

EM-B

Expanding mandrel
Manual or power operated

Expanding mandrel Ø 16 - 129.5 mm

- Size 0 - 4
- Large expansibility

Application/customer benefits

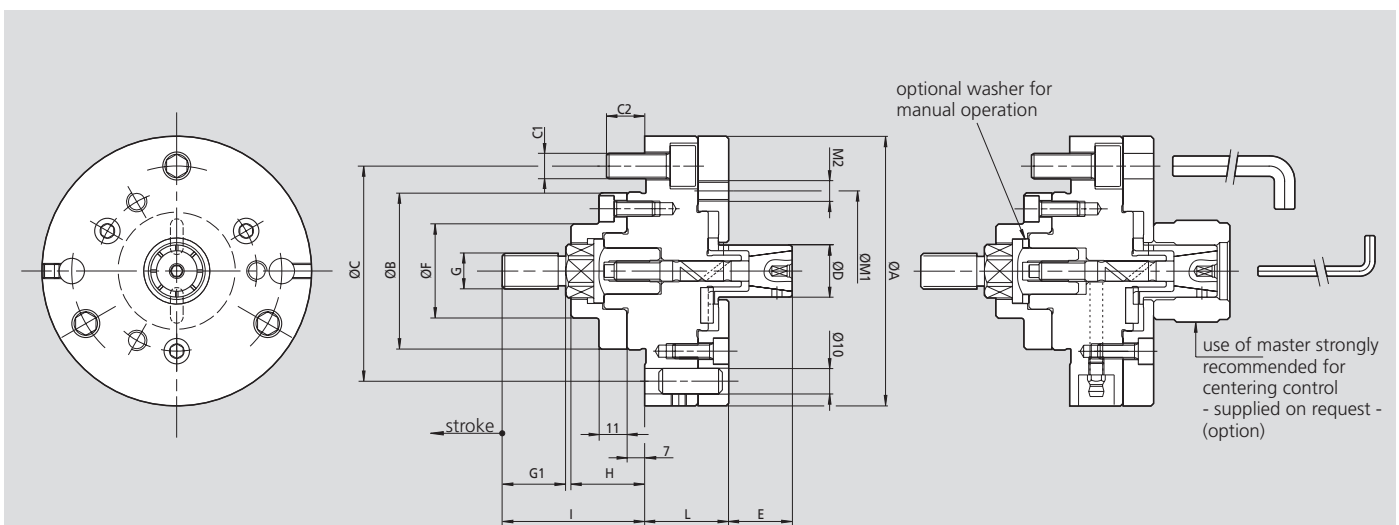
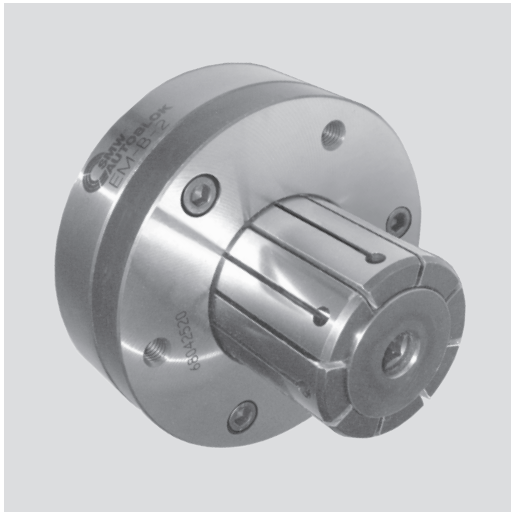
- For turning, milling, grinding and gear cutting operations
- High flexibility by means of modular system
- High torque transmission and concentricity
- No axial movement of clamping sleeve during operation
- Clamping of very short workpieces on the front section of the sleeve possible

Technical features

- Large expansibility up to 1.5 mm in diameter
- Hand or power operated
- Flange mounting
- Very rigid design
- Tapped holes at the front face to mount axial stops
- Clamping sleeves are also available in siliconized version

Standard equipment

Basic mandrel with draw bolt for power operation
Mounting bolts



Subject to technical changes.
For more detailed information please ask our customer service.

