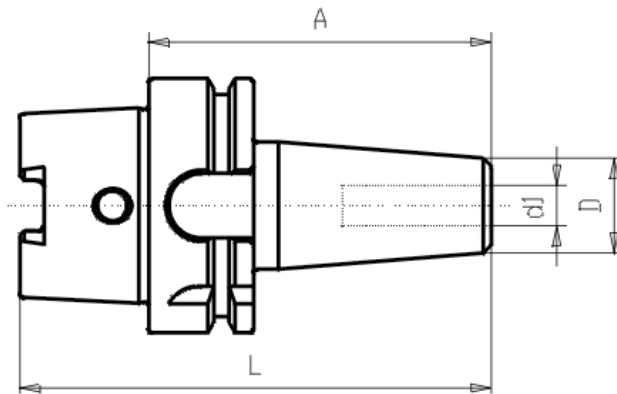
Article-Nr.	HSK	d1	A	L	D
G628A 63x 3x 70	A63	3	70	102	10
G628A 63x 4x 70	A63	4	70	102	15
G628A 63x 5x 70	A63	5	70	102	15
G628A 63x 6x 80	A63	6	80	112	20
G628A 63x 6x120	A63	6	120	152	20
G628A 63x 6x160	A63	6	160	192	20
G628A 63x 8x 80	A63	8	80	112	20
G628A 63x 8x120	A63	8	120	152	20
G628A 63x 8x160	A63	8	160	192	20
G628A 63x10x 85	A63	10	85	117	24
G628A 63x10x120	A63	10	120	152	24
G628A 63x10x160	A63	10	160	192	24
G628A 63x12x 90	A63	12	90	122	24
G628A 63x12x120	A63	12	120	152	24
G628A 63x12x160	A63	12	160	192	24
G628A 63x14x 90	A63	14	90	122	27
G628A 63x14x120	A63	14	120	152	27

Article-Nr.	HSK	d1	A	L	D
G628A 63x16x 95	A63	16	95	127	27
G628A 63x16x120	A63	16	120	152	27
G628A 63x16x160	A63	16	160	192	27
G628A 63x18x 95	A63	18	95	127	33
G628A 63x18x120	A63	18	120	152	33
G628A 63x20x100	A63	20	100	132	33
G628A 63x20x120	A63	20	120	152	33
G628A 63x20x160	A63	20	160	192	33
G628A 63x25x115	A63	25	115	147	44
G628A 63x25x160	A63	25	160	192	44
G628A 63x32x120	A63	32	120	152	44



HSK DIN 69893

Shrink Fit Holder / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

For milling-tools with cylindrical shaft type Weldon DIN 1835 Form B. Suitable for internal coolant flow Form AD/B = either central or over collar

Werkstoff

High alloyed special steel for high temperature stability with a tensile strength of 1600 - 1800 N/mm²

Besonderheit

Pre-balanced at G6,3 12.000 rpm

sonstige Bemerkungen

balanced G6,3 at 15.000 rpm. Max. runout 3 µm.

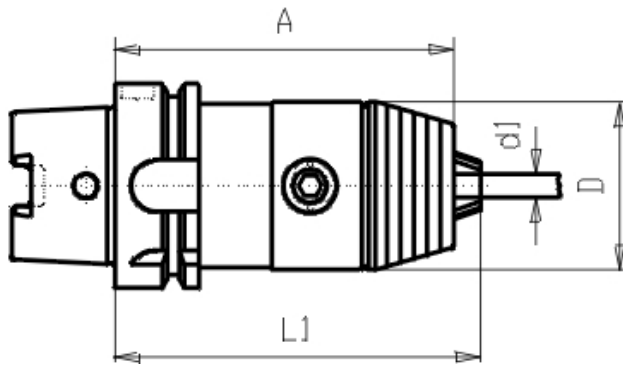
Article-Nr.	HSK	d1	A	L	D
G628A 1 x 6x 85	A100	6	85	135	20
G628A 1 x 6x160	A100	6	160	210	20
G628A 1 x 8x 85	A100	8	85	135	20
G628A 1 x 8x160	A100	8	160	210	20
G628A 1 x10x 90	A100	10	90	140	24
G628A 1 x10x160	A100	10	160	210	24
G628A 1 x12x 95	A100	12	95	145	24
G628A 1 x12x160	A100	12	160	210	24
G628A 1 x14x 95	A100	14	95	145	27
G628A 1 x14x160	A100	14	160	210	27
G628A 1 x16x100	A100	16	100	150	27
G628A 1 x16x160	A100	16	160	210	27
G628A 1 x18x100	A100	18	100	150	33
G628A 1 x18x160	A100	18	160	210	33
G628A 1 x20x105	A100	20	105	155	33
G628A 1 x20x160	A100	20	160	210	33
G628A 1 x25x105	A100	25	105	155	44

