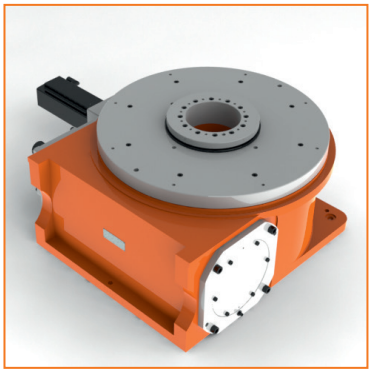
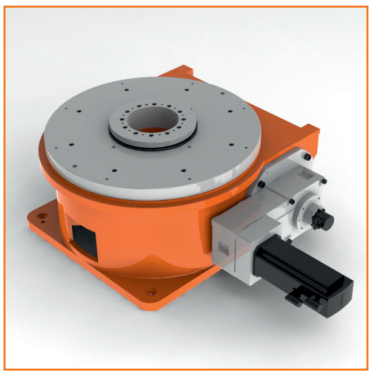


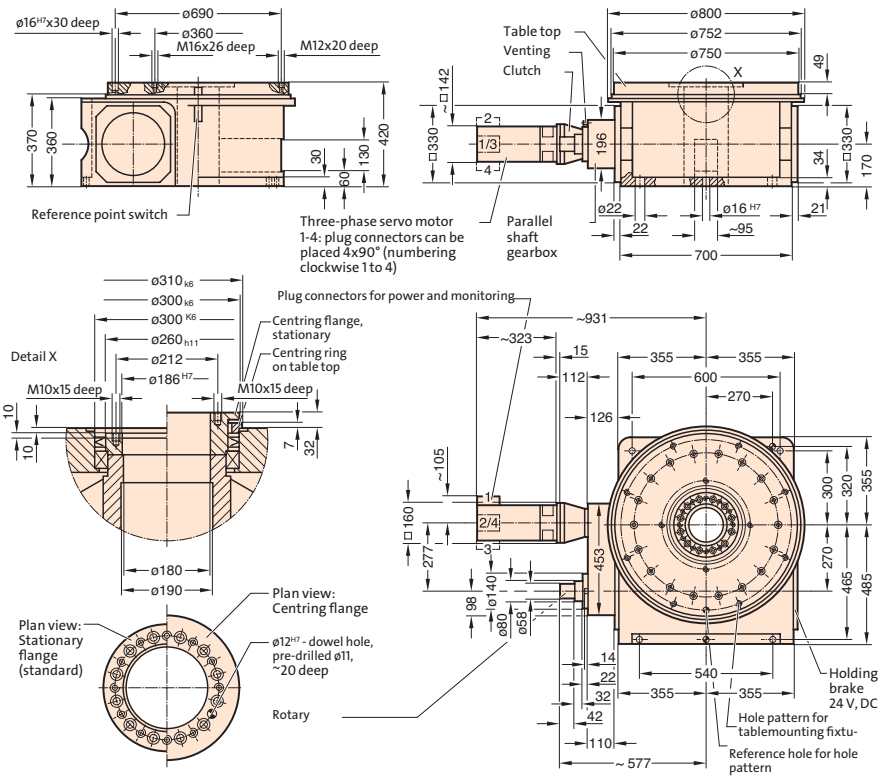
FIBROTOR EM.NC.18.0750.7.111.00.0.0.3



FIBROTOR EM.NC.18.0750.7.111.00.0.0.3

Installed dimensions FIBROTOR® EM.NC.18

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



Technical data FIBROTOR® EM.NC.18

Encoding EM.NC.18 . ② ③ ④ . ⑤ . ⑥ ⑦ ⑧

Table top dimensions	Standard dimensions Strenghtened table top bearing Table top lock Built-in version	Ø 750 mm Ø 660 mm Ø 735 mm Ø 750 mm	.0750 .0660 .0735 .0750	②
Drive motor	Standard brake motor AC servomotor Special version Without motor		.1 .7 .9 .0	③
Drive arrangement			.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	± 30" ± 10" ± 40"		
Indexing accuracy in arc length (on Ø 750 mm)	Indirect measuring system Direct measuring system Measuring system at motor	± 0,055 mm ± 0,018 mm ± 0,073 mm		
Axial runout of Table top	(relates to Ø 750 mm)	0,02 mm		
Concentricity of the centre hole	(relates to Ø 300 mm)	0,02 mm		
Plane parallelism of table top to base on the housing	(relates to Ø 750 mm)	0,04 mm		
Direction of ratation	CW - CCW rotation			
Reduction ratio worm /roller gearing		i = 12		

Technical data FIBROTOR® EM.NC.18

RPM at table top		$n_{max.}$ = 15¹/min
Centre hole	With lateral opening in the housing	Ø 180 mm
Working position	Any, standard: Horizontal table top, (please specify other mounting positions when ordering)	
Weight		approx. 850 kg

Indexing times FIBROTOR® EM.NC.18

Mass moment of inertia J in kgm²		200	300	500	800	1200	2000
Max. perm. table top speed ¹/min		16	14	12	10	9	8
Acceleration time t_a in s		0,3	0,3	0,4	0,4	0,5	0,6
Overall gear ratio reduction i		120,000	120,000	162,000	252,571	315,556	342,804
Motor speed n in ¹/min		1920	1680	1944	2526	2840	2742
Motor torque required in Nm		30	30	25	28	25	22
Swivel time t_s in s for	360°	4,15	4,69	5,50	6,50	7,27	8,20
	180°	2,28	2,54	3,00	3,50	3,93	4,45
	90°	1,34	1,47	1,75	2,00	2,27	2,58
	60°	1,03	1,11	1,33	1,50	1,71	1,95
	45°	0,87	0,94	1,13	1,25	1,43	1,64
	30°	0,71	0,76	0,92	1,00	1,16	1,33
	20°	0,61	0,64	0,78	0,83	0,97	1,12
	10°	0,50	0,52	0,64	0,67	0,79	0,91
	5°	0,45	0,46	0,57	0,58	0,69	0,80

Load data FIBROTOR® EM.NC.18

Perm. transport load Horizontal table top Vertical table top Table top, upside down	 kg kg kg	 6400 1200 1200	 ① ②
Perm. add-on diameter	mm	3500	③
Perm. axial loading on the table top Horizontal Vertical	 N N	 100000 16000	 ④ ⑤
Perm. radial loading on table top	N	36000	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	 18000 54000 7000 21000 4000	 ⑦ ⑦ ⑧ ⑦
Perm. tilting moment on rotating table top With strenghtened table top bearing Upside-down	Nm Nm Nm	6000 18000 1250	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	800 4000	⑨ ⑨