

EMX-F/FP

Expanding mandrel
Power operated

Expanding mandrels Ø 19.7 - 132.9 mm

- Size 1 - 6
- Highest concentricity
- Air sensing



Application/customer benefits

- For turning, milling, grinding and gear cutting operations
- High accuracy and torque transmission
- Clamping of very short workpieces on the front section of the sleeve possible
- FP: with axial pull down for best face run out

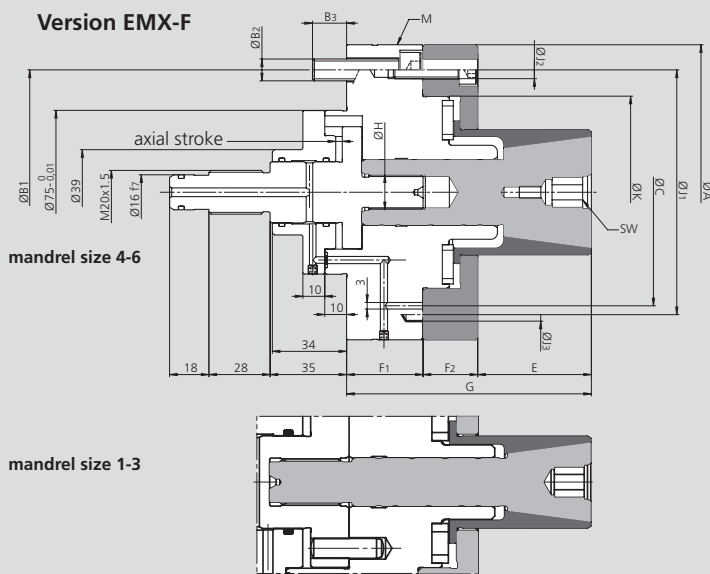
Technical features

- Large expansibility 0,6 - 1,2 mm depending on size
- Power operated / manual lubrication
- Flange mounting
- Very rigid design
- Vulcanized expanding sleeve for protection from the penetration of chips (option)
- Preparation for air sensing

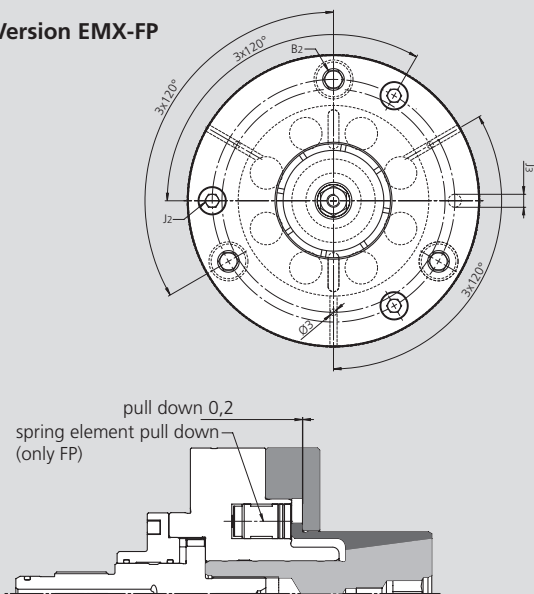
Standard equipment

Basic mandrel with draw bolt for power operation
Mounting bolts

Version EMX-F



Version EMX-FP

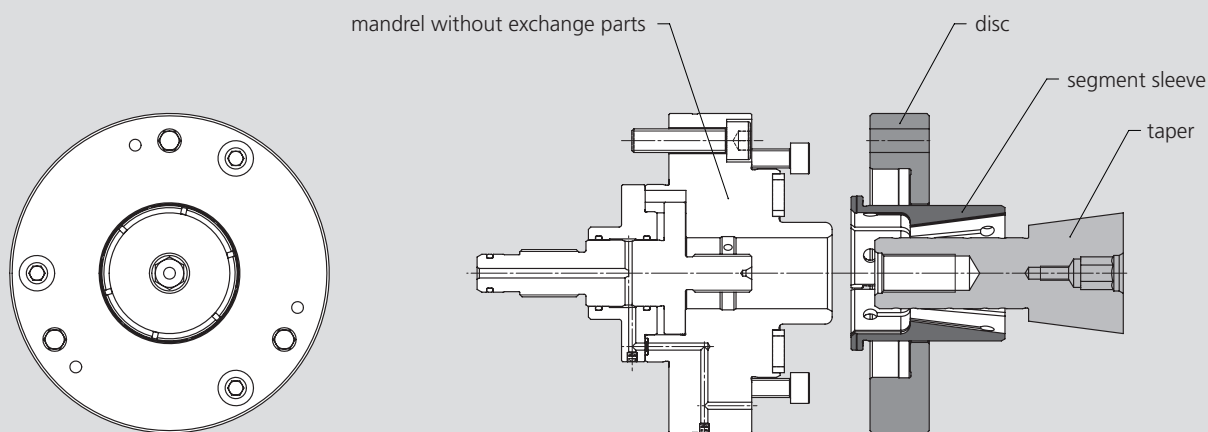


Subject to technical changes.
For more detailed information please ask our customer service.