Article-Nr.	HSK	d1	A	L	D
G628A 1 x25x160	A100	25	160	210	44
G628A 1 x32x120	A100	32	120	170	44
G628A 1 x32x160	A100	32	160	210	44



HSK DIN 69893

High Precis. Drill Chuck / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

For clamping of toolings with cylindrical shafts
Permissible rotating speed: Clamping range 0,5 - 8 mm max. 25.000 U/min Clamping range 1 - 13 mm max. 20.000 U/min Clamping range 3 - 16 mm max. 15.000 U/min To fit these rotating speed

Lieferumfang

with spanner

Werkstoff

Alloyed case-hardened steel with a tensile strength of min. 800 N/mm². Shank, jacket, clamping jaw and other relevant pieces are hardened and grinded. A manual is attached to every Drill Chuck

sonstige Bemerkungen

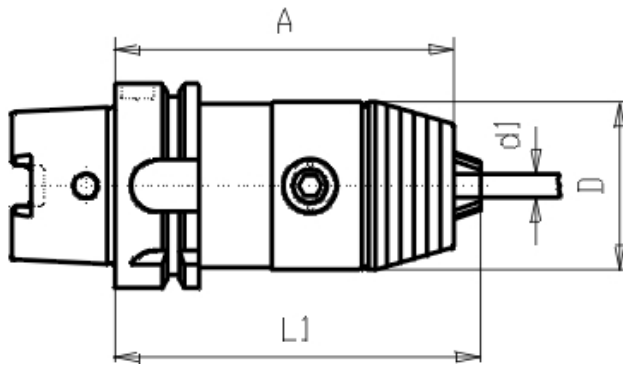
Pre-balanced at G6,3 12.000 rpm

Article-Nr.	HSK	d1	A	l1	D
G634A63 13	A63	1-13	110	116	50
G634A63 16	A63	3-16	115	126	57
G634A63 IK 13	A63	1-13	110	AD	116
G634A63 IK 16	A63	3-16	115	AD	126



HSK DIN 69893

High Precis. Drill Chuck / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

For clamping of toolings with cylindrical shafts
Permissible rotating speed: Clamping range 0,5 - 8 mm max. 25.000 U/min Clamping range 1 - 13 mm max. 20.000 U/min Clamping range 3 - 16 mm max. 15.000 U/min To fit these rotating speed

Lieferumfang

with spanner

Werkstoff

Alloyed case-hardened steel with a tensile strength of min. 800 N/mm². Shank, jacket, clamping jaw and other relevant pieces are hardened and grinded. A manual is attached to every Drill Chuck

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm

Article-Nr.	HSK	d1	A	l1	D
G634A 1 13	A100	1-13	117	123	50
G634A 1 16	A100	3-16	122	133	57
G634A 1 IK 13	A100	1-13	117	AD	123
G634A 1 IK 16	A100	3-16	122	AD	133



HSK DIN 69893

Face Mill Holder / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

G041, G042,

Verwendung

For mounting inserted tool milling cutters with clutch drive.

Lieferumfang

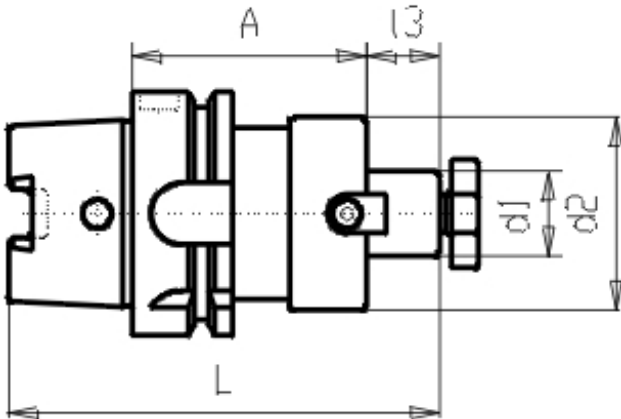
With two fixed drive keys and clamping screw DIN 6367.

