VERKTYGSHÅLLARE

4

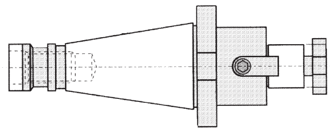
VERKTYGSHÅLLARE

DIN 2080

10

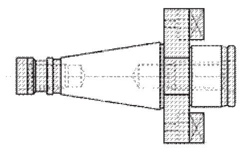
Ändfräsdorn sid 4-5

10.160



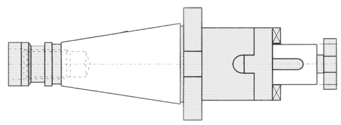
Dorn för planfräs sid 4-5

10.165



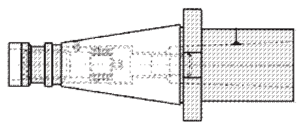
Fräsdorn, kombinerad sid 4-6

10.180



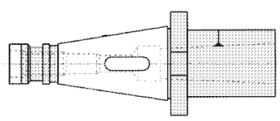
Insatshylsa sid 4-7

10.210



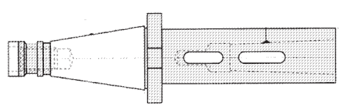
Insatshylsa sid 4-8

10.215



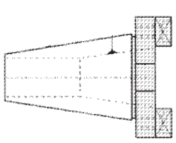
Insatshylsa, förlängd sid 4-8

10.216



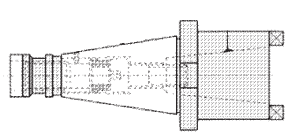
Reducerhylsa sid 4-9

10.220



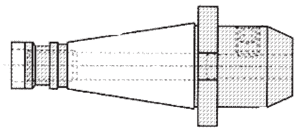
Reducerhylsa sid 4-9

10.225



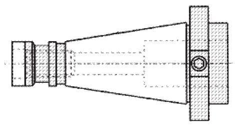
Weldonhållare sid 4-10

10.300



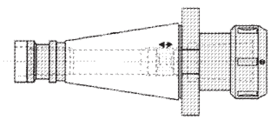
Weldonhållare, kort sid 4-11

10.302



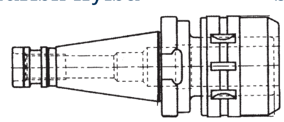
Spännhylschuck, hylsa DIN 6388 sid 4-11

10.351



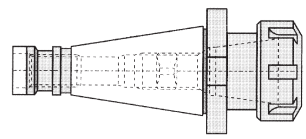
Spännhylschuck, cylindrisk hylsa sid 4-12

10.370



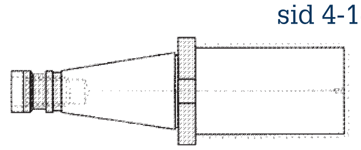
Spännhylschuck, hylsa DIN 6499 sid 4-13

10.453



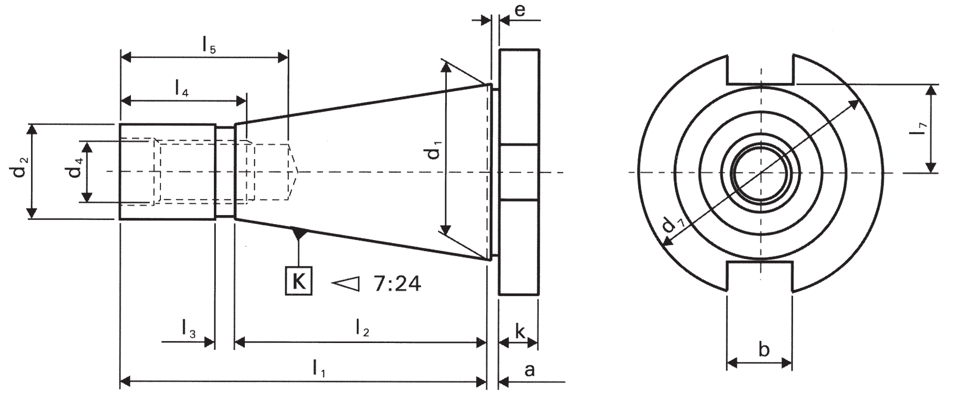
Obearbetade ämne sid 4-14

10.470



Verktygskona enligt DIN 2080

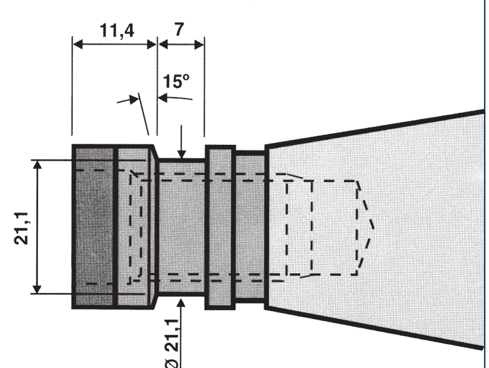
DIN 2080



K	a+0,2	bH12	d1	d2	d4	d7	k
30	1,6	16,1	31,75	17,4	M 12	50	8
40	1,6	16,1	44,45	25,3	M 16	63	10
45	3,2	19,3	57,15	32,4	M 20	80	12
50	3,2	25,7	69,85	39,6	M 24	97,5	12
60	3,2	25,7	107,95	60,2	M 30	156	16

K	l1	l2	l3	l4	l5 min	l7 max
30	68,4	48,4	3	24	33,5	16,2
40	93,4	65,4	5	32	42,5	22,5
45	106,8	82,8	6	40	52,5	29
50	126,8	101,8	8	47	61,5	35,3
60	206,8	161,8	10	59	76	60

KONA



Alla ISO 40 verktyg tillverkas enligt DIN 2080 med MAHO-spår.
Kona ISO 50 med MAHO-spår endast på begäran.

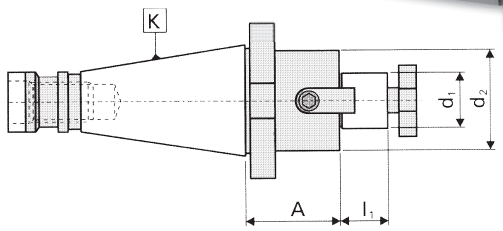
DIN 2080

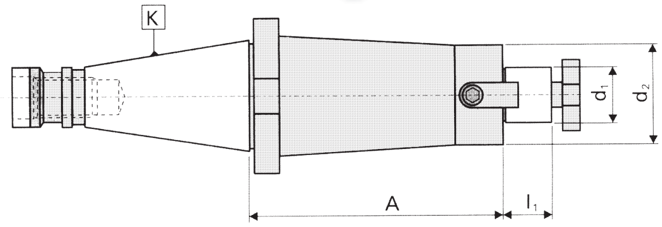
10.160

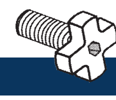
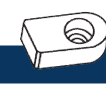
ISO 3937

Ändfräsdorn

För fräs med drivspår enl. DIN 138





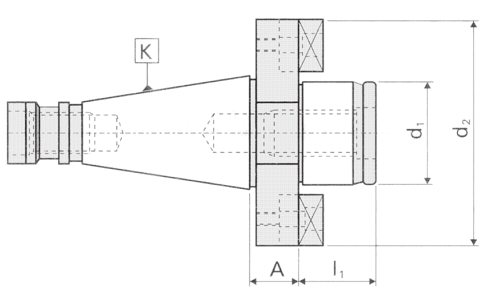
Artikel nr	K ISO	d1 h6 mm	A mm	l1 mm	d2 mm		
10.160.30.16	30	16	35	17	32	89.100.16	89.171.16
10.160.30.22	30	22	35	19	40	89.100.22	89.171.22
10.160.30.27	30	27	35	21	48	89.100.27	89.171.27
10.160.30.32	30	32	35	24	58	89.100.32	89.171.32
10.160.40.16	40	16	45	17	38	89.100.16	89.171.16
10.160.40.16/100	40	16	100	17	38	89.100.16	89.171.16
10.160.40.22	40	22	45	19	48	89.100.22	89.171.22
10.160.40.22/100	40	22	100	19	48	89.100.22	89.171.22
10.160.40.27	40	27	45	21	58	89.100.27	89.171.27
10.160.40.27/100	40	27	100	21	58	89.100.27	89.171.27
10.160.40.32	40	32	50	24	78	89.100.32	89.171.32
10.160.40.40	40	40	55	27	88	89.100.40	89.171.40
10.160.50.16	50	16	45	17	38	89.100.16	89.171.16
10.160.50.16/100	50	16	100	17	38	89.100.16	89.171.16
10.160.50.16/150	50	16	150	17	38	89.100.16	89.171.16
10.160.50.22	50	22	45	19	48	89.100.22	89.171.22
10.160.50.22/100	50	22	100	19	48	89.100.22	89.171.22
10.160.50.22/150	50	22	150	19	48	89.100.22	89.171.22
10.160.50.27	50	27	45	21	58	89.100.27	89.171.27
10.160.50.27/150	50	27	150	21	58	89.100.27	89.171.27
10.160.50.32	50	32	50	24	78	89.100.32	89.171.32
10.160.50.32/150	50	32	150	24	63	89.100.32	89.171.32
10.160.50.40	50	40	50	27	88	89.100.40	89.171.40
10.160.50.40/150	50	40	150	27	73	89.100.40	89.171.40
10.160.50.50	50	50	40	30	90	89.100.50	89.171.50

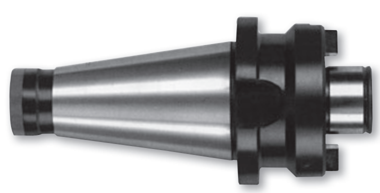
DIN 2080

10.165

DIN 6357- Form A

Dorn för planfräs





Artikel nr	K ISO	d1 g5 mm	A mm	d2 mm	l1 mm	
10.165.40.40	40	40	46,6	89	30	89.172.40
10.165.50.40	50	40	53,2	89	30	89.172.40
10.165.50.60	50	60	70,2	129	40	89.172.60

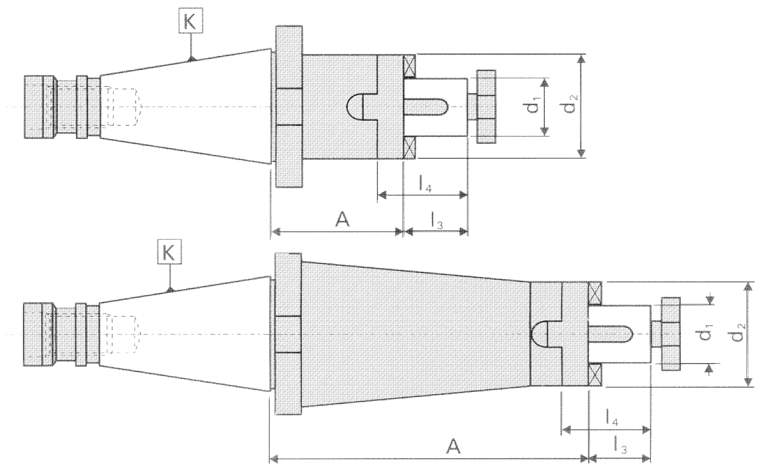
DIN 2080

10.180

DIN 6358- Form A

Kombinerad fräsdorn

För fräs med längsgående spår eller drivspår enl. DIN 138



Artikel nr	K ISO	d1 h6 mm	A mm	l3 mm	l4 mm	d2 mm			
10.180.30.16	30	16	35	17	27	32	89.100.16	89.161.16	89.141.16
10.180.30.22	30	22	35	19	31	40	89.100.22	89.161.22	89.141.22
10.180.30.27	30	27	35	21	33	48	89.100.27	89.161.27	89.141.27
10.180.30.32	30	32	50	24	38	58	89.100.32	89.161.32	89.141.32
10.180.40.16	40	16	52	17	27	32	89.100.16	89.161.16	89.141.16
10.180.40.16/125	40	16	125	17	27	32	89.100.16	89.161.16	89.141.16
10.180.40.22	40	22	52	19	31	40	89.100.22	89.161.22	89.141.22
10.180.40.22/100	40	22	100	19	31	40	89.100.22	89.161.22	89.141.22
10.180.40.27	40	27	52	21	33	48	89.100.27	89.161.27	89.141.27
10.180.40.27/100	40	27	100	21	33	48	89.100.27	89.161.27	89.141.27
10.180.40.32	40	32	52	24	38	58	89.100.32	89.161.32	89.141.32
10.180.40.40	40	40	52	27	41	70	89.100.40	89.161.40	89.141.40
10.180.50.16	50	16	55	17	27	32	89.100.16	89.161.16	89.141.16
10.180.50.22	50	22	55	19	31	40	89.100.22	89.161.22	89.141.22
10.180.50.22/100	50	22	100	19	31	40	89.100.22	89.161.22	89.141.22
10.180.50.22/200	50	22	200	19	31	40	89.100.22	89.161.22	89.141.22
10.180.50.27	50	27	55	21	33	48	89.100.27	89.161.27	89.141.27
10.180.50.27/200	50	27	200	21	33	48	89.100.27	89.161.27	89.141.27
10.180.50.32	50	32	55	24	38	58	89.100.32	89.161.32	89.141.32
10.180.50.32/200	50	32	200	24	38	58	89.100.32	89.161.32	89.141.32
10.180.50.40	50	40	55	27	41	70	89.100.40	89.161.40	89.141.40
10.180.50.50	50	50	55	30	46	90	89.100.50	89.161.40	89.141.50

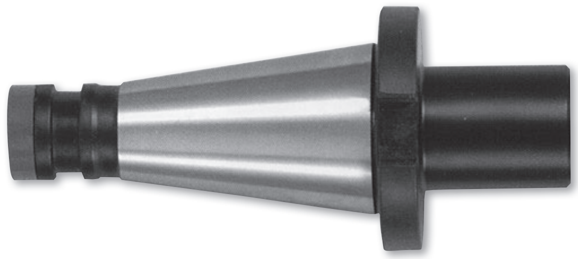
DIN 2080

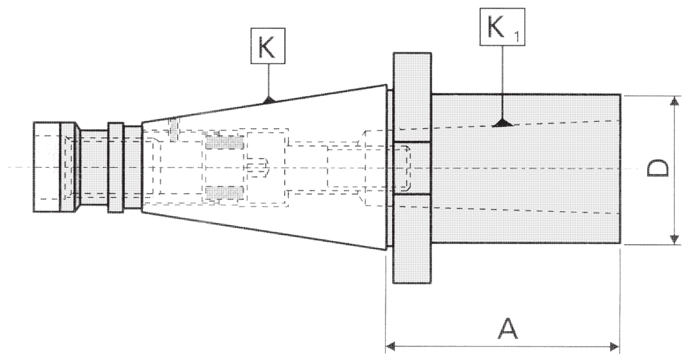
10.210

DIN 6364- Form A
ISO 5415

Insatshylsa

Avsedd för verktyg med MK-kona och dragstångsgänga enl. DIN 228-A





Artikel nr	K ISO	K1 MORSE	A mm	D mm		
10.210.30.01	30	1	50	25	89.195.31	89.120.26
10.210.30.02	30	2	50	32	89.195.32	89.124.18
10.210.30.03	30	3	78	40	89.195.33	89.124.29
10.210.40.01	40	1	50	25	89.195.41	89.120.28
10.210.40.02	40	2	50	32	89.195.42	89.120.52
10.210.40.03	40	3	65	40	89.195.43	89.120.69
10.210.40.04	40	4	95	48	89.195.44	89.124.35
10.210.40.04/1	40	4*	95	63	89.195.44	89.124.35
10.210.50.01	50	1	45	25	89.195.51	89.120.36
10.210.50.02	50	2	60	32	89.195.52	89.120.61
10.210.50.03	50	3	65	40	89.195.53	89.120.75
10.210.50.04	50	4	65	48	89.195.54	89.120.81
10.210.50.05	50	5	120	63	89.195.55	89.120.91

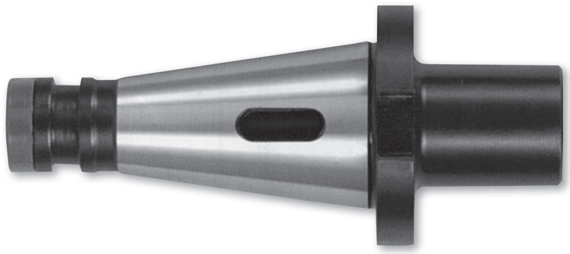
DIN 2080

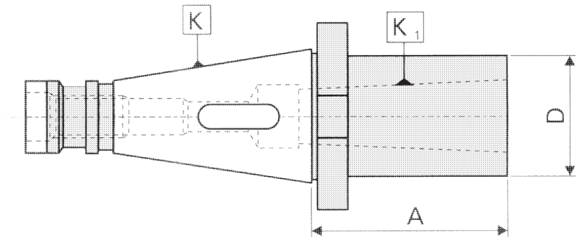
10.215

DIN 6383
ISO 4202

Insatshylsa

Avsedd för verktyg med MK-kona och tunga





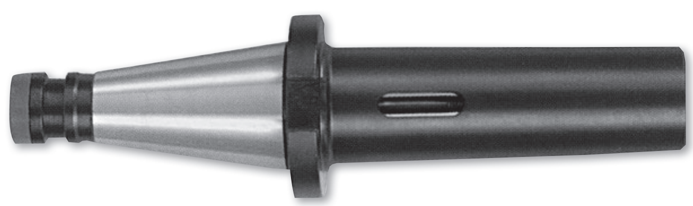
Artikel nr	K ISO	K1 MORSE	A mm	D mm
10.215.30.01	30	1	50	25
10.215.30.02	30	2	50	32
10.215.30.03	30	3	72	40
10.215.40.01	40	1	50	25
10.215.40.02	40	2	50	32
10.215.40.03	40	3	65	40
10.215.40.04	40	4	95	48
10.215.40.05	40	5	170	63
10.215.50.01	50	1	45	25
10.215.50.02	50	2	60	32
10.215.50.03	50	3	65	40
10.215.50.04	50	4	70	48
10.215.50.05	50	5	105	63

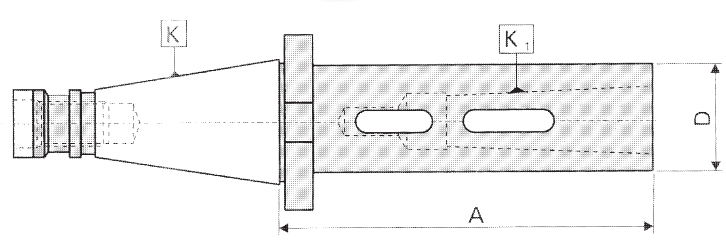
DIN 2080

10.216

Förlängd insatshylsa

Avsedd för verktyg med MK-kona och tunga





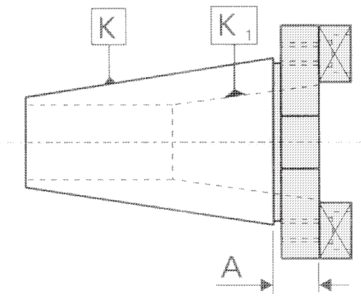
Artikel nr	K ISO	K1 MORSE	A mm	D mm
10.216.40.02	40	2	110	32
10.216.40.03	40	3	135	40
10.216.40.04	40	4	160	48
10.216.50.02	50	2	115	32
10.216.50.03	50	3	140	40
10.216.50.04	50	4	165	48
10.216.50.05	50	5	215	63

DIN 2080

Reduceringshylsa

10.220

Avsedd för verktyg med ISO-kona



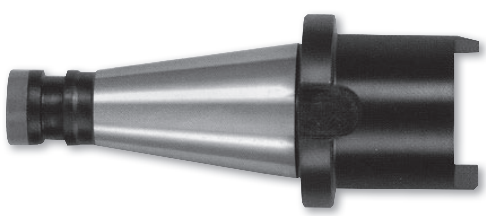
Artikel nr	K ISO	K1 ISO	A mm	
10.220.40.30	40	30	19	89.174.30
10.220.50.30	50	30	23	89.174.40
10.220.50.40	50	40	23	89.174.40

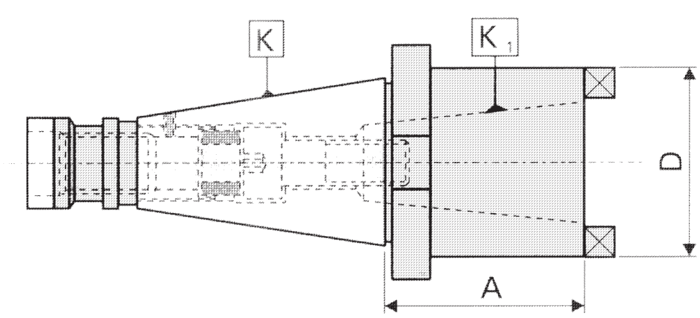
DIN 2080

Reduceringshylsa

10.225

Avsedd för verktyg med ISO-kona (med gänga)





Artikel nr	K ISO	K1 ISO	A mm	D mm		
10.225.40.30	40	30	50	50	89.195.43	89.120.69
10.225.50.30	50	30	50	50	89.195.53	89.120.76
10.225.50.40	50	40	50	50	89.195.54	89.120.81

4

VERKTYGSHÅLLARE

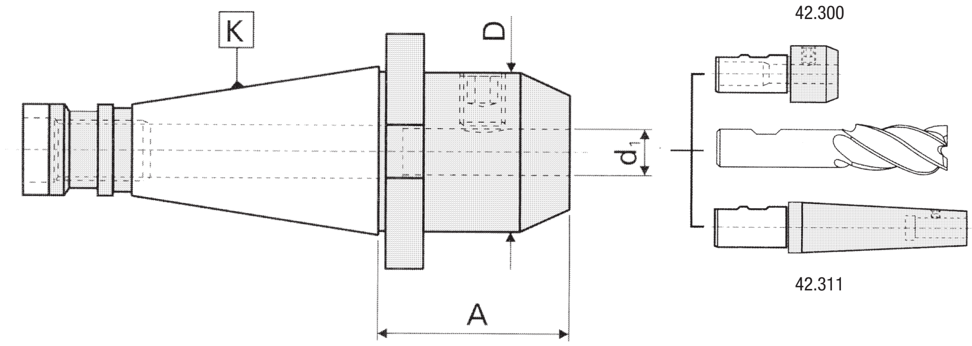
Weldonhållare

DIN 2080

10.300

DIN 6359- Form A
ISO 5414

För pinnfräs med cylindriskt skaft enl. Weldon DIN 1835-B



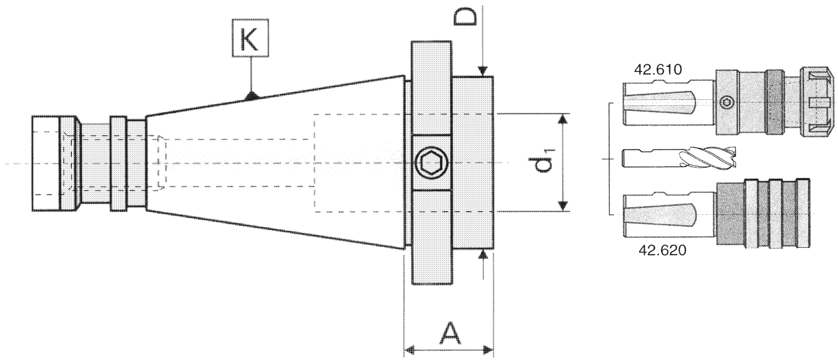
Artikel nr	K ISO	d1H4 mm	A mm	D mm	
10.300.30.06	30	6	40	25	89.122.20
10.300.30.08	30	8	40	28	89.122.35
10.300.30.10	30	10	40	35	89.122.40
10.300.30.12	30	12	40	42	89.122.50
10.300.30.14	30	14	50	44	89.122.50
10.300.30.16	30	16	50	48	89.122.60
10.300.30.18	30	18	50	50	89.122.60
10.300.30.20	30	20	63	52	89.122.60
10.300.40.06	40	6	50	25	89.122.20
10.300.40.08	40	8	50	28	89.122.35
10.300.40.10	40	10	50	35	89.122.40
10.300.40.12	40	12	50	42	89.122.50
10.300.40.14	40	14	63	44	89.122.50
10.300.40.16	40	16	63	48	89.122.60
10.300.40.18	40	18	63	50	89.122.60
10.300.40.20	40	20	63	52	89.122.65
10.300.40.25	40	25	90	65	89.122.75
10.300.40.32	40	32	90	72	89.122.80
10.300.40.40	40	40	102	90	89.122.80
10.300.50.06	50	6	63	25	89.122.20
10.300.50.08	50	8	63	28	89.122.35
10.300.50.10	50	10	63	35	89.122.40
10.300.50.12	50	12	63	42	89.122.50
10.300.50.14	50	14	63	44	89.122.50
10.300.50.16	50	16	63	48	89.122.60
10.300.50.18	50	18	63	50	89.122.60
10.300.50.20	50	20	63	52	89.122.65
10.300.50.25	50	25	80	65	89.122.75
10.300.50.32	50	32	85	72	89.122.80
10.300.50.40	50	40	95	78	89.122.80
10.300.50.50	50	50	100	98	89.122.85

DIN 2080

10.302

Weldonhållare kort modell

Avsedd för pinnfräs med cylindriskt skaft enligt Weldon DIN 1835-A



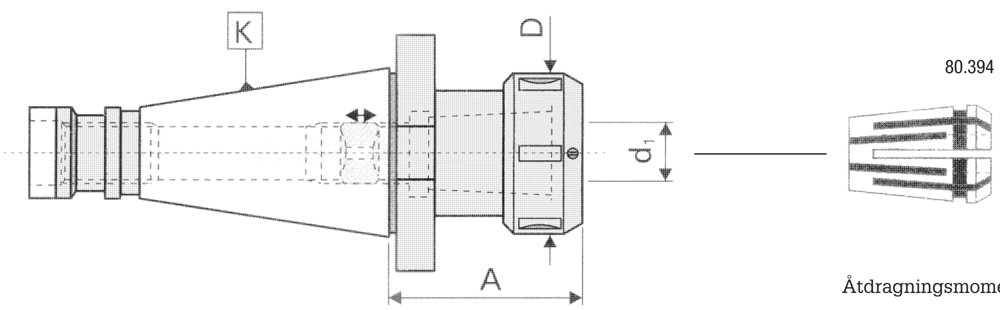
Artikel nr	K ISO	d1H4 mm	A mm	D mm	
10.302.30.16	30	16	20	32	89.122.57
10.302.30.20	30	20	34	36	89.122.56
10.302.40.16	40	16	22	44	89.122.59
10.302.40.20	40	20	22	44	89.122.63
10.302.40.25	40	25	22	44	89.122.69
10.302.50.16	50	16	16	---	89.122.60
10.302.50.20	50	20	16	---	89.122.65
10.302.50.25	50	25	16	---	89.122.75
10.302.50.32	50	32	16	---	89.122.78

DIN 2080

10.351

Spännhylschuck

Avsedd för hylsa enligt DIN 6388



Åtdragningsmoment - 150 Nm - Ø 20

Med kullagrad mutter

Artikel nr	A mm		D mm	d1	Hylsa
10.351.30.25	60	80.391.25	60	3-25	462E
10.351.40.16	50	80.391.16	43	2-16	415E
10.351.40.25	63	80.391.25	60	3-25	462E
10.351.40.32	90	80.391.32	72	4-32	467E
10.351.50.25	63	80.391.25	60	3-25	462E
10.351.50.32	70	80.391.32	72	4-32	467E
10.351.50.40	70	80.391.40	85	10-40	468E

Kraftchuck med cylindriska hylsor

Mutter med nållager

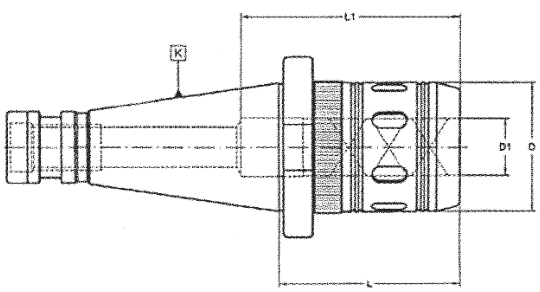
- Stor fastspänningskraft
- Stor stabilitet (kort överhäng)
- Bättre åtkomlighet med förminskad ytterdiameter på muttern
- Underhållsfri
- Direkt tätning.
  Tack vare en ny konstruktion av den inre delen av chucken får man en perfekt tätning.
- Tätning via spännhylsan
  Med den nya spännhylsan får man också en perfekt tätning

DIN 2080-AD

10.370

Kraftchuck

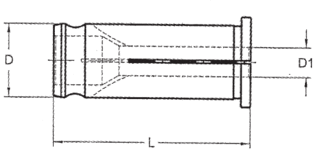
För verktyg med cylindriska skaft, DIN 2080-AD

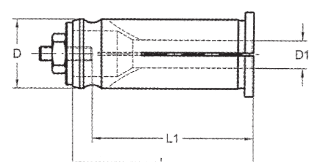


Artikel nr	Kona	D1 Max	L	L1	D
10.370.40.20	40	20	65	60	46
10.370.40.32	40	32	80	75	62
10.370.50.20	50	20	70	60	46
10.370.50.32	50	32	75	80	62

Dynamisk balansering upp till
15000 rpm SK40/HSK63
10000 rpm SK50/HSK100

Tätande spännhylsor





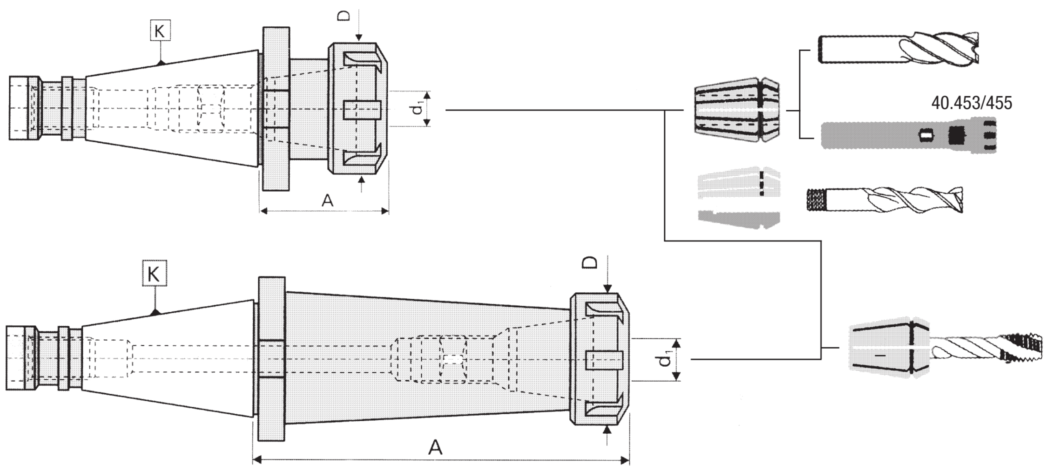
Diametrar utv. 20 mm 6-8-10-12-14-16 mm
Diametrar utv. 32 mm 6-8-10-12-14-16-18-20-25 mm

DIN 2080

10.453

Spännhylschuck

Avsedd för ER-hylsor enl. DIN 6499



Med mutter

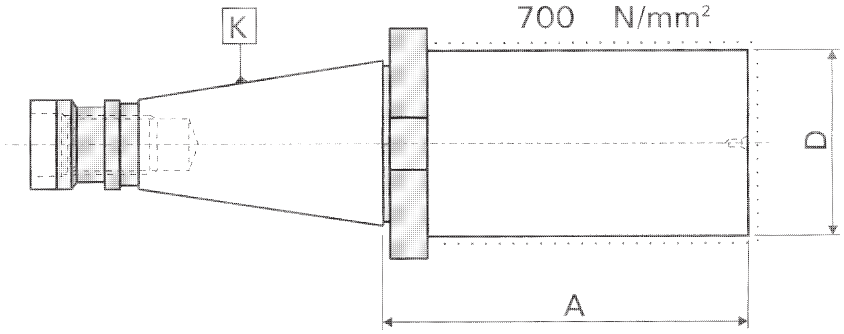
Artikel nr	A mm		K ISO	Hylsa	d1 mm	D mm		
10.453.30.16	42	80.493.16	30	ER 25	1-18	42	89.202.16	89.192.16
10.453.30.20	50	80.493.20	30	ER 32	2-20	50	89.202.20	89.192.20
10.453.30.26	70	80.493.26	30	ER 40	2-30	50	89.202.26	89.192.26
10.453.30.26/100	100	80.493.26	30	ER 40	2-30	50	89.202.26	89.192.26
10.453.40.10	55	80.493.10	40	ER 16	0,5-12	32	89.202.10	89.192.10
10.453.40.10/100	100	80.493.10	40	ER 16	0,5-12	32	89.202.10	89.192.10
10.453.40.13/100	100	80.493.13	40	ER 20	1-13	35	89.202.13	89.192.13
10.453.40.16	53	80.493.16	40	ER 25	1-18	42	89.202.16	89.192.16
10.453.40.16/070	70	80.493.16	40	ER 25	1-18	42	89.202.16	89.192.16
10.453.40.20	70	80.493.20	40	ER 32	2-20	50	89.202.20	89.192.20
10.453.40.20/100	100	80.493.20	40	ER 32	2-20	50	89.202.20	89.192.20
10.453.40.20/150	150	80.493.20	40	ER 32	2-20	50	89.202.20	89.192.20
10.453.40.26	80	80.493.26	40	ER 40	3-30	63	89.202.26	89.192.26
10.453.40.26/100	100	80.493.26	40	ER 40	3-30	63	89.202.26	89.192.26
10.453.40.34	80	80.493.34	40	ER 50	6-34	78	89.202.34	89.192.34
10.453.50.13/100	100	80.493.13	50	ER 20	1-13	42	89.202.13	89.192.13
10.453.50.16	65	80.493.16	50	ER 25	1-18	42	89.202.16	89.192.16
10.453.50.16/150	150	80.493.16	50	ER 25	1-18	42	89.202.16	89.192.16
10.453.50.20	68	80.493.20	50	ER 32	2-20	50	89.202.20	89.192.20
10.453.50.20/100	100	80.493.20	50	ER 32	2-20	50	89.202.20	89.192.20
10.453.50.20/150	150	80.493.20	50	ER 32	2-20	50	89.202.20	89.192.20
10.453.50.26	76	80.493.26	50	ER 40	3-30	63	89.202.26	89.192.26
10.453.50.26/150	150	80.493.26	50	ER 40	3-30	63	89.202.26	89.192.26
10.453.50.34	70	80.493.34	50	ER 50	6-35	78	89.202.34	89.192.34

Kan också levereras med kullagrad mutter.

