

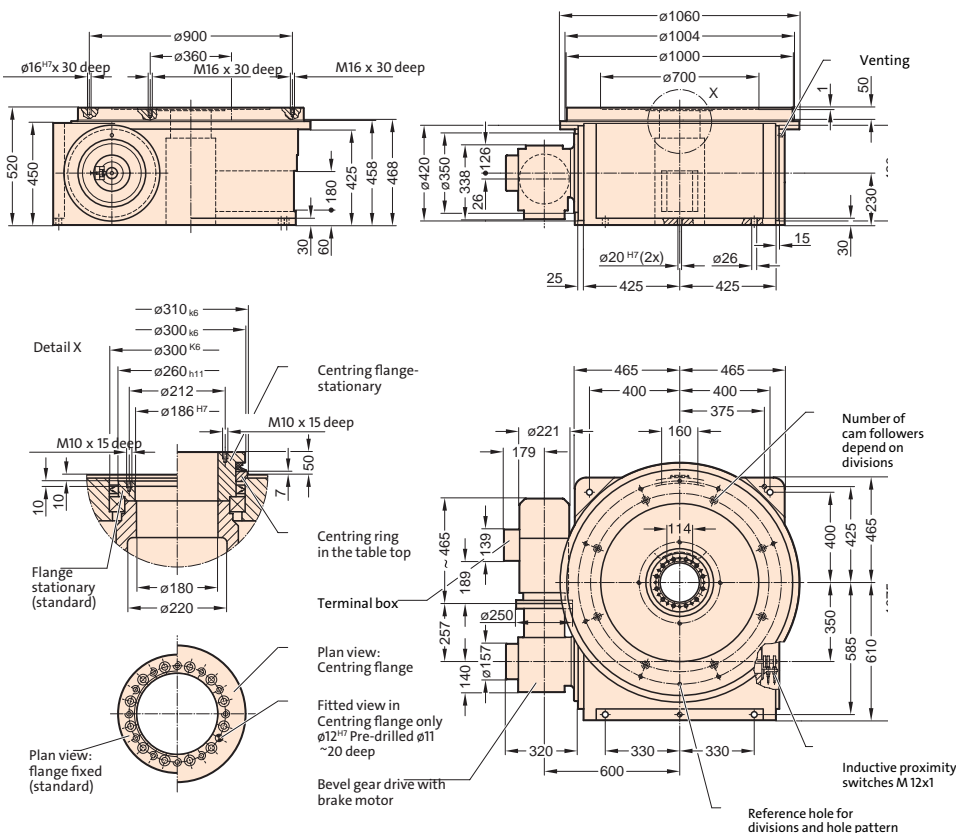
FIBROTOR EM.19.1000.1.152.XX.0.0.3
Drive arrangement 152



FIBROTOR EM.19.1000.1.152.XX.0.0.3
Drive arrangement 152

Installed dimensions FIBROTOR® EM.19

(Drive arrangement 152, for other drive arrangements, drawing or CAD data are available)



Technical data FIBROTOR® EM.19

Encoding



Table top dimensions	Standard dimensions Strengthened table top bearing Table top lock Built-in version	Ø 1000 mm Ø 930 mm Ø 1000 mm Ø 1000 mm	.1000 .0930 .1000 .1000	②
Drive motor	Standard brake motor Hydraulic motor Pneumatic motor AC servomotor Special version Without motor		.1 .5 .6 .7 .9 .0	③
Drive arrangement	See planning documents under www.fibrotor.de/downloads		.XXX	④
Division 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24	Special deviations up to T 120 on request		.XX	⑤
Additional assemblies	No 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	⑥ ⑦ ⑧
Indexing accuracy in arc seconds (increased indexing accuracy on request)	Division 2 – 12 Division 16 – 24 More than division 24	± 10" ± 15" ± 25"		
Indexing accuracy in arc length (on Ø 1000 mm)	Division 2 – 12 Division 16 – 24 More than division 24	± 0,024 mm ± 0,036 mm ± 0,061 mm		
Axial runout of table top	(relates to Ø 1000 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 1000 mm)	0,04 mm		
Direction of rotation	Any, limit switch set for cw rotation			

Technical data FIBROTOR® EM.19

Switching/hold angles	Division 2 Division 3 – 5 Division 6 – 12 More than division 12	330° / 30° 300° / 60° 270° / 90° 135° / 45°
Volage	Motor Special voltage on request Brake	230/400 V, 50 Hz, IEC 38 230 V, AC
Motor output	Depending in indexing time and mass moment of inertia	0,55 – 4,0 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		approx. 1500 kg

