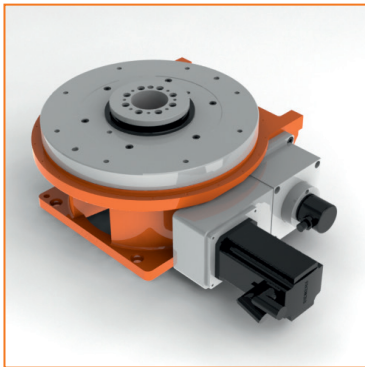
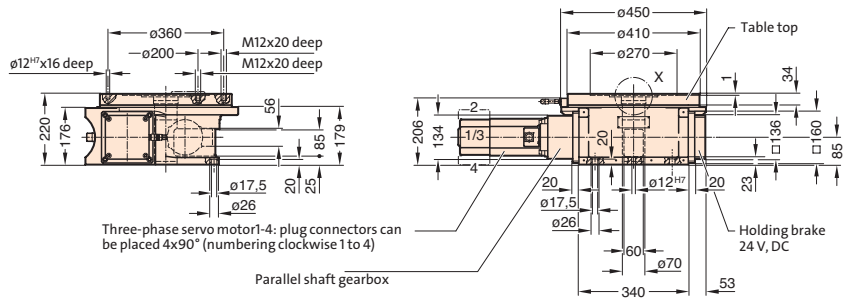




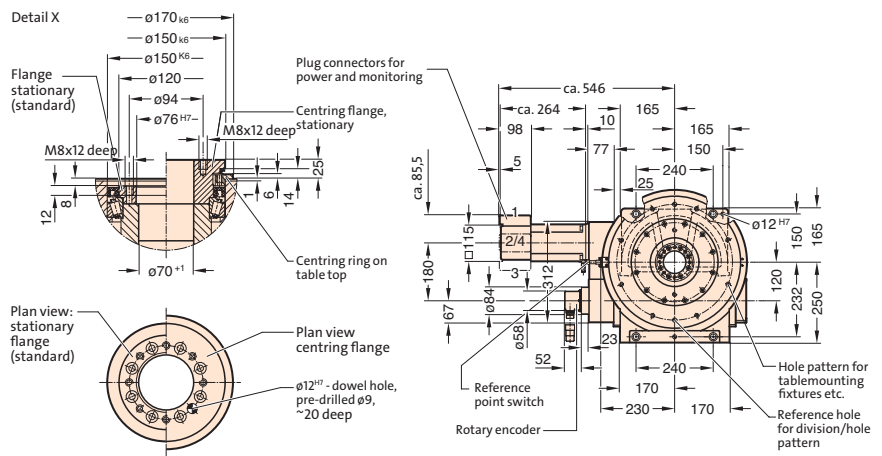
FIBROTOR EM.NC.15.0410.7.111.00.0.0.3

## Installed dimensions FIBROTOR® EM.NC.15

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

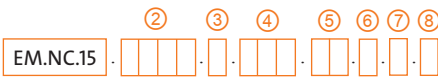


FIBROTOR EM.NC.15.0410.7.111.00.0.0.3



## Technical data FIBROTOR® EM.NC.15

## Encoding



<b>Table top dimensions</b>	Standard dimensions Strengthened table top bearing Table top lock Built-in version	Ø 0410 mm Ø 0380 mm Ø 0410 mm Ø 0410 mm	.0410 .0380 .0410 .0410	②
<b>Drive motor</b>	Standard brake 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		.0	⑥
	Strengthened table top bearing		.1	
	Hydraulic table top lock		.2	
	Built-in version Built-in version with mounting ring Vertical version Vertical version with base plate		.1 .2 .3 .4	
<b>Indexing accuracy in arc seconds</b>	Indirect measuring system	± 45"		⑧
	Direct measuring system	± 10"		
	Measuring system at motor	± 80"		
<b>Indexing accuracy in arc length (on Ø 410 mm)</b>	Indirect measuring system	± 0,045 mm		
	Direct measuring system	± 0,010 mm		
	Measuring system at motor	± 0,080 mm		
<b>Axial runout of Table top</b>	(relates to Ø 410 mm)		0,015 mm	
<b>Concentricity of the centre hole</b>	(relates to Ø 150 mm)		0,015 mm	
<b>Plane parallelism of table top to base on the housing</b>	(relates to Ø 410 mm)		0,040 mm	
<b>Direction of rotation</b>	CW - CCW rotation			
<b>Reduction ratio worm /roller gearing</b>			i = 12	

## Technical data FIBROTOR® EM.NC.15

<b>RPM at table top</b>		$n_{max.} = 30^1/min$
<b>Centre hole</b>	With lateral opening in the housing	$\varnothing 70\text{ mm}$
<b>Working position</b>	Any, standard: Horizontal table top, (please specify other mounting positions when ordering)	
<b>Weight</b>		approx. 150 kg

## Indexing times FIBROTOR® EM.NC.15

Mass moment of inertia J in $kgm^2$	4	25	50	100	150	200	300	400
Max. perm. table top speed $^1/min$	30	30	20	15	12	10	8	6
Acceleration time $t_a$ in s	0,1	0,2	0,2	0,3	0,4	0,4	0,5	0,5
Overall gear ratio reduction i	96,000	96,000	120,000	120,000	213,684	213,684	213,684	256,980
Motor speed n in $^1/min$	2880	2880	2400	1800	2564	2137	1710	1542
Motor torque required in Nm	8	8	8	8	6	5	5	4
Swivel time $t_s$ in s for								
360°	2,20	2,30	3,30	4,40	5,50	6,50	8,10	10,6
180°	1,20	1,30	1,80	2,40	3,00	3,50	4,35	5,60
90°	0,70	0,80	1,05	1,40	1,75	2,00	2,48	3,10
60°	0,53	0,63	0,80	1,07	1,33	1,50	1,85	2,27
45°	0,45	0,55	0,68	0,90	1,13	1,25	1,54	1,85
30°	0,37	0,47	0,55	0,73	0,92	1,00	1,23	1,43
20°	0,31	0,41	0,47	0,62	0,78	0,83	1,02	1,16
10°	0,26	0,36	0,38	0,51	0,64	0,70	0,85	0,88
5°	0,23	0,33	0,34	0,46	0,57	0,58	0,70	0,74

## Load data FIBROTOR® EM.NC.15

Perm. transport load	kg	2500	①
Horizontal table top	kg	600	②
Vertical table top	kg	600	
Table top, upside down	kg	600	
Perm. add-on diameter	mm	2000	③
Perm. axial loading on the table top			
Horizontal	N	25000	④
Vertical	N	9000	⑤
Perm. radial loading on table top	N	15000	⑥
Perm. tilting moment on positioned table top			
Horizontal	Nm	6000	⑦
With strenghtened table top bearing	Nm	18000	⑦
Vertical	Nm	3000	⑧
With strenghtened table top bearing	Nm	10000	⑦
Upside-down	Nm	1500	
Perm. tilting moment on rotating table top			
With strenghtened table top bearing	Nm	2000	⑦+⑧
Upside-down	Nm	6000	
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	320	⑨
	Nm	1800	⑨