DIN 2080

10.470

Obearbetat ämne



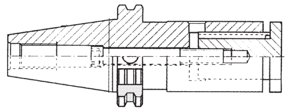
Artikel nr	K ISO	D mm	A mm
10.470.30.40	30	40,5	160
10.470.40.40/160	40	40,5	160
10.470.40.63	40	63,5	160
10.470.40.63/250	40	63,5	250
10.470.50.50/300	50	50	330
10.470.50.95	50	95,5	200
10.470.50.95/315	50	95,5	315

DIN 69871-A+AD

11

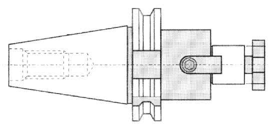
Fräsdorn för slitfräs
sid 4-18

11.125



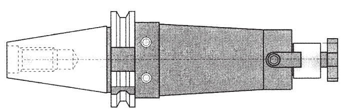
Ändfräsdorn
sid 4-19

11.160



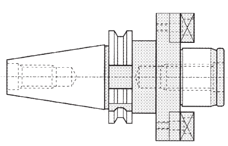
Ändfräsdorn, dämpande
sid 4-22

A11.160



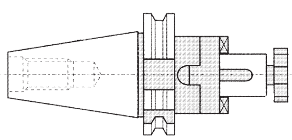
Dorn för planfräs
sid 4-23

11.165



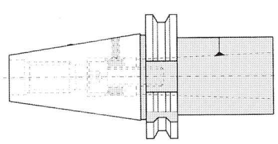
Kombinerad fräsdorn
sid 4-24

11.180



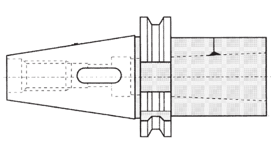
Insatshylsa, gänga
sid 4-25

11.210



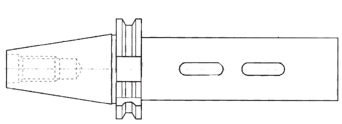
Insatshylsa, tunga
sid 4-26

11.215



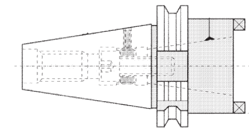
Förlängd insatshylsa
sid 4-27

11.216



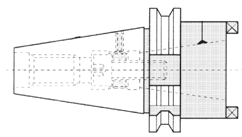
Reducerhylsa
sid 4-27

11.225



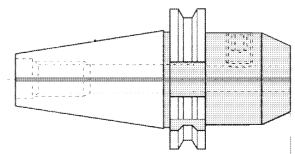
Reducerhylsa
sid 4-28

11.226



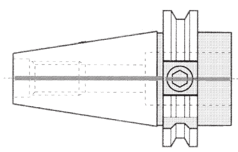
Weldonhållare
sid 4-29

11.300



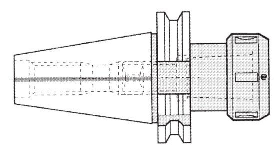
Kort Weldonhållare
sid 4-31

11.302



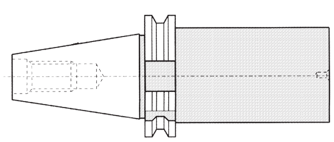
Spännhylschuck hylsa DIN 6388
sid 4-34

11.351



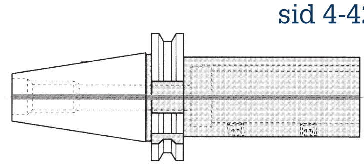
Obearbetade ämne
sid 4-42

11.470



Grundhållare
sid 4-42

11.500



DIN 69871-B

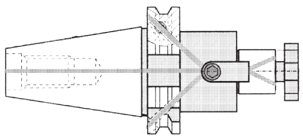
13

4

VERKTYGSHÅLLARE

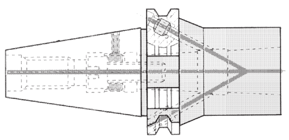
Reducerhylsa sid 4-20

13.160



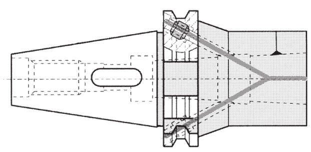
Reducerhylsa sid 4-25

13.210



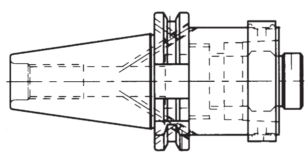
Ändfräsdorn sid 4-26

13.215



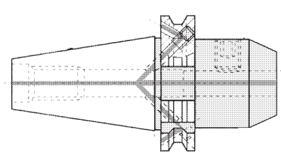
Reduceringshylsa sid 4-28

13.235



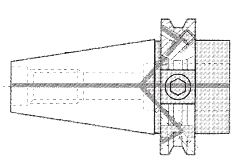
Weldonhållare sid 4-29

13.300



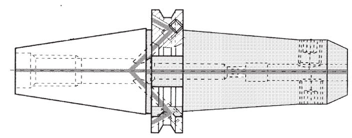
Weldonhållare, kort sid 4-31

13.302



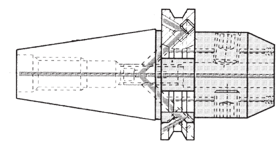
Kombinerad Weldon/WhistleNotch hållare sid 4-32

13.306



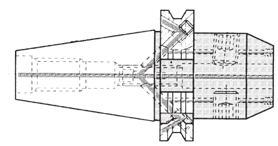
Komb. Weldon/ WhistleNotch utvändig kylningsid 4-33

13.307



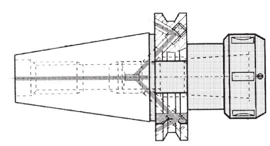
Screw-in hållare sid 4-33

13.315



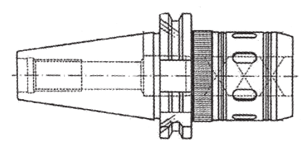
Screw-in hållare sid 4-34

13.351



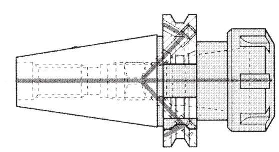
Spännhylschuck cylindrisk hylsa sid 4-35

13.370



Spännhylschuck hylsa DIN 6499 sid 4-38

13.453



Verktygshållare med 7/24-kona för automatisk verktygsväxling

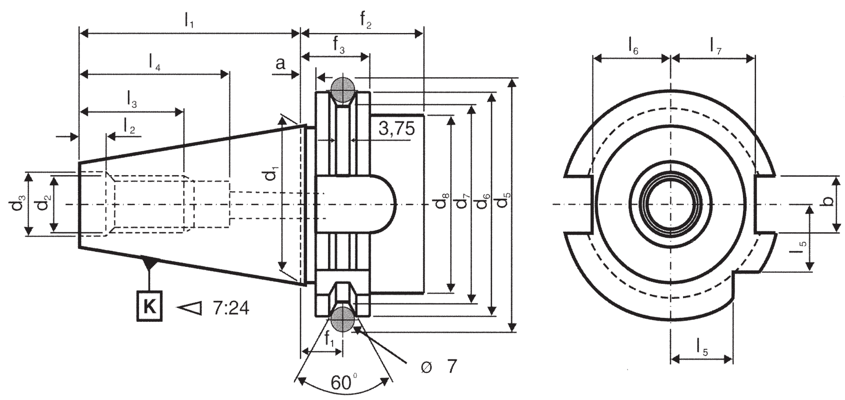
DIN 69871

11

DIN 69871-A-AD

Form A:
Utan genomgångshål

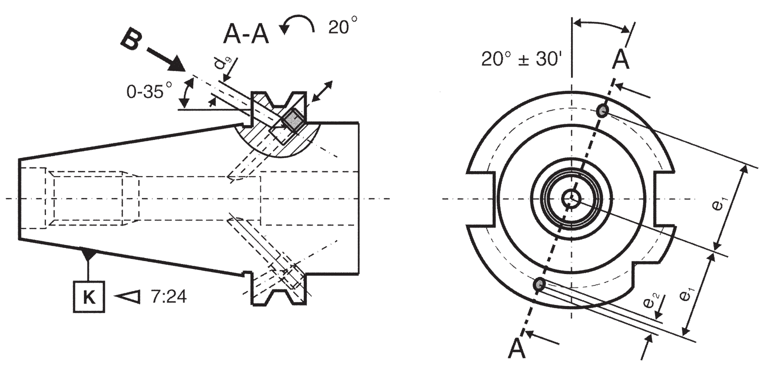
Form AD:
Med genomgångshål för inre kylning



13

DIN 69871-B

Form B:
Med kylning genom fläns



K ISO	a ± 0,1 mm	bH 12 mm	d1 mm	d2 mm	d3 H7	d5 ± 0,05 mm	d6 0/-0,1 mm	d7 0/-0,5 mm	d8max mm
30	3,2	16,1	31,75	M 12	13	59,30	50	44,30	45
40	3,2	16,1	44,45	M 16	17	72,30	63,55	56,25	50
45	3,2	19,3	57,15	M 20	21	91,35	82,55	75,25	63
50	3,2	25,7	69,85	M 24	25	107,25	97,50	91,25	80
60	3,2	25,7	107,95	M 30	32	164,75	155	147,70	130

K ISO	f1 ± 0,1 mm	f2 min mm	f3 0/-0,1 mm	l1 mm	l2 mm	l3 min mm	l4 min mm	l5 0/-0,3 mm	l60/-0,4 mm	l7 0/-0,4 mm	d9 mm	e1± 0,1 mm	e2max mm
30	11,1	35	19,1	47,80	5,5	24	33,5	15	16,4	19	4	21	5
40	11,1	35	19,1	68,40	8,2	32	42,5	18,5	22,8	25	4	27	5
45	11,1	35	19,1	82,70	10	40	52,5	24	29,1	31,3	5	35	6
50	11,1	35	19,1	101,75	11,5	47	61,5	30	35,5	37,7	6	42	7
60	11,1	38	19,1	161,80	14	59	76	49	54,2	59,3	8	66	9,2

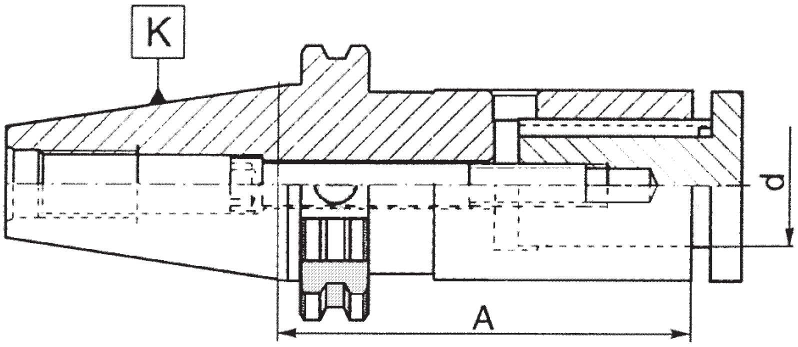
DIN 69871-A

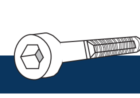
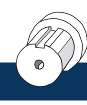
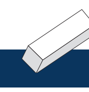
11.125

Type 7373

Fräsdorn

För slitsfräsar



Artikel nr	K ISO	d mm	A mm	Vikt kg			
11.125.40.16	40	16	95	1,50	U-6520/0	U-6510/0	U-6526/0
11.125.40.16/125	40	16	125	2,00	U-6520/0	U-6511/0	U-6527/0
11.125.40.22	40	22	95	1,60	U-6523/0	U-6512/0	U-6528/0
11.125.40.22/125	40	22	125	2,10	U-6523/0	U-6513/0	U-6529/0
11.125.40.27	40	27	95	1,70	U-6523/0	U-6514/0	U-6530/0
11.125.40.27/125	40	27	125	2,25	U-6523/0	U-6515/0	U-6531/0
11.125.40.32	40	32	95	2,00	U-6523/0	U-6516/0	U-6532/0
11.125.40.32/125	40	32	125	2,45	U-6523/0	U-6517/0	U-6533/0
11.125.50.22	50	22	100	3,10	U-6524/0	U-6512/0	U-6528/0
11.125.50.22/125	50	22	125	3,45	U-6524/0	U-6513/0	U-6529/0
11.125.50.27	50	27	100	3,30	U-6524/0	U-6514/0	U-6530/0
11.125.50.27/125	50	27	125	3,80	U-6524/0	U-6515/0	U-6531/0
11.125.50.32	50	32	100	3,90	U-6524/0	U-6516/0	U-6532/0
11.125.50.32/125	50	32	125	4,40	U-6524/0	U-6517/0	U-6533/0
11.125.50.40	50	40	100	4,60	U-6524/0	U-6518/0	U-6534/0
11.125.50.40/125	50	40	125	5,30	U-6524/0	U-6519/0	U-6535/0

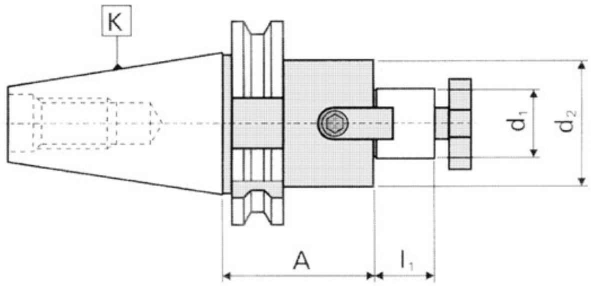
DIN 69871-A

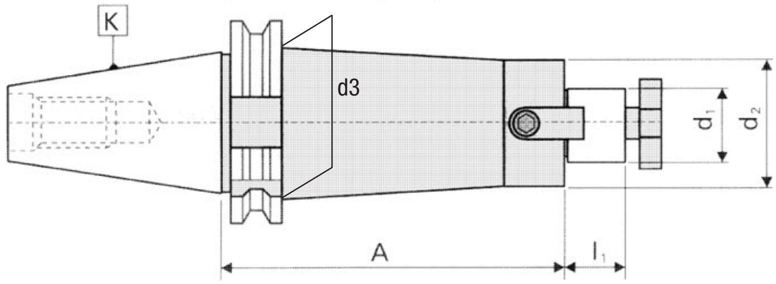
11.160

ISO 3937

Ändfräsdorn

För fräs med drivspår enligt DIN 138





Artikel nr	K ISO	d1 h6 mm	A mm	l1 mm	d2 mm	d3 mm		
11.160.30.16	30	16	35	17	38	-	89.100.16	89.171.16
11.160.30.22	30	22	35	19	48	-	89.100.22	89.171.22
11.160.30.27	30	27	60	21	58	-	89.100.27	89.171.27
11.160.40.16	40	16	45	17	38	-	89.100.16	89.171.16
11.160.40.16/100	40	16	100	17	39	-	89.100.16	89.171.16
11.160.40.22	40	22	45	19	48	-	89.100.22	89.171.22
11.160.40.22/100	40	22	100	19	46	48	89.100.22	89.171.22
11.160.40.22/160	40	22	160	19	46	48	89.100.22	
11.160.40.22/200	40	22	200	19	46	48	89.100.22	
11.160.40.27	40	27	50	21	58		89.100.27	89.171.27
11.160.40.27/100	40	27	100	21	55		89.100.27	89.171.27
11.160.40.27/120	40	27	120	21	48		89.100.27	
11.160.40.32	40	32	55	24	78		89.100.32	89.171.32
11.160.40.40	40	40	55	27	88		89.100.40	89.171.41
11.160.50.16	50	16	45	17	38		89.100.16	89.171.16
11.160.50.16/100	50	16	100	17	38		89.100.16	
11.160.50.16/160	50	16	160	17	38		89.100.16	89.171.16
11.160.50.22	50	22	45	19	48		89.100.22	89.171.22
11.160.50.22/150	50	22	150	19	48		89.100.22	89.171.22
11.160.50.22/200	50	22	200	19	50	60		89.100.22
11.160.50.27	50	27	45	21	58		89.100.27	89.171.27
11.160.50.27/100	50	27	100	21	55	78		89.100.27
11.160.50.27/160	50	27	150	21	58		89.100.27	89.171.27
11.160.50.32	50	32	50	24	78		89.100.32	89.171.32
11.160.50.32/100	50	32	100	24	66	78		89.100.32
11.160.50.32/150	50	32	150	24	78		89.100.32	89.171.32
11.160.50.40	50	40	59	27	88		89.100.40	89.171.40
11.160.50.40/100	50	40	100	27	70	78	89.100.40	
11.160.50.40/150	50	40	150	27	88	80	89.100.40	89.171.40
11.160.50.50	50	50	65	30	90		89.100.50	89.171.51

Större urval av förlängda, se modell 13.160

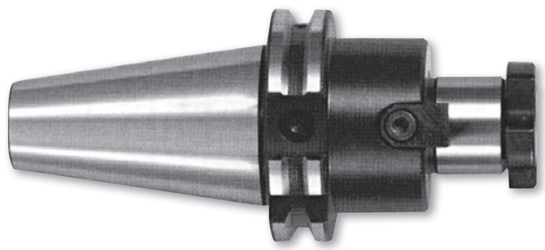
DIN 69871-AD+B

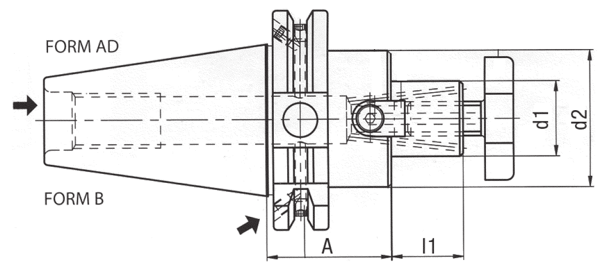
Ändfräsdorn med genomgående kylning

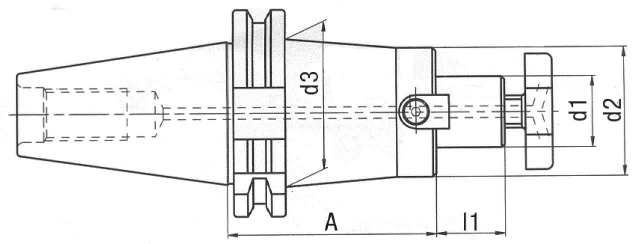
13.160

ISO 3937

För fräs med drivspår enligt DIN 138







Artikel nr	K ISO	d1	A mm	l1 mm	d2 mm	d3 mm		
13.160.40.16	40	16	45	17	38	38	89.100.16	89.171.16
13.160.40.16/100	40	16	100	17	32	42	89.100.16	89.171.16
13.160.40.16/200	40	16	200	17	38	-	89.100.16	89.171.16
13.160.40.22	40	22	45	19	48	-	89.100.22	89.171.22
13.160.40.22/100	40	22	100	19	40	49	89.100.22	89.171.22
13.160.40.22/160	40	22	160	19	48	48	89.100.22	89.171.22
13.160.40.22/200	40	22	200	19	48	48	89.100.22	-
13.160.40.27	40	27	50	21	58	-	89.100.27	89.171.27
13.160.40.27/100	40	27	100	21	48	48	89.100.27	89.171.27
13.160.40.27/160	40	27	160	21	58	58	89.100.27	-
13.160.40.27/200	40	27	200	21	58	58	89.100.27	-
13.160.40.32	40	32	55	24	78	-	89.100.32	89.171.32
13.160.40.32/160	40	32	160	24	63	63	89.100.32	-
13.160.40.32/200	40	32	200	24	63	63	89.100.32	-
13.160.40.40	40	40	55	27	88	-	89.100.40	89.171.40
13.160.40.40/160	40	40	160	27	80	80	89.100.40	-
13.160.40.40/200	40	40	200	27	80	80	89.100.40	-
13.160.50.16	50	16	45	17	38	38	89.100.16	89.171.16
13.160.50.16/100	50	16	100	17	32	42	89.100.16	89.171.16
13.160.50.16/150	50	16	150	17	38	38	89.100.16	89.171.16

Tabell forts. nästa sida

Tabell forts.

Artikel nr	K ISO	d1	A mm	l1 mm	d2 mm	d3 mm		
13.160.50.22	50	22	45	19	48	48	89.100.22	89.171.22
13.160.50.22/100	50	22	100	19	40	55	89.100.22	89.171.22
13.160.50.22/150	50	22	150	19	40	40	89.100.22	89.171.22
13.160.50.22/200	50	22	200	19	48	48	89.100.22	-
13.160.50.22/250	50	22	250	19	48	48	89.100.22	-
13.160.50.27	50	27	45	21	58	58	89.100.27	89.171.27
13.160.50.27/150	50	27	150	21	58	58	89.100.27	89.171.27
13.160.50.27/200	50	27	200	27	58	58	89.100.27	89.171.27
13.160.50.27/250	50	27	250	21	58	58	89.100.27	-
13.160.50.32	50	32	55	24	78	78	89.100.32	89.171.32
13.160.50.32/130	50	32	130	24	66	66	89.100.32	89.171.32
13.160.50.32/150	50	32	150	24	78	78	89.100.32	89.171.32
13.160.50.32/200	50	32	200	24	78	78	89.100.32	-
13.160.50.32/250	50	32	250	24	78	78	89.100.32	-
13.160.50.40	50	40	55	27	88	88	89.100.40	89.171.40
13.160.50.40/150	50	40	150	27	88	80	89.100.40	89.171.40
13.160.50.40/200	50	40	200	27	88	88	89.100.40	-
13.160.50.50	50	50	65	30	90	90	89.100.50	89.171.50

Vi har ett brett utbud av olika QPM Kylmedelsmunstycken och tillbehör

- Läs mer om dessa produkter i kapitel 14 i denna katalog!