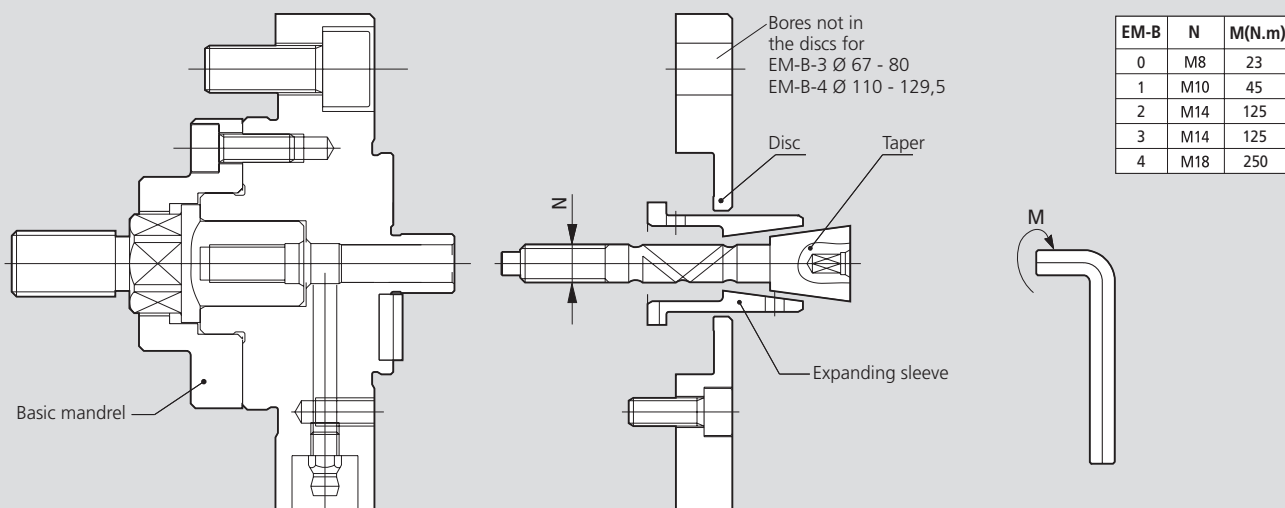
SMW-AUTOBLOK Type		EM-B 0	EM-B 1	EM-B 2	EM-B 3	EM-B 4
A	mm	106	106	106	125	180
B g5	mm	62	62	62	62	86
C	mm	82.6	82.6	82.6	82.6	133.4
C1	mm	3 x M10	3 x M10	3 x M10	3 x M10	3 x M12
C2	mm	16	16	16	16	15
D	mm	16 - 25.5	20 - 40.5	35 - 60.5	55 - 81	80 - 131
E	mm	23	28	43	58	85
F	mm	37	37	37	37	55
G	mm	M16	M16	M16	M16	M16
G1	mm	25	25	25	25	25
H	mm	29	29	29	29	36
I	mm	56	56	56	56	62
L	mm	35	37	37	37	50
M1	mm	63	68	85	104	162
M2	mm	3 x M8	3 x M8	3 x M8	6 x M8	6 x M8
N	mm	M8	M10	M14	M14	M18

Technical data

SMW-AUTOBLOK Type		EM-B 0	EM-B 1	EM-B 2	EM-B 3	EM-B 4
Axial stroke	mm	2.5	2.5	2.5	5	6.5
Sleeve expansion on Ø	mm	0.5	0.5	0.5	1	1.5
Max. axial force	kN	7	12	20	20	25
Recommended actuating cylinders	CSN	150	200	200	200	250
	SIN-S	70	70	85	85	100

All measurements in unclamped position = Right end position.

■ Ordering review



Subject to technical changes.

For more detailed information please ask our customer service.

