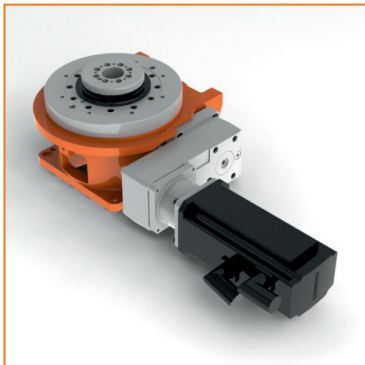


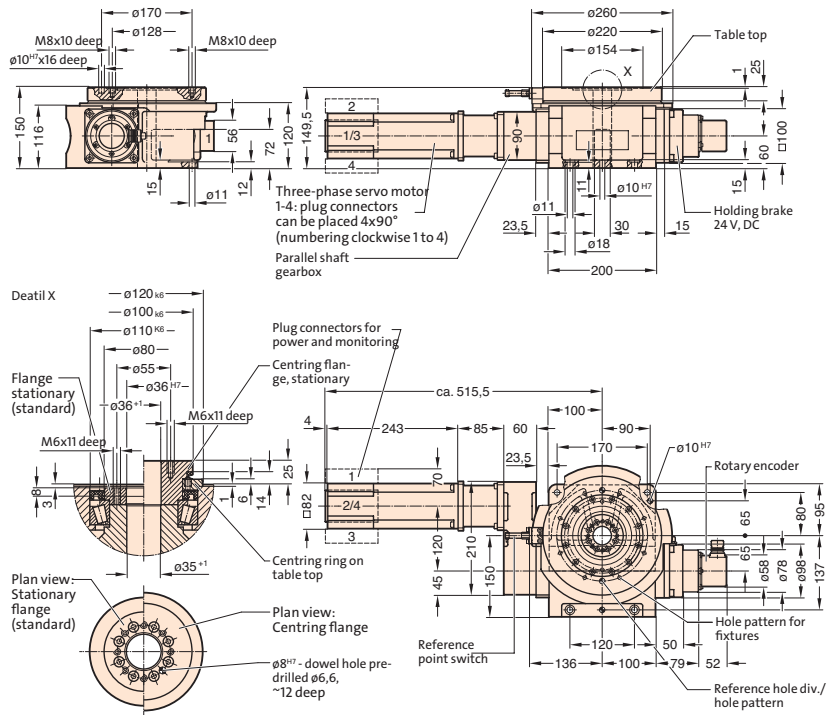
FIBROTOR EM.NC.12.0220.7.111.00.0.0.3



FIBROTOR EM.NC.12.0220.7.111.00.0.0.3

## Installed dimensions FIBROTOR® EM.NC.12

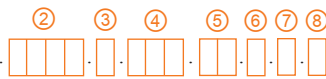
(Drive arrangement 111, for other drive arrangement, drawings or CAD-datas are available)



## Technical data FIBROTOR® EM.NC.12

### Encoding

EM.NC.12



<b>Table top dimensions</b>	Standard dimensions Strengthened table top bearing Table top lock Built-in version	$\phi 220$ mm $\phi 190$ mm $\phi 220$ mm $\phi 220$ mm	.0220 .0190 .0220 .0220	②
<b>Drive motor</b>	Standard braking motor AC servomotor Special version Without motor		.1 .7 .9 .0	③
<b>Drive arrangement</b>			.XXX	④
<b>Division</b>	NC - can be positioned arbitrarily		.00	⑤
<b>Additional assemblies</b>	Without additional modules Strengthened table top bearing Hydraulic table top lock		.0 .1 .2	⑥
	Built-in version Built-in version with mounting ring Vertical version Vertical version with base plate		.1 .2 .3 .4	⑦
	Centring ring Centring flange Centring ring and centring flange		.1 .2 .3	⑧
<b>Indexing accuracy in arc seconds</b>	Indirect measuring system Direct measuring system Measuring system at motor	$\pm 45''$ $\pm 10''$ $\pm 150''$		
<b>Indexing accuracy in arc length (on <math>\phi 220</math> mm)</b>	Indirect measuring system Direct measuring system Measuring system at motor	$\pm 0,024$ mm $\pm 0,006$ mm $\pm 0,080$ mm		
<b>Axial runout of Table top</b>	(relates to $\phi 220$ mm)	0,01 mm		
<b>Concentricity of the centre hole</b>	(relates to $\phi 110$ mm)	0,01 mm		
<b>Plane parallelism of table top to base on the housing</b>	(relates to $\phi 220$ mm)	0,03 mm		
<b>Direction of rotation</b>	CW - CCW rotation			
<b>Reduction ratio worm /roller gearing</b>		$i = 12$		

## Technical data FIBROTOR® EM.NC.12

<b>RPM at table top</b>		$n_{max.} = 30^1/min$
<b>Centre hole</b>	with lateral opening in the housing	$\varnothing 35\text{ mm}$
<b>Working position</b>	Any, standard: Horizontal table top, (please specify other mounting positions when ordering)	
<b>Weight</b>		approx. 35 kg

## Indexing times FIBROTOR® EM.NC.12

Mass moment of inertia J in $kgm^2$	2	6	8	12	16	20	24
Max. perm. table top speed $^1/min$	30	25	23	18	15	12	9
Acceleration time $t_a$ in s	0,1	0,2	0,2	0,2	0,3	0,3	0,3
Overall gear ratio reduction i	96,000	120,000	120,000	148,908	179,052	215,208	312,000
Motor speed n in $^1/min$	2880	3000	2760	2680	2686	2582	2808
Motor torque required in Nm	2,5	2,2	2,2	2,2	2,2	2,2	2,2
Swivel time $t_s$ in s for $360^\circ$	2,20	2,70	2,91	3,63	4,40	5,40	7,07
180°	1,20	1,50	1,60	1,97	2,40	2,90	3,73
90°	0,70	0,90	0,95	1,13	1,40	1,65	2,07
60°	0,53	0,70	0,73	0,86	1,07	1,23	1,51
45°	0,45	0,60	0,63	0,72	0,90	1,03	1,23
30°	0,37	0,50	0,52	0,58	0,73	0,82	0,96
20°	0,31	0,43	0,44	0,49	0,62	0,68	0,77
10°	0,26	0,37	0,37	0,39	0,51	0,54	0,59
5°	0,23	0,33	0,34	0,35	0,46	0,47	0,49
2°	0,21	0,31	0,31	0,32	0,42	0,43	0,44

## Load data FIBROTOR® EM.NC.12

Perm. transport load Horizontal table top	kg	800	①
Vertical table top	kg	300	②
Table top, upside down	kg	300	
Perm. add-on diameter	mm	1000	③
Perm. axial loading on the table top Horizontal	N	12000	④
Vertical	N	5000	⑤
Perm. radial loading on table top	N	8000	⑥
Perm. tilting moment on positioned table top Vertical	Nm	2000	⑦
With strenghtened table top bearing	Nm	6000	⑦
Vertical	Nm	1500	⑧
With strenghtened table top bearing	Nm	4500	⑦
Upside-down	Nm	600	
Perm. tilting moment on rotating table top With strenghtened table top bearing	Nm	600	⑦+⑧
Upside-down	Nm	1800	
Upside-down	Nm	300	
Perm. tangential moment on positioned table top, from machining force and in vertical position additionally from eccentric transport load	Nm	200	⑨
With hydraulic table top lock	Nm	800	⑨

