

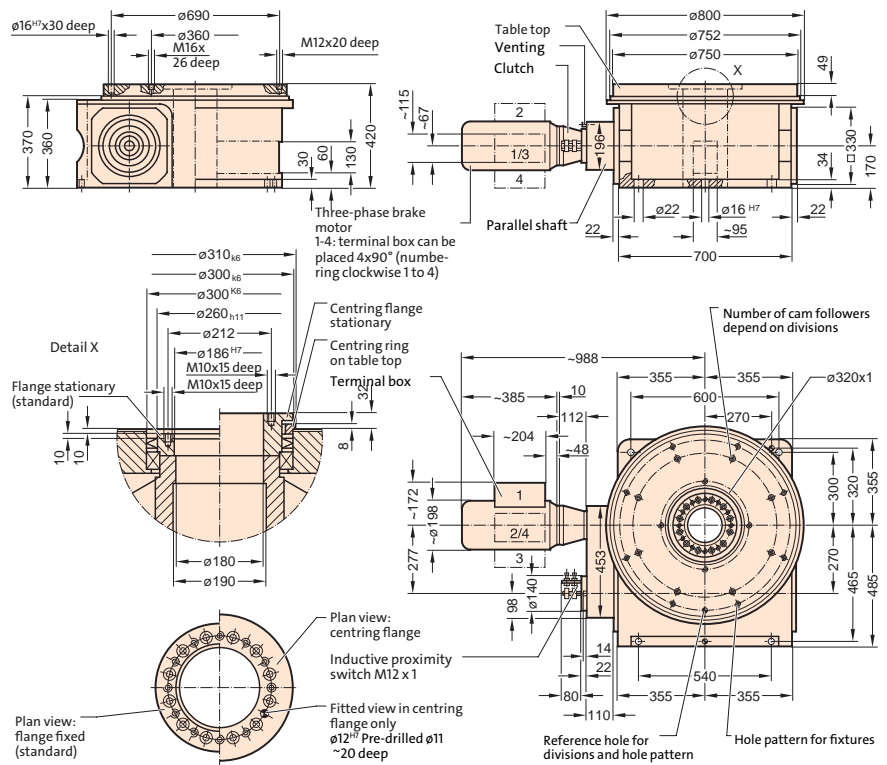
FIBROTOR EM.18.0750.1.111.XX.0.0.3
Drive arrangement 111



FIBROTOR EM.18.0750.1.111.XX.0.0.3
Drive arrangement 111

Installed dimensions FIBROTOR® EM.18

(Drive arrangement 111, for other drive arrangements, drawings or CAD data are available)



Technical data FIBROTOR® EM.18

Encoding

EM.18

Table top dimensions	Standard dimensions Strengthened table top bearing Table top lock Built-in version	$\phi 750$ mm $\phi 660$ mm $\phi 735$ mm $\phi 750$ mm	.0750 .0660 .0735 .0750	<input type="text"/>
Drive motor	Standard brake motor Hydraulic motor Pneumatic motor AC servomotor Special brake motor Special version Without motor		.1 .5 .6 .7 .8 .9 .0	<input type="text"/>
Drive arrangement	See planing documents under www.fibrotor.de/downloads		.XXX	<input type="text"/>
Division 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24	Special divisions up to T 96 on request		.XX	<input type="text"/>
Additional assemblies	Without additional modules Strengthened table top bearing Hydraulic table top lock		.0 .1 .2	<input type="text"/>
	Built-in version Built-in version with mounting ring Vertical version Vertical version with base plate		.1 .2 .3 .4	<input type="text"/>
	Centring ring Centring flange Centring ring and centring flange		.1 .2 .3	<input type="text"/>
Indexing accuracy in arc seconds (increased indexing accuracy on request)	Division 2 – 12 Division 16 – 24 More than division 24	$\pm 10''$ $\pm 15''$ $\pm 25''$		
Indexing accuracy in arc length (on $\phi 750$ mm)	Division 2 – 12 Division 16 – 24 More than division 24	$\pm 0,018$ mm $\pm 0,027$ mm $\pm 0,045$ mm		
Axial runout of table top	(relates to $\phi 750$ mm)	0,02 mm		
Concentricity of the centre hole	(relates to $\phi 300$ mm)	0,02 mm		
Plane parallelism of table top to base on the housing	(relates to $\phi 750$ mm)	0,04 mm		
Direction of rotation	Any, limit switch set for cw rotation			

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Switching/ hold angles	Division 2 Division 3 – 5 Division 6 – 12 More than division 12	330° / 30° 300° / 60° 270° / 90° 135° / 45°
Voltage	Motor Special voltages on request Brake	230/400 V, 50 Hz, IEC 38 230 V, AC
Motor power	Depending on indexing time and mass moment of inertia	0,37 – 3,0 kW
Centre hole	With side opening in the housing	Ø 180 mm
Working position	Any, standard: Horizontal table top, (please specify other mounting positions when ordering)	
Weight		ca. 850 kg