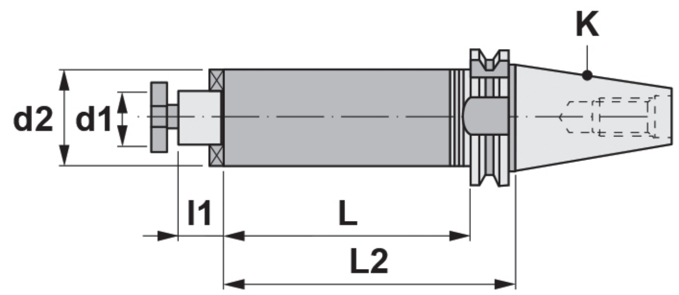
4

VERKTYGSHÅLLARE

DIN 69871-A

Vibrationsdämpande dornar

A11.160



Vibrationerna reduceras upp till 60%

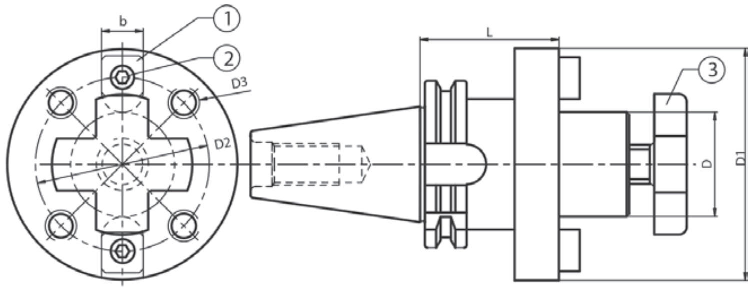
Artikel nr	K ISO	d1 h6 mm	L2	L	l1	d2	Vikt (kg)
A11.160.40.16/150-38	40	16	150	131	17	38	2,030
A11.160.40.16/500-38	40	16	200	181	17	38	2,510
A11.160.40.16/250-38	40	16	250	231	17	38	2,920
A11.160.40.16/300-38	40	16	300	281	17	38	3,370
A11.160.40.22/150-48	40	22	150	131	19	48	2,370
A11.160.40.22/200-48	40	22	200	181	19	48	3,070
A11.160.40.22/250-48	40	22	250	231	19	48	4,180
A11.160.40.22/300-48	40	22	300	281	19	48	4,890
A11.160.40.27/150-58	40	27	150	131	21	58	2,850
A11.160.40.27/200-58	40	27	200	181	21	58	3.630
A11.160.40.27/250-58	40	27	250	231	21	58	4,440
A11.160.40.27/300-58	40	27	300	281	21	58	5,350
A11.160.50.16/150-38	50	16	150	131	17	38	4,391
A11.160.50.16/200-38	50	16	200	181	17	38	5,886
A11.160.50.16/250-38	50	16	250	231	17	38	4,230
A11.160.50.16/300-38	50	16	300	281	17	38	5,886
A11.160.50.16/450-38	50	16	400	381	17	38	5,280
A11.160.50.22/200-48	50	22	200	181	19	48	6.226
A11.160.50.22/250-48	50	22	250	231	19	48	7,276
A11.160.50.22/300-48	50	22	300	281	19	48	5.900
A11.160.50.22/400-48	50	22	400	381	19	48	5.330
A11.160.50.22/500-48	50	22	500	481	49	48	8.470
A11.160.50.22/200-60	50	22	200	181	19	60	7,810
A11.160.50.22/250-60	50	22	250	231	19	60	7,276
A11.160.50.22/300-60	50	22	300	281	19	60	8.140
A11.160.50.22/400-60	50	22	400	381	19	60	9,240
A11.160.50.22/500-60	50	22	500	481	19	60	12.280
A11.160.50.27/200-58	50	27	200	181	21	58	6,846
A11.160.50.27/250-58	50	27	250	231	21	58	7,130
A11.160.50.27/300-58	50	27	300	281	21	58	8.140
A.11.160.50.27/400-58	50	27	400	381	21	58	6.846
A11.160.50.27/500-58	50	27	500	481	21	58	6.846
A.11.160.50.32/200-78	50	32	200	181	24	78	7,556
A11.160.50.32/250-78	50	32	250	231	24	78	9,576
A11.160.50.32/300-78	50	32	300	281	24	78	10.576
A11.160.50.32/4000-78	50	32	400	381	24	78	13,076
A11.160.50.32/500-78	50	32	500	481	24	78	16,076

Dorn för planfräs

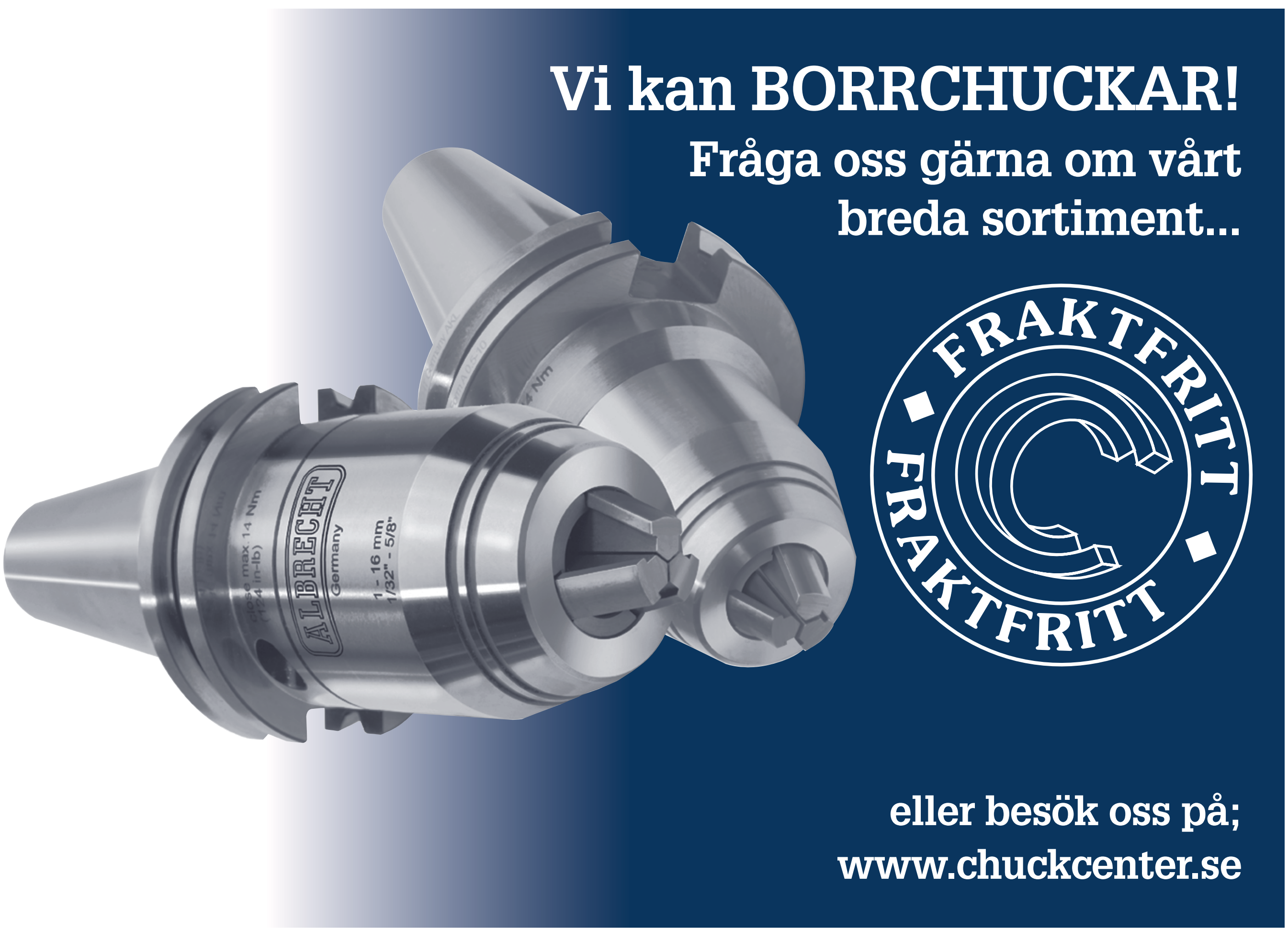
DIN 69871-A

11.165

DIN 6357- Form A



Artikel nr	ISO	D	L	D1	D2	D3	b	G6,3	
11.165.40.40	40	40	60	89	66.2	M12	15.9	8000	89.172.40
11.165.50.40	50	40	70	89	66.2	M12	15.9	8000	89.172.40
11.165.50.60	50	60	70	129	101.6	M16	25.4	8000	89.172.60



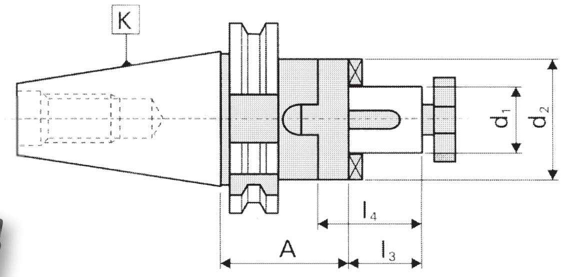
DIN 69871-A

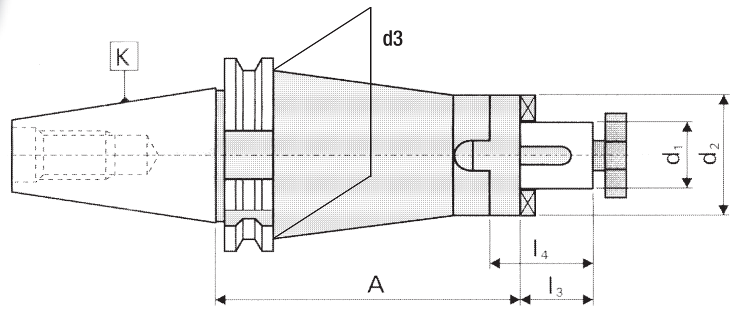
11.180

DIN 6357- Form B

Kombinerad fräsdorn

För fräs med längsgående spår eller drivspår enligt DIN 138





Artikel nr	K ISO	d1 h6 mm	A mm	l3 mm	l4 mm	d2 mm	d3 mm			
11.180.30.16	30	16	50	17	27	32		89.100.16	89.161.16	89.141.16
11.180.30.22	30	22	50	19	31	40		89.100.22	89.161.22	89.141.22
11.180.30.27	30	27	55	21	33	48		89.100.27	89.161.27	89.141.27
11.180.40.16	40	16	55	17	27	32		89.100.16	89.161.16	89.141.16
11.180.40.16/100	40	16	100	17	27	32	44	89.100.16	89.161.16	89.141.16
11.180.40.16/160	40	16	160	17	27	32		89.100.16	89.161.16	89.141.16
11.180.40.22	40	22	55	19	31	40		89.100.22	89.161.22	89.141.22
11.180.40.22/100	40	22	100	19	31	40	40	89.100.22	89.161.22	89.141.22
11.180.40.22/160	40	22	160	19	31	40		89.100.22	89.161.22	89.141.22
11.180.40.22/200	40	22	200	19	31	40		89.100.22	89.161.22	89.141.22
11.180.40.27	40	27	55	21	33	48		89.100.27	89.161.27	89.141.27
11.180.40.27/100	40	27	100	21	33	48	48	89.100.27	89.161.27	89.141.27
11.180.40.27/200	40	27	200	21	33	48		89.100.40	89.161.40	89.141.40
11.180.40.32	40	32	60	24	38	58		89.100.32	89.161.32	89.141.32
11.180.40.32/100	40	32	100	24	38	58	58	89.100.32	89.161.32	89.141.32
11.180.40.32/200	40	32	200	24	38	58		89.100.40	89.161.40	89.141.40
11.180.40.40	40	40	60	27	41	70		89.100.40	89.161.40	89.141.40
11.180.40.40/100	40	40	100	27	41	70	70	89.100.40	89.161.40	89.141.40
11.180.40.40/160	40	40	160	27	41	70		89.100.40	89.161.40	89.141.40
11.180.40.40/200	40	40	200	27	41	70		89.100.40	89.161.40	89.141.40
11.180.50.16	50	16	55	17	27	32		89.100.16	89.161.16	89.141.16
11.180.50.16/100	50	16	100	17	27	32	50	89.100.16	89.161.16	89.141.16
11.180.50.16/160	50	16	160	17	27	32		89.100.16	89.161.16	89.141.16
11.180.50.22	50	22	55	19	31	40		89.100.22	89.161.22	89.141.22
11.180.50.22/100	50	22	100	19	31	40	60	89.100.22	89.161.22	89.141.22
11.180.50.22/160	50	22	160	19	31	40		89.100.22	89.161.22	89.141.22
11.180.50.27	50	27	55	21	33	48		89.100.27	89.161.27	89.141.27
11.180.50.27/100	50	27	100	21	33	48	60	89.100.27	89.161.27	89.141.27
11.180.50.32	50	32	55	24	38	58		89.100.32	89.161.32	89.141.32
11.180.50.32/100	50	32	100	24	38	58	58	89.100.32	89.161.32	89.141.32
11.180.50.40	50	40	55	27	41	70	70	89.100.40	89.161.40	89.141.40
11.180.50.40/100	50	40	100	27	41	70	70	89.100.40	89.161.40	89.141.40
11.180.50.40/160	50	40	160	27	41	70		89.100.40	89.161.40	89.141.40
11.180.50.50	50	50	70	30	46	90		89.100.50	89.161.50	89.141.50
11.180.50.50/125	50	50	125	30	46	90		89.100.50	89.161.50	89.141.50

DIN 69871

Insatshylsa

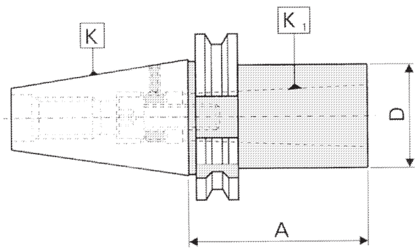
11/13.210

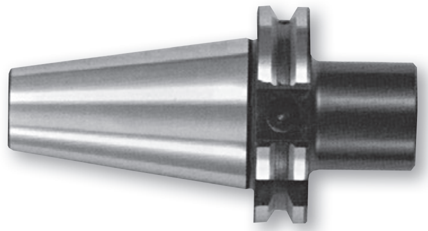
DIN 6364

Avsedd för verktyg med MK-kona och dragstångsgänga enligt DIN-228-A

11.210

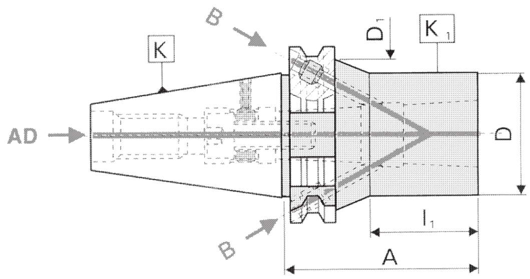
Form A





13.210

Form AD + B



Artikel nr	K ISO	K1 mm	A mm	l1 mm	D mm	D1 mm		
11.210.30.01	30	1	50	27	25		89.193.31	89.120.24
11.210.30.02	30	2	70	31	32		89.193.32	89.124.19
11.210.30.03	30	3	100	33	40		89.193.33	89.124.31
11.210.40.01	40	1	50	27	25		89.193.41	89.120.26
11.210.40.02	40	2	50	27	32		89.193.42	89.124.18
11.210.40.03	40	3	70	31	40		89.193.43	89.120.69
11.210.40.04	40	4	95	31	48		89.193.44	89.124.44
11.210.50.01	50	1	45	27	35		89.193.51	89.120.26
11.210.50.02	50	2	60	27	32		89.193.52	89.120.53
11.210.50.03	50	3	65	31	40		89.193.53	89.120.70
11.210.50.04	50	4	70	31	48		89.193.54	89.124.44
11.210.50.05	50	5	100	31	63		89.193.55	89.120.90
13.210.40.01	40	1	50	16	25	45	89.193.41	89.128.08
13.210.40.02	40	2	50	15	32	50	89.193.42	89.128.20
13.210.40.03	40	3	70	42	40	50	89.193.43	89.128.30
13.210.40.04	40	4	95		48		89.193.44	89.128.40
13.210.50.01	50	1	45	17	25	80	89.193.51	89.128.08
13.210.50.02	50	2	60	25	32	80	89.193.52	89.128.23
13.210.50.03	50	3	65	30	40	80	89.193.53	89.128.32
13.210.50.04	50	4	70	46	48	80	89.193.54	89.128.44
13.210.50.05	50	5	100	66	63	80	89.193.55	89.128.60

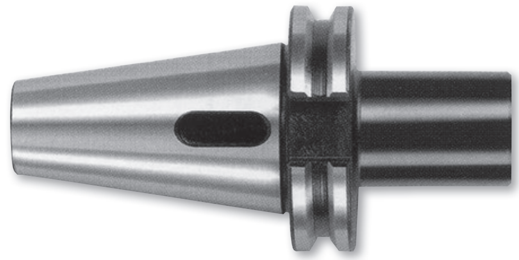
DIN 69871

11/13.215

DIN 6383 ISO 4202

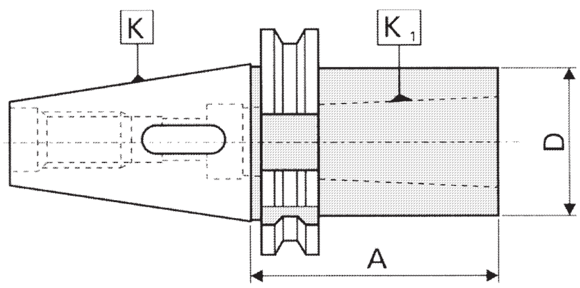
Insatshylsa

Avsedd för verktyg med MK-kona och tunga



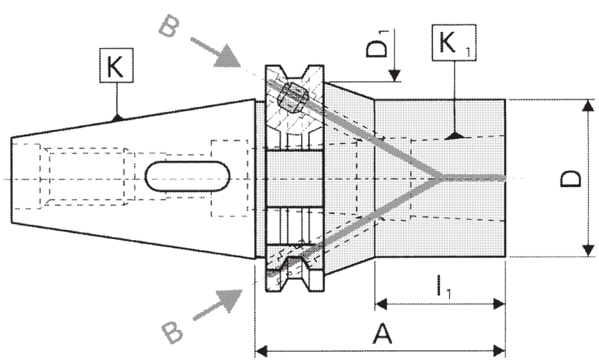
11.215

Form A



13.215

Form B



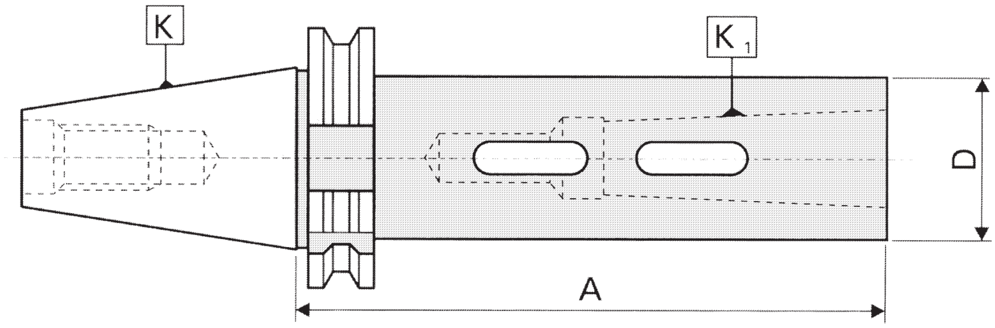
Artikel nr	K ISO	K1 MORSE	A mm	l1 mm	D mm	D1 mm		
11.215.30.01	30	1	50		25		89.120.27	
11.215.30.02	30	2	60		32			85.760.XX.30/02
11.215.30.03	30	3	80		40			85.760.XX.30/03
11.215.40.01	40	1	50		25		89.120.28	
11.215.40.02	40	2	50		32		89.124.21	
11.215.40.03	40	3	70		40			85.760.XX.40/03
11.215.40.04	40	4	95		48			85.760.XX.40/04
11.215.50.01	50	1	45		25		89.120.29	
11.215.50.02	50	2	60		32		89.120.56	
11.215.50.03	50	3	65		40		89.120.74	
11.215.50.04	50	4	95		48		89.124.40	
11.215.50.05	50	5	105		63			85.760.XX.50/05
13.215.40.01	40	1	50	16	25	45	89.120.28	
13.215.40.02	40	2	50	15	32	50	89.124.21	
13.215.40.03	40	3	70	42	40	50		85.760.XX.40/03
13.215.40.04	40	4	95		48			85.760.XX.40/04
13.215.50.01	50	1	45	17	25	80	89.120.29	
13.215.50.02	50	2	60	25	32	80	89.120.56	
13.215.50.03	50	3	65	30	40	80	89.120.74	
13.215.50.04	50	4	95	46	48	80	89.124.40	
13.215.50.05	50	5	105	66	63	80		85.760.XX.50/05

DIN 69871-A

11.216

Förlängd insatshylsa

Avsedd för verktyg med MK-kona och tunga



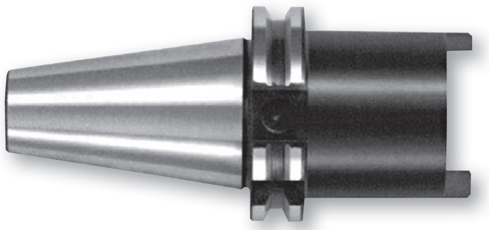
Artikel nr	K ISO	K1 MORSE	A mm	D mm
11.216.30.01	30	1	115	25
11.216.30.02	30	2	125	32
11.216.30.03	30	3	145	40
11.216.40.01	40	1	115	25
11.216.40.02	40	2	125	32
11.216.40.03	40	3	145	40
11.216.40.04	40	4	165	48
11.216.50.01	50	1	120	25
11.216.50.02	50	2	135	32
11.216.50.03	50	3	155	40
11.216.50.04	50	4	180	48
11.216.50.05	50	5	215	63

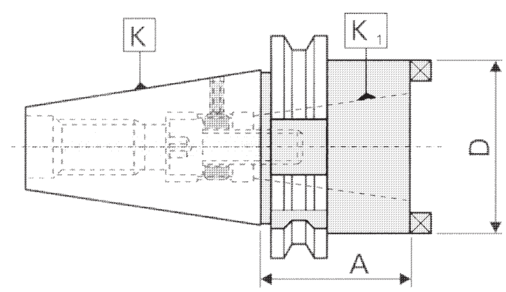
DIN 69871-A

11.225

Reduceringshylsa

Avsedd för verktyg med ISO-kona





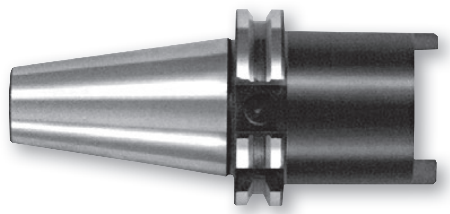
Artikel nr	K ISO	K1 ISO	A mm	D mm		
11.225.40.30	40	30	60	50	89.193.45	89.124.28
11.225.40.40	40	40	100	63	89.193.44	89.124.44
11.225.50.30	50	30	50	50	89.193.53	89.120.69
11.225.50.40	50	40	70	68	89.193.54	89.124.44
11.225.50.50	50	50	120	100	89.193.56	89.124.56

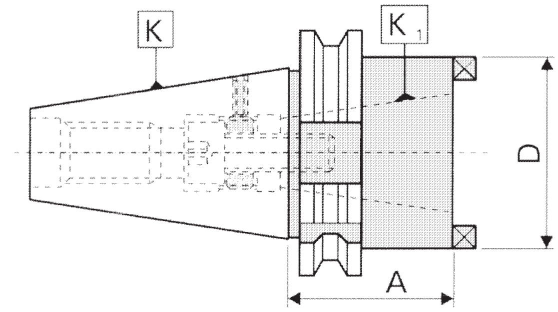
DIN 69871-A

11.226

Reduceringshylsa

Avsedd för verktyg med ISO 7388-kona/BT-kona



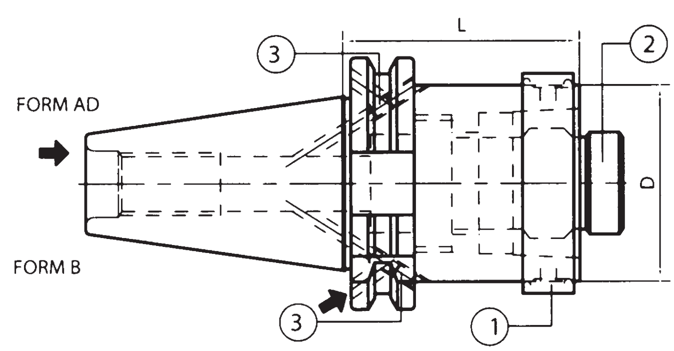


Artikel nr	K ISO	K1 ISO	mm	A mm		
11.226.40.30	40	30	50	50	89.193.45	89.124.33
11.226.40.40	40	40	100	63	89.193.44	89.124.45
11.226.50.30	50	30	50	50	89.193.53	89.120.73
11.226.50.40	50	40	70	63	89.193.54	89.124.45
11.226.50.50	50	50	120	97	89.193.56	89.124.57

DIN 69871-AD/B

13.235

Mellanhylsa



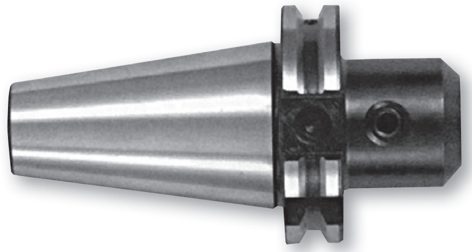
Artikel nr	K ISO	HSK	D mm	L mm	Komplett ring	Komplett låsning
13.235.40.40	40	40	40	60	H40A-AN	H40A-UBL
13.235.40.50	40	50	50	60	H50A-AN	H50A-UBL
13.235.40.63	40	63	63	80	H63A-AN	H63A-UBL
13.235.50.40	50	40	40	60	H40A-AN	H40A-UBL
13.235.50.50	50	50	50	65	H50A-AN	H50A-UBL
13.235.50.63	50	63	63	60	H63A-AN	H63A-UBL

DIN 69871

Weldonhållare

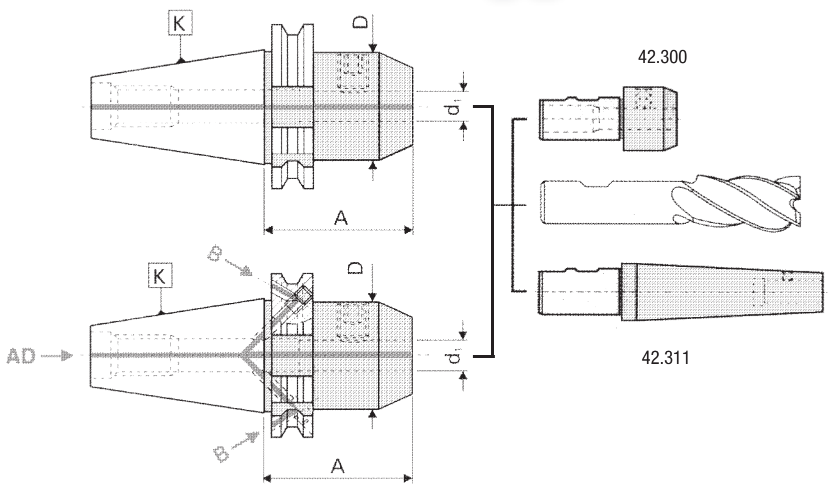
11/13.300

Avsedd för fräs med cylindriska skaft enl. Weldon DIN 1835-B



13.300

Form AD + B



Artikel nr	K ISO	d1H4 mm	A mm	D mm	
11.300.30.06	30	6	45	25	89.122.20
11.300.30.08	30	8	45	28	89.122.35
11.300.30.10	30	10	50	35	89.122.40
11.300.30.12	30	12	50	42	89.122.50
11.300.30.14	30	14	50	44	89.122.50
11.300.30.16	30	16	70	48	89.122.60
11.300.30.18	30	18	63	50	89.122.60
11.300.30.20	30	20	70	52	
13.300.40.06	40	6	50	25	89.122.20
13.300.40.06/100	40	6	100		
13.300.40.06/160	40	6	160		
13.300.40.08	40	8	50	28	89.122.35
13.300.40.08/100	40	8	100		
13.300.40.08/160	40	8	160	28	
13.300.40.10	40	10	50	35	89.122.40
13.300.40.10/100	40	10	100		
13.300.40.10/160	40	10	160		
13.300.40.12	40	12	50	42	89.122.50
13.300.40.12/100	40	12	100		
13.300.40.12/130	40	12	130		
13.300.40.12/160	40	12	160		
13.300.40.14	40	14	50	44	89.122.50
13.300.40.14/130	40	14	130		
13.300.40.16	40	16	63	48	89.122.60
13.300.40.16/130	40	16	130		
13.300.40.16/160	40	16	160		
13.300.40.18	40	18	63	50	89.122.60

Tabell forts. nästa sida

DIN 69871

11/13.300

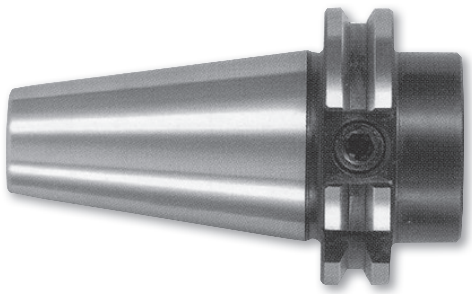
Weldonhållare

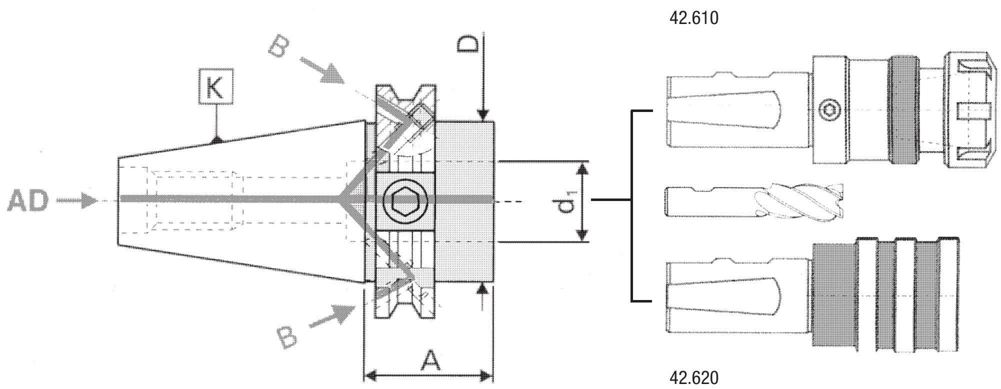
Avsedd för fräs med cylindriska skaft enl. Weldon DIN 1835-B

Artikel nr	K ISO	d1H4 mm	A mm	D mm	
13.300.40.20	40	20	63	52	89.122.65
13.300.40.20/100	40	20	100		
13.300.40.20/130	40	20	130		
13.300.40.20/160	40	20	160		
13.300.40.25	40	25	100	65	89.122.75
13.300.40.25/130	40	25	130		
13.300.40.25/160	40	25	160		
13.300.40.32	40	32	100	72	89.122.80
13.300.40.32/100	40	32	100	72	
13.300.40.32/130	40	32	130		
13.300.40.32/160	40	32	160		
13.300.40.40	40	40	120	80	89.122.80
13.300.50.06	50	6	63	25	89.122.20
13.300.50.06/100	50	6	100		
13.300.50.06/130	50	6	130		
13.300.50.06/160	50	6	160		
13.300.50.08	50	8	63	28	89.122.35
13.300.50.08/130	50	8	130		
13.300.50.10	50	10	63	35	89.122.40
13.300.50.10/130	50	10	130		
13.300.50.10/160	50	10	160		
13.300.50.12	50	12	63	42	89.122.50
13.300.50.12/100	50	12	100		
13.300.50.12/130	50	12	130		
13.300.50.12/160	50	12	160		
13.300.50.14	50	14	63	44	89.122.50
13.300.50.16	50	16	63	48	89.122.60
13.300.50.16/130	50	16	130		
13.300.50.16/160	50	16	160		
13.300.50.18	50	18	63	50	89.122.60
13.300.50.20	50	20	63	52	89.122.65
13.300.50.20/100	50	20	100		
13.300.50.20/130	50	20	130		
13.300.50.20/160	50	20	160		
13.300.50.25	50	25	80	65	89.122.75
13.300.50.25/130	50	25	130		
13.300.50.25/160	50	25	160		
13.300.50.25/200	50	25	200		
13.300.50.32	50	32	100	72	89.122.80
13.300.50.32/130	50	32	130		
13.300.50.32/160	50	32	160		
13.300.50.32/200	50	32	200		
13.300.50.40	50	40	120	80	89.122.80
13.300.50.40/160	50	40	160		
13.300.50.40/200	50	40	200		
13.300.50.50	50	50	120	100	89.122.85

Weldonhållare kort modell

Avsedd för pinnfräs med cylindriskt skaft enl. Weldon DIN 1835-B





Artikel nr	K ISO	d1H4 mm	A mm	D mm	
13.302.40.16	40	16	35	44	89.122.60
13.302.40.20	40	20	35	44	89.122.65
13.302.40.25	40	25	35	49	89.122.75
13.302.40.32	40	32	40	77	89.122.80
13.302.50.16	50	16	35	70	89.122.60
13.302.50.20	50	20	35	70	89.122.65
13.302.50.25	50	25	35	70	89.122.75
13.302.50.32	50	32	35	80	89.122.80

