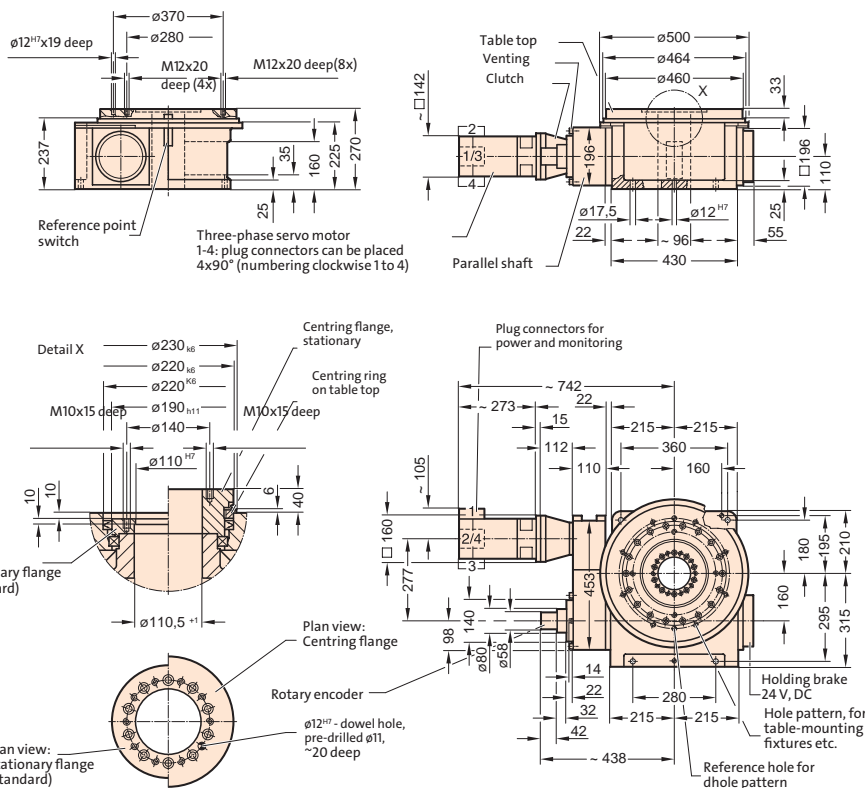


FIBROTOR EM.NC.16.0460.7.111.00.0.0.3

Installed dimensions FIBROTOR® EM.NC.16

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



FIBROTOR EM.NC.16.0460.7.111.00.0.0.3

Technical data FIBROTOR® EM.NC.16

Encoding

EM.NC.16

Table top dimensions	Standard dimensions Strengthened table top bearing Table top lock Built-in version	Ø 460 mm Ø 394 mm Ø 440 mm Ø 460 mm	.0460 .0394 .0440 .0460	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Drive motor	Standard brake motor AC servomotor Special version Without motor		.1 .7 .9 .0	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Drive arrangement	See planning documents under www.fibrotor.de/downloads		.XXX	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Division	NC - can be positioned arbitrarily		.00	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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 .4 .1 .2 .3	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Indexing accuracy in arc seconds	Indirect measuring system Direct measuring system Measuring system at motor	± 30" ± 10" ± 60"		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Indexing accuracy in arc length (on Ø 460 mm)	Indirect measuring system Direct measuring system Measuring system at motor	± 0,033 mm ± 0,011 mm ± 0,067 mm		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Axial runout of Table top	(relates to Ø 460 mm)	0,015 mm		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Concentricity of the centre hole	(relates to Ø 220 mm)	0,015 mm		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Plane parallelism of table top to base on the housing	(relates to Ø 460 mm)	0,040 mm		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Direction of rotation	CW - CCW rotation			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Reduction ratio worm /roller gearing		i = 12		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Technical data FIBROTOR® EM.NC.16

RPM at table top		$n_{max.} = 20'/min$
Centre hole	With lateral opening in the housing	Ø 110 mm
Working position	Any, standard: Horizontal table top, (please specify other mounting positions when ordering)	
Weight		approx. 220 kg

Indexing times FIBROTOR® EM.NC.16

Mass moment of inertia J in kgm ²	60	100	150	225	300	600
Max. perm. table top speed ¹ /min	20	16	12	10	9	8
Acceleration time t _a in s	0,2	0,2	0,3	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	2400	1920	1944	2526	2840	2742
Motor torque required in Nm	20	20	12	10	8	6
Swivel time t _s in s for						
360°	3,30	4,05	5,40	6,50	7,27	8,20
180°	1,80	2,18	2,90	3,50	3,93	4,45
90°	1,05	1,24	1,65	2,00	2,27	2,58
60°	0,80	0,93	1,23	1,50	1,71	1,95
45°	0,68	0,77	1,03	1,25	1,43	1,64
30°	0,55	0,61	0,82	1,00	1,16	1,33
20°	0,47	0,51	0,68	0,83	0,97	1,12
10°	0,38	0,40	0,54	0,67	0,79	0,91
5°	0,34	0,35	0,47	0,58	0,69	0,80

Load data FIBROTOR® EM.NC.16

Perm. transport load			
Horizontal table top	kg	4000	①
Vertical table top	kg	800	②
Table top, upside down	kg	800	
Perm. add-on diameter	mm	2400	③
Perm. axial loading on the table top			
Horizontal	N	32000	④
Vertical	N	11000	⑤
Perm. radial loading on table top	N	20000	⑥
Perm. tilting moment on positioned table top			
Horizontal	Nm	9000	⑦
With strenghtened table top bearing	Nm	27000	⑦
Vertical	Nm	4200	⑧
With strenghtened table top bearing	Nm	12600	⑦
Upside-down	Nm	2300	
Perm. tilting moment on rotating table top			
With strenghtened table top bearing	Nm	3000	⑦+⑧
Upside-down	Nm	9000	
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	500	⑨
	Nm	1900	⑨