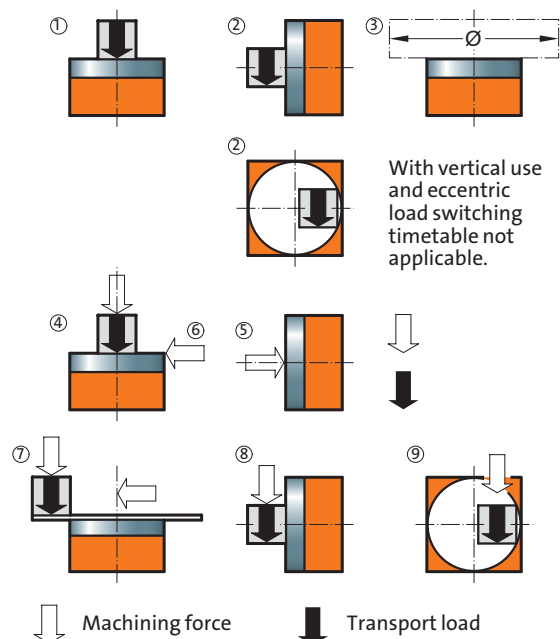
Indexing times FIBROTOR® EM.18

Divisions in combination with special brake motor

2	t _s in s	6,65	5,99	4,94	4,44	2,38	3,21	2,91	2,40	1,92	1,68	1,39						
	J in kgm ²	7589	6144	4170	3374	959	1753	1437	973	618	469	270						
3	t _s in s	6,05	5,44	4,49	4,04	3,33	2,94	2,66	2,20	1,72	1,51							
	J in kgm ²	10199	8257	5606	4720	3210	2716	2228	1422	812	533							
4	t _s in s	6,05	5,44	4,49	4,04	2,92	2,63	2,17	1,74	1,53	1,26	1,01	0,93	0,75				
	J in kgm ²	17462	14927	10139	8209	4278	3462	2353	1502	1164	787	440	296	165				
5	t _s in s	6,05	5,44	4,64	4,17	2,96	2,63	2,17	1,74	1,52	1,26	1,01	0,93	0,75				
	J in kgm ²	23082	19732	14314	11591	5821	4580	3115	1991	1522	1046	630	470	263				
6	t _s in s	5,44	4,90	4,17	3,76	2,66	2,36	1,95	1,56	1,37	1,14	0,91	0,84	0,67	0,60			
	J in kgm ²	23479	20072	14560	11790	5922	4659	3169	2025	1548	1064	678	478	268	171			
8	t _s in s	5,52	4,97	4,08	3,76	2,66	2,40	1,98	1,55	1,36	1,13	0,91	0,84	0,67	0,60			
	J in kgm ²	32982	28197	19012	16089	8084	6544	4453	2731	2089	1438	918	786	497	313			
10	t _s in s	5,52	4,97	4,08	3,76	2,66	2,40	1,98	1,55	1,36	1,13	0,91	0,84	0,67	0,60			
	J in kgm ²	41789	35727	24091	20388	10246	8296	5646	3464	2651	1826	1167	1001	635	500			
12	t _s in s	5,61	5,05	4,08	3,67	2,68	2,41	1,99	1,57	1,38	1,12	0,90	0,83	0,67	0,59			
	J in kgm ²	51979	44440	29092	23561	12553	10164	6919	4306	3297	2178	1393	1178	759	599			
16	t _s in s	2,80	2,52	2,04	1,84	1,34	1,21	0,99	0,79	0,68	0,56	0,46	0,42	0,34	0,30			
	J in kgm ²	14813	12662	8285	6707	3567	2886	1933	1215	901	608	396	333	207	151			
20	t _s in s	2,80	2,52	2,04	1,84	1,34	1,21	0,99	0,79	0,68	0,56	0,46	0,42	0,34	0,30			
	J in kgm ²	20915	17880	11701	9474	5043	4081	2735	1723	1279	866	566	477	299	234			
24	t _s in s	2,80	2,52	2,03	1,83	1,35	1,21	1,00	0,79	0,69	0,56	0,46	0,42	0,34	0,30			
	J in kgm ²	25821	22074	14291	11572	6319	5042	3429	2131	1629	1073	703	593	374	293			

Belastungsdaten FIBROTOR® EM.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 Upside-down	Nm	21000	⑦
Perm. tilting moment on rotating table top With strenghtened table top bearing	Nm	6000	⑦
Upside-down	Nm	18000	⑧
Perm. tangential moment on positioned table top, from machining force and in vertical position additionally from eccentric transport load	Nm	2500	⑨
With hydraulic table top lock	Nm	4000	



CAD-files, technical data and planning documentation can be downloaded from www.fibrotor.de.