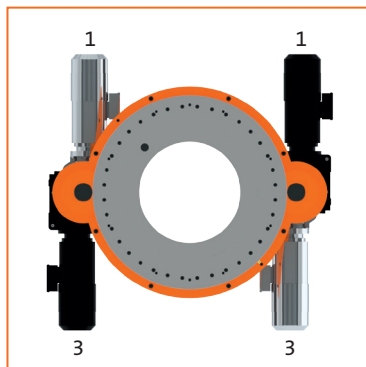


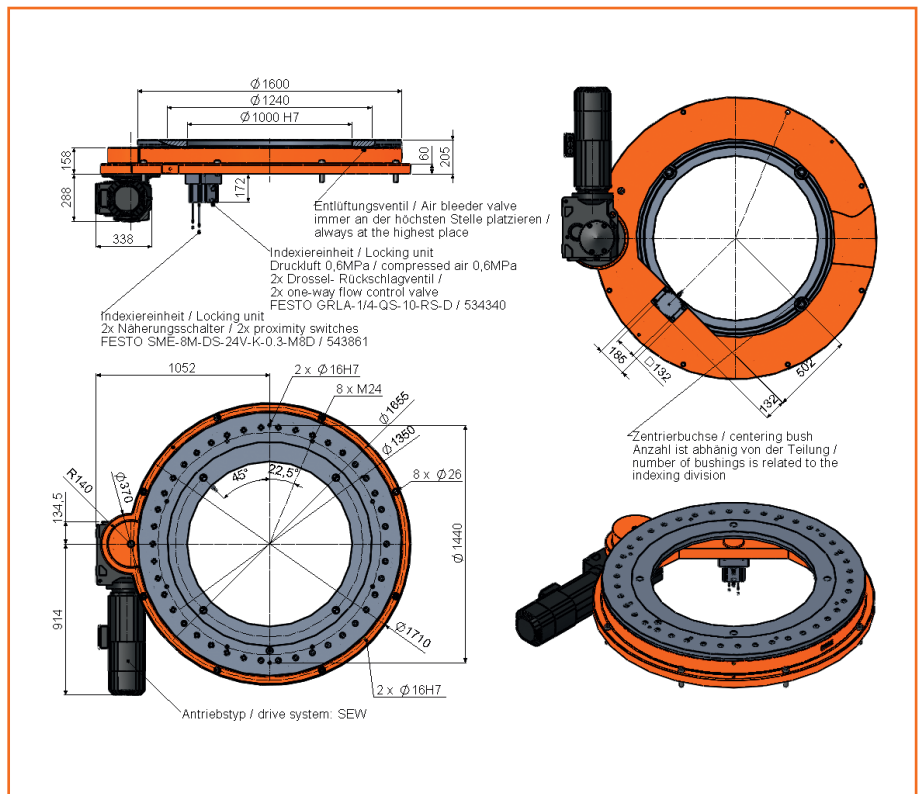
FIBROMAT AT.1600  
Antriebsausrichtung 10, 20, 30, 40



FIBROMAT AT.1600  
Drive arrangement 11, 13, 31, 33

## Dimensions of FIBROMAT® AT.1600

(Drive arrangement 180° with one drive; for other drive arrangements, diagrams or CAD data are available)



## Technical data for FIBROMAT® AT.1600

### Coding

AT.1600 .   .   .   .   .

