



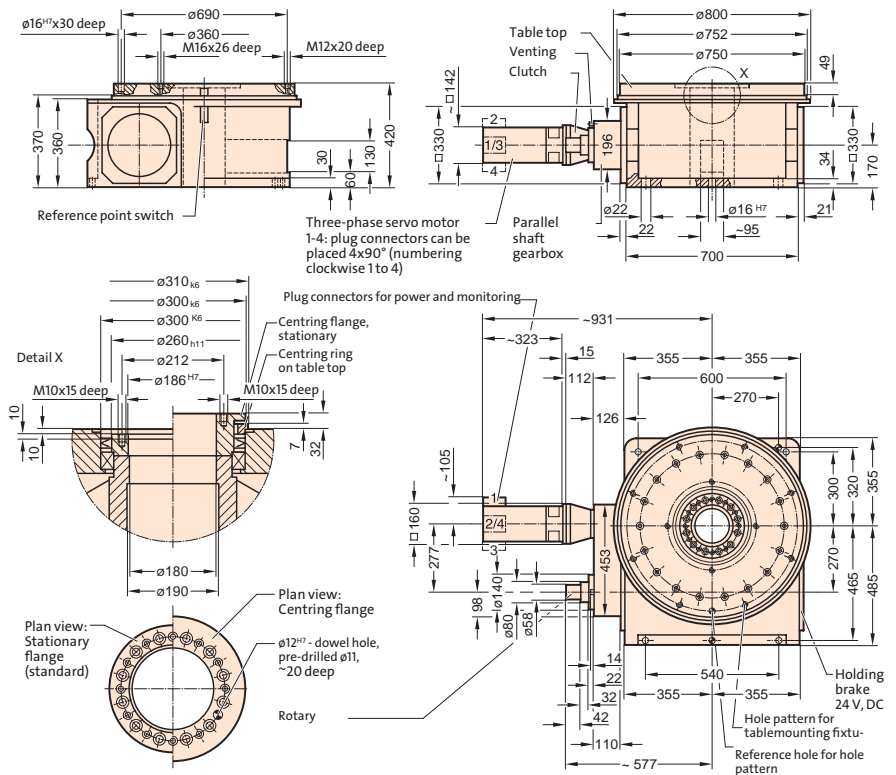
FIBROTOR EM.NC.18.0750.7.111.00.0.0.3



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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	
Table top dimensions	Standard dimensions Strengthened 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
Drive motor	Standard brake motor AC servomotor Special version Without motor		.1 .7 .9 .0
Drive arrangement	See planning documents under www.fibrotor.de/downloads		.XXX
Division	NC - can be positioned arbitrarily		.00
Additional assemblies	Without additional modules Strengthened table top bearing Hydraulic table top lock Built-in version Built-in version with mounting ring Vertical version Vertical version with base plate Centring ring Centring flange Centring ring and centring flange		.0 .1 .2 .1 .2 .3 .1 .2 .3
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 rotation	CW - CCW rotation		
Reduction ratio worm /roller gearing			i = 12

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RPM at table top		$n_{max.} = 15'/min$
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 kgm ²	200	300	500	800	1200	2000
Max. perm. table top speed $\dot{\varphi}$ /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 $\dot{\varphi}$ /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	kg	6400	①
Vertical table top	kg	1200	②
Table top, upside down	kg	1200	
Perm. add-on diameter	mm	3500	③
Perm. axial loading on the table top			
Horizontal	N	100000	④
Vertical	N	16000	⑤
Perm. radial loading on table top	N	36000	⑥
Perm. tilting moment on positioned table top			
Horizontal	Nm	18000	⑦
With strenghtened table top bearing	Nm	54000	⑦
Vertical	Nm	7000	⑧
With strenghtened table top bearing	Nm	21000	⑦
Upside-down	Nm	4000	
Perm. tilting moment on rotating table top			
With strenghtened table top bearing	Nm	6000	⑦+⑧
Upside-down	Nm	18000	
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	800	⑨
	Nm	4000	⑨