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Shank, journal and contact surface are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	d1	A	l3	d2	L
G643A63 16x 45	A63	16	45	17	38	94
G643A63 16x145	A63	16	145	17	32	194
G643A63 22x 50	A63	22	50	19	50	101
G643A63 22x150	A63	22	150	19	40	201
G643A63 27x 60	A63	27	55	21	60	113
G643A63 27x155	A63	27	155	21	48	208
G643A63 32x 60	A63	32	60	24	78	116
G643A63 32x155	A63	32	155	24	58	211
G643A63 40x 60	A63	40	60	27	89	119
G643A63 40x160	A63	40	160	27	70	219



HSK DIN 69893

Face Mill Holder / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

G041, G042,

Verwendung

For mounting inserted tool milling cutters with clutch drive.

Lieferumfang

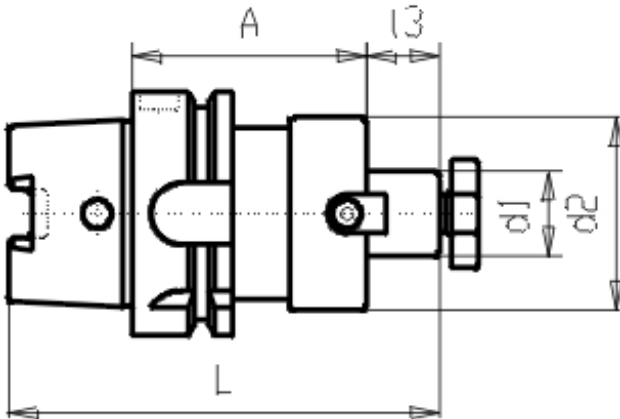
With two fixed drive keys and clamping screw DIN 6367.

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Shank, journal and contact surface are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm

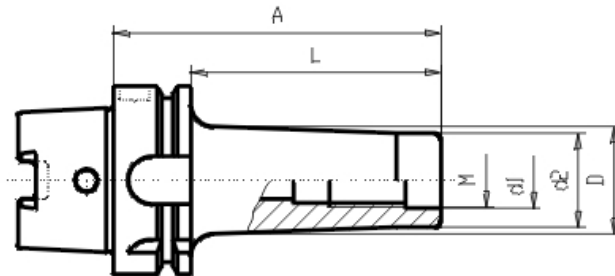


Article-Nr.	HSK	d1	A	l3	d2	L
G643A 1 16x 55	A100	16	55	17	32	122
G643A 1 16x155	A100	16	155	17	32	222
G643A 1 22x 55	A100	22	55	19	40	124
G643A 1 22x155	A100	22	155	19	40	224
G643A 1 27x 55	A100	27	55	21	48	126
G643A 1 27x155	A100	27	155	21	48	226
G643A 1 32x 60	A100	32	60	24	58	134
G643A 1 32x155	A100	32	155	24	58	229
G643A 1 40x 60	A100	40	60	27	70	137
G643A 1 40x160	A100	40	160	27	70	237



HSK DIN 69893

Chuck f. threaded type cutter / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

For clamping threaded type cutter. Form AD/B balanced to 6,3 at 10.000 rpm

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC)

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm

Article-Nr.	HSK	d1	A	d2	L	D	Gewinde
G647A 63x06x 51	A63	6.5	51	10	25	18	M6
G647A 63x08x 51	A63	8.5	51	13	25	22	M8
G647A 63x10x 76	A63	10.5	76	18	50	25	M10
G647A 63x12x 76	A63	12.5	76	21	50	30	M12
G647A 63x16x 76	A63	17	76	29	50	34	M16



HSK DIN 69893

Test Arbor / HSK A63 G6,3/12.000 rpm

Verwendung

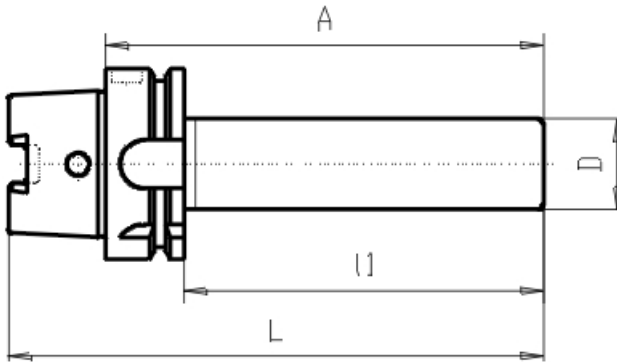
For testing of accuracy of machine spindle

