

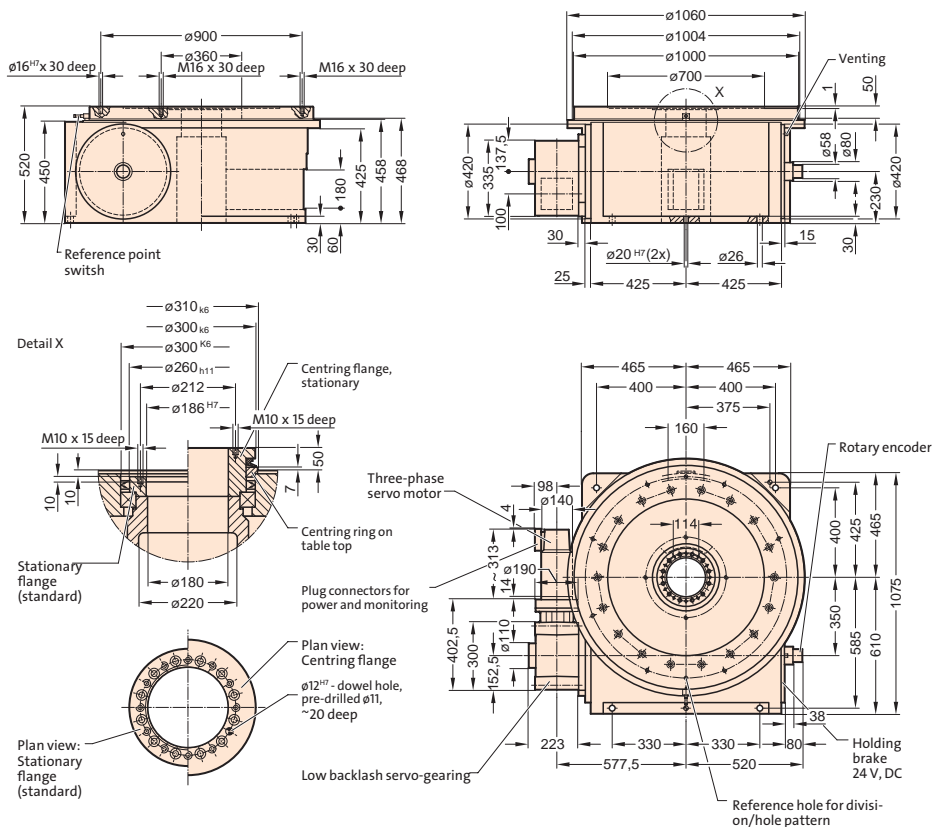
FIBROTOR EM.NC.19.1000.7.152.00.0.0.3



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Installed dimensions FIBROTOR® EM.NC.19

(Drive arrangement 152, for other drive arrangement, drawings or CAD-datas are available)



Technical data FIBROTOR® EM.NC.19

Encoding

EM.NC.19 . [] [] [] [] [] [] [] []

Table top dimensions	Standard dimensions Strengthened table top bearing Table top lock Built-in version	$\varnothing 1000$ mm $\varnothing 930$ mm $\varnothing 1000$ mm $\varnothing 1000$ mm	.1000 .0930 .1000 .1000	(2)
Drive motor	Standard brake motor AC servomotor Special version Without motor		.1 .7 .9 .0	(3)
Drive arrangement	See planning documents under www.fibrotor.de/downloads		.XXX	(4)
Division	NC - can be positioned arbitrarily		.00	(5)
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	(6) (7) (8)
Indexing accuracy in arc seconds	Indirect measuring system Direct measuring system Measuring system at motor		$\pm 30''$ $\pm 10''$ $\pm 30''$	
Indexing accuracy in arc length (on $\varnothing 1000$ mm)	Indirect measuring system Direct measuring system Measuring system at motor		$\pm 0,073$ mm $\pm 0,024$ mm $\pm 0,073$ mm	
Axial runout of Table top	(relates to $\varnothing 1000$ mm)		0,02 mm	
Concentricity of the centre hole	(relates to $\varnothing 300$ mm)		0,02 mm	
Plane parallelism of table top to base on the housing	(relates to $\varnothing 1000$ mm)		0,04 mm	
Direction of rotation	CW - CCW rotation			
Reduction ratio worm /roller gearing			$i = 18$	

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RPM at table top		$n_{max.} = 12^1/min$
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. 1500 kg

Indexing times FIBROTOR® EM.NC.19

Mass moment of inertia J in kgm ²	300	600	1000	1600	2400
Max. perm. table top speed ¹ /min	12	10	8	6	4
Acceleration time t _a in s	0,2	0,3	0,4	0,5	0,6
Overall gear ratio reduction i	180	288	288	504	720
Motor speed n in ¹ /min	2160	2880	2304	3024	2880
Motor torque required in Nm	60	40	22	12	10
Swivel time t _s in s for					
360°	5,30	6,40	8,00	10,60	15,70
180°	2,80	3,40	4,25	5,60	8,20
90°	1,55	1,90	2,38	3,10	4,45
60°	1,13	1,40	1,75	2,27	3,20
45°	0,93	1,15	1,44	1,85	2,58
30°	0,72	0,90	1,13	1,43	1,95
20°	0,58	0,73	0,92	1,16	1,53
10°	0,44	0,57	0,71	0,88	1,12
5°	0,37	0,48	0,60	0,74	0,91
2°	0,33	0,43	0,54	0,66	0,78

Load data FIBROTOR® EM.NC.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+⑥
Upside-down	Nm	24000	
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	1000	⑨
	Nm	9000	⑨