<b>Table top dimension</b>	Ø 1,600 mm			
<b>Drive motor</b>	1 drive without motor	Gearbox prepared for motor according to customer	.10	②
	1 drive with motor	SEW asynchronous servo gear motor KF87/R DRL 132MC4BE5/TF/AS7W/Z	.11	
	1 drive with motor	SIEMENS Motor 1FK7105-5AF71-1EH0	.12	
	1 drive with motor	Special motor	.19	
	2 drives without motor	Gearboxes prepared for motors according to customer	.20	
	2 drives with motor	SEW asynchronous servo gear motor KF87/R DRL 132MC4BE5/TF/AS7W/Z	.21	
	2 drives with motor	SIEMENS Motor 1FK7105-5AF71-1EH0	.22	
	2 drives with motor	Special motor	.29	
<b>Drive arrangement</b>	See pictures above		.XX	
	Special design		.99	
<b>Divisions</b>	Without indexing unit		.00	④
Any, maximum 38	With indexing unit for division XX, symmetrical arrangement		.XX	
	Special division		.99	
<b>Centre hole</b>	Ø 1,000 mm		.0	⑤
	Extended by 200 mm (not combinable with standard indexing unit)		.1	
	Special design		.9	
<b>Measuring system</b>	Measuring system on motor		.0	⑥
	With additional direct measuring system (mounted in standard centre hole)		.1	
	With measuring system in special design		.9	
<b>Direction of rotation</b>	Any			
<b>Mounting position</b>	Any, standard table top: horizontal (Please state other mounting positions when ordering)			
<b>Indexing and repeat accuracy</b>	Indexing accuracy	Repeat accuracy		
<b>No indexing, one drive</b>	± 285"	± 145"		
<b>No indexing, two drives</b>	± 60"	± 30"		
<b>With indexing, one drive</b>	± 20"	± 10"		
<b>With two drives, with measuring system</b>	± 10"	± 5"		

## Technical data for FIBROMAT® AT.1600

Maximum axial runout of the table top	0.1 mm	
Maximum runout of the centre hole	0.1 mm	
Weight	FIBROMAT AT.1600 Gear motor Indexing unit	1,400 kg 170 kg 25 kg

## Indexing times for FIBROMAT® AT.1600

AT.1600 with one drive										
45°	t <sub>s</sub> in s	4.7	4.0	3.3	2.8	2.5	2.3	2.2	2.0	1.7
	J in kgm <sup>2</sup>	100,000	75,000	50,000	35,000	25,000	20,000	16,000	12,000	8,000
90°	t <sub>s</sub> in s	6.6	5.7	4.7	4.0	3.8	3.4	3.1	2.8	2.5
	J in kgm <sup>2</sup>	100,000	75,000	50,000	35,000	25,000	20,000	16,000	12,000	8,000
180°	t <sub>s</sub> in s	9.3	8.2	7.0	6.1	5.4	5.0	4.7	4.4	4.1
	J in kgm <sup>2</sup>	100,000	75,000	50,000	35,000	25,000	20,000	16,000	12,000	8,000

AT.1600 with two drives										
45°	t <sub>s</sub> in s	3.1	2.7	2.2	1.9	1.8	1.6	1.5	1.3	1.2
	J in kgm <sup>2</sup>	100,000	75,000	50,000	35,000	25,000	20,000	16,000	12,000	8,000
90°	t <sub>s</sub> in s	4.4	3.9	3.4	2.9	2.6	2.4	2.3	2.2	2.0
	J in kgm <sup>2</sup>	100,000	75,000	50,000	35,000	25,000	20,000	16,000	12,000	8,000
180°	t <sub>s</sub> in s	6.8	6.3	5.7	4.5	4.2	4.0	3.9	3.8	3.7
	J in kgm <sup>2</sup>	100,000	75,000	50,000	35,000	25,000	20,000	16,000	12,000	8,000


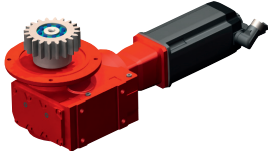
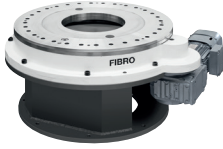

The specified switching times do not include: Regulation time of 0.1 sec, indexing time of 0.3 sec. Further angles and indexing times can be calculated for you.

## Load data for FIBROMAT® AT.1600

Perm. transport load on table top horizontal	25,000 kg
Perm. superstructure diameter	9,500 mm
Perm. force vertically on rotating table top	260,000 N
Perm. radial force on the rotating table top	220,000 N
Perm. tilting moment on rotating table top	135,000 Nm
Perm. tangential moment on table top (dynamic)	16,300 Nm

We would be pleased to provide a calculation of combined load data for your specific application.

## Additional options for FIBROMAT® AT.1600

<b>Drive unit</b> Asynchronous motor (standard)		<b>Indexing unit</b>	
<b>Drive unit</b> Synchronous servomotor		<b>Machine stands</b> Height: 577 mm	
<b>Drive inverter</b>		<b>Additional table top</b>	