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Shank and control surface are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	A	l1	L
G656A63 40	A63	380	338	412



HSK DIN 69893

Test Arbor / HSK A100 G6,3/12.000 rpm

Verwendung

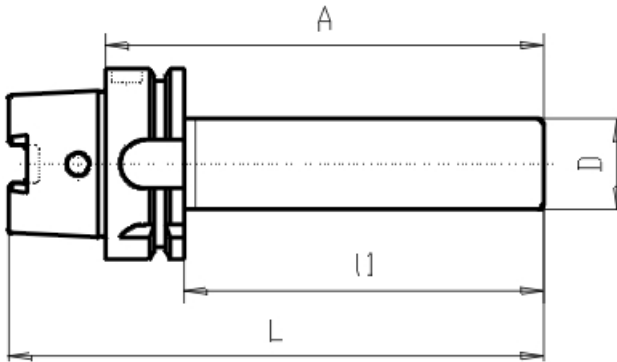
For testing of accuracy of machine spindle

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Shank and control surface are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	A	l1	L
G656A 1 40	A100	350	305	400



HSK DIN 69893

Morse Taper Adaptor / HSK A63 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

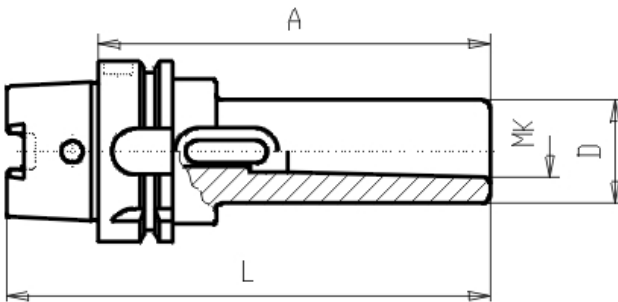
For toolings with morse taper and flat tang

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carnonized according to Vickers min. 630 HV (min. 56 HRC), Outside shank and inside morse taper are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	A	L	D	Innen MK
G660A63 1x100	A63	100	132	25	1
G660A63 2x120	A63	120	152	32	2
G660A63 3x140	A63	140	172	40	3
G660A63 4x160	A63	160	192	48	4



HSK DIN 69893

Morse Taper Adaptor / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

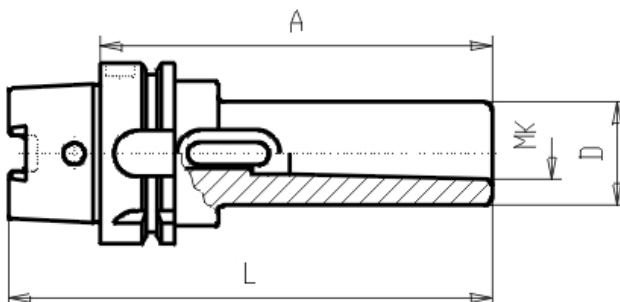
For toolings with morse taper and flat tang

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Outside shank and inside morse taper are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm



Article-Nr.	HSK	A	L	D	Innen MK
G660A 1 2x120	A100	120	170	32	2
G660A 1 3x150	A100	150	200	40	3
G660A 1 4x170	A100	170	220	48	4



HSK DIN 69893

Draw Thread Morse Taper Adap. / HSK A63 G6,3/12.000
rpm



Verlinkung Zubehör

Verwendung

For toolings with morse taper and thread

Lieferumfang

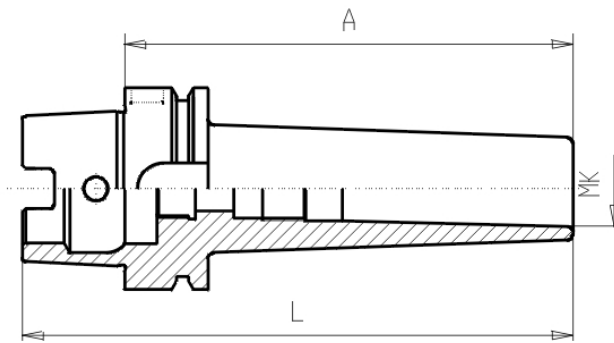
with internal clamping screw

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Outside shank and inside morse taper are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm

