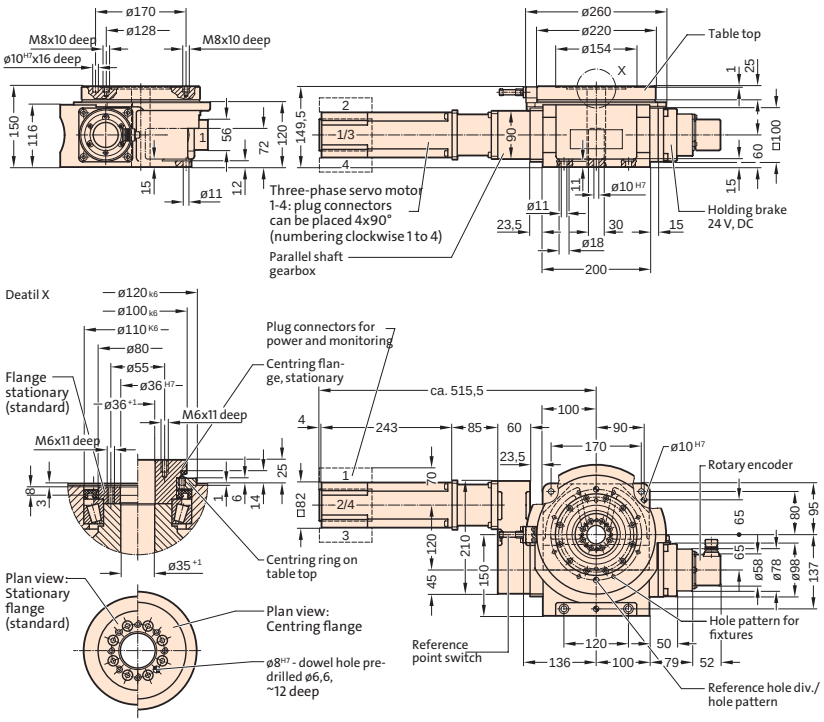
FIBROTOR EM.NC.12.0220.7.111.00.0.0.3

FIBROTOR EM.NC.12.0220.7.111.00.0.0.3

Installed dimensions FIBROTOR® EM.NC.12

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



Technical data FIBROTOR® EM.NC.12

Encoding EM.NC.12 . ② ③ ④ . ⑤ . ⑥ ⑦ ⑧

Table top dimensions	Standard dimensions Strenghtened table top bearing Table top lock Built-in version	Ø 220 mm Ø 190 mm Ø 220 mm Ø 220 mm	.0220 .0190 .0220 .0220	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	Indirect measuring system Direct measuring system Measuring system at motor	± 45" ± 10" ± 150"		
Indexing accuracy in arc length (on Ø 220 mm)	Indirect measuring system Direct measuring system Measuring system at motor	± 0,024 mm ± 0,006 mm ± 0,080 mm		
Axial runout of Table top	(relates to Ø 220 mm)	0,01 mm		
Concentricity of the centre hole	(relates to Ø 110 mm)	0,01 mm		
Plane parallelism of table top to base on the housing	(relates to Ø 220 mm)	0,03 mm		
Direction of ratation	CW - CCW rotation			
Reduction ratio worm /roller gearing		i = 12		

Technical data FIBROTOR® EM.NC.12

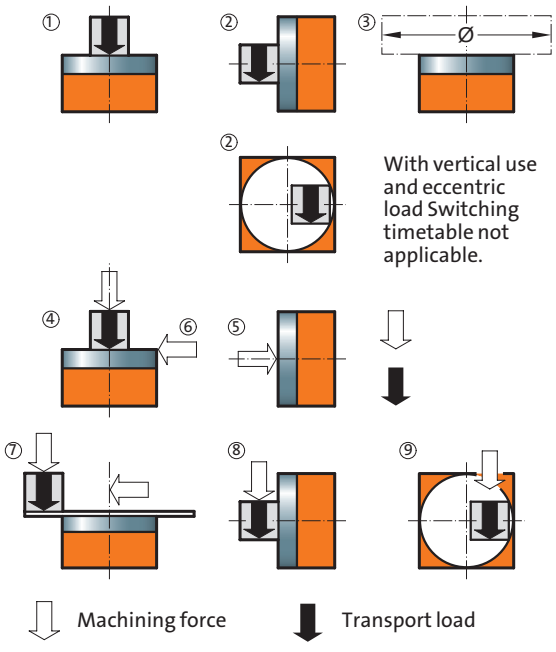
RPM at table top		$n_{max.}$ = 30¹/min
Centre hole	with lateral opening in the housing	Ø 35 mm
Working position	Any, standard: Horizontal table top, (please specify other mounting positions when ordering)	
Weight		approx. 35 kg

Indexing times FIBROTOR® EM.NC.12

Mass moment of inertia J in kgm²	2	6	8	12	16	20	24
Max. perm. table top speed ¹/min	30	25	23	18	15	12	9
Acceleration time t_a in s	0,1	0,2	0,2	0,2	0,3	0,3	0,3
Overall gear ratio reduction i	96,000	120,000	120,000	148,908	179,052	215,208	312,000
Motor speed n in ¹/min	2880	3000	2760	2680	2686	2582	2808
Motor torque required in Nm	2,5	2,2	2,2	2,2	2,2	2,2	2,2
Swivel time t_s in s for 360°	2,20	2,70	2,91	3,63	4,40	5,40	7,07
180°	1,20	1,50	1,60	1,97	2,40	2,90	3,73
90°	0,70	0,90	0,95	1,13	1,40	1,65	2,07
60°	0,53	0,70	0,73	0,86	1,07	1,23	1,51
45°	0,45	0,60	0,63	0,72	0,90	1,03	1,23
30°	0,37	0,50	0,52	0,58	0,73	0,82	0,96
20°	0,31	0,43	0,44	0,49	0,62	0,68	0,77
10°	0,26	0,37	0,37	0,39	0,51	0,54	0,59
5°	0,23	0,33	0,34	0,35	0,46	0,47	0,49
2°	0,21	0,31	0,31	0,32	0,42	0,43	0,44

Load data FIBROTOR® EM.NC.12

Perm. transport load Horizontal table top Vertical table top Table top, upside down	 kg kg kg	 800 300 300	 ① ②
Perm. add-on diameter	mm	1000	③
Perm. axial loading on the table top Horizontal Vertical	 N N	 12000 5000	 ④ ⑤
Perm. radial loading on table top	N	8000	⑥
Perm. tilting moment on positioned table top Vorizontal With strenghtened table top bearing Vertical With strenghtened table top bearing Upside-down	 Nm Nm Nm Nm Nm	 2000 6000 1500 4500 600	 ⑦ ⑦ ⑧ ⑦
Perm. tilting moment on rotating table top With strenghtened table top bearing Upside-down	Nm Nm Nm	600 1800 300	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	 200 800	 ⑨ ⑨



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