FIBROTOR EM.NC.11.0160.7.111.00.0.0.3

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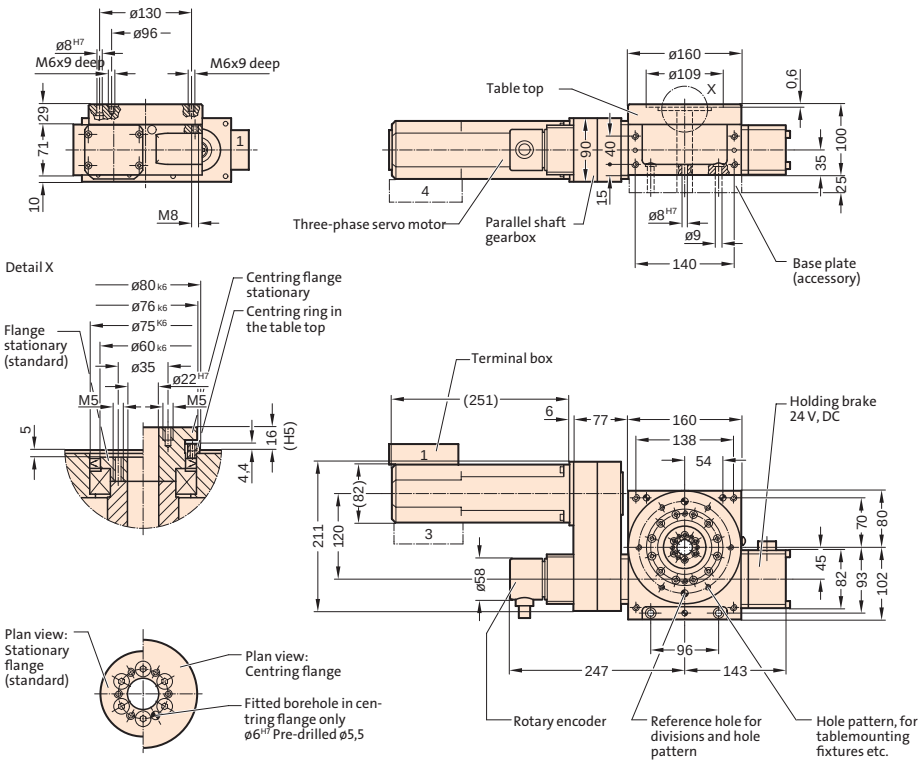
Installed dimensions FIBROTOR® EM.NC.11

(Drive arrangement 111, for other drive arrangement, drawings or CAD-datas are available)



Technical data FIBROTOR® EM.NC.11

Encoding EM.NC.11 . ② ③ ④ . ⑤ ⑥ ⑦ ⑧

Table top dimensions	Standard dimensions Strenghtened table top bearing Table top lock Built-in version	Ø 160 mm Ø 118mm Ø 155 mm Ø 160 mm	.0160 .0118 .0155 .0160	②
Drive motor	Standard braking motor AC servomotor Special version Without motor		.1 .7 .9 .0	③
Drive arrangement	See planning documents under www.fibrotor.de/downloads		.XXX	④
Division	NC - can be positioned arbitrarily		.00	⑤
Additional assemblies	Without additional modules Strenghtened table top bearing Hydraulic table top lock		.0 .1 .2	⑥
	Built-in version Built-in version with mounting ring Vertical version Vertical version with base plate		.1 .2 .3 .4	⑦
	Centring ring Centring flange Centring ring and centring flange		.1 .2 .3	⑧
Indexing accuracy in arc seconds	Direct measuring system Indirect measuring system Measuring system at motor	± 30“ ± 60" ± 210"		
Indexing accuracy in arc length (on Ø 160 mm)	Direct measuring system Indirect measuring system Measuring system at motor	± 0,008 mm ± 0,024 mm ± 0,120 mm		
Axial runout of Table top	(relates to Ø 160 mm)	0,01 mm		
Concentricity of the centre hole	(relates to Ø 75 mm)	0,01 mm		
Plane parallelism of table top to base on the housing	(relates to Ø 160 mm)	0,02 mm		
Direction of rotation	CW - CCW rotation			
Reduction ratio worm /roller gearing		i = 12		