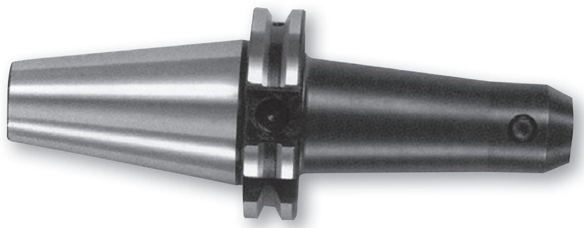
DIN 69871 AD+B

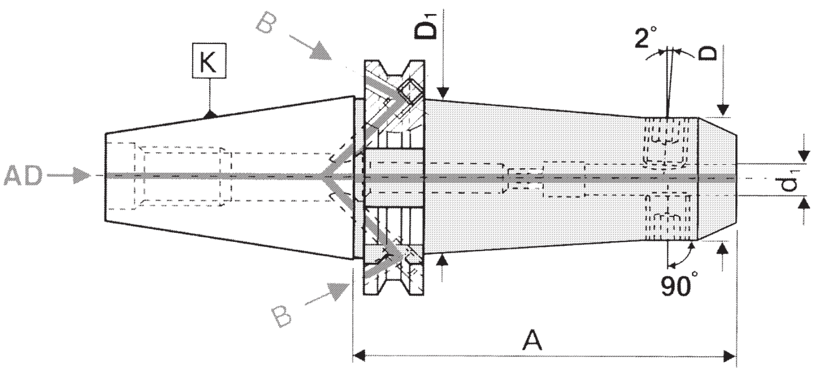
Kombinerad hållare Weldon/Whistle-Notch

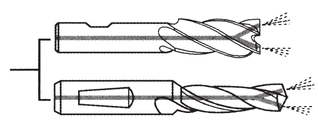
13.306

Avsedd för cylindriska verktyg enl. DIN 1835 B+E

DIN 6359-Form B/C







Artikel nr	K ISO	A mm	D mm	D1 mm	d1	2 X	Artikel nr	K ISO	A mm	D mm	D1 mm	d1 mm	2 X
13.306.40.06/130	40	130	22	28	6	89.122.19	13.306.50.08/200	50	200	24	38	8	89.122.34
13.306.40.06/160	40	160	22	33	6	89.122.19	13.306.50.10/130	50	130	30	38	10	89.122.39
13.306.40.08/130	40	130	24	30	8	89.122.34	13.306.50.10/160	50	160	30	39	10	89.122.39
13.306.40.08/130	40	160	24	35	8	89.122.34	13.306.50.10/200	50	200	30	43	10	89.122.39
13.306.40.10/130	40	130	30	38	10	89.122.39	13.306.50.12/130	50	130	32	40	12	89.122.48
13.306.40.10/160	40	160	30	39	10	89.122.39	13.306.50.12/160	50	160	32	43	12	89.122.48
13.306.40.12/130	40	130	32	40	12	89.122.48	13.306.50.12/200	50	200	32	46	12	89.122.48
13.306.40.12/160	40	160	32	43	12	89.122.48	13.306.50.14/130	50	130	32	40	14	89.122.48
13.306.40.14/130	40	130	32	40	14	89.122.48	13.306.50.14/160	50	160	32	44	14	89.122.48
13.306.40.14/160	40	160	32	44	14	89.122.48	13.306.50.14/200	50	200	32	48	14	89.122.48
13.306.40.16/130	40	130	36	44	16	89.122.57	13.306.50.16/130	50	130	36	44	16	89.122.57
13.306.40.16/160	40	160	36	44	16	89.122.57	13.306.50.16/160	50	160	36	50	16	89.122.57
13.306.40.18/130	40	130	38	46	18	89.122.57	13.306.50.16/200	50	200	36	46	16	89.122.57
13.306.40.18/160	40	160	38	46	18	89.122.57	13.306.50.18/130	50	130	38	52	18	89.122.57
13.306.40.20/130	40	130	44	50	20	89.122.63	13.306.50.18/160	50	160	38	46	18	89.122.57
13.306.40.20/160	40	160	44	50	20	89.122.63	13.306.50.18/200	50	200	38	50	18	89.122.57
13.306.40.25/130	40	130	50	50	25	89.122.71	13.306.50.20/130	50	130	44	50	20	89.122.63
13.306.40.25/160	40	160	50	50	25	89.122.71	13.306.50.20/160	50	160	44	55	20	89.122.63
13.306.50.06/130	50	130	22	28	6	89.122.19	13.306.50.20/200	50	200	44	56	20	89.122.63
13.306.50.06/160	50	160	22	33	6	89.122.19	13.306.50.25/130	50	130	50	56	25	89.122.71
13.306.50.06/200	50	200	22	36	6	89.122.19	13.306.50.25/160	50	160	50	60	25	89.122.71
13.306.50.08/130	50	130	24	30	8	89.122.34	13.306.50.25/200	50	200	50	64	25	89.122.71
13.306.50.08/160	50	160	24	35	8	89.122.34	13.306.50.32/200	50	200	58	72	32	89.122.77

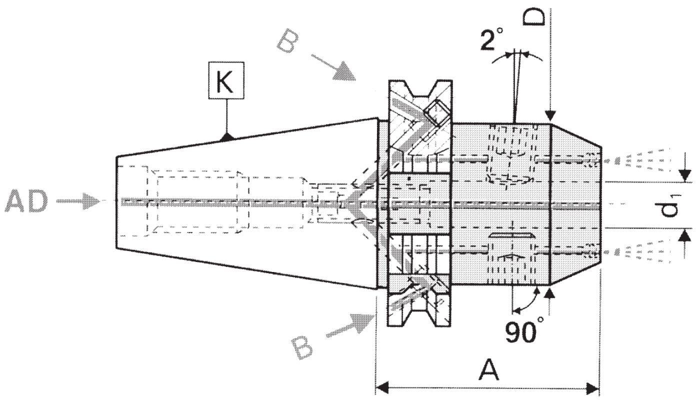
DIN 69871 AD+B

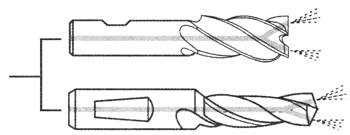
Kombinerad hållare Weldon/Whistle-Notch

13.307

DIN 6359-Form B/C

Med utvändig eller invändig kylning, avsedd för cylindriska verktyg enligt DIN 1835 B+E



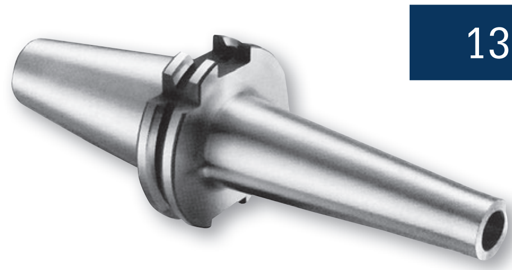


Artikel nr	K ISO	d1H4 mm	A mm	D mm		2 X
13.307.40.06	40	6	50	25	89.190.15	89.122.20
13.307.40.08	40	8	50	28	89.190.21	89.122.35
13.307.40.10	40	10	50	35	89.190.37	89.122.40
13.307.40.12	40	12	50	42	89.190.43	89.122.50
13.307.40.14	40	14	50	44	89.190.43	89.122.50
13.307.40.16	40	16	50	48	89.190.51	89.122.60
13.307.40.18	40	18	63	50	89.190.51	89.122.60
13.307.40.20	40	20	63	52	89.190.66	89.122.65
13.307.40.25	40	25	100	65	89.190.82	89.122.75
13.307.40.32	40	32	100	72	89.190.82	89.122.80
13.307.50.06	50	6	63	25	89.190.15	89.122.20
13.307.50.08	50	8	63	28	89.190.21	89.122.35
13.307.50.10	50	10	63	35	89.190.37	89.122.40
13.307.50.12	50	12	63	42	89.190.43	89.122.50
13.307.50.14	50	14	63	44	89.190.43	89.122.50
13.307.50.16	50	16	63	48	89.190.51	89.122.60
13.307.50.18	50	18	63	50	89.190.51	89.122.60
13.307.50.20	50	20	63	52	89.190.66	89.122.65
13.307.50.25	50	25	80	65	89.190.82	89.122.75
13.307.50.32	50	32	100	72	89.190.82	89.122.80
13.307.50.40	50	40	120	90	89.190.82	89.122.80

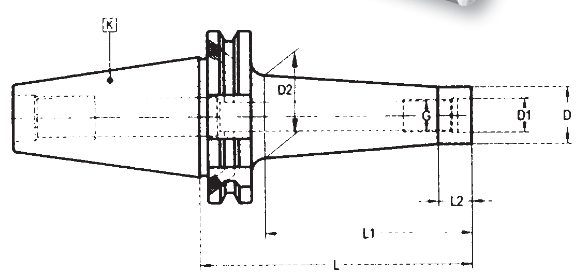
DIN 69871

Screw-in hållare

13.315



Artikel nr	K	G	D	L
13.315.40.08	40	M-8	12,8	55
13.315.40.08/105	40	M-8	12,8	105
13.315.40.10	40	M-10	17,8	55
13.315.40.10/105	40	M-10	17,8	105
13.315.40.12	40	M-12	20,8	55
13.315.40.12/105	40	M-12	20,8	105
13.315.50.12	50	M-12	20,8	95
13.315.50.12/145	50	M-12	20,8	145
13.315.50.16	50	M-16	28,8	95
13.315.50.16/145	50	M-16	28,8	145



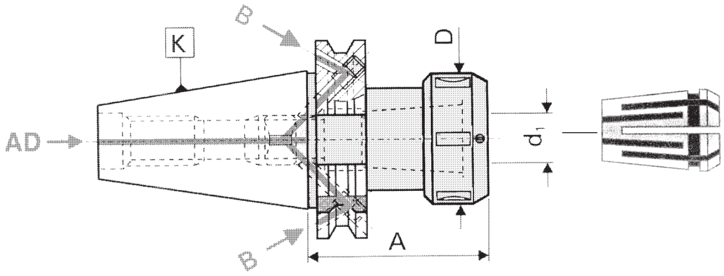
DIN 69871

13.351

Form AD + B

Spännhylschuck

Avsedd för verktyg med cylindriskt skaft enligt DIN 1835-A
eller DIN 1835-D



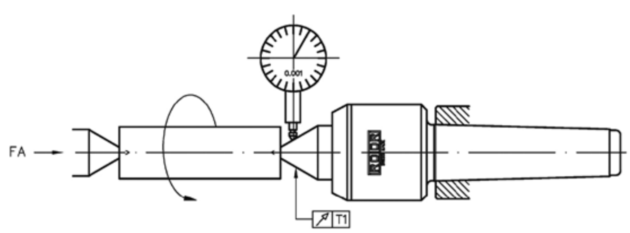
Artikel nr	K ISO	A mm		d1	D mm	Hylsa
13.351.40.16	40	70	80.391.16	2-16	43	415E
13.351.40.25	40	70	80.391.25	3-25	60	462E
13.351.40.32	40	90	80.391.32	4-32	72	467E
13.351.50.16	50	70	80.391.16	2-16	43	415E
13.351.50.25	50	70	80.391.25	3-25	60	462E
13.351.50.32	50	80	80.391.32	4-32	72	467E
13.351.50.40	50	90	80.391.40	10-40	85	468E

Vi har ett stort sortiment av svarvdubbar och tillbehör från flera olika fabrikat

Läs mer om hela sortimentet i kapitel 7 i denna katalog!

ROTOR svarvdubbar

Ett program för CNC, konventionella svarvar och slipmaskiner. Utrustade med fjäderpaket för att motverka övertryck.



MK, MT, CM	Typ	FA dN min.	T2 mm max.
1-6 st	N, V, L, A, K	20-50	0.005
6 SU + 7 SU	N.A	100	0.008
Metr	N.A	100	0.008

Kraftchuck med cylindriska hylsor

Mutter med nållager

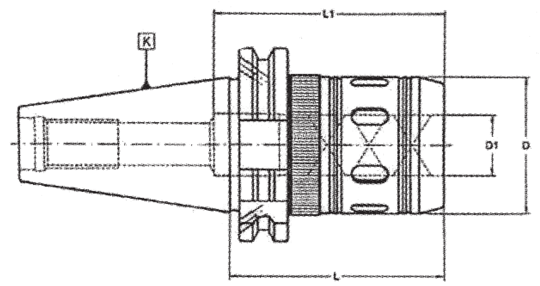
- Stor fastspänningskraft
- Stor stabilitet (kort överhäng)
- Bättre åtkomlighet med förminskad ytterdiameter på muttern
- Underhållsfri
- Direkt tätning.
  Tack vare en ny konstruktion av den inre delen av chucken får man en perfekt tätning.
- Tätning via spännhylsan
  Med den nya spännhylsan får man också en perfekt tätning

DIN 69871-AD+B

13.370

Kraftchuck

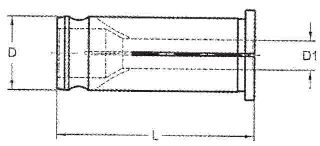
För verktyg med cylindriska skaft, DIN 69871-AD+B

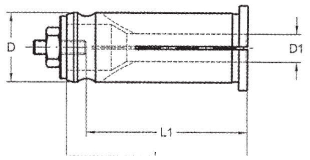


Artikel nr	Kona	D1 Max	L	L1	D
13.370.40.20	40	20	75	60	46
13.370.40.20/105	40	20	105	60	46
13.370.40.32	40	32	95	80	62
13.370.40.32/120	40	32	120	80	62
13.370.50.20	50	20	105	60	46
13.370.50.32	50	32	85	80	62
13.370.50.32/135	50	32	135	80	62

Dynamisk balansering upp till
15000 rpm SK40/HSK63
10000 rpm SK50/HSK100

Tätande spännhylsor





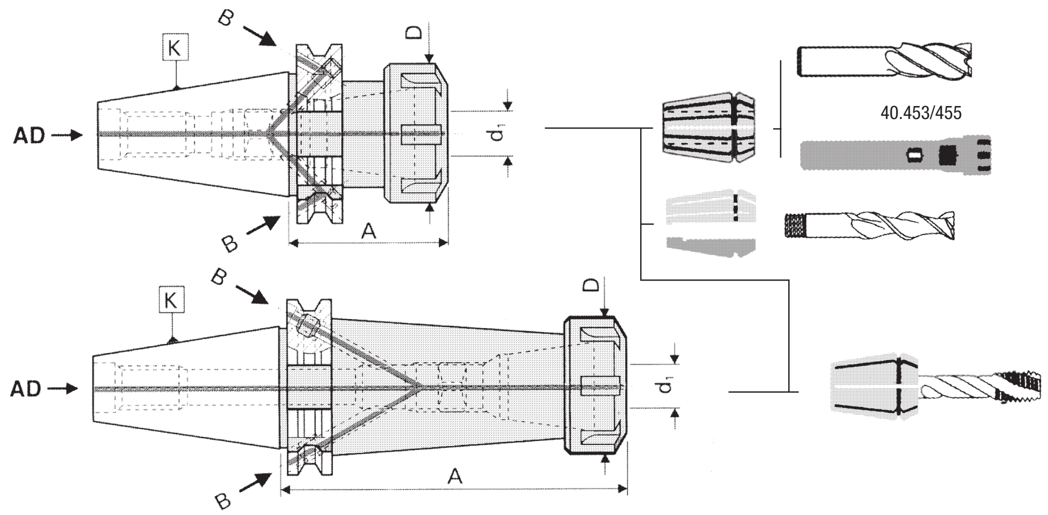
Diametrar utv. 20 mm 6-8-10-12-14-16 mm
Diametrar utv. 32 mm 6-8-10-12-14-16-18-20-25 mm

DIN 69871-AD+B

13.453

Spännhylschuck

Avsedd för ER-hylsa enligt DIN 6499



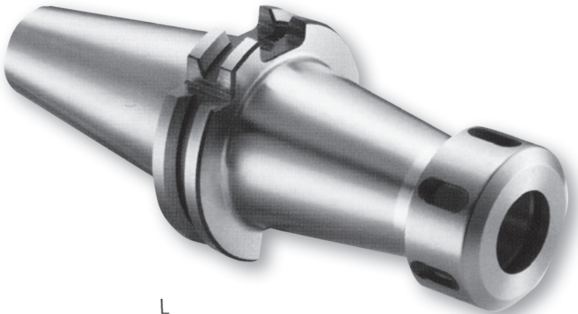
Artikel nr	A mm		K ISO	Hylsa	d1 mm	D mm		
13.453.40.10	70	80.493.10	40	ER16	0,5-12	32	89.202.10	89.192.10
13.453.40.10/100	100	80.493.10	40	ER16	0,5-12	32	89.202.10	89.192.10
13.453.40.10/150	150	80.493.10	40	ER16	0,5-12	32	89.202.10	89.192.10
13.453.40.13	70	80.493.13	40	ER20	1-13	35	89.202.13	89.192.13
13.453.40.13/100	100	80.493.13	40	ER20	1-13	35	89.202.13	89.192.13
13.453.40.13/150	150	80.493.13	40	ER20	1-13	35	89.202.13	89.192.13
13.453.40.16	70	80.493.16	40	ER25	1-18	42	89.202.16	89.192.16
13.453.40.16/150	150	80.493.16	40	ER25	1-18	42	89.202.16	89.192.16
13.453.40.16/160	160	80.493.16	40	ER25	1-18	42	89.202.16	89.192.16
13.453.40.20	70	80.493.20	40	ER32	2-20	50	89.202.20	89.192.20
13.453.40.20/100	100	80.493.20	40	ER32	2-20	50	89.202.20	89.192.20
13.453.40.20/150	150	80.493.20	40	ER32	2-20	50	89.202.20	89.192.20
13.453.40.26	70	80.493.26	40	ER40	3-30	63	89.202.26	89.192.26
13.453.40.26/150	150	80.493.26	40	ER40	3-30	63	89.202.26	89.192.26
13.453.40.34	90	80.493.34	40	ER50	10-34	78	89.202.34	
13.453.50.10/100	100	80.493.10	50	ER16	0,5-12	32	89.202.10	89.192.10
13.453.50.10/150	150	80.493.10	50	ER16	0,5-12	32	89.202.10	89.192.10
13.453.50.13/100	100	80.493.13	50	ER20	1-13	35	89.202.13	89.192.13
13.453.50.13/150	150	80.493.13	50	ER20	1-13	35	89.202.13	89.192.13
13.453.50.16	70	80.493.16	50	ER25	1-18	42	89.202.16	89.192.16
13.453.50.16/150	150	80.493.16	50	ER25	1-18	42	89.202.16	89.192.16
13.453.50.20	70	80.493.20	50	ER32	2-20	50	89.202.20	89.192.20
13.453.50.20/150	150	80.493.20	50	ER32	2-20	50	89.202.20	89.192.20
13.453.50.20/160	160	80.493.20	50	ER32	2-20	50	89.202.20	89.192.20
13.453.50.26	80	80.493.26	50	ER40	3-30	63	89.202.26	89.192.26
13.453.50.26/150	150	80.493.26	50	ER40	3-30	63	89.202.26	89.192.26
13.453.50.26/200	200	80.493.26	50	ER40	3-30	63	89.202.26	89.192.26
13.453.50.34	85	80.493.34	50	ER50	10-35	78	89.202.34	89.192.34
13.453.50.34/160	160	80.493.34	50	ER50	10-35	78	89.202.34	89.192.34

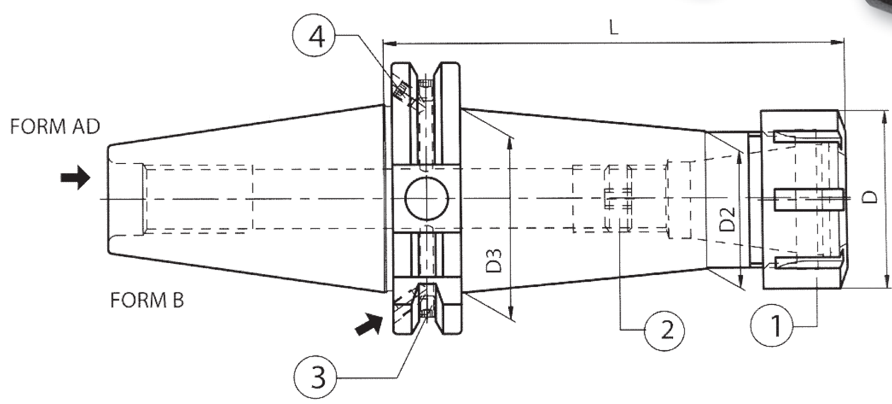
DIN 6499

13.453 BAL

Spännhylschuck, förlängd med ER-spännhylsor

Avsedd för höga varvtal



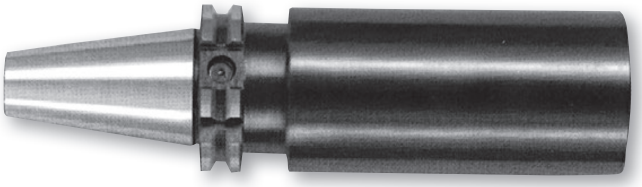


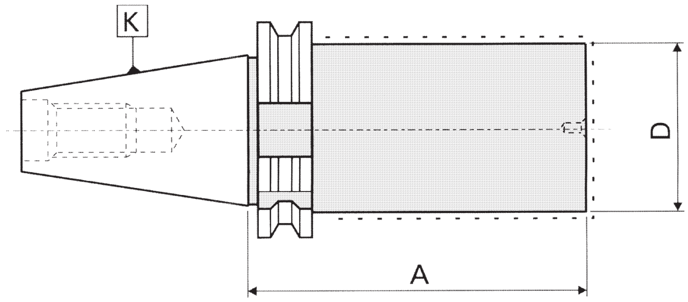
Artikel nr	Kona ISO	Hylsa ER	D mm	L mm	D2 mm	D3 mm	Max varvtal
13.453.40.10/100 BAL	40	16	32	100	22	32	G 2,5 30 000 RPM
13.453.40.16/100 BAL	40	25	42	100	32	42	G 2,5 30 000 RPM
13.453.40.20/100 BAL	40	32	50	100	40	50	G 2,5 30 000 RPM
13.453.40.26/100 BAL	40	40	63	100	50	50	G 2,5 30 000 RPM
13.453.50.10/100 BAL	50	16	32	100	22	32	G 2,5 30 000 RPM
13.453.50.16/100 BAL	50	25	42	100	32	42	G 2,5 30 000 RPM
13.453.50.20/100 BAL	50	32	50	100	40	50	G 2,5 30 000 RPM
13.453.50.26/100 BAL	50	40	63	100	100	63	G 2,5 30 000 RPM
13.453.40.10/160 BAL	40	16	32	160	22	32	G 2,5 30 000 RPM
13.453.40.16/160 BAL	40	25	42	160	32	42	G 2,5 30 000 RPM
13.453.40.20/160 BAL	40	32	50	160	40	50	G 2,5 30 000 RPM
13.453.40.26/160 BAL	40	40	63	160	50	50	G 2,5 30 000 RPM

DIN 69871

Obearbetat ämne

11.470



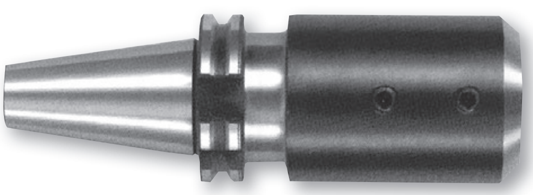


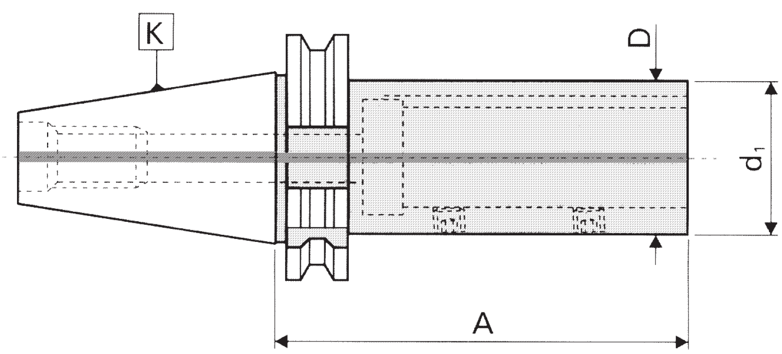
Artikel nr	K ISO	D mm	A mm
11.470.30.40	30	40,5	160
11.470.40.40/160	40	40,5	160
11.470.40.50/200	40	50,5	200
11.470.40.63	40	63,5	160
11.470.40.63/250	40	63,5	250
11.470.50.40/160	50	40,5	160
11.470.50.50/200	50	50,5	200
11.470.50.63/315	50	63,5	315
11.470.50.80/300	50	80	300
11.470.50.95	50	95	200
11.470.50.95/315	50	95,5	315

DIN 69871 + AD

Grundhållare - avsedd för hållare enl. TR

11.500

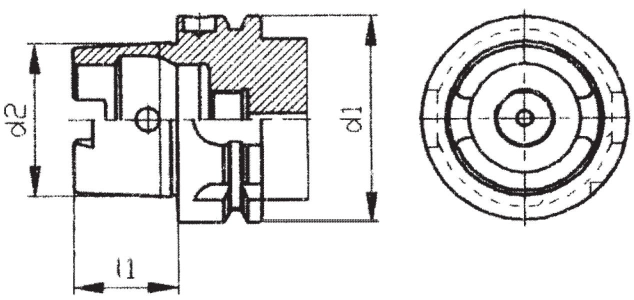




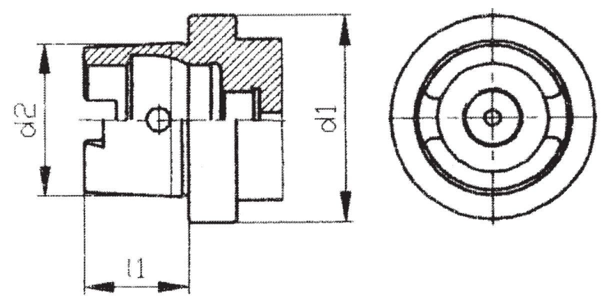
Artikel nr	K ISO	d1 G6 mm	A mm	D mm	2 x
11.500.40.28/070	40	28	70	55	89.122.36
11.500.40.36/125		36	125	63	89.122.36
11.500.50.28/100	50	28	100	55	89.122.36
11.500.50.36/100		36	100	63	89.122.36

Dimension HSK och 69893 A

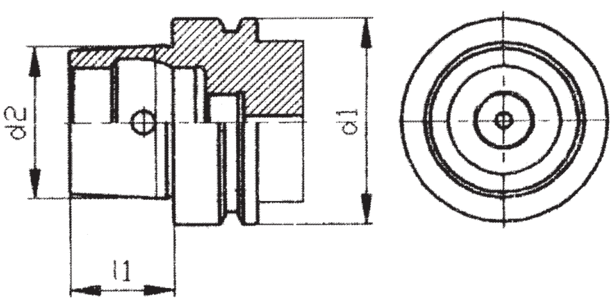
HSK A



HSK C



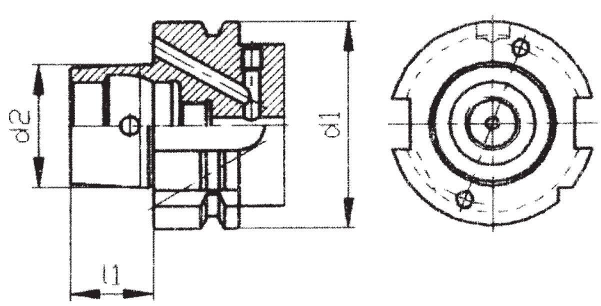
HSK E



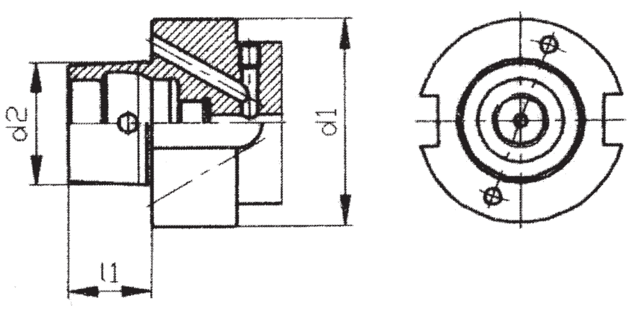
HSK A / C / E

d1	d2	L1
32	24	16
40	30	20
50	38	25
63	48	32
100	75	50

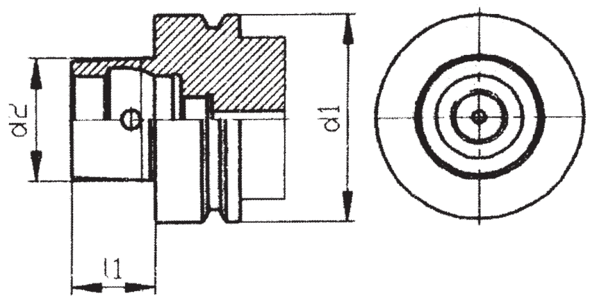
HSK B



HSK D



HSK F

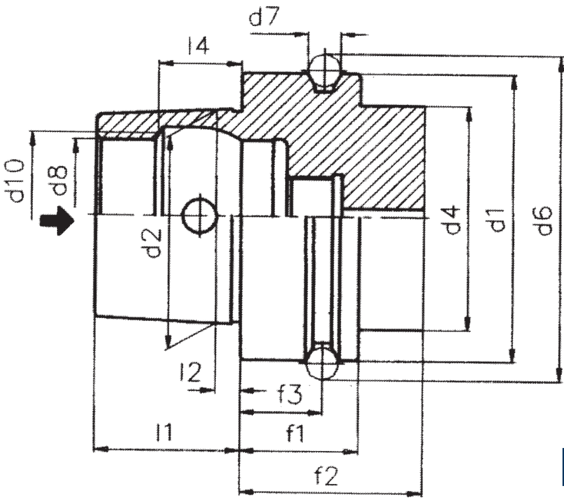


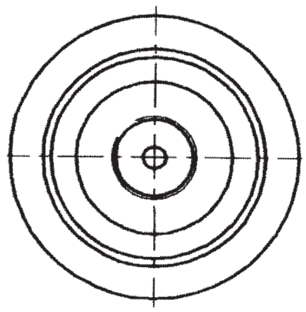
HSK B / D / F

d1	d2	L1
-	-	-
40	24	16
50	30	20
63	38	25
100	60	40

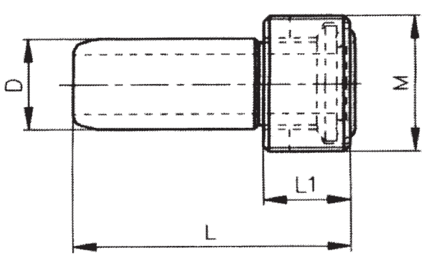
Dimension HSK E

DIN 69893

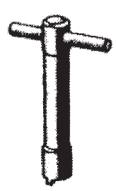




	HSK 40	HSK 50	HSK 63
d1	40	50	63
d2	30	38	48
d4	34	42	53
d6	45	59,3	72,3
d7	4	7	7
d8	21	26	34
d10	23	29	37
f1	20	26	26
f2	35	42	42
f3	16	18	18
l1	20	25	32
l2	4	5	6,3
l4	11,42	14,13	18,13



