

ACS-E 3

Self centering column chuck

Self-centering column chucks with pull down

Ø 110 - 350 mm

- Pull down
- Power operated via standard cylinders
- O.D. clamping



Application/customer benefits

- For small, medium and large quantities at high precision
- Pull down of the workpiece to the axial workstop during clamping
- Minimum loss of gripping force at high speed
- Standard, hardened jaw blanks available

Technical features

- Chuck body completely case hardened
- Openings in the chuck body to evacuate chips
- Central bore for coolant / air

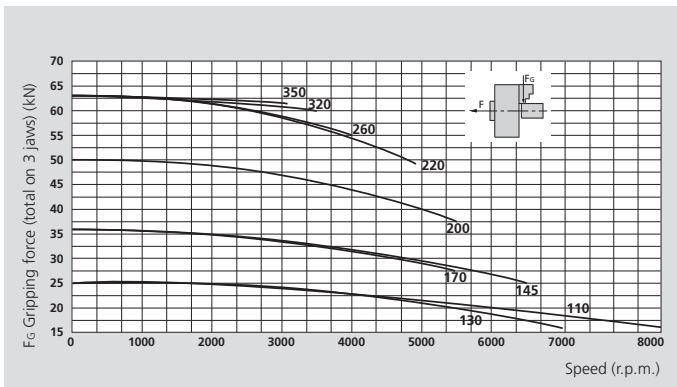
Standard equipment

3 jaw chuck
Mounting bolts

Ordering example

3 jaw column chuck
with center mounting Z170
type ACS-E 220-3-Z170

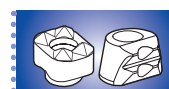
Actual gripping force diagram



The diagrams refer to standard jaw blanks, machined to 50% of their mass.

Technical data

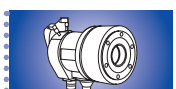
SMW-AUTOBLOK Type		ACS-E 3 110	ACS-E 3 130	ACS-E 3 145	ACS-E 3 170	ACS-E 3 200	ACS-E 3 220	ACS-E 3 260	ACS-E 3 320	ACS-E 3 350
Jaw stroke	mm	2.6	2.6	2.6	2.6	2.6	3.2	4	6	6
Piston stroke	mm	10	10	10	10	10	12	15	15	15
Actuating force max.	kN	10	10	15	15	20	25	25	35	35
Grip force max.	kN	25	25	36	36	50	63	63	63	63
Speed max.	r.p.m.	8000	7000	6500	6300	5500	4900	4300	3400	3100
Weight	kg	5	12	14	17	30	35	50	75	90
Moment of inertia	kg·m ²	0.07	0.02	0.03	0.06	0.16	0.21	0.35	0.84	1
Clamping range	min.	4	10	20	30	30	50	90	90	120
Clamping range	max.	45	50	70	95	100	125	165	215	245
Rec. actuating cylinders	Type	SIN-S 70	SIN-S 70	SIN-S 70	SIN-S 85	SIN-S 100	SIN-S 125	SIN-S 125	SIN-S 125	SIN-S 125
Rec. actuating cylinders	Type	SIN-S 85	SIN-S 85	SIN-S 85	SIN-S 100	SIN-S 125	SIN-S 150	SIN-S 150	SIN-S 150	SIN-S 150
Chuck	Id. No.	77690111	77690113	77690114	77690117	77690120	77690122	77690125	77690132	77690135
Jaw blanks	Id. No.	69731110	69761310	69761410	69761710	69762010	69762210	69762210	69763210	69763210



SMW-AUTOBLOK
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SMW-AUTOBLOK
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Self-centering column chucks with pull down

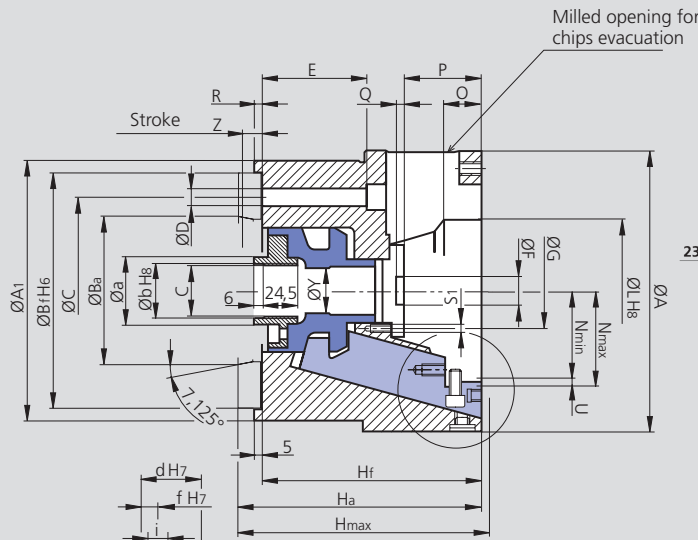
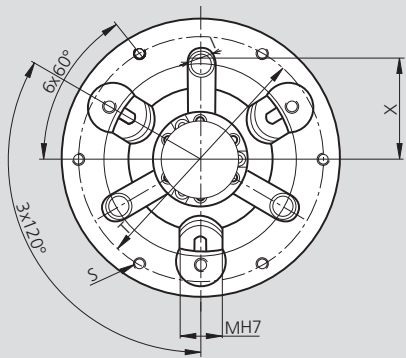
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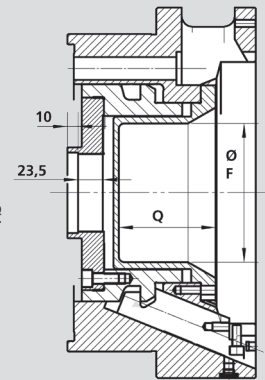
Self centering column chuck