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Technical Data FIBROTOR® EM.NC.11

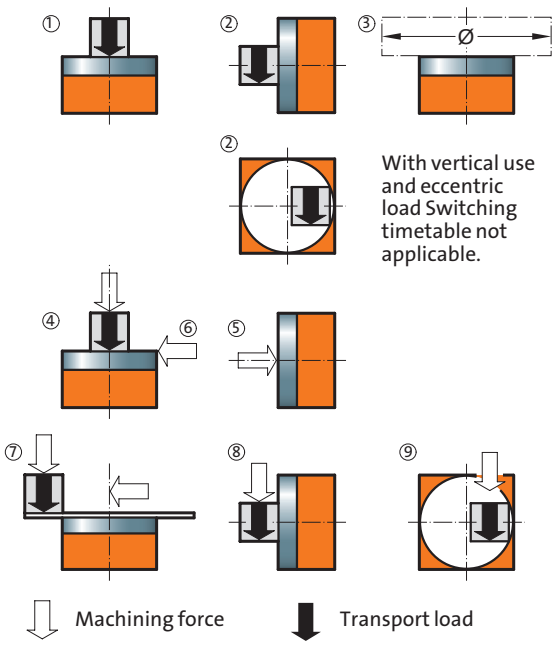
RPM at table top		$n_{max.}$ = 30¹/min
Centre hole		Ø 22 mm
Working position	Any, standard: Horizontal table top, (please specify other mounting positions when ordering)	
Weight		approx. 20 kg

Indexing times FIBROTOR® EM.NC.11

Mass moment of inertia J in kgm²		1	2	4	8	12
Max. perm. table top speed ¹/min		30	25	15	10	6
Acceleration time t_a in s		0,2	0,2	0,2	0,2	0,2
Overall gear ratio reduction i		96,000	120,000	179,052	215,208	312,000
Motor speed n in ¹/min		2880	3000	2686	2152	1872
Motor torque required in Nm		1,0	1,0	1,0	1,0	1,0
Swivel time t_s in s for	360°	2,30	2,70	4,30	6,30	10,30
	180°	1,30	1,50	2,30	3,30	5,30
	90°	0,80	0,90	1,30	1,80	2,80
	60°	0,63	0,70	0,97	1,30	1,97
	45°	0,55	0,60	0,80	1,05	1,55
	30°	0,47	0,50	0,63	0,80	1,13
	20°	0,41	0,43	0,52	0,63	0,86
	10°	0,36	0,37	0,41	0,47	0,58
	5°	0,33	0,33	0,36	0,38	0,44
	2°	0,31	0,31	0,32	0,33	0,36

Load data FIBROTOR® EM.NC.11

Perm. transport load Horizontal table top Vertical table top Table top, upside down	 kg kg kg	 500 200 200	 ① ②
Perm. add-on diameter	mm	800	③
Perm. axial loading on the table top Horizontal Vertical	 N N	 8000 3500	 ④ ⑤
Perm. radial loading on table top	N	3500	⑥
Perm. tilting moment on positioned table top Horizontal With strenghtened table top bearing Vertical With strenghtened table top bearing Upside-down	 Nm Nm Nm Nm Nm	 750 2250 450 1350 250	 ⑦ ⑦ ⑧ ⑦
Perm. tilting moment on rotating table top With strenghtened table top bearing Upside-down	Nm Nm Nm	200 600 100	⑦+⑧
Perm. tangential moment on positioned table top, from machining force and in vertical position additionally from eccentric trabsport load With hydraulic table top lock	Nm Nm	125 450	⑨ ⑨



CAD data, technical data and planing documentation can be downloaded from www.fibrotor.de..

Subject to change without notice