Artikel nr	HSK	M	D	L	L1
16.HSK40KYLRÖR	40	M12x1	8	29,3	7,5
16.HSK50KYLRÖR	50	M16x1	10	33	9,5
16.HSK63KYLRÖR	63	M18x1	12	36,6	11,5

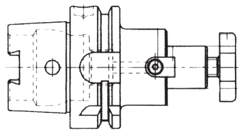


HSK 40	HSK 50	HSK 63
16.HSK40NYCKEL	16.HSK50NYCKEL	16.HSK63NYCKEL

16

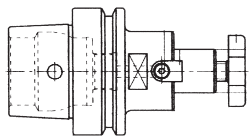
Ändfräsdorn sid 4-46

16.160A



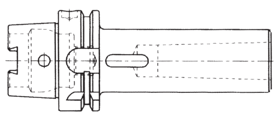
Ändfräsdorn sid 4-49

16.160E



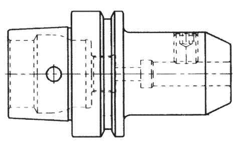
Insatshylsa för tunga sid 4-49

16.215A



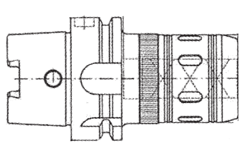
Weldonhållare sid 4-50

16.300A



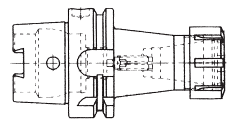
Kraftchuck sid 4-53

16.370



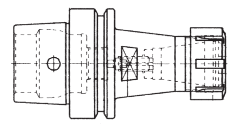
Spännhylschuck ER sid 4-54

16.453/455A



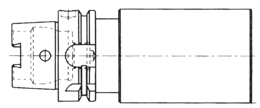
Spännhylschuck ER sid 4-55

16.453/455E



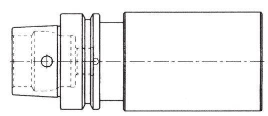
Obearbetade ämne sid 4-56

16.470A



Obearbetade ämne sid 4-56

16.470E



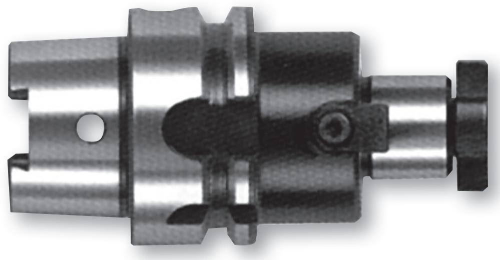
4

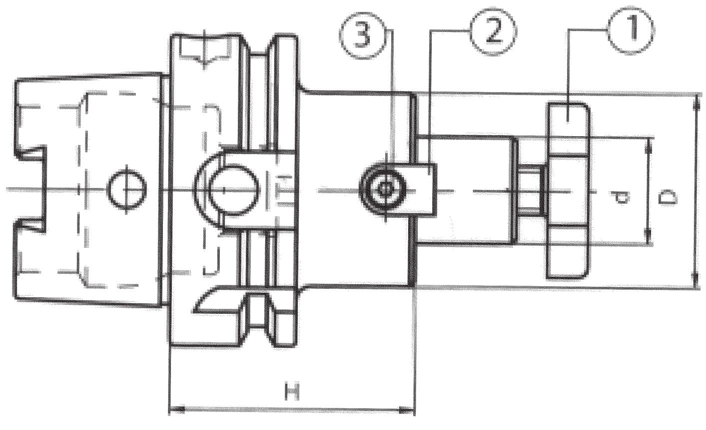
VERKTYGSHÅLLARE

Ändfräsdorn

ISO 3937

16.160A





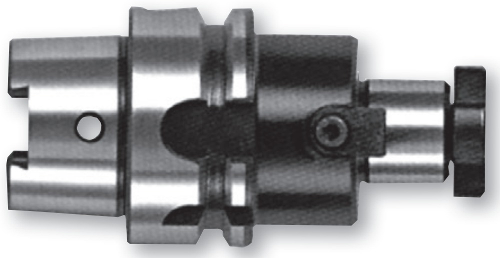
Artikel nr	HSK	H	d	D
16.160.32.16A	32	45	16	38
16.160.32.22A	32	50	22	48
16.160.40.16A	40	45	16	38
16.160.40.22A	40	50	22	48
16.160.40.27A	40	55	27	58
16.160.50.16A	50	45	16	38
16.160.50.22A	50	55	22	48
16.160.50.27A	50	60	27	58
16.160.50.32A	50	60	32	78
16.160.63.16A	63	45	16	38
16.160.63.22A	63	50	22	48
16.160.63.27A	63	55	27	58
16.160.63.32A	63	60	32	78
16.160.100.16A	100	55	16	38
16.160.100.22A	100	55	22	48
16.160.100.27A	100	55	27	58
16.160.100.32A	100	60	32	78
16.160.100.40A	100	65	40	88

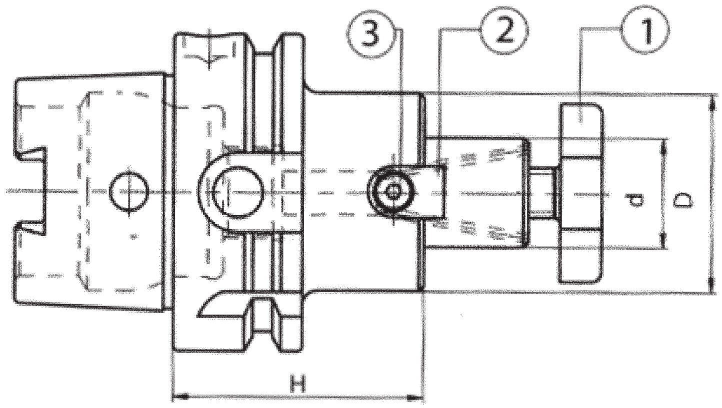
ISO 3937

Ändfräsdorn

16.160AK

Med genomgående kylning





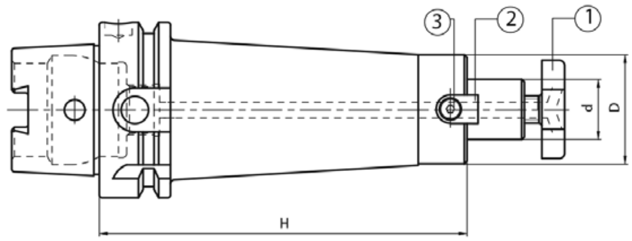
Artikel nr	HSK	H	d	D
16.160.40.16AK	16	45	16	38
16.160.40.22AK	22	50	22	48
16.160.40.27AK	27	55	27	58
16.160.50.16AK	16	50	16	38
16.160.50.22AK	22	60	22	48
16.160.50.27AK	27	60	27	60
16.160.50.32AK	32	60	32	78
16.160.63.16AK	16	45	16	38
16.160.63.22AK	22	50	22	48
16.160.63.27AK	27	55	27	58
16.160.63.32AK	32	60	32	78
16.160.63.40AK	40	60	40	89
16.160.100.16AK	16	50	16	40
16.160.100.22AK	22	50	22	50
16.160.100.27AK	27	50	27	60
16.160.100.32AK	32	50	32	70
16.160.10040AK	40	60	40	89

ISO 3937

16.160A

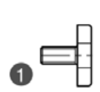
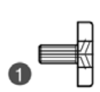
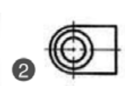
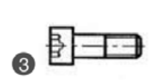
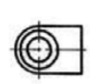
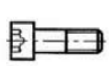
Ändfräsdorn, förlängd

För fräs med drivspår enligt DIN 138



Artikel nr	HSK	H	d	D	d3
16.160.63.16/100A	63	100	16	38	40
16.160.63.22/100A	63	100	22	48	-
16.160.63.27/100A	63	100	27	58	-
16.160.63.32/100A	63	100	32	78	-
16.160.63.40/100A	63	100	40	88	-
16.160.100.16/100A	100	100	16	38	40
16.160.100.22/100A	100	100	22	48	50
16.160.100.27/100A	100	100	27	58	60
16.160.100.32/100A	100	100	32	78	80
16.160.100.40/100A	100	100	40	88	-
16.160.125.22/100A	125	100	22	48	50
16.160.125.27/100A	125	100	27	58	63
16.160.125.32/100A	125	100	32	78	80
16.160.125.40/100A	125	100	40	88	-
16.160.63.16/160A	63	160	16	32	38
16.160.63.22/160A	63	160	22	40	48
16.160.63.27/160A	63	160	27	48	50
16.160.63.32/160A	63	160	32	58	-
16.160.100.16/160A	100	160	16	32	42
16.160.100.22/160A	100	160	22	40	50
16.160.100.27/160A	100	160	27	48	68
16.160.100.32/160A	100	160	32	58	76
16.160.100.40/160A	100	160	40	70	84
16.160.125.22/160A	125	160	22	40	50
16.160.125.27/160A	125	160	27	48	63
16.160.125.32/160A	125	160	32	58	80
16.160.125.40/160A	125	160	40	70	88

Reservdelar

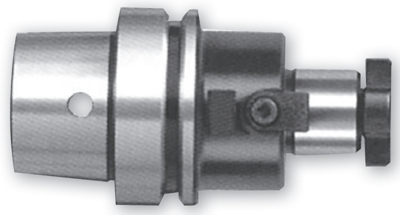
d	Krysskruv	Krysskruv	Medbringare	Skruv	Medbringare	Skruv	Nyckel
	 1	 1	 2	 3			
16	811-107003	811-107013	814-202280	811-101004	814-202140	811-101003	816-13002
22	811-107004	811-107014	814-202250	811-101011	814-202150	811-101010	816-13003
27	811-107005	811-107015	814-202270	811-101018	814-202160	811-101017	816-13004
32	811-107006	811-107016	814-202630	811-101029	814-202170	811-101027	816-13005
40	811-107007	811-107017	814-202710	811-101029	814-202180	811-101028	816-13006

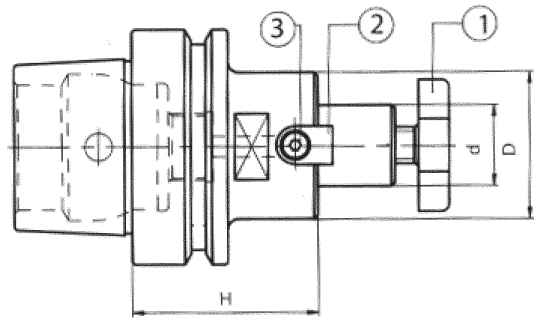
Ändfräsdorn

För fräs med drivspår enligt DIN 138

ISO 3937

16.160E





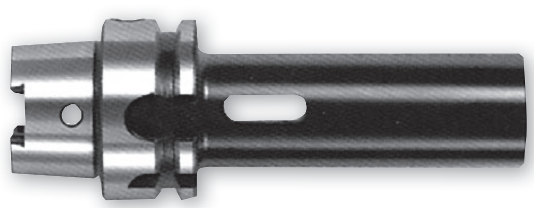
Artikel nr	HSK	H	d	D
16.160.40.16E	40	45	16	38
16.160.40.22E	40	50	22	48
16.160.63.22E	63	50	22	48
16.160.63.27E	63	55	27	58

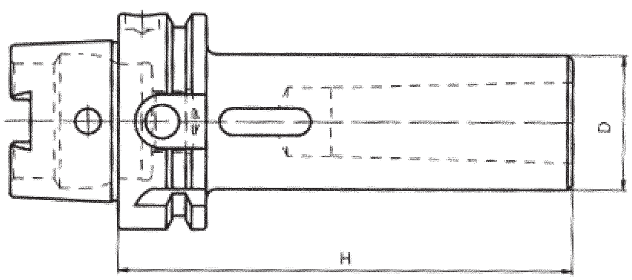
Insatshylsa

DIN 228-2D

16.215A

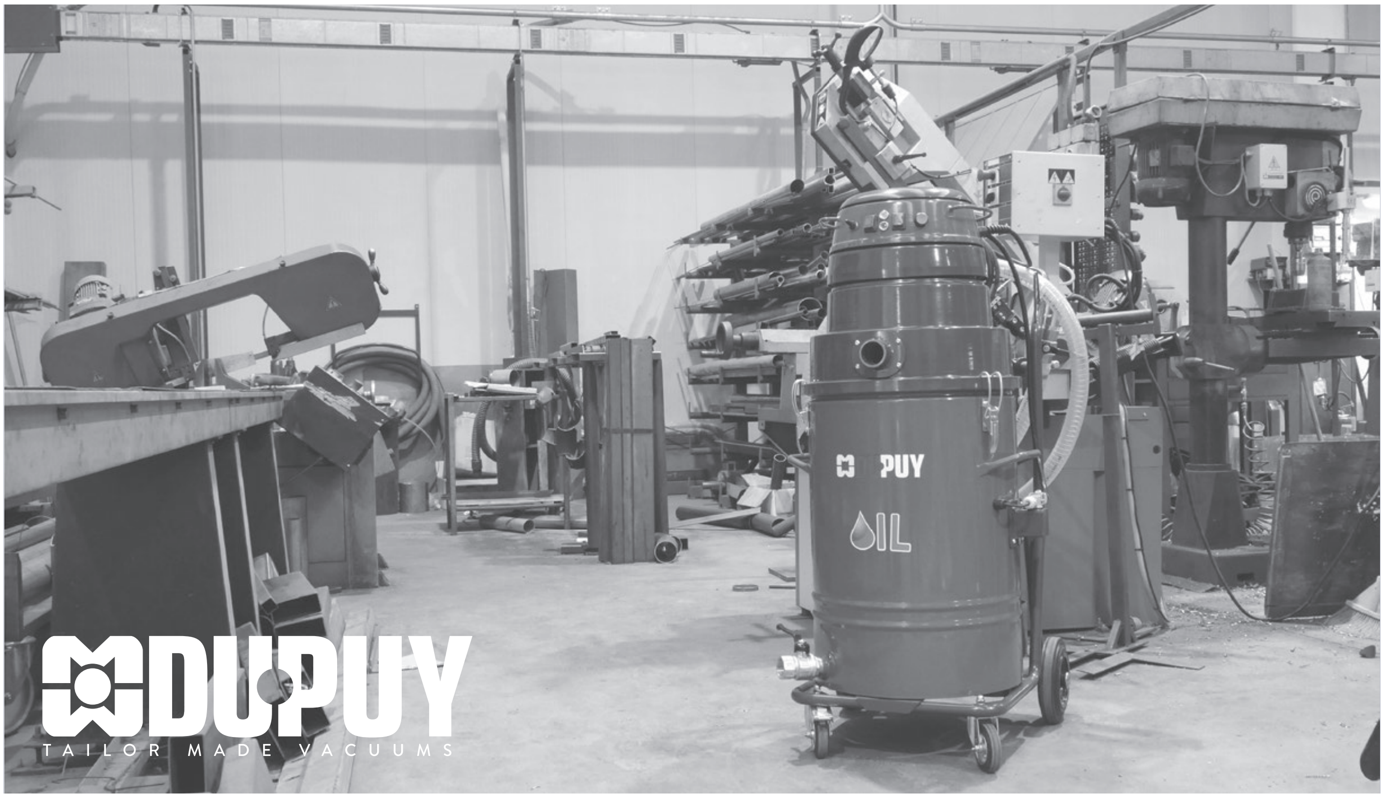
Avsedd för morsekona med tunga





Artikel nr	HSK	Morse	H	D
16.215.50.01A	50	1	100	25
16.215.50.02A	50	2	120	32
16.215.50.03A	50	3	140	40
16.215.63.01A	63	1	100	25
16.215.63.02A	63	2	115	32
16.215.63.03A	63	3	135	40
16.215.63.04A	63	4	160	48
16.215.100.02A	100	2	120	32
16.215.100.03A	100	3	150	40
16.215.100.04A	100	4	170	48

Förläng livslängden på din skärvätska

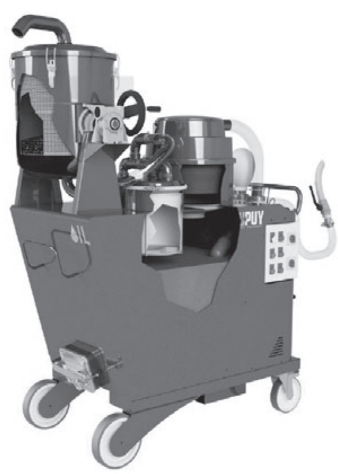


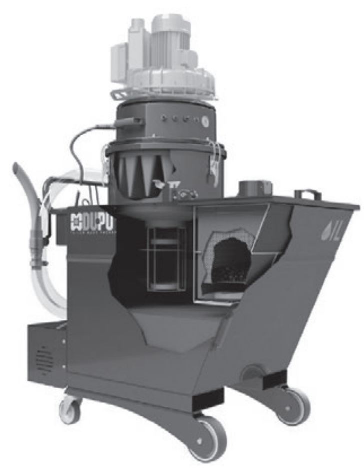
Med en OilVac från Dupuy separerar du lätt spånorna från vätskan i maskinen. Ett tvättbart filter med reningsgrad 300 µm ingår som standard. Sug upp spånor och vätska tillsammans, efter filtrering pumpar du tillbaka vätskan där du vill ha den.











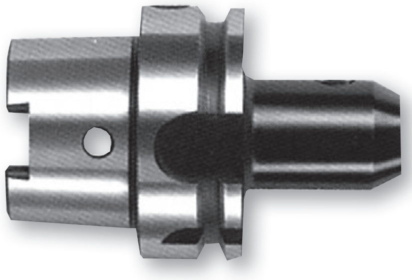
- Du finner all information om OilVac från Dupuy i kapitel 17!

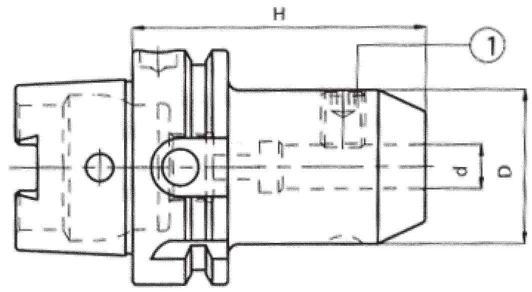
DIN 1835/B

16.300A

Weldonhållare

Avsedd för fräs med cylindriskt skaft enligt Weldon DIN 1835-B





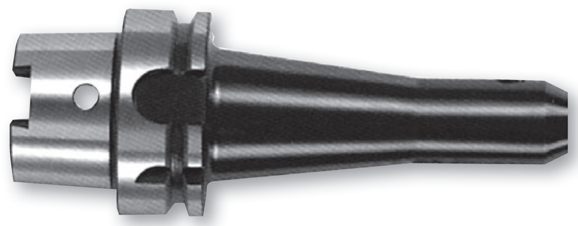
Artikel nr	HSK	H	d	D
16.300.32.06A	32	60	6	25
16.300.32.08A	32	60	8	28
16.300.32.10A	32	65	10	35
16.300.40.06A	40	60	6	25
16.300.40.08A	40	60	8	28
16.300.40.10A	40	65	10	35
16.300.40.12A	40	70	12	42
16.300.40.14A	40	70	14	44
16.300.40.16A	40	80	16	48
16.300.40.20A	40	80	20	52
16.300.50.06A	50	65	8	28
16.300.50.08A	50	65	8	28
16.300.50.10A	50	65	10	35
16.300.50.12A	50	80	12	42
16.300.50.14A	50	80	14	44
16.300.50.16A	50	80	16	48
16.300.50.18A	50	80	18	50
16.300.50.20A	50	80	20	52
16.300.50.25A	50	105	25	65
16.300.63.06A	63	65	6	25
16.300.63.08A	63	65	8	28
16.300.63.10A	63	65	10	35
16.300.63.12A	63	80	12	42
16.300.63.14A	63	80	14	44
16.300.63.16A	63	80	16	48
16.300.63.18A	63	80	18	50
16.300.63.20A	63	80	20	52
16.300.63.25A	63	110	25	65
16.300.63.32A	63	110	32	72
16.300.100.06A	100	90	6	25
16.300.100.08A	100	90	8	28
16.300.100.10A	100	90	10	35
16.300.100.12A	100	100	12	42
16.300.100.14A	100	100	14	44
16.300.100.16A	100	100	16	48
16.300.100.18A	100	100	18	50
16.300.100.20A	100	110	20	52
16.300.100.25A	100	120	25	65
16.300.100.32A	100	120	32	72
16.300.100.40A	100	120	40	80

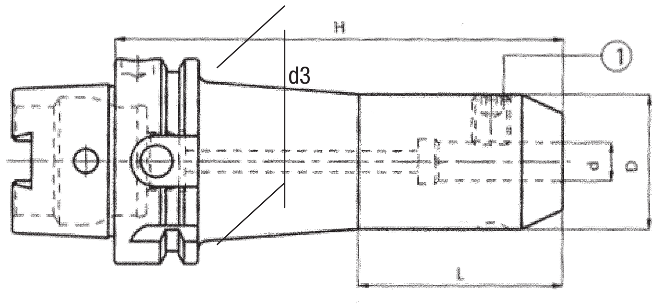
DIN 1835/B

16.300A

Weldonhållare, förlängd

Avsedd för fräs med cylindriskt skaft enligt Weldon DIN 1835-B

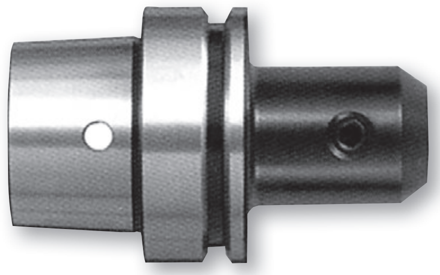


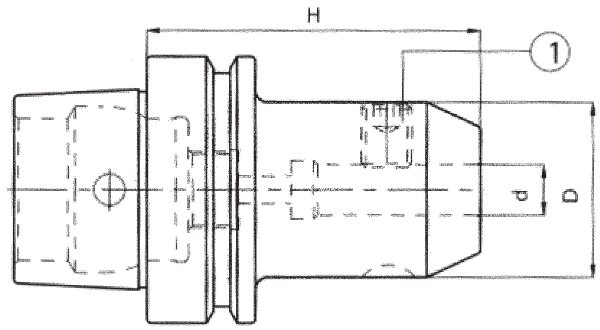


Artikel nr	HSK	H	d	D	d3	L
16.300.40.06/100A	40	100	6	18	24	50
16.300.40.08/100A	40	100	8	22	28	50
16.300.40.10/100A	40	100	10	30	30	-
16.300.40.12/100A	40	100	12	34	34	-
16.300.63.06/100A	63	100	6	18	26	50
16.300.63.08/100A	63	100	8	22	30	50
16.300.63.10/100A	63	100	10	30	30	-
16.300.63.12/100A	63	100	12	34	34	-
16.300.63.16/100A	63	100	16	42	42	-
16.300.100.06/160A	100	160	6	18	34	50
16.300.100.08/160A	100	160	8	22	38	50
16.300.100.10/160A	100	160	10	30	46	65
16.300.100.12/160A	100	160	12	34	50	70
16.300.100.16/160A	100	160	16	42	50	70
16.300.100.20/160A	100	160	20	45	53	70
16.300.100.25/160A	100	160	25	55	66	80

Weldonhållare

Avsedd för fräs med cylindriskt skaft enligt Weldon DIN 1835-B





Artikel nr	HSK	H	d	D
16.300.40.06E	40	60	6	25
16.300.40.08E	40	60	8	28
16.300.40.10E	40	65	10	35
16.300.40.12E	40	70	12	48
16.300.40.16E	40	70	16	48
16.300.50.06E	50	65	6	25
16.300.50.08E	50	65	8	28
16.300.50.10E	50	70	10	35
16.300.50.12E	50	80	12	42
16.300.50.16E	50	80	16	48
16.300.50.20E	50	85	20	52
16.300.63.06E	63	65	6	25
16.300.63.08E	63	65	8	28
16.300.63.16E	63	80	16	48

Kraftchuck med cylindriska hylsor

Mutter med nållager

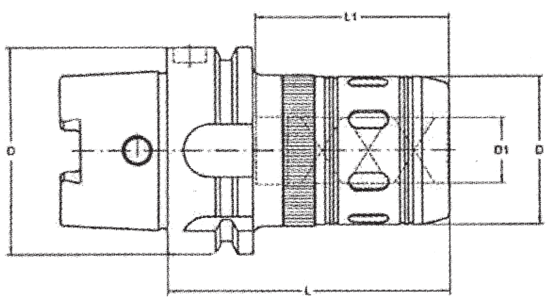
- Stor fastspänningskraft
- Stor stabilitet (kort överhäng)
- Bättre åtkomlighet med förminskad ytterdiameter på muttern
- Underhållsfri
- Direkt tätning.
  Tack vare en ny konstruktion av den inre delen av chucken får man en perfekt tätning.
- Tätning via spännhylsan
  Med den nya spännhylsan får man också en perfekt tätning

DIN 69893-HSK A

16.370

Kraftchuck

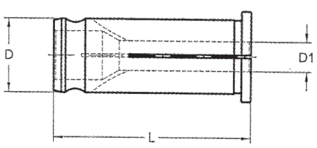
För verktyg med cylindriska skaft, DIN 69893-HSK A

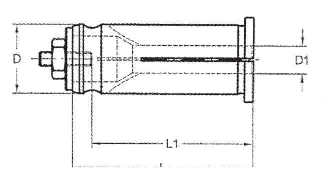


Artikel nr	Kona	D1 Max	L	L1	D
16.370.63.20	63	20	85	60	46
16.370.63.20/110	63	20	110	60	46
16.370.63.32	63	32	110	80	62
16.370.63.32/130	63	32	130	80	62
16.370.100.20	100	20	105	60	46
16.370.100.32	100	32	115	80	62
16.370.100.32/135	100	32	135	80	62

Dynamisk balansering upp till
15000 rpm SK40/HSK63
10000 rpm SK50/HSK100

Tätande spännhylsor





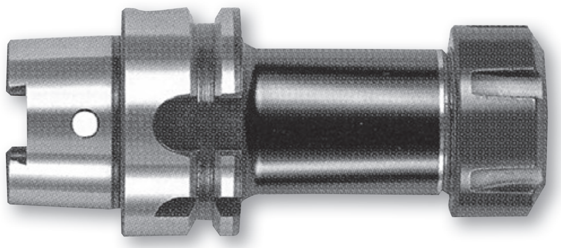
Diametrar utv. 20 mm 6-8-10-12-14-16 mm
Diametrar utv. 32 mm 6-8-10-12-14-16-18-20-25 mm

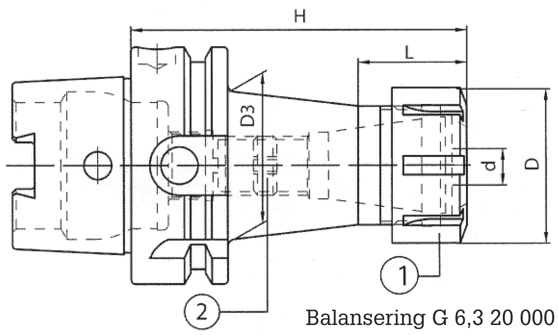
DIN 6499

Spännhylschuck

16.453/455A

Hylstyp ER





Balansering G 6,3 20 000 rpm

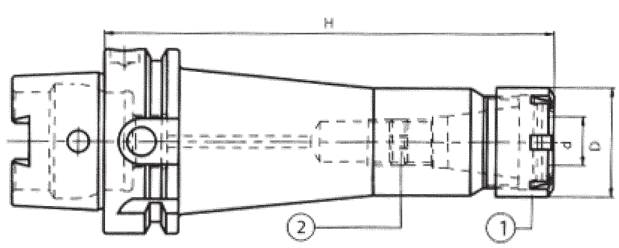
Artikel nr	HSK	H	d	Hylsa	D	ER
16.455.32.10A	32	65	0,5-12	ER16	22	16
16.455.32.16A	32	70	1-18	ER25	35	25
16.455.40.10A	40	60	0,5-12	ER16	22	16
16.455.40.10A	40	70	0,5-12	ER16	22	16
16.453.40.16A	40	65	1-18	ER25	42	25
16.453.40.20A	40	65	1-20	ER32	50	32
16.453.40.20/100A	40	100	1-20	ER32	50	32
16.455.50.10A	50	80	0,5-12	ER16	22	16
16.453.50.16A	50	95	1-18	ER25	42	25
16.453.50.20A	50	100	2-20	ER32	50	32
16.455.63.10A	63	90	0,5-12	ER16	22	16
16.453.63.16A	63	75	1-18	ER25	42	25
16.453.63.20A/100A	63	100	1-20	ER32	50	32
16.453.63.26A	63	80	3-30	ER40	63	40
16.453.100.16A	100	100	1-18	ER25	42	25
16.453.100.20A	100	100	1-20	ER32	50	32
16.453.100.26A	100	120	3-30	ER40	63	40

DIN 6499

Spännhylschuck, förlängd

16.453/455A

Hylstyp ER



Balansering G 2,5 30 000 rpm

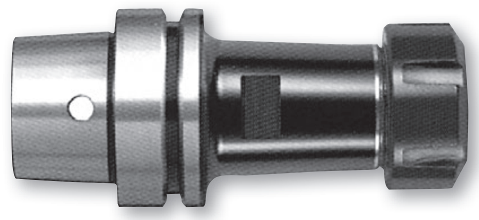
Artikel nr	HSK	H	d	Hylsa	D	ER
16.455.50.10/150A	50	150	0,5-12	ER16	22	16M
16.455.63.10/160A	63	160	0,5-12	ER16	22	16M
16.455.63.16/160A	63	160	1-18	ER25	35	25M
16.453.63.20/160A	63	160	2-20	ER32	50	32
16.453.63.26/160A	63	160	3-30	ER40	63	40
16.453.100.16/160A	100	160	1-18	ER25	42	25
16.453.100.20/160A	100	160	2-20	ER32	50	32
16.453.100.26/160A	100	160	3-30	ER40	63	40