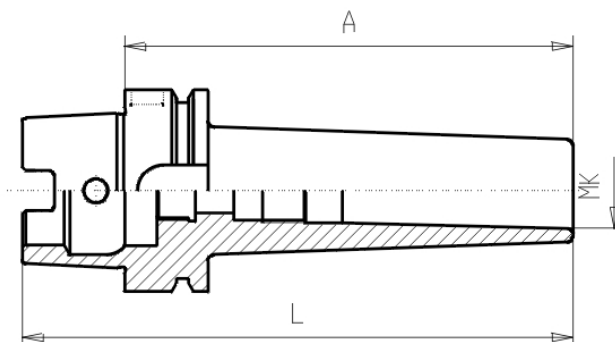


Article-Nr.	HSK	A	L	D	Innen MK
G661A63 1x100	A63	100	132	25	1
G661A63 2x115	A63	115	147	32	2
G661A63 3x135	A63	135	167	40	3
G661A63 4x160	A63	160	192	48	4



HSK DIN 69893

Draw Thread Morse Taper Adap. / HSK A100 G6,3/12.000 rpm



Verlinkung Zubehör

Verwendung

For toolings with morse taper and thread

Lieferumfang

with internal clamping screw

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Carbonized according to Vickers min. 630 HV (min. 56 HRC), Outside shank and inside morse taper are grinded.

sonstige Bemerkungen

Pre-balanced at G6,3 12.000 rpm

Article-Nr.	HSK	A	L	D	Innen MK
G661A 1 2x120	A100	120	170	32	2
G661A 1 3x150	A100	150	200	40	3
G661A 1 4x170	A100	170	220	48	4



HSK DIN 69893

Blank Bar / HSK A63

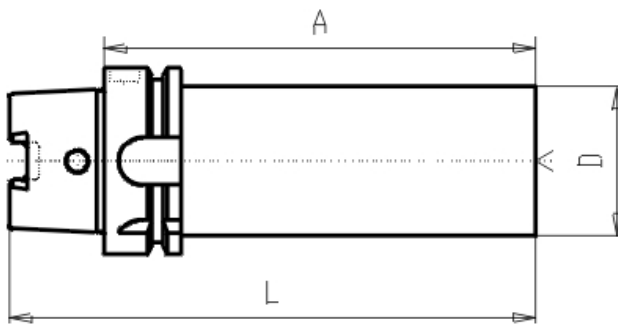


Verwendung

For production of special toolholders

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Shank and collar carbonized according to Vickers min. 630 HV (min. 56 HRC) and grinded. Cylindrical Diameter D is unhardened for further manufacturing.



Article-Nr.	HSK	A	L	D
G699 A63 63x160	A63	160	192	63
G699 A63 63x250	A63	250	282	63
G699 A63 80x250	A63	250	282	80



HSK DIN 69893

Blank Bar / HSK A100

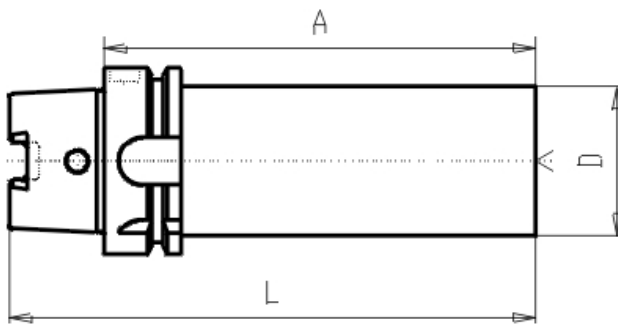


Verwendung

For production of special toolholders

Werkstoff

Alloyed case-hardened steel with a tensile strength of 800N/mm². Shank and collar carbonized according to Vickers min. 630 HV (min. 56 HRC) and grinded. Cylindrical Diameter D is unhardened for further manufacturing.



Article-Nr.	HSK	A	L	D
G699A 1 63x200	A100	200	250	63
G699A 1 90x300	A100	300	350	90

