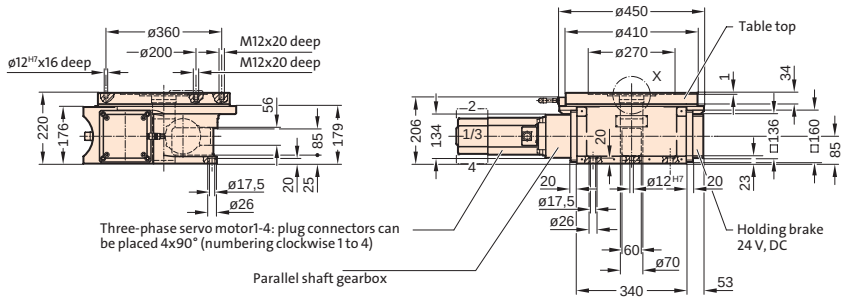
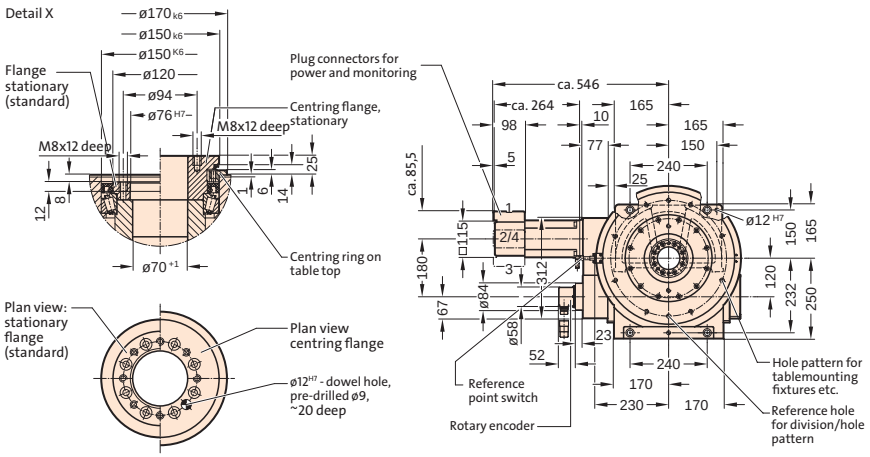
FIBROTOR EM.NC.15.0410.7.111.00.0.0.3

Installed dimensions FIBROTOR® EM.NC.15

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



FIBROTOR EM.NC.15.0410.7.111.00.0.0.3



Technical data FIBROTOR® EM.NC.15

Encoding EM.NC.15 . ② ③ ④ . ⑤ ⑥ ⑦ ⑧

Table top dimensions	Standard dimensions Strenghtened table top bearing Table top lock Built-in version	Ø 0410 mm Ø 0380 mm Ø 0410 mm Ø 0410 mm	.0410 .0380 .0410 .0410	②
Drive motor	Standard brake 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" ± 80"		
Indexing accuracy in arc length (on Ø 410 mm)	Indirect measuring system Direct measuring system Measuring system at motor	± 0,045 mm ± 0,010 mm ± 0,080 mm		
Axial runout of Table top	(relates to Ø 410 mm)	0,015 mm		
Concentricity of the centre hole	(relates to Ø 150 mm)	0,015 mm		
Plane parallelism of table top to base on the housing	(relates to Ø 410 mm)	0,040 mm		
Direction of ratation	CW - CCW rotation			
Reduction ratio worm /roller gearing		i = 12		

Technical data FIBROTOR® EM.NC.15

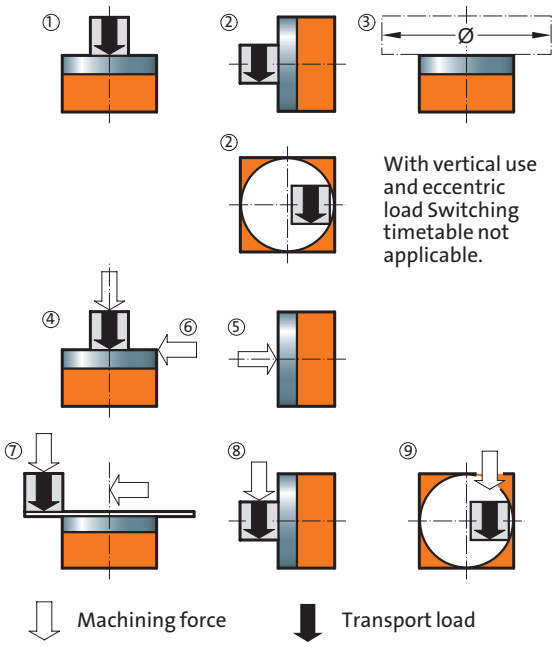
RPM at table top		$n_{max.}$ = 30¹/min
Centre hole	With lateral opening in the housing	Ø 70 mm
Working position	Any, standard: Horizontal table top, (please specify other mounting positions when ordering)	
Weight		approx. 150 kg

Indexing times FIBROTOR® EM.NC.15

Mass moment of inertia J in kgm²		4	25	50	100	150	200	300	400
Max. perm. table top speed ¹/min		30	30	20	15	12	10	8	6
Acceleration time t_a in s		0,1	0,2	0,2	0,3	0,4	0,4	0,5	0,5
Overall gear ratio reduction i		96,000	96,000	120,000	120,000	213,684	213,684	213,684	256,980
Motor speed n in ¹/min		2880	2880	2400	1800	2564	2137	1710	1542
Motor torque required in Nm		8	8	8	8	6	5	5	4
Swivel time t_s in s for	360°	2,20	2,30	3,30	4,40	5,50	6,50	8,10	10,6
	180°	1,20	1,30	1,80	2,40	3,00	3,50	4,35	5,60
	90°	0,70	0,80	1,05	1,40	1,75	2,00	2,48	3,10
	60°	0,53	0,63	0,80	1,07	1,33	1,50	1,85	2,27
	45°	0,45	0,55	0,68	0,90	1,13	1,25	1,54	1,85
	30°	0,37	0,47	0,55	0,73	0,92	1,00	1,23	1,43
	20°	0,31	0,41	0,47	0,62	0,78	0,83	1,02	1,16
	10°	0,26	0,36	0,38	0,51	0,64	0,70	0,85	0,88
	5°	0,23	0,33	0,34	0,46	0,57	0,58	0,70	0,74

Load data FIBROTOR® EM.NC.15

Perm. transport load Horizontal table top Vertical table top Table top, upside down	 kg kg kg	 2500 600 600	 ① ②
Perm. add-on diameter	mm	2000	③
Perm. axial loading on the table top Horizontal Vertical	 N N	 25000 9000	 ④ ⑤
Perm. radial loading on table top	N	15000	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	 6000 18000 3000 10000 1500	 ⑦ ⑦ ⑧ ⑦
Perm. tilting moment on rotating table top With strenghtened table top bearing Upside-down	Nm Nm Nm	2000 6000 700	⑦+⑧
Perm. tangential moment on positioned table top, from Machining force and in vertical position additionally from eccentric transport load With hydraulic table top lock	 Nm Nm	 320 1800	 ⑨ ⑨



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