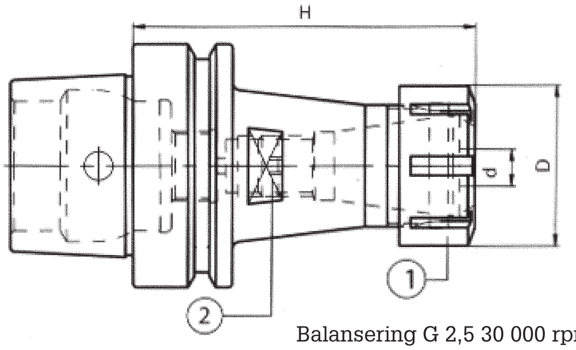
DIN 6499

16.453/455E

Spännhylschuck

Avsedd för ER-hylsor enligt DIN 6499





Balansering G 2,5 30 000 rpm

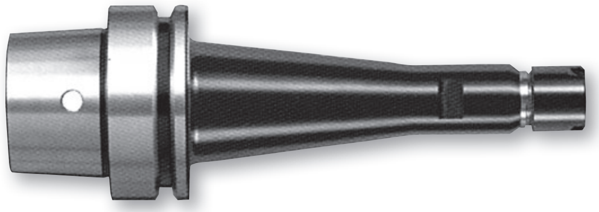
Artikel nr	HSK	H	d	D	Hylsa
16.455.40.10E	40	70	0,5-12	22	ER16
16.455.40.16E	40	80	1-18	35	ER25
16.455.50.10E	50	80	0,5-12	22	ER16
16.453.50.16E	50	95	1-18	42	ER25
16.453.50.20E	50	100	2-20	50	ER32
16.455.63.10E	63	90	0,5-12	22	ER16
16.453.63.16E	63	90	1-18	42	ER25
16.453.63.20E	63	100	2-20	50	ER32
16.453.63.26E	63	80	3-30	63	ER40
16.453.63.26/120E	63	120	3-30	63	ER40

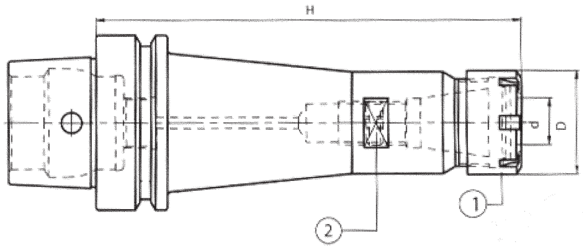
DIN 6499

16.453/455E

Spännhylschuck, förlängd

Avsedd för ER-hylsor enligt DIN 6499





Balansering G 2,5 30 000 rpm

Artikel nr	HSK	H	d	D	Hylsa
16.455.40.10/120E	40	120	0,5-12	22	ER16
16.455.40.16/120E	40	120	1-18	35	ER25
16.455.50.10/150E	50	150	0,5-12	22	ER16
16.455.63.10/160E	63	160	0,5-12	22	ER16

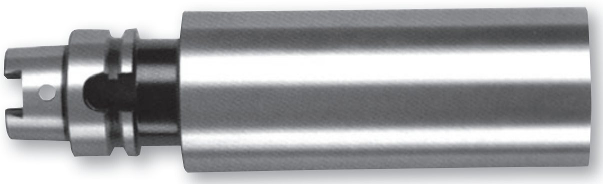
Obearbetat ämne

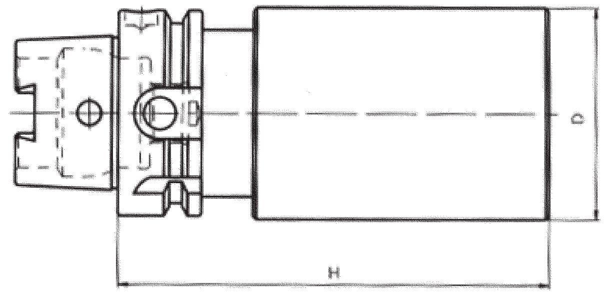
DIN 228-2D

16.470A

4

VERKTYGSHÅLLARE



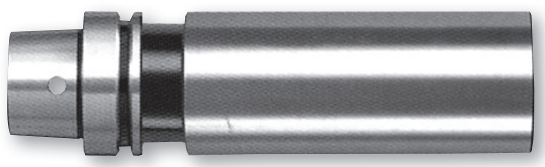


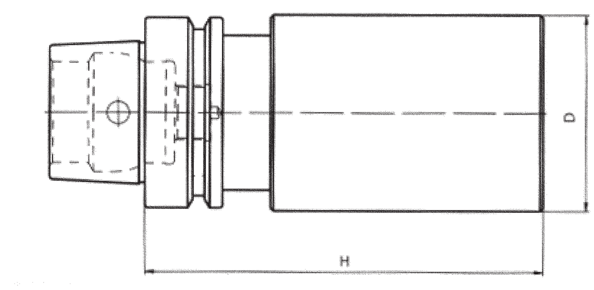
Artikel nr	HSK	H	D
16.470.32.35/150A	32	150	35
16.470.40.40/150A	40	150	40
16.470.40.52/200A	40	200	52
16.470.50.52/200A	50	200	52
16.470.50.63/200A	50	200	63
16.470.63.63/250A	63	250	63
16.470.63.80/250A	63	250	80
16.470.100.63/200A	100	200	63
16.470.100.80/250A	100	250	80
16.470.100.90/300A	100	300	90

Obearbetat ämne

DIN 228-2D

16.470E





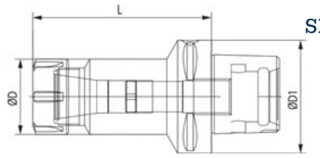
Artikel nr	HSK	H	D
16.470.40/100	40	100	40
16.470.50/100	50	100	50
16.470.63.63.200	63	200	63

DIN ISO 26623-1

18

Spännhylschuck — sid 4-59

18.453

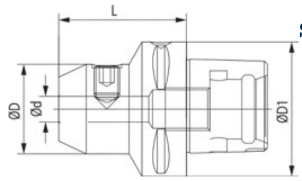


Spännhylschuck med minimutter — sid 4-59

18.455

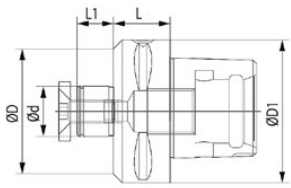
Weldonhållare — sid 4-60

18.300



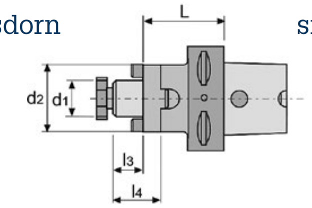
Ändfräsdorn — sid 4-60

18.160



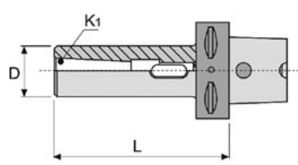
Kombinerad ändfräsdorn — sid 4-61

18.180



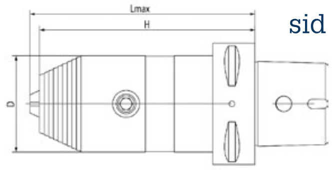
Reducerhylsa — sid 4-61

18.215



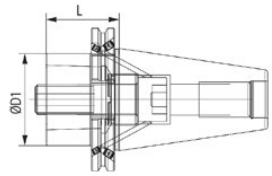
Borrchuck — sid 4-62

18.296



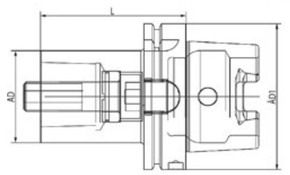
Reducering — sid 4-62

13.226



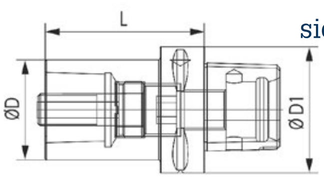
Reducering HSK — sid 4-63

16.226



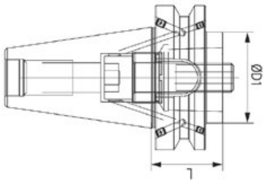
Reducering CAPTO — sid 4-63

18.226



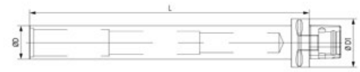
Reducering BT — sid 4-64

23.226



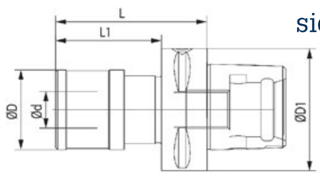
Provdorn — sid 4-65

18.PRD



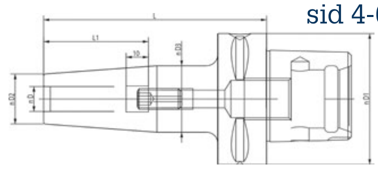
Gängapparat — sid 4-65

18.620



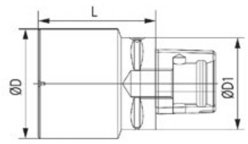
Krymphållare — sid 4-66

18.300H



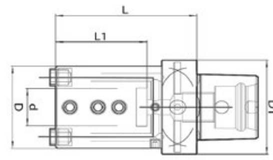
Obearbetade ämnen — sid 4-67

18.470



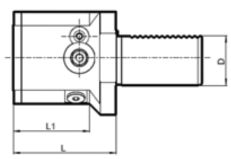
Borrstångshållare — sid 4-67

18.E2



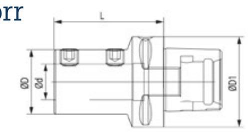
Reducering VDI — sid 4-68

18.VDI



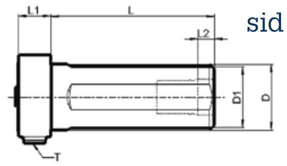
Hållare för korthålsborr — sid 4-69

E1



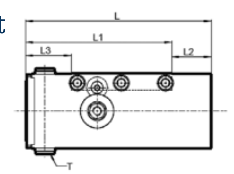
Reduc. cylindriskt skaft — sid 4-71

18.40



Reducering fyrkant skaft — sid 4-71

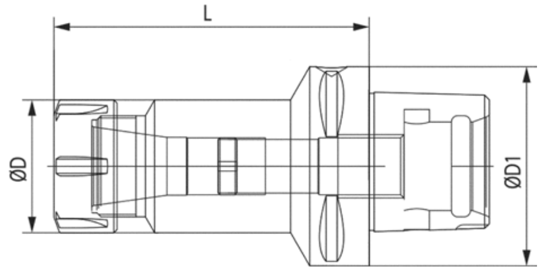
18.040



Spännhylschuck

DIN ISO 26623-1

18.453



Artikel nr	Mutter	Skaft	Hylsa	Ø D1	Ø D	Längd
18.453.040.10	80.493.10	C40	ER16	40	28	60
18.453.040.16	80.493.16	C40	ER25	40	42	60
18.453.040.20	80.493.20	C40	ER32	40	50	60
18.453.050.10	80.493.10	C50	ER16	50	28	60
18.453.050.13	80.493.13	C50	ER20	50	34	60
18.453.050.16	80.493.16	C50	ER25	50	42	60
18.453.050.20	80.493.20	C50	ER32	50	50	60
18.453.050.26	80.493.26	C50	ER40	50	63	65
18.453.050.10/100	80.493.10	C50	ER16	50	28	100
18.453.050.16/100	80.493.16	C50	ER25	50	42	100
18.453.050.20/100	80.493.20	C50	ER32	50	50	100
18.453.050.26/100	80.493.26	C50	ER40	50	63	100

Artikel nr	Mutter	Skaft	Hylsa	Ø D1	Ø D	Längd
18.453.063.10	80.493.10	C63	ER16	63	28	60
18.453.063.13	80.493.13	C63	ER20	63	34	60
18.453.063.16	80.493.16	C63	ER25	63	42	60
18.453.063.20	80.493.20	C63	ER32	63	50	60
18.453.063.26	80.493.26	C63	ER40	63	63	70
18.453.063.10/100	80.493.10	C63	ER16	63	28	100
18.453.063.13/100	80.493.13	C63	ER20	63	34	100
18.453.063.16/100	80.493.16	C63	ER25	63	42	100
18.453.063.20/100	80.493.20	C63	ER32	63	50	100
18.453.063.26/130	80.493.26	C63	ER40	63	63	130
18.453.080.16	80.493.16	C80	ER25	80	42	70
18.453.080.20	80.493.20	C80	ER32	80	50	70
18.453.080.26	80.493.26	C80	ER40	80	63	70

Spännhylschuck med minimutter

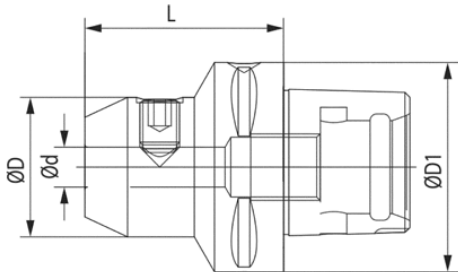
18.455

Artikel nr	Mutter	Skaft	Hylsa	Ø D1	Ø D	Längd
18.455.050.07/100	80.495.07	C50	ER11	50	16	100
18.455.050.10/100	80.495.10	C50	ER16	50	22	100
18.455.050.13/100	80.495.13	C50	ER20	50	28	100
18.455.050.25/100	80.495.16	C50	ER25	50	35	100
18.455.063.07/100	80.495.07	C63	ER11	63	16	100
18.455.063.10/100	80.495.10	C63	ER16	63	22	100
18.455.063.13/100	80.495.13	C63	ER20	63	28	100
18.455.063.16/100	80.495.16	C63	ER25	63	35	100
18.455.063.07/160	80.495.07	C63	ER11	63	16	160
18.455.063.10/160	80.495.10	C63	ER16	63	22	160
18.455.063.13/160	80.495.13	C63	ER20	63	28	160
18.455.063.16/160	80.495.16	C63	ER25	63	35	160

Weldonhållare

DIN ISO 26623-1

18.300



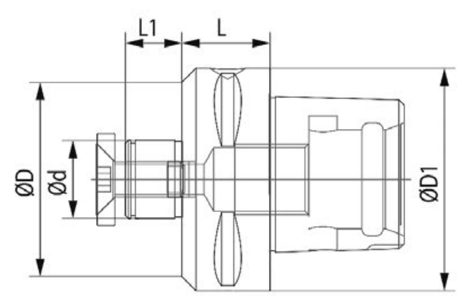
Artikel nr	Skaft	Ø D1 mm	Ø D mm	Ø d mm	Längd
18.300.040.06	C40	40	25	6	50
18.300.040.08	C40	40	28	8	50
18.300.040.10	C40	40	35	10	50
18.300.040.12	C40	40	42	12	55
18.300.040.14	C40	40	44	14	55
18.300.040.16	C40	40	48	16	55
18.300.050.06	C50	50	25	6	55
18.300.050.08	C50	50	28	8	55
18.300.050.10	C50	50	35	10	65
18.300.050.12	C50	50	42	12	65
18.300.050.14	C50	50	42	14	65
18.300.050.16	C50	50	48	16	65
18.300.050.18	C50	50	48	18	65
18.300.050.20	C50	50	52	20	65
18.300.050.25	C50	50	65	25	80
18.300.063.06	C63	63	25	6	55
18.300.063.08	C63	63	28	8	55
18.300.063.10	C63	63	35	10	60
18.300.063.12	C63	63	42	12	60
18.300.063.14	C63	63	44	14	60
18.300.063.16	C63	63	48	16	65
18.300.063.20	C63	63	52	20	65
18.300.063.25	C63	63	64	25	80
18.300.063.32	C63	63	72	32	90
18.300.080.06	C80	80	25	6	70
18.300.080.08	C80	80	28	8	70
18.300.080.10	C80	80	35	10	70
18.300.080.12	C80	80	42	12	70
18.300.080.14	C80	80	44	14	70
18.300.080.16	C80	80	48	16	70
18.300.080.20	C80	80	50	20	70
18.300.080.25	C80	80	52	25	80
18.300.080.32	C80	80	65	32	80
18.300.080.40	C80	80	80	40	110

Ändfräsdorn

DIN ISO 26623-1

18.160

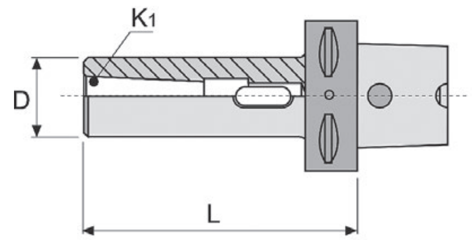
Artikel nr	Skaft	Ø D1 mm	Ø D mm	Ø d mm	L mm	L1 mm
18.160.040.16	C40	40	32	16	32	17
18.160.040.22	C40	40	40	22	25	19
18.160.050.16	C50	50	37	16	60	17
18.160.050.22	C50	50	47	22	60	19
18.160.050.27	C50	50	58	27	60	21
18.160.050.32	C50	50	63	32	60	24
18.160.063.16	C63	63	32	16	40	17
18.160.063.16/063	C63	63	37	16	63	17
18.160.063.22	C63	63	55	22	25	19
18.160.063.22/100	C63	63	47	22	100	19
18.160.063.27	C63	63	63	27	25	21
18.160.063.27/100	C63	63	58	27	100	21
18.160.063.32	C63	63	63	32	25	24
18.160.063.32/100	C63	63	63	32	100	24
18.160.063.40	C63	63	89	40	40	27
18.160.063.40/100	C63	63	70	40	100	27
18.160.080.16	C80	80	32	16	50	17
18.160.080.22	C80	80	55	22	30	19
18.160.080.27	C80	80	65	27	30	21
18.160.080.32	C80	80	79	32	30	24
18.160.080.40	C80	80	80	40	30	27



Reducerhylsa

DIN ISO 26623-1

18.215

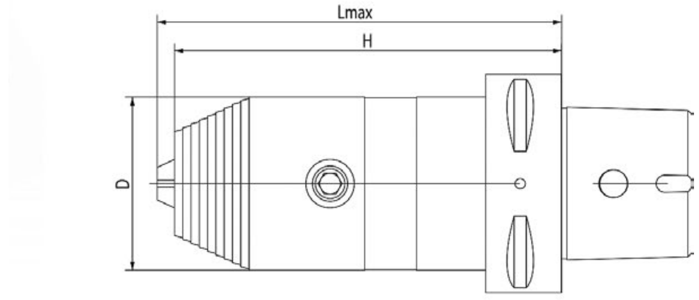


Artikel nr	Skaft	D1 mm	K1	L mm
18.215.050.02	C50	32	MK2	110
18.215.050.03	C50	40	MK3	130
18.215.063.02	C63	32	MK2	110
18.215.063.03	C63	40	MK3	130
18.215.063.04	C63	52	MK4	150
18.215.080.03	C80	40	MK3	120
18.215.080.04	C80	52	MK4	145
18.215.080.05	C80	63	MK5	180

Borrchuck

DIN ISO 26623-1

18.296

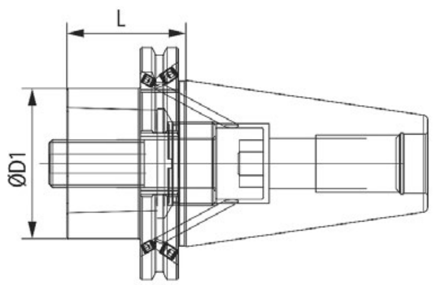


Artikel nr	Skaft	D mm	D1 mm	L mm	H mm
18.296.032.13	C32	50	0,5-13	103	96
18.296.040.13	C40	50	0,5-13	105	98
18.296.050.13	C50	50	0,5-13	105	97
18.296.063.13	C63	50	0,5-13	118	112
18.296.063.16	C63	57	2,5-16	123	117
18.296.080.13	C80	50	0,5-13	112	106
18.296.080.16	C80	57	2,5-16	115	111

Reducering

13.226

DIN 69871



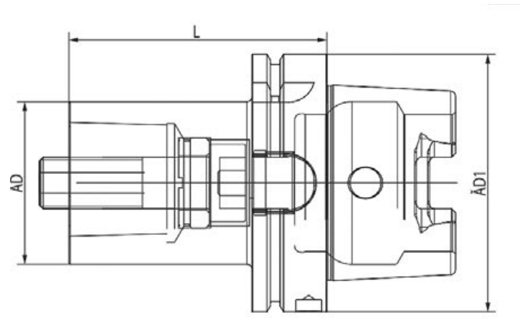
Artikel nr	Skaft	D1 mm	L mm
13.226.40.32	DIN69871/40-C32	32	30
13.226.40.32/60	DIN69871/40-C32	32	60
13.226.40.40	DIN69871/40-C40	40	30
13.226.40.040	DIN69871/40-C40	40	40
13.226.40.40/60	DIN69871/40-C40	40	60
13.226.40.50	DIN69871/40-C50	50	40
13.226.40.63	DIN69871/40-C63	63	85
13.226.50.32	DIN69871/50-C32	32	30
13.226.50.32/60	DIN69871/50-C32	32	60
13.226.50.40	DIN69871/50-C40	40	30
13.226.50.40/60	DIN69871/50-C40	40	60
13.226.50.50	DIN69871/50-C50	50	30
13.226.50.50/70	DIN69871/50-C50	50	70
13.226.50.50/110	DIN69871/50-C50	50	110
13.226.50.63	DIN69871/50-C63	63	30
13.226.50.63/50	DIN69871/50-C63	63	50
13.226.50.63/80	DIN69871/50-C63	63	80
13.226.50.80	DIN69871/50-C80	80	70
13.226.50.80/120	DIN69871/50-C80	80	120

Reducering HSK

DIN ISO 26623-1

16.226

DIN 69893/A

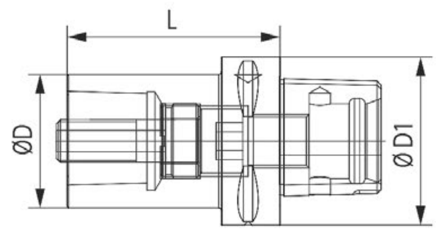


Artikel nr	Skaft	D mm	D1 mm	L mm
16.226.63.032	DIN69893 HSK63	32	63	63
16.226.63.040	DIN69893 HSK63	40	63	80
16.226.63.050	DIN69893 HSK63	50	63	90
16.226.63.063	DIN69893 HSK63	63	63	110
16.226.100.040	DIN69893 HSK100	40	100	90
16.226.100.050	DIN69893 HSK100	50	100	100
16.226.100.063	DIN69893 HSK100	63	100	90
16.226.100.063/150	DIN69893 HSK100	63	100	150
16.226.100.080	DIN69893 HSK100	80	100	120

Reducering

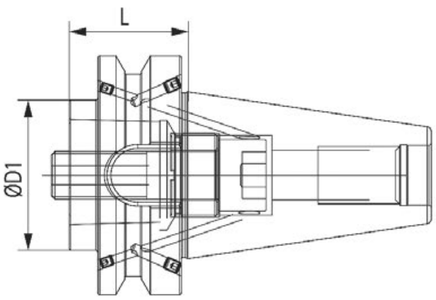
DIN ISO 26623-1

18.226



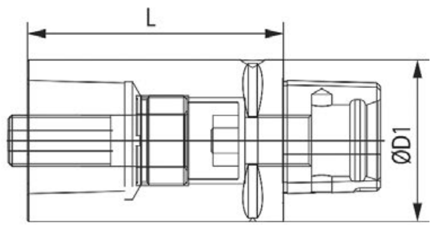
Artikel nr	D1 mm	D mm	L mm
18.226.040.032	40	32	55
18.226.050.040	50	40	85
18.226.050.040	50	40	65
18.226.063.040	63	40	80
18.226.063.050	63	50	80
18.226.080.050	80	50	120
18.226.080.063	80	63	80

Reducering BT



Artikel nr	Skaft	D1 mm	L mm
23.226.40.32	BT40/C32	32	30
23.226.40.32/60	BT40/C32	32	60
23.226.40.40	BT40/C40	40	30
23.226.40.40/60	BT40/C40	40	60
23.226.40.50	BT40/C50	50	50
23.226.40.50/90	BT40/C50	50	90
23.226.40.63	BT40/C63	63	75
23.226.50.32	BT50/C32	32	40
23.226.50.32/70	BT50/C32	32	70
23.226.50.40	BT50/C40	40	40
23.226.50.40/70	BT50/C40	40	70
23.226.50.50	BT50/C50	50	40
23.226.50.50/80	BT50/C50	50	80
23.226.50.63	BT50/C63	63	50
23.226.50.63/90	BT50/C63	63	90
23.226.50.80	BT50/C80	80	70
23.226.50.80	BT50/C80	80	120

Förlängare



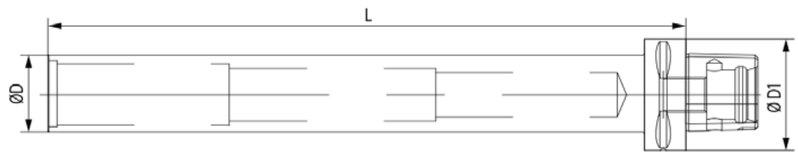
Artikel nr	Skaft	D1 mm	L mm
C32H60C32	C32	32	60
C32H80C32	C32	32	80
C40H40C40*	C40	40	40
C40H60C40	C40	40	60
C40H80C40	C40	40	80
C50H50C50*	C50	50	50
C50H80C50	C50	50	80
C50H100C50	C50	50	100
C63H60C63*	C63	63	60
C63H100C63	C63	63	100
C63H140C63	C63	63	140
C80H65C80	C80	80	65
C80H100C80	C80	80	100
C80H125C80	C80	80	125

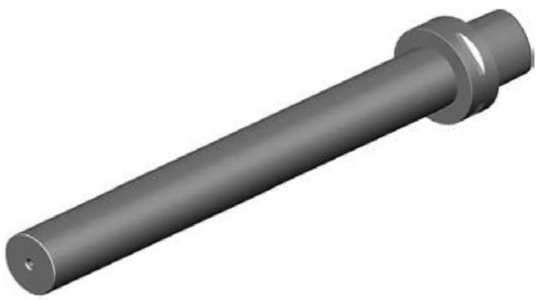
* Går ej att använda med standardhållare med centrumbult

Provdorn

DIN ISO 26623-1

18.PRD





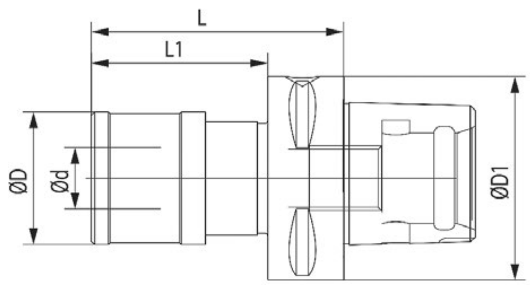
Artikel nr	Skaft	D1 mm	D mm	L mm
18.PRD.040.32/300	C40	40	35	300
18.PRD.050.40/300	C50	50	40	300
18.PRD.063.40/346	C63	63	40	346
18.PRD.080.40/346	C80	80	40	346

Gängapparat

SYSTEM BILZ

DIN 69871/

18.620

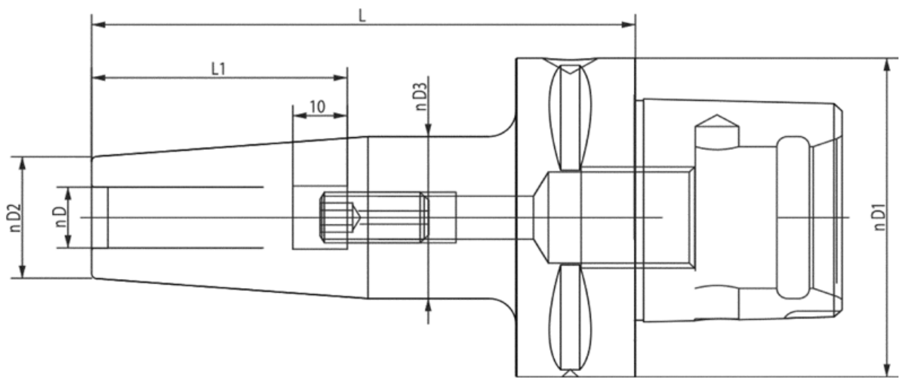


Artikel nr	Skaft	D1 mm	D mm	d mm	L mm	L1 mm	Gängtappområde
18.620.040.12	C40	40	41	19	68	48	M3-M12
18.620.040.20	C40	40	60	31	91,5	68	M6-M20
18.620.063.12	C63	63	41	19	73	51	M3-M12
18.620.063.20	C63	63	60	31	97	75	M6-M20
18.620.080.12	C80	80	41	19	75	45	M3-M12
18.620.080.20	C80	80	60	31	93,5	63,5	M6-M20
18.620.080.33	C80	80	86	48	137	107	M14-M33

Krymphållare

DIN ISO 26623-1

18.300H



Artikel nr	Skaft	D	D1	D2	D3	L	L1
18.300.063.03k	C63	3	63	10	-	80	-
18.300.063.04K	C63	4	63	10	-	80	-
18.300.063.05K	C63	5	63	10	-	80	-
18.300.063.06K	C63	6	63	21	27	80	36
18.300.063.08K	C63	8	63	21	27	80	36
18.300.063.10K	C63	10	63	24	32	80	42
16.300.063.12K	C63	12	63	24	32	80	47
16.300.063.14K	C63	14	63	27	34	85	47
16.300.063.16K	C63	16	63	27	34	85	50
16.300.063.18K	C63	18	63	33	42	85	50
16.300.063.20K	C63	20	63	33	42	85	52

Andra längder finns också.

Oljedimavskiljare Darwin

Darwin-serien är ett sortiment av centrifugfilter för rengöring av luft som innehåller oljedimma, mikrodimma och rök som bildas vid användning av skärvätska (emulsion eller olja). Även lämplig för rening av luft från industritvättar och liknande.