SMW-AUTOBLOK Type		EMX-F/FP-1	EMX-F/FP-2	EMX-F/FP-3	EMX-F/FP-4	EMX-F/FP-5	EMX-F/FP-6
Id. No.	EMX-F	9110000	9120000	9130000	9140000	9150000	9160000
	EMX-FP	9210000	9220000	9230000	9240000	9250000	9260000
A		115	115	115	135	165	210
B1		92	92	92	112	140	182
B2		3 x M10	3 x M10	3 x M10	3 x M10	3 x M12	3 x M12
B3		15.6	15.6	15.6	15.6	17.9	17.9
C	3 x 120° Ø 3	62	62	86	112	140	182
D	Clamping length	19.7-30.3	27.7-40.3	34.7-55.5	49.7-75.5	69.7-95.9	89.7-132.9
E		27	34	38	52	69	81
F1		30	30	30	35	40	40
F2		18	18	22	25	30	33
G		75	82	90	112	139	154
H		M10 x 1	M14 x 1.5	M16 x 1.5	M16 x 1.5	M20 x 1.5	M20 x 1.5
J1		100	100	100	112	140	182
J2	3 x 120°	M6	M6	M6	M8	M8	M8
J3	H7	6	6	6	8	8	8
K	g6	42	52	65	88	112	155
M transport	3 x 120°	-	-	-	M8	M10	M10
WS (hex)		WS6	WS8	WS10	WS12	WS14	WS14

Technical data

SMW-AUTOBLOK Type		EMX-F/FP-1	EMX-F/FP-2	EMX-F/FP-3	EMX-F/FP-4	EMX-F/FP-5	EMX-F/FP-6
Axial stroke		3.0	2.4	3.0	3.0	5.0	5.0
Expansibility in dia.		0.6	0.6	0.8	0.8	1.2	1.2
Max. axial force in kN		12	20	25	25	30	30
Max. transmittable torque in Nm (dep. on clamping Ø)		51-80	110-165	175-280	250-380	420-580	520-800
Weight in kg		3.3	3.4	3.5	5.3	8.5	14.2
Actuating cylinders	CSN	200	200	250	250	250	250
	SIN-S	70	85	100	100	125	125

■ Ordering review


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mandrel without exchange parts						taper	disc	segment sleeve*	
without pull-down				with pull-down					
type	Id. No.	clamping range	sleeve expansion Ø	type	Id. No.	Id. No.	Id. No.	Id.-No.	ØD
EMX-F-1	9110000	19.7-30.3	0.6	EMX-FP-1	9210000	9112016	9113021	9110197	19.7
								9110202	20.2
								9110207	20.7
								9110212	21.2
								9110217	21.7
						9112020	9113022	9110222	22.2
								9110227	22.7
								9110232	23.2
								9110237	23.7
								9110242	24.2
EMX-F-2	9120000	27.7-40.3	0.6	EMX-FP-2	9220000	9112023	9113023	9110247	24.7
								9110252	25.2
								9110257	25.7
								9110262	26.2
								9110267	26.7
						9122024	9123029	9110272	27.2
								9110277	27.7
								9110282	28.2
								9110287	28.7
								9110292	29.2
						9122028	9123030	9110297	29.7
								9120277	27.7
								9120282	28.2
								9120287	28.7
								9120292	29.2
						9122032	9123031	9120297	29.7
								9120302	30.2
								9120307	30.7
								9120312	31.2
								9120317	31.7
						9123032	9123032	9120322	32.2
								9120327	32.7
								9120332	33.2
								9120337	33.7
								9120342	34.2
						9123036	9123036	9120347	34.7
								9120352	35.2
								9120357	35.7
								9120362	36.2
								9120367	36.7
						9123037	9123037	9120372	37.2
								9120377	37.7
								9120382	38.2
								9120387	38.7
								9120392	39.2
						9123041	9123041	9120397	39.7

* Id. No. XXXXX-y = Clamping sleeve vulcanized.

