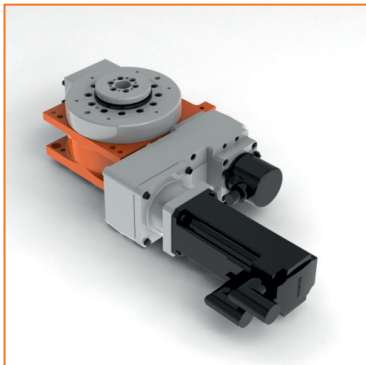


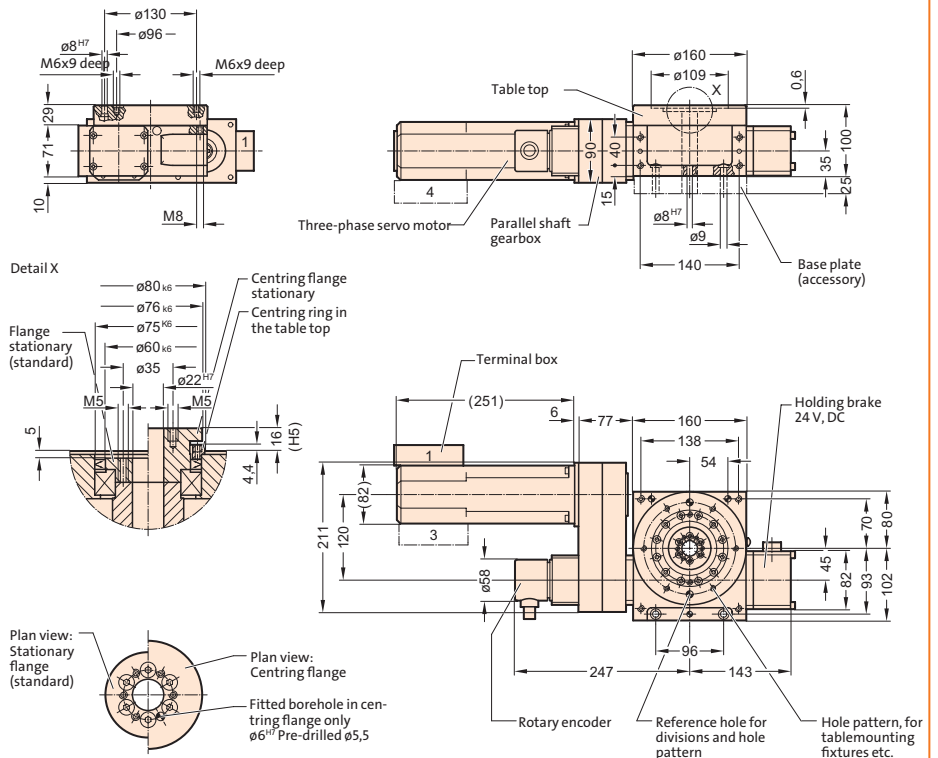
FIBROTOR EM.NC.11.0160.7.111.00.0.0.3



FIBROTOR EM.NC.11.0160.7.111.00.0.0.3

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 .

Table top dimensions	Standard dimensions	Strengthened table top bearing	Table top lock	Built-in version	②
Drive motor	Standard braking motor	AC servomotor	Special version	Without motor	③
	.1	.7	.9	.0	
	.1	.2	.3	.4	
	.1	.2	.3		
Drive arrangement				.XXX	④
Division	NC - can be positioned arbitrarily			.00	⑤
Additional assemblies	Without additional modules	Strengthened table top bearing	Hydraulic table top lock		⑥
	.0	.1	.2		
	.1	.2	.3	.4	
	Built-in version	Built-in version with mounting ring	Vertical version	Vertical version with base plate	⑦
	.1	.2	.3	.4	
	.1	.2	.3		
	.1	.2	.3		
	Indexing accuracy in arc seconds	Direct measuring system	Indirect measuring system	Measuring system at motor	± 30"
± 60"		± 210"			
± 0,008 mm		± 0,024 mm	± 0,120 mm		
± 0,024 mm		± 0,120 mm			
Indexing accuracy in arc length (on Ø 160 mm)	Direct measuring system	Indirect measuring system	Measuring system at motor		
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	

Technical Data FIBROTOR® EM.NC.11

RPM at table top		$n_{max.} = 30'/min$
Centre hole		$\varnothing 22\text{ mm}$
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 kgm^2	1	2	4	8	12
Max. perm. table top speed $'/min$	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 $'/min$	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	kg	500	①
Vertical table top	kg	200	②
Table top, upside down	kg	200	
Perm. add-on diameter	mm	800	③
Perm. axial loading on the table top			
Horizontal	N	8000	④
Vertical	N	3500	⑤
Perm. radial loading on table top	N	3500	⑥
Perm. tilting moment on positioned table top			
Horizontal	Nm	750	⑦
With strenghtened table top bearing	Nm	2250	⑦
Vertical	Nm	450	⑧
With strenghtened table top bearing	Nm	1350	⑧
Upside-down	Nm	250	⑧
Perm. tilting moment on rotating table top	Nm	200	⑦+⑧
With strenghtened table top bearing	Nm	600	
Upside-down	Nm	100	
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	125	⑨
	Nm	450	⑨