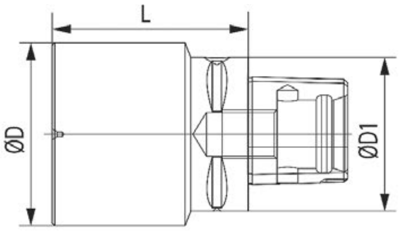
Finns i 4 storlekar med tre olika, utbytbara filtrerutförande. Kapacitet från 600 till 3 000 m³/h, med olika kombinationer för ökad reningsgrad upp till 99,97%.

- Mer information i kapitel 16!

DIN ISO 26623-1

18.470

Obearbetade ämnen



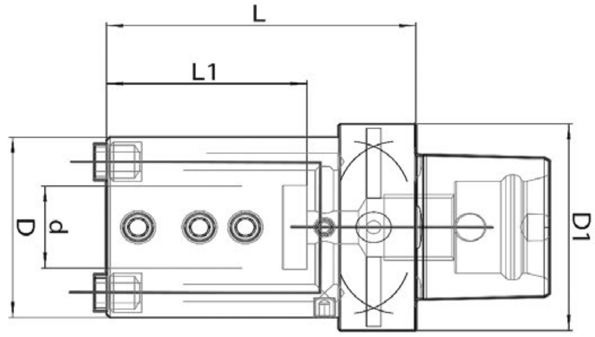
Artikel nr	Skaft	D1 mm	D mm	L mm
18.470.040.63/165	C40	40	63	165
18.470.050.50/150	C50	50	50	150
18.470.063.63/180	C63	63	63	180
18.470.080.80/200	C80	80	80	200

Andra diametrar och längder finns också.

DIN69871/

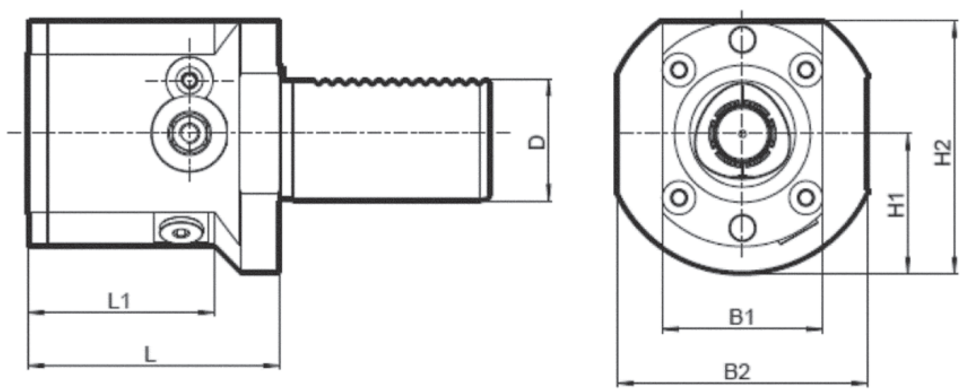
18.E2

Borrstångshållare

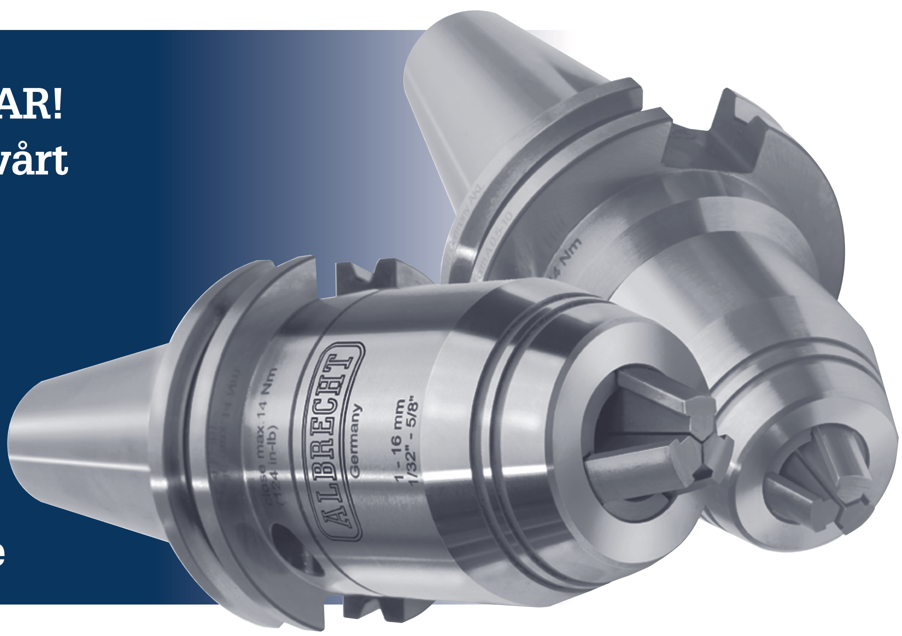


Artikel nr	Skaft	D mm	D1 mm	d mm	L mm	L1 mm
18.E2.040.12	C40	36	40	12	65	40
18.E2.040.16	C40	40	40	16	70	42
18.E2.040.20	C40	45	40	20	70	42
18.E2.050.12	C50	40	50	12	70	40
18.E2.050.16	C50	45	50	16	80	50
18.E2.050.20	C50	50	50	20	80	50
18.E2.050.25	C50	55	50	25	80	50
18.E2.063.16	C63	45	63	16	80	50
18.E2.063.20	C63	50	63	20	80	50
18.E2.063.25	C63	55	63	25	88	57
18.E2.063.32	C63	72	63	32	95	59
18.E2.063.40	C63	80	63	40	105	72
18.E2.080.16	C80	45	80	16	85	48
18.E2.080.20	C80	50	80	20	85	48
18.E2.080.25	C80	55	80	25	85	48
18.E2.080.32	C80	72	80	32	95	48
18.E2.080.40	C80	80	80	40	110	73

Reducering VDI



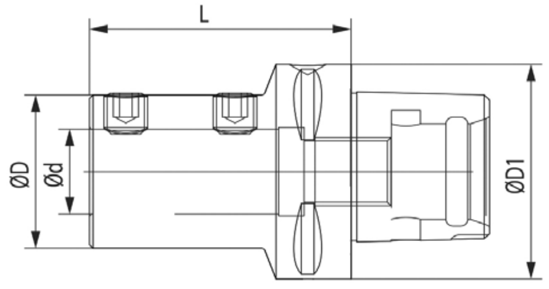
Artikel nr	Skaft	L mm	L1 mm	D mm	B1 mm	B2 mm	H1 mm	H2 mm
18.040.VDI40	C40	75	56	40	48	75	41	75
18..050.VDI40	C50	85	72	40	64	75	41	83
18.063.VDI40	C63	109	109	40	84	84	52	104
18.050.VDI50	C50	85	62	50	64	83	49	91
18.063.VDI50	C63	105	105	50	84	84	52	104
18.063.VDI60	C63	95	59	60	84	84	58	111



DIN ISO 26623-1

E1

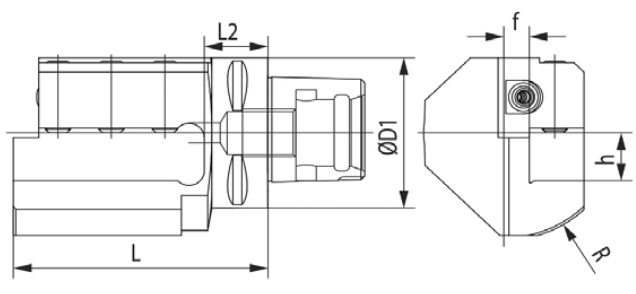
Hållare för korthålsborr



Artikel nr	Skaft	D1 mm	D mm	d mm	L mm
C50H52D08PNT	C50	44	50	8	52
C50H52D10PNT	C50	44	50	10	52
C50H52D12PNT	C50	44	50	12	52
C50H65D16PNT	C50	44	50	16	65
C50H60D20PNT	C50	44	50	20	60
C50H70D25PNT	C50	44	50	25	70
C63H60D08PNT	C63	44	63	8	60
C63H60D10PNT	C63	44	63	10	60
C63H60D12PNT	C63	44	63	12	60
C63H70D16PNT	C63	36	63	16	70
C63H70D20PNT	C63	40	63	20	70
C63H72D25PNT	C63	45	63	25	72
C63H75D32PNT	C63	52	63	32	75
C63H85D40PNT	C63	63	63	40	85
C80H80D16PNT	C80	36	80	16	80
C80H80D20PNT	C80	40	80	20	80
C80H85D25PNT	C80	45	80	25	85
C80H90D32PNT	C80	52	80	32	90

Axiell verktygshållare

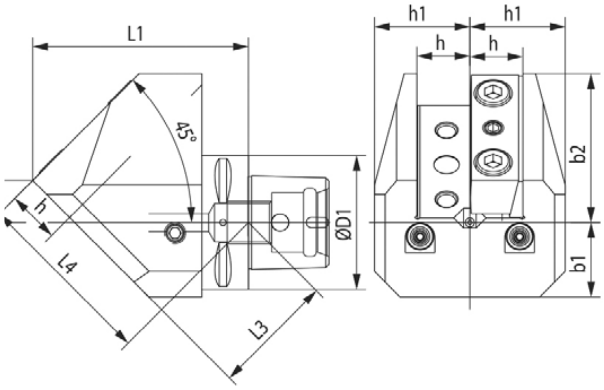
DIN ISO 26623-1

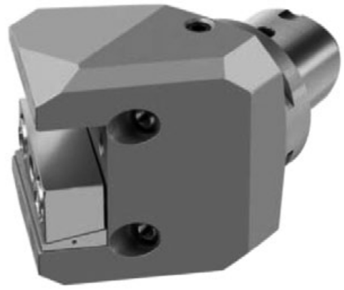


Artikel nr	Skaft	D1 mm	L mm	h mm
C50-AD2020R/L	C50	50	98	20
C63-AD2020R/L	C63	63	100	20
C63-AD2525R/L	C63	63	130	25
C63-AD3232R/L	C63	63	134	32

Verktygshållare vänster 45°

DIN ISO 26623-1

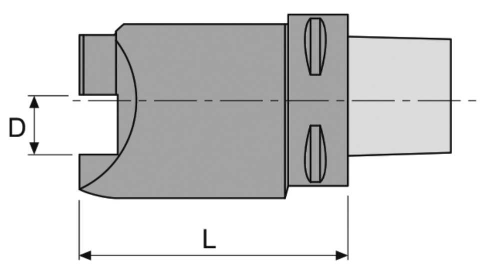




Artikel nr	Skaft	D1 mm	b1 mm	b2 mm	h mm	h1 mm	L1 mm	L2 mm	L3 mm	L4 mm
C63-ARD2525-45	C63	63	35	70	25	45	102	20	58	86

Verktygshållare höger 45°

DIN ISO 26623-1

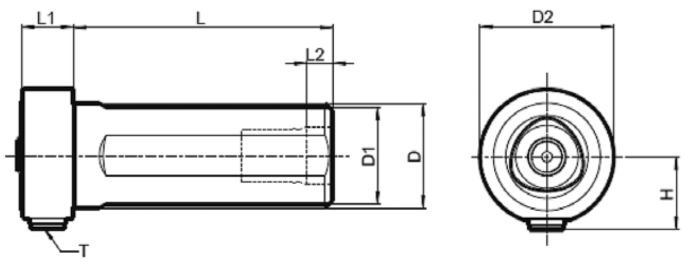


Artikel nr	Skaft	D mm	L mm
C63AR20R/L	C63	20	100
C63AR25R/L	C63	25	130

DIN ISO 26623-1

Reducering cylindriskt skaft

18.40

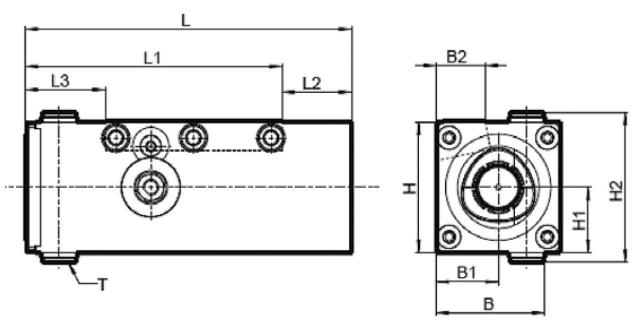


Artikel nr	Skaft	L mm	L1 mm	L2 mm	D mm	D1 mm	H mm	T mm
40.040.40	C40	100	20	10	40	37	28	1/8G
40.050.50	C50	120	24	20	50	47	33	1/8G

DIN ISO 26623-1

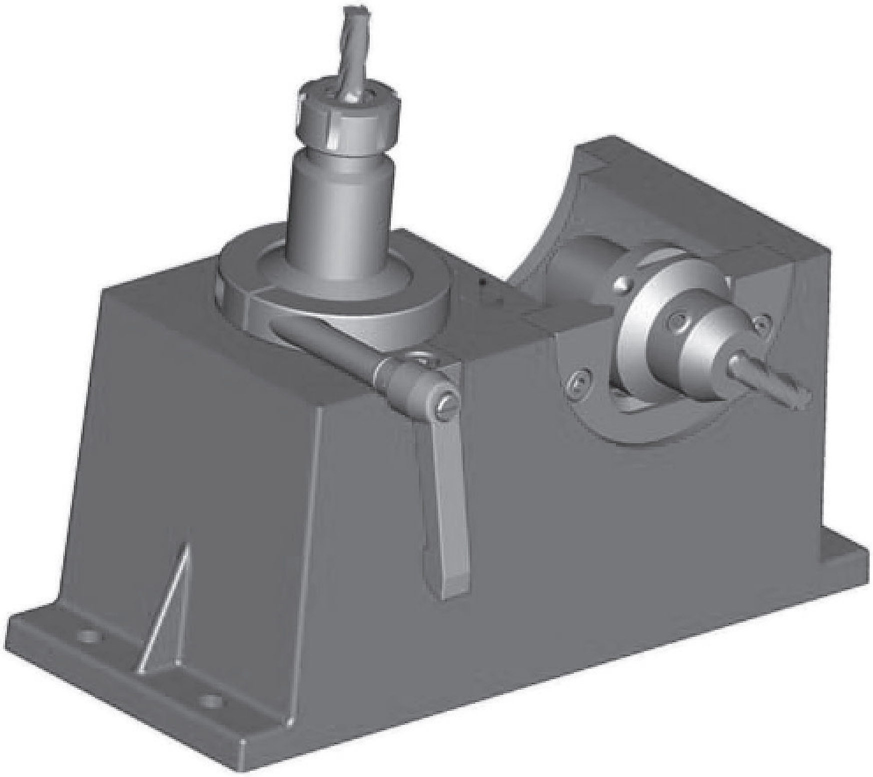
Reducering fyrkant skaft

18.040



Artikel nr	Skaft	L mm	L1 mm	L2 mm	L3 mm	B mm	B1 mm	B2 mm	H mm	H1 mm	H2 mm	T mm
18.040.40/4R/L	C40	125	100	25	31	42	24	19	50	25	57,5	G 1/8
18.050.63/4R/L	C50	145	118	27	36	64	32	32	64	32	68	G 1/8

Monteringsfixtur till DIN ISO 26623-1



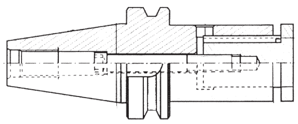
Artikel nr	Skaft
237-33110	C3
237-33210	C4
237-33310	C5
237-33410	C6
237-33510	C8
237-33610	C10

MAS 403-BT

20

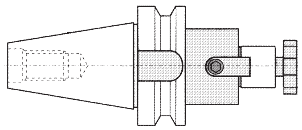
Fräsdorn för slitfräs
sid 4-76

20.125



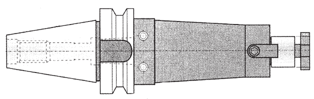
Ändfräsdorn
sid 4-77

20.160



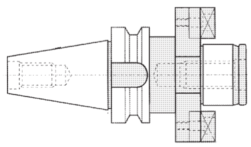
Vibrationsdämpande dorn
sid 4-78

A20.160



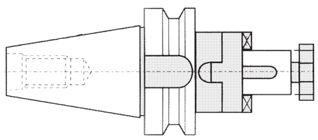
Dorn för planfräs
sid 4-81

20.165



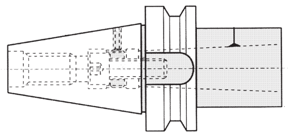
Kombinerad fräsdorn
sid 4-82

20.180



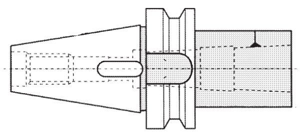
Insatshylsa gänga
sid 4-83

20.210



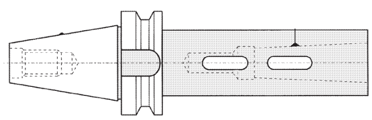
Insatshylsa tunga
sid 4-84

20.215



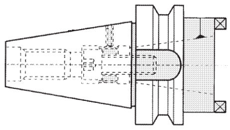
Förlängd insatshylsa
sid 4-85

20.216



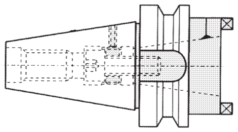
Reducerhylsa
sid 4-85

20.225



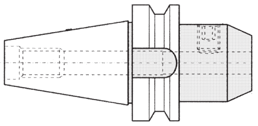
Reducerhylsa
sid 4-86

20.226



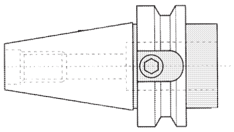
Weldonhållare
sid 4-87

20.300



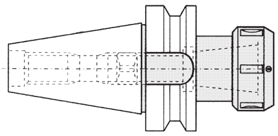
Weldonhållare, kort
sid 4-89

20.302



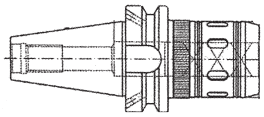
Spännhylschuck, hylsa DIN 6388
sid 4-92

20.351



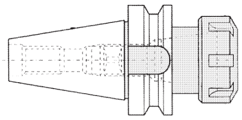
Kraftchuck
sid 4-93

20.370



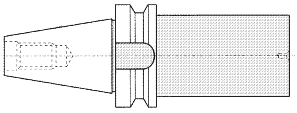
Spännhylschuck, hylsa DIN 6499
sid 4-94

20.453



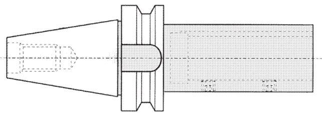
Obearbetat ämne
sid 4-97

20.470



Grundhållare
sid 4-98

20.500

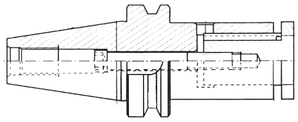


JIS B 6339-BT

23

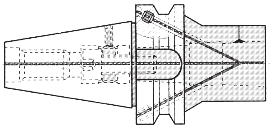
Ändfråsdorn sid 4-80

23.160



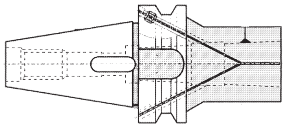
Insatshylsa gänga sid 4-83

23.210



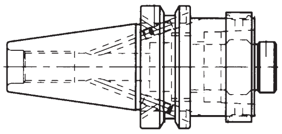
Insatshylsa tunga sid 4-84

23.215



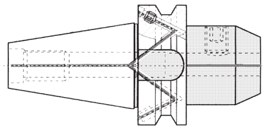
Insatshylsa sid 4-86

23.235



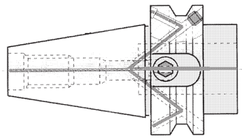
Weldonhållare sid 4-87

23.300



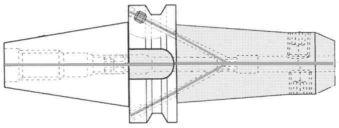
Weldonhållare, kort sid 4-89

23.302



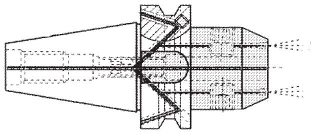
Weldon & Whistle-Notch hållare sid 4-90

23.306



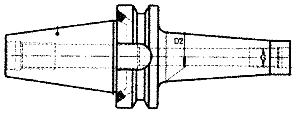
Weldon & Whistle-Notch hållare,
med invändig kylning sid 4-91

23.307



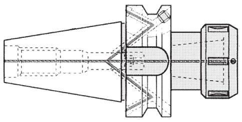
Screw-in hållare sid 4-92

23.315



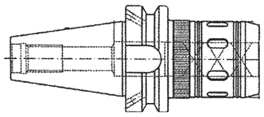
Spännhylschuck, hylsa DIN 6388 sid 4-92

23.351



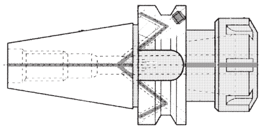
Kraftchuck sid 4-93

23.370



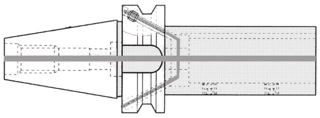
Spännhylschuck, hylsa DIN 6499 sid 4-95

23.453



Grundhållare sid 4-98

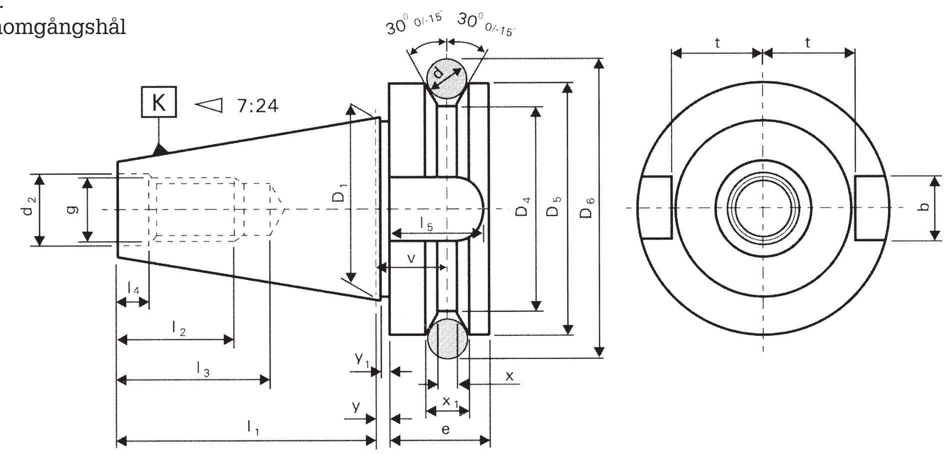
23.500



Verktygskona enligt 7/24-kona med automatisk verktygsväxling

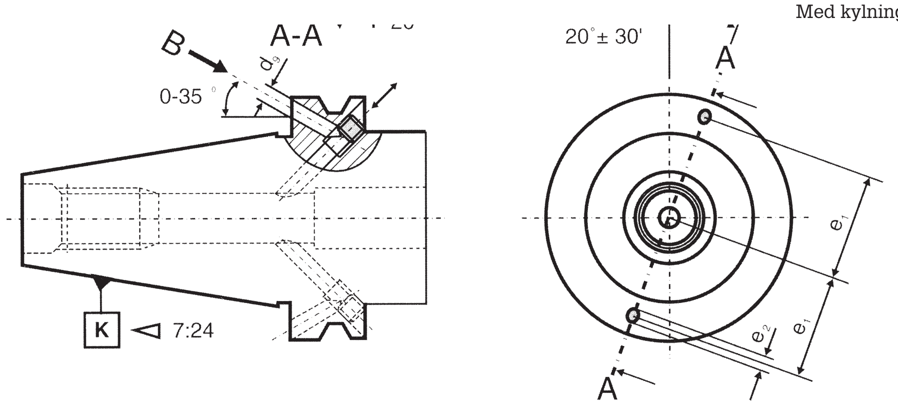
JIS B 6339

20 FORM A:
Utan genomgångshål



23 FORM B:

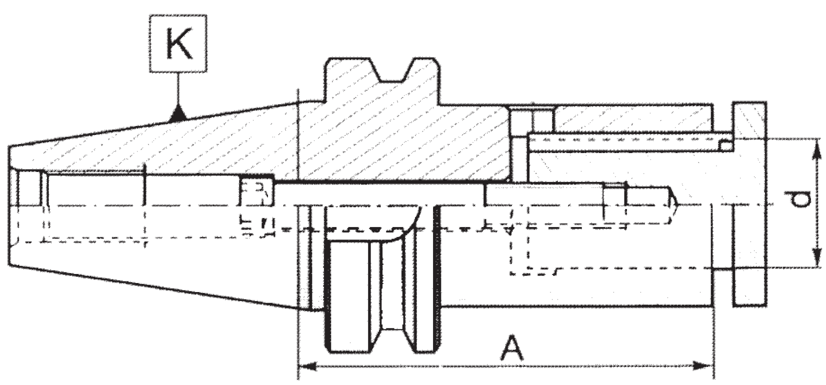
Med kylning genom fläns

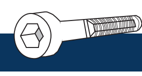
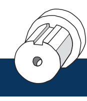
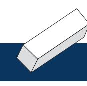


K ISO	D1 mm	l_1 ± 0,2mm	d_2 H8 mm	g 6H	l_2 mm	l_3 min	l_4 ± 0,5/0 mm	bH12 mm	l_5 min mm	$t_{0/-0,2}$ mm
30	31,75	48,4	12,5	M 12	24	34	7	16,1	17	16,3
35	38,10	56,4	12,5	M 12	24	34	7	16,1	20	19,6
40	44,45	65,4	17	M 16	30	43	9	16,1	21	22,6
45	57,15	82,8	21	M 20	38	53	11	19,3	26	29,1
50	69,85	101,8	25	M 24	45	62	13	25,7	31	35,1

K ISO	D_4 mm	D_5 H8 mm	e mm	v ± 0,1 mm	x mm	x_1 ± 0,1/0 mm	y ± 0,4 mm	d_9 mm	e1 ± 0,1 mm	$e_2$max mm
30	38	46	20	13,6	4	8	2	4	21	5
35	43	53	22	14,6	5	10	2	-	-	-
40	53	63	25	16,6	5	10	2	4	27	5
45	73	85	30	21,2	6	12	3	5	35	6
50	85	100	35	23,2	7	15	3	6	42	7

Fräsdorn för slitsfräsar



Artikel nr	K ISO	d mm	A mm	Vikt kg			
20.125.40.16	40	16	95	1,50	U-6520/0	U-6510/0	U-6526/0
20.125.40.16/125	40	16	125	2,00	U-6520/0	U-6511/0	U-6527/0
20.125.40.22	40	22	95	1,60	U-6523/0	U-6512/0	U-6528/0
20.125.40.22/125	40	22	125	2,10	U-6523/0	U-6513/0	U-6529/0
20.125.40.27	40	27	95	1,70	U-6523/0	U-6514/0	U-6530/0
20.125.40.27/125	40	27	125	2,25	U-6523/0	U-6515/0	U-6531/0
20.125.40.32	40	32	95	2,00	U-6523/0	U-6516/0	U-6532/0
20.125.40.32/125	40	32	125	2,45	U-6523/0	U-6517/0	U-6533/0
20.125.50.22	50	22	100	3,10	U-6524/0	U-6512/0	U-6528/0
20.125.50.22/125	50	22	125	3,45	U-6524/0	U-6513/0	U-6529/0
20.125.50.27	50	27	100	3,30	U-6524/0	U-6514/0	U-6530/0
20.125.50.27/125	50	27	125	3,80	U-6524/0	U-6515/0	U-6531/0
20.125.50.32	50	32	100	3,90	U-6524/0	U-6516/0	U-6532/0
20.125.50.32/125	50	32	125	4,40	U-6524/0	U-6517/0	U-6533/0
20.125.50.40	50	40	100	4,60	U-6524/0	U-6518/0	U-6534/0
20.125.50.40/125	50	40	125	5,30	U-6524/0	U-6519/0	U-6535/0

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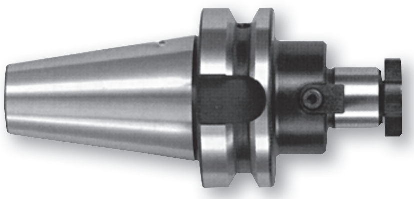
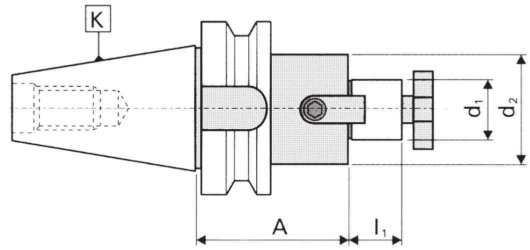
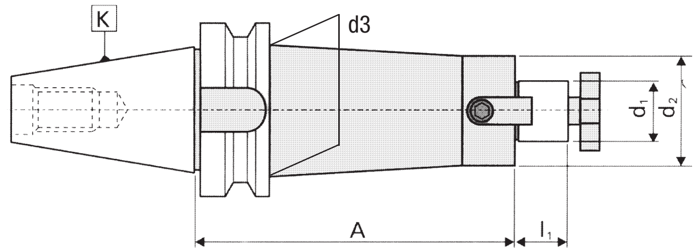
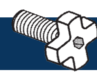
Ändfräsdorn

För fräs med drivspår enligt DIN 138







Artikel nr	K ISO	d_1 h6 mm	A mm	l_1 mm	d_2 mm	d3 mm		
20.160.30.16	30	16	35	17	38		89.100.16	89.171.16
20.160.30.22	30	22	40	19	48		89.100.22	89.171.22
20.160.30.27	30	27	40	21	58		89.100.27	89.171.27
20.160.30.32	30	32	40	21	78		89.100.32	89.171.32
20.160.40.16	40	16	45	17	38		89.100.16	89.171.16
20.160.40.16/100	40	16	100	17	39		89.100.16	89.171.16
20.160.40.22	40	22	45	19	48		89.100.22	89.171.22
20.160.40.22/100	40	22	100	19	46	48	89.100.22	89.171.22
20.160.40.22/160	40	22	160	19	46	48	89.100.22	89.171.22
20.160.40.22/200	40	22	200	19	46	48	89.100.22	89.171.22
20.160.40.27	40	27	45	21	58		89.100.27	89.171.27
20.160.40.27/100	40	27	100	21	55	55	89.100.27	89.171.27
20.160.40.32	40	32	50	24	78		89.100.32	89.171.32
20.160.40.32/100	40	32	100	24	66	66	89.100.32	89.171.32
20.160.40.40	40	40	55	27	88		89.100.40	89.171.40
20.160.50.16	50	16	60	17	38		89.100.16	89.171.16
20.160.50.16/150	50	16	150	17	38	38	89.100.16	89.171.16
20.160.50.22	50	22	60	19	48		89.100.22	89.171.22
20.160.50.22/100	50	22	100	19	46	49	89.100.22	89.171.22
20.160.50.22/150	50	22	150	19	48	48	89.100.22	89.171.22
20.160.50.22/200	50	22	200	19	50	60	89.100.22	89.171.22
20.160.50.27	50	27	58	21	60	58	89.100.27	89.171.27
20.160.50.27/150	50	27	150	21	58	58	89.100.27	89.171.27
20.160.50.27/200	50	27	200	21	55	78	89.100.27	89.171.27
20.160.50.32	50	32	60	24	78		89.100.32	89.171.32
20.160.50.32/150	50	32	150	24	78		89.100.32	89.171.32
20.160.50.32/200	50	32	200	24	66	78	89.100.32	89.171.32
20.160.50.40	50	40	60	27	88		89.100.40	89.171.40
20.160.50.40/150	50	40	150	27	88		89.100.40	89.171.40
20.160.50.50	50	50	65	30	90		89.100.50	89.171.50