ACS-E 110-130-145-170

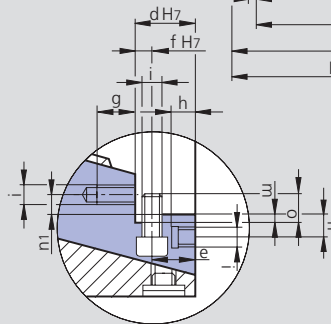
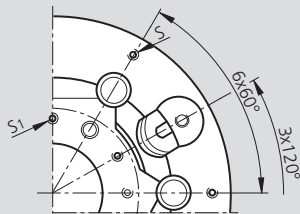


Milled opening for chips evacuation

ACS-E 320 - 350



ACS-E 200-220 ACS-E 260-320-350



2 media can be used through the chuck's bore.

Subject to technical changes.

For more detailed information please ask our customer service.

Specials on request.

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Mounting		ISO-* Z90	ISO-A4 Z115	ISO-A4 Z115	ISO-A5 Z140	ISO-A6 Z170	ISO-A6 Z170	ISO-A8 Z220	ISO-A11 Z280	ISO-A11 Z280
A/A1	mm	112 / 100	130 / 130	145 / 130	170 / 155	200 / 185	220 / 185	260 / 235	324 / 300	354 / 300
Ba	mm	-	63.513	63.513	82.563	106.375	106.375	139.719	196.869	196.869
Bf	mm	90	115	115	140	170	170	220	280	280
C	mm	70	82.6	82.6	104.8	133.4	133.4	171.4	235	235
D	mm	3x8.5	3x11	3x11	3x11	6x13	6x13	6x17	6x21	6x21
E	mm	48	64	64	65	75	75	91	97	97
F	mm	-	-	16	20	20	30	70	105	131
G	mm	38	-	40	65	54	68	107	154	184
Hmax.	mm	-	130	130	140	179	183	198.5	200.5	200.5
Ha	mm	-	125	125	135	174	177	191	193	193
Hf	mm	95	112	112	120	157	160	172	172	172
I	mm	-	20	20	20	-	-	-	-	-
L	mm	52	55	75	98	102	126	167	217	247
M	mm	18	20	20	20	30	30	30	30	30
Nmin./max.	mm	30.2 / 32.8	33.7 / 36.3	43.7 / 46.3	56.2 / 58.8	63.7 / 66.3	73.4 / 76.6	93 / 97	117 / 123	132 / 138
O	mm	22.5	26.5	26.5	26.5	32	33	34	33	33
P	mm	25	30	29	29	55	50.5	40	38	38
Q	mm	-	-	5	5	7	7	65.5	91.5	91.5
R	mm	15	18	18	4.5	4.5	3.5	2	6	6
S	mm	6 x M5	6 x M6	6 x M6	6 x M6	6 x M8	6 x M8	6 x M8	12 x M8	12 x M8
S1	mm	-	-	3 x M5	6 x M5	6 x M6	6 x M6	6 x M6	6 x M8	6 x M8
T	mm	90	115	115	145	175	190	226	290	320
Stroke	U	mm	2.6	2.6	2.6	2.6	3.2	4	6	6
Stroke	Z	mm	10	10	10	10	12	15	15	15
X	mm	-	41.3	41.3	52.4	-	-	-	-	-
W	mm	4	5	5	5	5	5	5	6	6
a	mm	28	36	36	48	48	48	48	86	86
b	mm	22	29	29	39	39	39	39	76	76
c	mm	M20 x 1.5	M28 x 1.5	M28 x 1.5	M38 x 1.5	M38 x 1.5	M38 x 1.5	M38 x 1.5	M75 x 2	M75 x 2
d	mm	18	20	20	20	25	25	25	25	25
e	mm	13	14	14	14	18	18	18	18	18
f	mm	5	6	6	6	7	7	7	7	7
g	mm	12	12	12	12	16	16	16	16	16
h	mm	8	-	-	-	9	9	9	9	9
i	mm	M6	M6	M6	M6	M8	M8	M8	M8	M8
m	mm	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
n	mm	9	7.5	7.5	7.5	10	10	10	10	10
n1	mm	5	6.5	6.5	6.5	8.5	8.5	8.5	8.5	8.5
o	mm	8.5	8.5	8.5	8.5	9	9	9	9	9
y	mm	10.5	12.5	14	32	32	32	32	115	115

* Flange ISO-A on request.