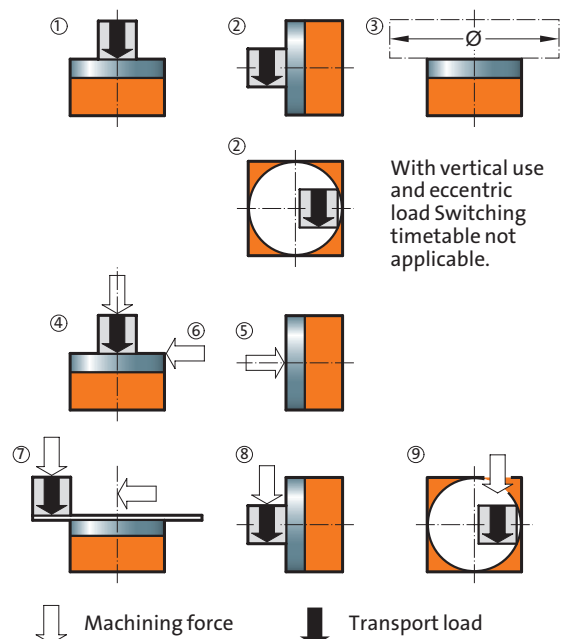
Indexing times FIBROTOR® EM.19

Division

2	t _i in s	7,70	6,79	6,41	5,75	4,95	4,52	4,04	3,39	3,07	2,73	2,44	2,18			
	J in kgm ²	13581	10564	9396	7537	5577	4634	3683	2584	2109	1650	1306	1028			
3	t _i in s	7,00	6,18	5,83	5,22	4,53	4,14	3,67	3,04	2,79	2,46	2,20	1,98			
	J in kgm ²	22447	17470	15543	12477	9376	7798	6119	4183	3522	2724	2165	1737			
4	t _i in s	7,00	6,18	5,83	5,22	4,50	4,11	3,64	3,08	2,83	2,52	2,22	1,99	1,73	1,54	
	J in kgm ²	36044	28061	24970	20053	14865	12369	9714	6944	5854	4603	3562	2867	2144	1681	
5	t _i in s	7,00	6,18	5,83	5,22	4,50	4,11	3,64	3,08	2,83	2,52	2,22	1,99	1,73	1,54	
	J in kgm ²	47654	39168	34857	27998	20761	17280	13576	9712	8191	6446	4995	3379	2270	1474	
6	t _i in s	6,34	5,60	5,28	4,70	4,05	3,70	3,28	2,76	2,53	2,26	2,03	1,82	1,56	1,40	
	J in kgm ²	49171	38285	34070	26978	20004	16650	13080	9224	7779	6210	4951	3990	2904	2316	
8	t _i in s	6,34	5,60	5,28	4,70	4,05	3,70	3,28	2,76	2,53	2,25	2,01	1,82	1,58	1,41	
	J in kgm ²	67094	52246	46497	36823	27310	22735	17865	12605	10634	8373	6681	5466	4101	3276	
10	t _i in s	6,44	5,68	5,36	4,74	4,08	3,72	3,30	2,76	2,53	2,25	2,01	1,81	1,57	1,41	1,17
	J in kgm ²	87501	68140	60645	47337	35113	29233	22976	15986	13489	10625	8481	6843	5139	4167	2751
12	t _i in s	6,44	5,68	5,36	4,80	4,14	3,72	3,30	2,78	2,53	2,25	2,01	1,81	1,57	1,40	1,17
	J in kgm ²	105665	82289	73238	58841	43650	35311	27755	19594	16301	12842	10254	8276	6218	4973	3648
16	t _i in s	6,44	5,68	5,36	4,80	4,14	3,78	3,35	2,78	2,55	2,26	2,03	1,81	1,57	1,40	1,17
	J in kgm ²	143951	112109	99782	80171	59479	49527	38936	26713	22547	17768	14192	11296	8493	6797	4658
20	t _i in s	3,22	2,84	2,68	2,40	2,04	1,86	1,65	1,38	1,27	1,12	1,01	0,90	0,78	0,71	
	J in kgm ²	42500	33089	29445	23649	17034	14177	11135	7737	6524	5131	4089	3293	2464	1992	
24	t _i in s	3,22	2,84	2,68	2,40	2,07	1,89	1,65	1,39	1,28	1,12	1,01	0,90	0,78	0,70	
	J in kgm ²	52474	40858	36361	29207	21658	18027	13760	9704	8184	6349	5063	4080	3057	2438	

Load data FIBROTOR® EM.19

Perm. transport load			
Horizontal table top	kg	8000	①
Vertical table top	kg	1250	②
Table top, upside-down	kg	1000	
Perm. add-on diameter	mm	4500	③
Perm. axial loading on the table top			
Horizontal	N	125000	④
Vertical	N	20000	⑤
Perm. radial loading on table top	N	50000	⑥
Perm. tilting moment on positioned table top			
Horizontal	Nm	24000	⑦
With strenghtened table top bearing	Nm	72000	⑦
Vertical	Nm	9000	⑧
With strenghtened table top bearing	Nm	24000	⑦
Upside-down	Nm	7000	
Perm. tilting moment on rotating table top			
With strenghtened table top bearing	Nm	8000	⑦
Upside-down	Nm	24000	⑧
Upside-down	Nm	1500	
Perm. tangential moment on positioned table top, from machining force and in vertical position additionally from eccentric transport load	Nm	5000	⑨
With hydraulic table top lock	Nm	9000	



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