Vibrationsdämpande dorn

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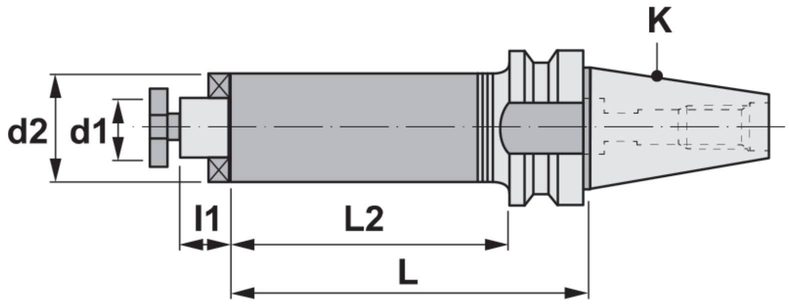

Artikel nr	K ISO	d1 h6 mm	L mm	L2 mm	l1 mm	d2 mm				Vikt kg
A20.160.40.16/150-38	40	16	150	123	17	38	10008	86016	11103	2,110
A20.160.40.16/200-38	40	16	200	173	17	38	10008	86016	11103	2,560
A20.160.40.16/250-38	40	16	250	223	17	38	10008	86016	11103	3,000
A20.160.40.16/300-38	40	16	300	273	17	38	10008	86016	11103	3,450
A20.160.40.22/150-48	40	22	150	123	19	48	10010	86022	11004	2,790
A20.160.40.22/200-48	40	22	200	173	19	48	10010	86022	11004	3,500
A20.160.40.22/250-48	40	22	250	223	19	48	10010	86022	11004	4,210
A20.160.40.22/300-48	40	22	300	273	19	48	10010	86022	11004	4,920
A20.160.40.27/150-58	40	27	150	123	21	58	10012	86027	11005	3,620
A20.160.40.27/200-58	40	27	200	173	21	58	10012	86027	11005	4,660
A20.160.40.27/250-58	40	27	250	23	21	58	10012	86027	11005	5,690
A20.160.40.27/300-58	40	27	300	273	21	58	10012	86027	11005	6,730
A20.160.50.16/150-38	50	16	150	112	17	38	10008	86016	11103	4,720
A20.160.50.16/200-38	50	16	200	162	17	38	10008	86016	11103	5,160
A20.160.50.16/250-38	50	16	250	212	17	38	10008	86016	11103	5,610
A20.160.50.16/300-38	50	16	300	262	17	38	10008	86016	11103	6,060
A20.160.50.16/400-38	50	16	400	362	17	38	10008	86016	11103	6,950
A20.160.50.22/200-48	50	22	200	162	19	48	10010	86022	11004	6,050
A20.160.50.22/250-48	50	22	250	212	19	48	10010	86022	11004	6,760
A20.160.50.22/300-48	50	22	300	262	19	48	10010	86022	11004	7,470
A20.160.50.22/400-48	50	22	400	362	19	48	10010	86022	11004	8,890
A20.160.50.22/500-48	50	22	500	462	19	48	10010	86022	11004	10,310
A20.160.50.22/200-58	50	22	200	162	19	58	10010	86022	11004	7,110
A20.160.50.22/250-58	50	22	250	212	19	58	10010	86022	11004	8,150
A20.160.50.22/300-58	50	22	300	262	19	58	10010	86022	11004	9,180
A20.160.50.22/400-58	50	22	400	362	19	58	10010	8622	11004	11,260
A20.160.50.22/500-58	50	22	500	462	19	58	10010	86022	11004	13,330
A20.160.50.27/200-58	50	27	200	162	21	58	10012	86027	11005	7,140
A20.160.50.27/250-58	50	27	250	212	21	58	10012	86027	11005	8,180
A20.160.50.27/300-58	50	27	300	262	21	58	10012	86027	11005	9,210
A20.160.50.27/400-58	50	27	400	362	21	58	10012	86027	11005	11,290
A20.160.50.27/500-58	50	27	500	462	21	58	10012	86027	11005	13,360
A20.160.50.32/200-78	50	32	200	162	24	78	10016	86032	11105	9,890
A20.160.50.32/250-78	50	32	250	212	24	78	10016	86032	11105	11,760
A20.160.50.32/300-78	50	32	300	262	24	78	10016	86032	11105	13,640
A20.160.50.32/400-78	50	32	400	362	24	78	10016	86032	11105	17,390
A20.160.50.32/500-78	50	32	500	462	24	78	10016	86032	11105	21,140

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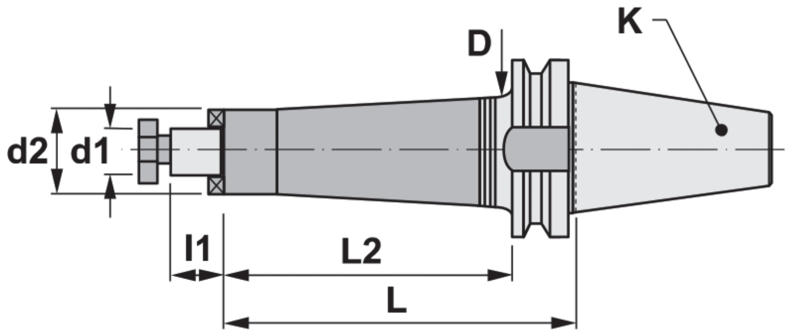
A20.160

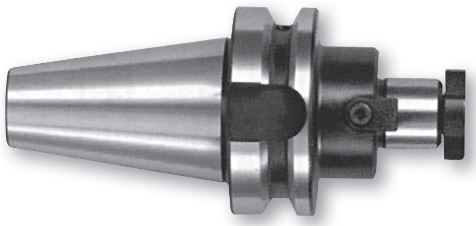
Vibrationsdämpande dorn

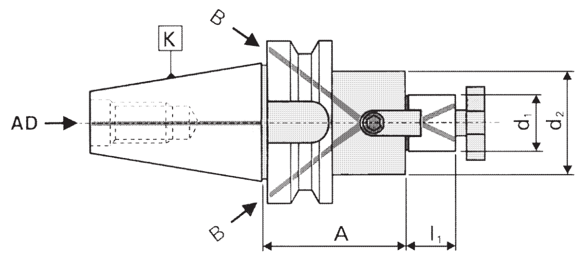


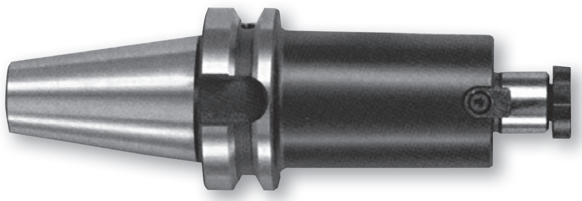
Artikel nr	K ISO	d1 h6 mm	L mm	L2 mm	D	l1 mm	d2 mm				Vikt kg
A20.160.40.16/150	40	16	150	123	50	17	38	10008	86016	11103	2,550
A20.160.40.16/200	40	16	200	173	50	17	38	10008	6016	11103	3,150
A20.160.40.16/250	40	16	250	223	50	17	38	10008	86016	11103	3,750
A20.160.40.16/300	40	16	300	273	50	17	38	10008	86016	11103	4,350
A20.160.40.22/150	40	22	150	123	50	19	44	10010	86022	11004	2,750
A20.160.40.22/200	40	22	200	173	50	19	44	10010	86022	1104	3,430
A20.160.40.22/250	40	22	250	223	50	19	44	10010	86022	11004	4,110
A20.160.40.22/300	40	22	300	273	50	19	44	10010	86022	11004	4,790
A20.160.50.16/150	50	16	150	112	80	17	38	10008	86016	11103	6,510
A20.160.50.16/200	50	16	200	162	80	17	38	10008	86016	11103	7,630
A20.160.50.16/250	50	16	250	212	80	17	38	10008	86016	11103	8,750
A20.160.50.16/300	50	16	300	262	80	17	38	10008	86016	11103	9,860
A20.160.50.16/400	50	16	400	362	80	17	38	10008	86016	11103	12,100
A20.160.50.22/200	50	22	200	162	80	19	48	10010	86022	11004	8,100
A20.160.50.22/250	50	22	250	212	80	19	48	10010	86022	11004	9,400
A20.160.50.22/300	50	22	300	262	80	19	48	10010	86022	11004	7,470
A20.160.50.22/400	50	22	400	362	80	19	48	10010	86022	11004	13,260
A20.160.50.22/500	50	22	500	462	80	19	48	10010	86022	11004	15,840
A20.160.50.27/200	50	27	200	162	80	21	60	10012	86027	11005	8,790
A20.160.50.27/250	50	27	250	212	80	21	60	10012	86027	11005	10,310
A20.160.50.27/300	50	27	300	262	80	21	60	10012	86027	11005	11,830
A20.160.50.27/400	50	27	400	362	80	21	60	10012	86027	11005	14,870
A20.160.50.27/500	50	27	500	462	80	21	60	10012	86027	11005	17,920

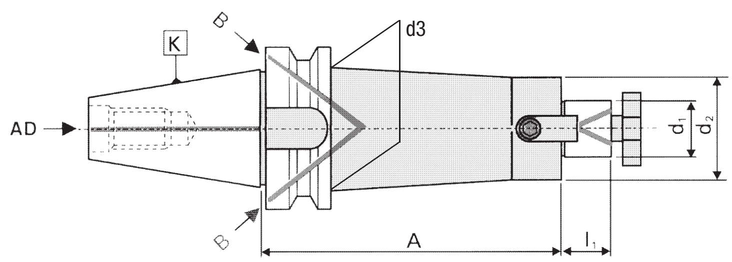
Ändfräsdorn med genomgående kylning

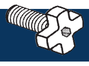
För fräs med drivspår enligt DIN 138









Artikel nr	K ISO	d1 h6 mm	A mm	l1 mm	d2 mm	d3 mm		
23.160.40.16	40	16	45	17	38		89.100.16	89.171.16
23.160.40.16/100	40	16	100	17	32	40	89.100.16	89.171.16
23.160.40.22	40	22	45	19	48		89.100.22	89.171.22
23.160.40.22/100	40	22	100	19	40	48	89.100.22	89.171.22
23.160.40.27	40	27	45	21	58		89.100.27	89.171.27
23.160.40.27/100	40	27	100	21	48	48	89.100.27	89.171.27
23.160.40.32	40	32	50	24	78		89.100.32	89.171.32
23.160.40.32/125	40	32	125	24	78	63	89.100.32	89.171.32
23.160.40.40	40	40	52	27	88		89.100.40	89.171.40
23.160.50.16	50	16	60	17	38		89.100.16	89.171.16
23.160.50.16/150	50	16	150	17	38	38	89.100.16	89.171.16
23.160.50.22	50	22	60	19	48		89.100.22	89.171.22
23.160.50.22/150	50	22	150	19	48	48	89.100.22	89.171.22
23.160.50.27	50	27	60	21	58		89.100.27	89.171.27
23.160.50.27/150	50	27	150	21	58	58	89.100.27	89.171.27
23.160.50.32	50	32	60	24	78		89.100.32	89.171.32
23.160.50.32/150	50	32	150	24	78	63	89.100.32	89.171.32
23.160.50.40	50	40	60	27	88		89.100.40	89.171.40
23.160.50.40/150	50	40	150	27	88	73	89.100.40	89.171.40
23.160.50.50	50	50	65	30	90		89.100.50	89.171.50

Dorn för planfräs

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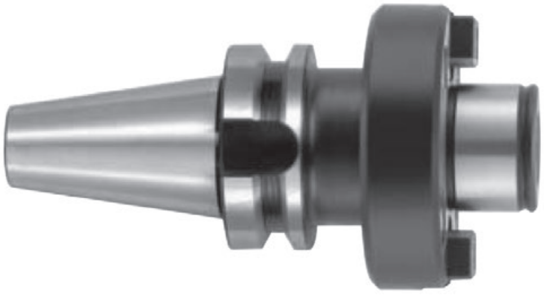
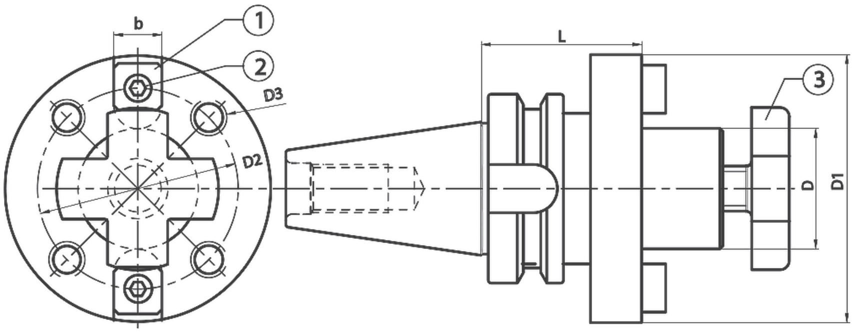
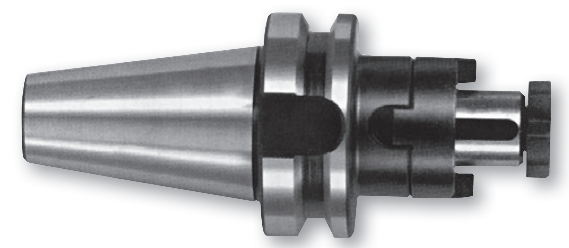


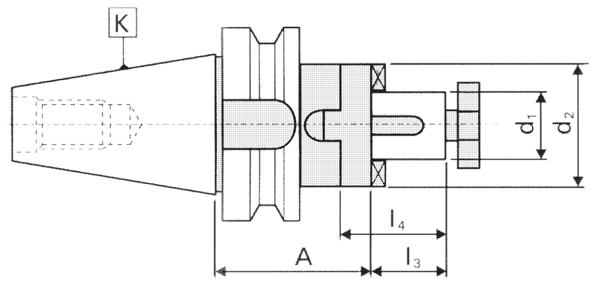


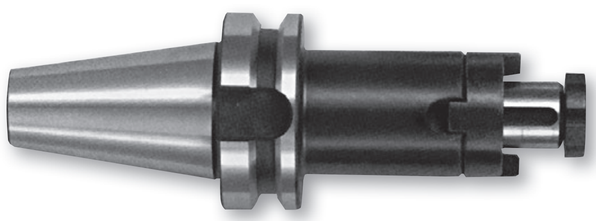
Artikel nr	ISO	D	L	D1	D2	D3	b	G6,3 8000
20.165.50.40	50	40	70	89	66,7	M12	15,9	•
20.165.50.60	50	60	80	129	101,6	M16	25,4	•

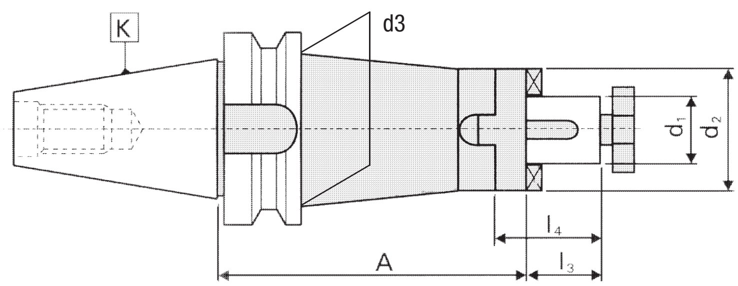
Kombinerad fräsdorn

För fräs med längsgående spår eller drivspår enligt DIN 138









Artikel nr	K ISO	d1 mm	A mm	l3 mm	l4 mm	d2 mm	d3 mm			
20.180.30.16	30	16	50	17	27	32		89.100.16	89.161.16	89.141.16
20.180.30.16/100	30	16	100	17	27	32	32	89.100.16	89.161.16	89.141.16
20.180.30.22	30	22	50	19	31	40		89.100.22	89.161.22	89.141.22
20.180.30.22/100	30	22	100	19	31	40		89.100.22	89.161.22	89.141.22
20.180.30.27	30	27	50	21	33	48		89.100.27	89.161.27	89.141.27
20.180.40.16	40	16	55	17	27	32		89.100.16	89.161.16	89.141.16
20.180.40.16/100	40	16	100	17	27	32	44	89.100.16	89.161.16	89.141.16
20.180.40.22	40	22	55	19	31	40		89.100.22	89.161.22	89.141.22
20.180.40.22/100	40	22	100	19	31	40	40	89.100.22	89.161.22	89.141.22
20.180.40.22/160	40	22	160	19	31	40		89.100.22	89.161.22	89.141.22
20.180.40.27	40	27	55	21	33	48		89.100.27	89.161.27	89.141.27
20.180.40.27/100	40	27	100	21	33	48	48	89.100.27	89.161.27	89.141.27
20.180.40.27/160	40	27	160	21	33	48		89.100.27	89.161.27	89.141.27
20.180.40.32	40	32	60	24	38	58		89.100.32	89.161.32	89.141.32
20.180.40.32/100	40	32	100	24	38	58	58	89.100.32	89.161.32	89.141.32
20.180.40.32/130	40	32	130	24	38	58		89.100.32	89.161.32	89.141.32
20.180.40.32/160	40	32	160	24	38	58		89.100.32	89.161.32	89.141.32
20.180.40.40	40	40	60	27	41	70		89.100.40	89.161.40	89.141.40
20.180.40.40/100	40	40	100	27	41	70	70	89.100.40	89.161.40	89.141.40
20.180.40.40/160	40	40	160	27	41	70		89.100.40	89.161.40	89.141.40
20.180.50.16	50	16	70	17	27	32		89.100.16	89.161.16	89.141.16
20.180.50.16/125	50	16	125	17	27	32	35	89.100.16	89.161.16	89.141.16
20.180.50.16/160	50	16	160	17	27	32		89.100.16	89.161.16	89.141.16
20.180.50.22	50	22	70	19	31	40		89.100.22	89.161.22	89.141.22
20.180.50.22/100	50	22	100	19	31	40	50	89.100.22	89.161.22	89.141.22
20.180.50.22/125	50	22	125	19	31	40	48	89.100.22	89.161.22	89.141.22
20.180.50.27	50	27	70	21	33	48		89.100.27	89.161.27	89.141.27
20.180.50.27/100	50	27	100	21	33	48	60	89.100.27	89.161.27	89.141.27
20.180.50.27/125	50	27	125	21	33	48	60	89.100.27	89.161.27	89.141.27
20.180.50.27/160	50	27	160	21	33	48		89.100.27	89.161.27	89.141.27
20.180.50.32	50	32	70	24	38	58		89.100.32	89.161.32	89.141.32
20.180.50.32/100	50	32	100	24	38	58	58	89.100.32	89.161.32	89.141.32
20.180.50.32/125	50	32	125	24	38	58	78	89.100.32	89.161.32	89.141.32
20.180.50.40	50	40	70	27	41	70		89.100.40	89.161.40	89.141.40
20.180.50.40/125	50	40	125	27	41	70	78	89.100.40	89.161.40	89.141.40
20.180.50.40/160	50	40	160	27	41	70		89.100.40	89.161.40	89.141.40
20.180.50.50	50	50	70	30	46	90		89.100.50	89.161.50	89.141.50

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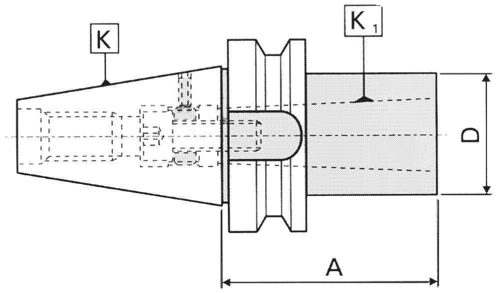
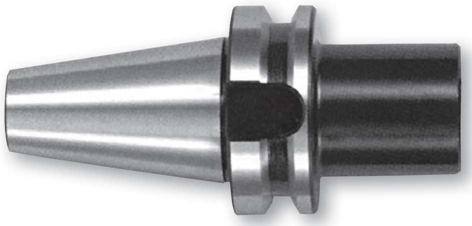
Insatshylsa

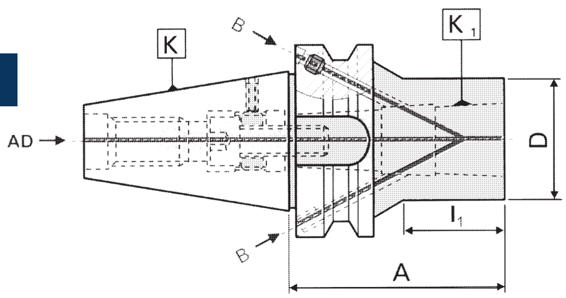
Avsedd för verktyg med MK-kona och dragstångsgänga
enligt DIN-228-A

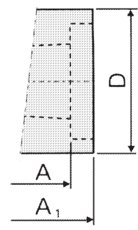
20.210





23.210





DIN 2201

Artikel nr	K ISO	K1 mm	A mm	A1 mm	l1 mm	D mm		
20.210.30.01	30	1	50			25	89.193.31	89.120.24
20.210.30.02	30	2	65			32	89.193.32	89.124.19
20.210.30.03	30	3	80			40	89.193.33	89.124.31
20.210.40.01	40	1	50			25	89.193.41	89.120.26
20.210.40.02	40	2	50			32	89.193.42	89.124.18
20.210.40.03	40	3	70			40	89.193.43	89.120.69
20.210.40.04	40	4	95			48	89.193.44	89.124.44
20.210.40.04/1	40	4*	95	110		63	89.193.44	89.124.44
20.210.50.01	50	1	45			35	89.193.51	89.120.26
20.210.50.02	50	2	60			32	89.193.52	89.120.53
20.210.50.03	50	3	65			40	89.193.53	89.120.70
20.210.50.04	50	4	70			48	89.193.54	89.124.44
20.210.50.04/1	50	4*	70	85		63	89.193.54	89.124.44
20.210.50.05	50	5	100			63	89.193.55	89.120.90
23.210.40.01	40	1	50		16	25	89.193.41	89.128.08
23.210.40.02	40	2	50			32	89.193.42	89.128.20
23.210.40.03	40	3	70			40	89.193.43	89.128.30
23.210.40.04	40	4	95			48	89.193.44	89.128.40
23.210.40.04/1	40	4*	95	110		63	89.193.44	89.128.40
23.210.50.01	50	1	45			25	89.193.51	89.128.08
23.210.50.02	50	2	60			32	89.193.52	89.128.23
23.210.50.03	50	3	65			40	89.193.53	89.128.32
23.210.50.04	50	4	70			48	89.193.54	89.128.44
23.210.50.04/1	50	4*	70	85		63	89.193.54	89.128.44
23.210.50.05	50	5	100			63	89.193.55	89.128.60
23.210.50.05/1	50	5*	100	115		78	89.193.55	89.128.60

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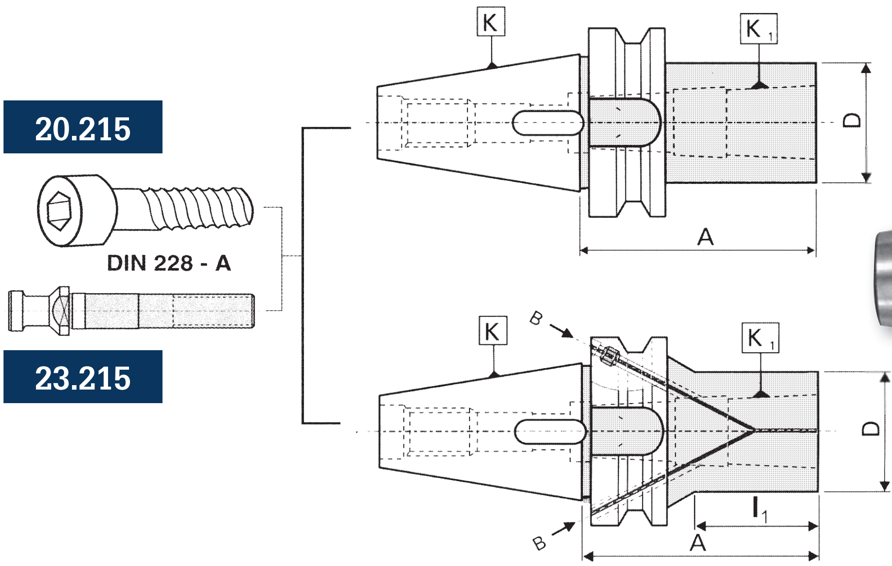
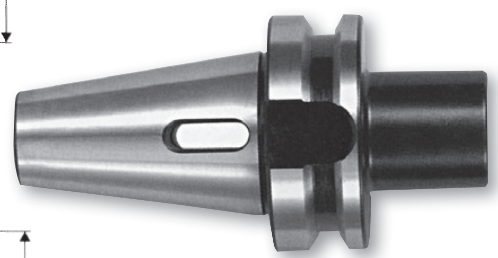
Insatshylsa

Avsedd för verktyg med MK-kona och tunga enligt DIN-228-B





Artikel nr	K ISO	K1 MORSE	A mm	l1 mm	D mm	D1 mm		
20.215.30.01	30	1	50		25		89.120.27	
20.215.30.02	30	2	60		32			85.761.XX.30/02
20.215.30.03	30	3	80		40			85.761.XX.30/03
20.215.35.01	35	1						
20.215.35.02	35	2						
20.215.35.03	35	3						
20.215.35.04	35	4						
20.215.40.01	40	1	50		25		89.120.28	
20.215.40.02	40	2	50		32		89.124.21	
20.215.40.03	40	3	70		40			85.761.XX.40/03
20.215.40.04	40	4	95		48			85.761.XX.40/04
20.215.50.01	50	1	45		25		89.120.29	
20.215.50.02	50	2	60		32		89.120.56	
20.215.50.03	50	3	65		40		89.120.74	
20.215.50.04	50	4	95		48		89.124.40	
20.215.50.05	50	5	105		63			85.761.XX.50/05
23.215.40.01	40	1	50	16	25	34	89.120.28	
23.215.40.02	40	2	50	18	32	40	89.124.20	
23.215.40.03	40	3	70		40			85.761.XX.40/03
23.215.40.04	40	4	95		48			85.761.XX.40/04
23.215.50.01	50	1	45		25		89.120.31	
23.215.50.02	50	2	60		32		89.120.58	
23.215.50.03	50	3	65		40		89.120.74	
23.215.50.04	50	4	95	45	48	64	89.124.40	
23.215.50.05	50	5	105		63			85.761.XX.50/05

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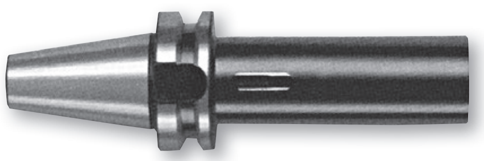
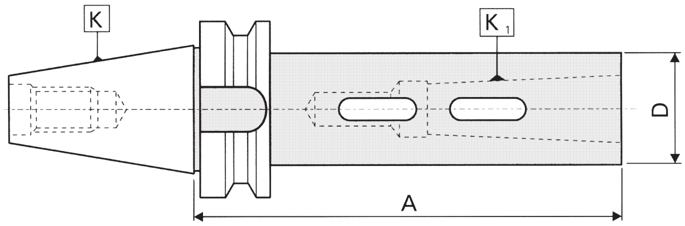
Förlängd insatshylsa

Avsedd för verktyg med MK-kona och tunga





Artikel nr	K ISO	K1 MORSE	A mm	D mm
20.216.30.01	30	1	115	25
20.216.30.02	30	2	125	32
20.216.30.03	30	3	145	40
20.216.40.01	40	1	115	25
20.216.40.02	40	2	125	32
20.216.40.03	40	3	145	40
20.216.40.04	40	4	165	48
20.216.50.01	50	1	120	25
20.216.50.02	50	2	135	32
20.216.50.03	50	3	155	40
20.216.50.04	50	4	180	48
20.216.50.05	50	5	215	63

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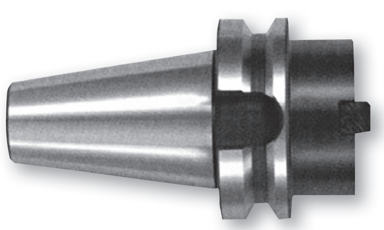
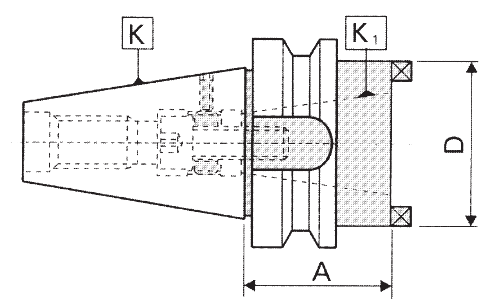
Reduceringshylsa

Avsedd för verktyg enligt ISO-kona





Artikel nr	K ISO	K1 DIN 2080	A mm	D mm		
20.225.40.30	40	30	50	50	89.193.45	89.124.28
20.225.40.40	40	40	100	63	89.193.44	89.124.44
20.225.50.30	50	30	50	50	89.193.53	89.120.69
20.225.50.40	50	40	70	63	89.193.54	89.124.44
20.225.50.50	50	50	120	97	89.193.56	89.124.56