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type	Id. No.	clamping range	sleeve expansion Ø	type	Id. No.	Id. No.	Id. No.	Id. No.	ØD
EMX-F-3	9130000	34.7-55.5	0.8	EMX-FP-3	9230000	9132030	9133037	9130347	34.7
								9130352	35.2
								9130357	35.7
								9130362	36.2
								9130367	36.7
								9130372	37.2
								9130377	37.7
								9130382	38.2
								9130387	38.7
								9130392	39.2
								9130397	39.7
								9130402	40.2
								9130407	40.7
						9132037		9130412	41.2
							9133044	9130417	41.7
								9130422	42.2
								9130427	42.7
								9130432	43.2
								9130437	43.7
								9130442	44.2
								9130447	44.7
								9130452	45.2
								9130457	45.7
								9130462	46.2
								9130467	46.7
						9132044		9130472	47.2
							9133050	9130477	47.7
								9130482	48.2
							9133051	9130487	48.7
								9130492	49.2
							9133052	9130497	49.7
								9130502	50.2
							9133053	9130507	50.7
								9130512	51.2
							9133054	9130517	51.7
								9130522	52.2
							9133055	9130527	52.7
								9130532	53.2
							9133056	9130537	53.7
								9130542	54.2
							9133057	9130547	54.7
EMX-F-4	9140000	49.7-75.5	0.8	EMX-FP-4	9240000	9142044	9143052	9140497	49.7
								9140502	50.2
							9143053	9140507	50.7
								9140512	51.2
							9143054	9140517	51.7
								9140522	52.2
							9143055	9140527	52.7
								9140532	53.2
							9143056	9140537	53.7
								9140542	54.2
							9143057	9140547	54.7
								9140552	55.2
							9143058	9140557	55.7
								9140562	56.2
							9143059	9140567	56.7
						9142051		9140572	57.2
							9143060	9140577	57.7
								9140582	58.2
							9143061	9140587	58.7
								9140592	59.2
							9143062	9140597	59.7
								9140602	60.2
							9143063	9140607	60.7
								9140612	61.2
							9143064	9140617	61.7
								9140622	62.2
							9143065	9140627	62.7
								9140632	63.2
							9143066	9140637	63.7
								9140642	64.2
							9143067	9140647	64.7
								9140652	65.2
						9142060		9140657	65.7
							9143068	9140662	66.2
								9140667	66.7
							9143070	9140672	67.2
								9140677	67.7
							9143071	9140682	68.2
								9140687	68.7
							9143072	9140692	69.2
								9140697	69.7
							9143073	9140702	70.2
								9140707	70.7
							9143074	9140712	71.2
								9140717	71.7
							9143075	9140722	72.2
								9140727	72.7
							9143076	9140732	73.2
								9140737	73.7
							9143077	9140742	74.2
								9140747	74.7

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without pull-down				with pull-down		Id. No.	Id. No.	Id. No. ØD	
type	Id. No.	clamping range	sleeve expansion Ø	type	Id. No.				
EMX-F-5	9150000	69.7-95.9	1.2	EMX-FP-5	9250000	9152063	9153072 9153073 9153074 9153075 9153076 9153077 9153078 9153079	9150697 9150707 9150717 9150727 9150737 9150747 9150757 9150767	69.7 70.7 71.7 72.7 73.7 74.7 75.7 76.7
						9152071	9153080 9153081 9153082 9153083 9153084 9153085 9153086 9153087 9153088	9150777 9150787 9150797 9150807 9150817 9150827 9150837 9150847 9150857	77.7 78.7 79.7 80.7 81.7 82.7 83.7 84.7 85.7
						9152080	9153089 9153090 9153091 9153092 9153093 9153094 9153095 9153096 9153097	9150867 9150877 9150887 9150897 9150907 9150917 9150927 9150937 9150947	86.7 87.7 88.7 89.7 90.7 91.7 92.7 93.7 94.7
						9162082	9163092 9163093 9163094 9163095 9163096 9163097 9163098 9163099 9163100 9163101	9160897 9160907 9160917 9160927 9160937 9160947 9160957 9160967 9160977 9160987	89.7 90.7 91.7 92.7 93.7 94.7 95.7 96.7 97.7 98.7
						9162092	9163102 9163103 9163104 9163105 9163106 9163107 9163108 9163109 9163110 9163111 9163112	9160997 9161007 9161017 9161027 9161037 9161047 9161057 9161067 9161077 9161087 9161097	99.7 100.7 101.7 102.7 103.7 104.7 105.7 106.7 107.7 108.7 109.7
						9162103	9163113 9163114 9163115 9163116 9163117 9163118 9163119 9163120 9163121 9163122 9163123	9161107 9161117 9161127 9161137 9161147 9161157 9161167 9161177 9161187 9161197 9161207	110.7 111.7 112.7 113.7 114.7 115.7 116.7 117.7 118.7 119.7 120.7
						9162114	9163124 9163125 9163126 9163127 9163128 9163129 9163130 9163131 9163132 9163133 9163134	9161217 9161227 9161237 9161247 9161257 9161267 9161277 9161287 9161297 9161307 9161317	121.7 122.7 123.7 124.7 125.7 126.7 127.7 128.7 129.7 130.7 131.7
EMX-F-6	9160000	89.7-132.9	1.2	EMX-FP-6	9260000				

* Id. No. XXXXXX-V = Clamping sleeve vulcanized.