EM-B-0				EM-B-1				EM-B-2				EM-B-3				EM-B-4			
Basic mandrel 68100021				Basic mandrel 68101021				Basic mandrel 68102021				Basic mandrel 68103021				Basic mandrel 68104021			
Expanding sleeve Ø D16 - Ø D25				Expanding sleeve Ø D20 - Ø D40				Expanding sleeve Ø D35 - Ø D60				Expanding sleeve Ø D55 - Ø D80				Expanding sleeve Ø D80 - Ø D129.5			
Taper 68020120				Taper 68021120				Taper 68022120				Taper 68023120				Taper 68024120			
Disc 68040121 68040221 68040321				Disc 68041121 68041221 68041321				Disc 68042121 68042221				Disc 68043121 68043221				Disc 68044121 68044221			
D16 68200160				D20 68210200				D35 68220350				D55 68230550				D80 68240800			
D16.5 68200165				D20.5 68210205				D35.5 68220355				D56 68230560				D81.5 68240815			
D17 68200170				D21 68210210				D36 68220360				D57 68230570				D83 68240830			
D17.5 68200175	68200175			D21.5 68210215	68210215			D36.5 68220365				D58 68230580	68230580			D84.5 68240845			
D18 68200180	68200180			D22 68210220	68210220			D37 68220370				D59 68230590	68230590			D86 68240860	68240860		
D18.5 68200185	68200185			D22.5 68210225	68210225			D37.5 68220375	68220375			D60 68230600	68230600			D87.5 68240875	68240875		
D19 68200190	68200190			D23 68210230	68210230			D38 68220380	68220380			Taper 68023220				D89 68240890	68240890		
D19.5 68200195	68200195			D23.5 68210235	68210235			D38.5 68220385	68220385			Disc 68043321 68043421 68043521				D90.5 68240905	68240905		
D20 68200200	68200200			D24 68210240	68210240			D39 68220390	68220390			D61 68230610				Taper 68024220			
Taper 68020220				D24.5 68210245	68210245			D39.5 68220395	68220395			D62 68230620				Disc 68044321 68044421			
Disc 68040421 68040521 68040621				D25 68210250	68210250			D40 68220400	68220400			D63 68230630				D92 68240920			
D20.5 68200205				Taper 68021220				Taper 68022220				D64 68230640	68230640			D93.5 68240935			
D21 68200210				Disc 68041421 68041521 68041621				Disc 68042321 68042421 68042521				D65 68230650	68230650			D95 68240950			
D21.5 68200215				D25.5 68210255				D40.5 68220405				D66 68230660	68230660			D96.5 68240965			
D22 68200220	68200220			D26 68210260				D41 68220410				D67 68230670	68230670			D98 68240980	68240980		
D22.5 68200225	68200225			D26.5 68210265				D41.5 68220415				D68 68230680	68230680			D99.5 68240995	68240995		
D23 68200230	68200230			D27 68210270				D42 68220420				D69 68230690	68230690			D101 68241010	68241010		
D23.5 68200235	68200235			D27.5 68210275				D42.5 68220425				D70 68230700	68230700			D102.5 68241025	68241025		
D24 68200240	68200240			D28 68210280				D43 68220430				Taper 68023320				Taper 68024320			
D24.5 68200245	68200245			D28.5 68210285	68210285			D43.5 68220435	68220435			Disc 68043621 68043721 68043821				Disc 68044521 68044621			
D25 68200250	68200250			D29 68210290	68210290			D44 68220440	68220440			D71 68230710	68230710			D104 68241040			
				D29.5 68210295	68210295			D44.5 68220445	68220445			D72 68230720				D105.5 68241055			
				D30 68210300	68210300			D45 68220450	68220450			D73 68230730				D107 68241070			
				D30.5 68210305	68210305			D45.5 68220455	68220455			D74 68230740	68230740			D108.5 68241085			
				D31 68210310	68210310			D46 68220460	68220460			D75 68230750	68230750			D110 68241100	68241100		
				D31.5 68210315	68210315			D46.5 68220465	68220465			D76 68230760	68230760			D111.5 68241115	68241115		
				D32 68210320	68210320			D47 68220470	68220470			D77 68230770	68230770			D113 68241130	68241130		
				D32.5 68210325	68210325			D47.5 68220475	68220475			D78 68230780	68230780			D114.5 68241145	68241145		
				D33 68210330	68210330			D48 68220480	68220480			D79 68230790	68230790			Taper 68024420			
				D33.5 68210335	68210335			D48.5 68220485	68220485			D80 68230800	68230800			Disc 68044721 68044821			
				D34 68210340	68210340			D49 68220490	68220490							D116 68241160			
				D34.5 68210345	68210345			D49.5 68220495	68220495							D117.5 68241175			
				D35 68210350	68210350			D50 68220500	68220500							D119 68241190			
				Taper 68021320				Taper 68022320								D120.5 68241205			
				Disc 68041721 68041821				Disc 68042621 68042721 68042821								D122 68241220	68241220		
				D35.5 68210355				D50.5 68220505								D123.5 68241235	68241235		
				D36 68210360				D51 68220510								D125 68241250	68241250		
				D36.5 68210365				D51.5 68220515								D126.5 68241265	68241265		
				D37 68210370				D52 68220520								D128 68241280	68241280		
				D37.5 68210375				D52.5 68220525								D129.5 68241295	68241295		
				D38 68210380				D53 68220530											
				D38.5 68210385	68210385			D53.5 68220535	68220535										
				D39 68210390	68210390			D54 68220540	68220540										
				D39.5 68210395	68210395			D54.5 68220545	68220545										
				D40 68210400	68210400			D55 68220550	68220550										
								D55.5 68220555	68220555										
								D56 68220560	68220560										
								D56.5 68220565	68220565										
								D57 68220570	68220570										
								D57.5 68220575	68220575										
								D58 68220580	68220580										
								D58.5 68220585	68220585										
								D59 68220590	68220590										
								D59.5 68220595	68220595										
								D60 68220600	68220600										

Ordering example:

Component ID = Ø 30
 Basic mandrel EM-B-1 Id. No. 68101021
 Expanding sleeve AD = Ø 30 Id. No. 68210300
 Taper Id. No. 68021220
 Disc Id. No. 68041521