

**HEAVY-DUTY NC ROTARY TABLES**

**FIBRO**

 **OMAX**





## FIBROMAX 2.0

### FIBRO ROTARY TABLES MOVE UP TO ...

**Second-generation, heavy-load positioning table features high rigidity and efficiency.**

Specialist and rotary table pioneer FIBRO of Weinsberg presents the FIBROMAX 2.0 series: a completely revised series of its XXL rotary displacement series. In comparison to the first-generation, the bearing diameter and thus the rigidity of the heavy-load positioner has increased significantly – and with virtually unchanged costs. The continuously increasing requirements for the construction of wind power plants,

roller bearings, turbines, gearbox cases, and construction machines were the reasons for the new heavy-load concept. Rotary tables for workpiece sizes of 4 x 4 metres and transport loads of up to 400 tons are now standard at FIBRO. The heavy-duty tables provide a positioning accuracy of  $\pm 2$  angle seconds. The axial run-out and radial concentricity are in a range of a few hundredths of a millimetre. In addition, with the FIBROMAX 2.0 series, a very large dimensioned and highly precise roller bearing provides for maximum rigidity and thus the highest precision during

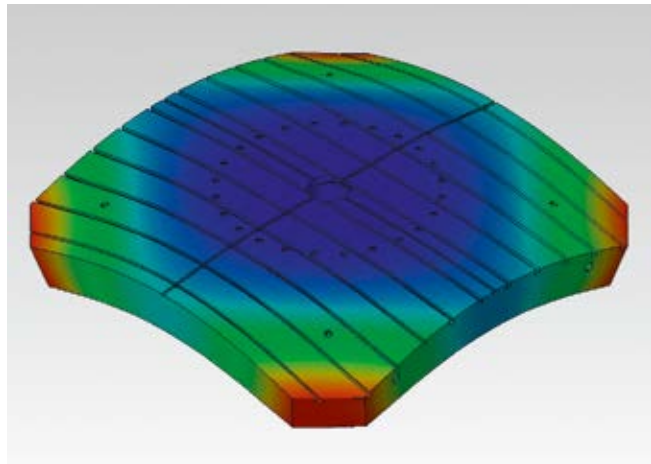
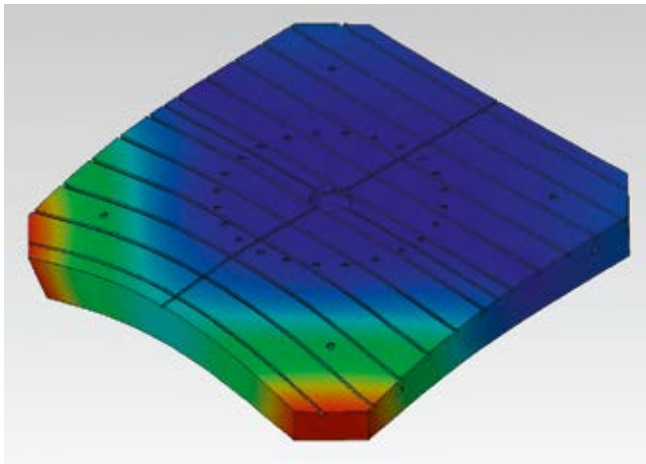
processing. When in a positioned state, a hydraulic table top clamp increases the tangential torque and relieves the gear. The preloaded bearing and a play-free twin-drive also offer optimum conditions for circular milling and simultaneous machining. FIBROMAX 2.0 provides a maximum of process stability at minimum maintenance effort.



... 400 T WITH AN ACCURACY IN THE  $\mu\text{m}$  RANGE.

#### ADDITIONAL OPTIONS FOR THE FIBROMAX

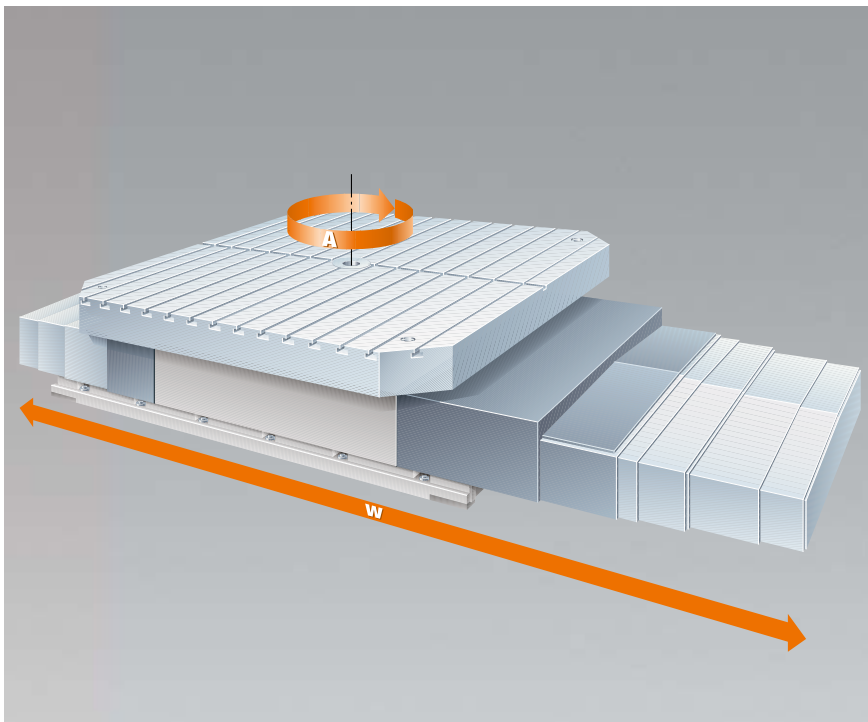
- Flexible positioning with an accuracy of  $\pm 2$  seconds of arc
- High repeatability in terms of radial and axial concentricity in the  $\mu\text{m}$  range
- Absorption of radial and axial forces by preloaded, heavy-duty axial-radial bearing combination
- Increased tangential forces and reduced loads on gears through hydraulic table top clamping
- Perfectly equipped for rotary milling and simultaneous machining thanks to preloaded bearings and electrically clamped drive (twin-drive)
- Different types, configuration levels, and variants based on a modular concept for more flexibility
- Greater profitability from tested reliability, reduced maintenance expenses, longer service life and low energy consumption



**OPTIMISED DESIGN DUE TO FEM**

Deflection with asymmetric load

Deflection with symmetric load



- Axial load up to 4000 kN, torque up to 150 kNm
- High-precision roller bearings in the rotary table and optimised ways for the linear axis
- Absolutely backlash-free operation thanks to the FIBRO Twin Drive
- Hydraulic clamping for high tangential force
- Radial concentricity, axial runout and repeatability in the  $\mu\text{m}$  range
- Mechanical roller bearings save time and energy when traversing and pivoting

# FIBROMAX

IT'S A MATTER OF FORCE AND PRECISION.

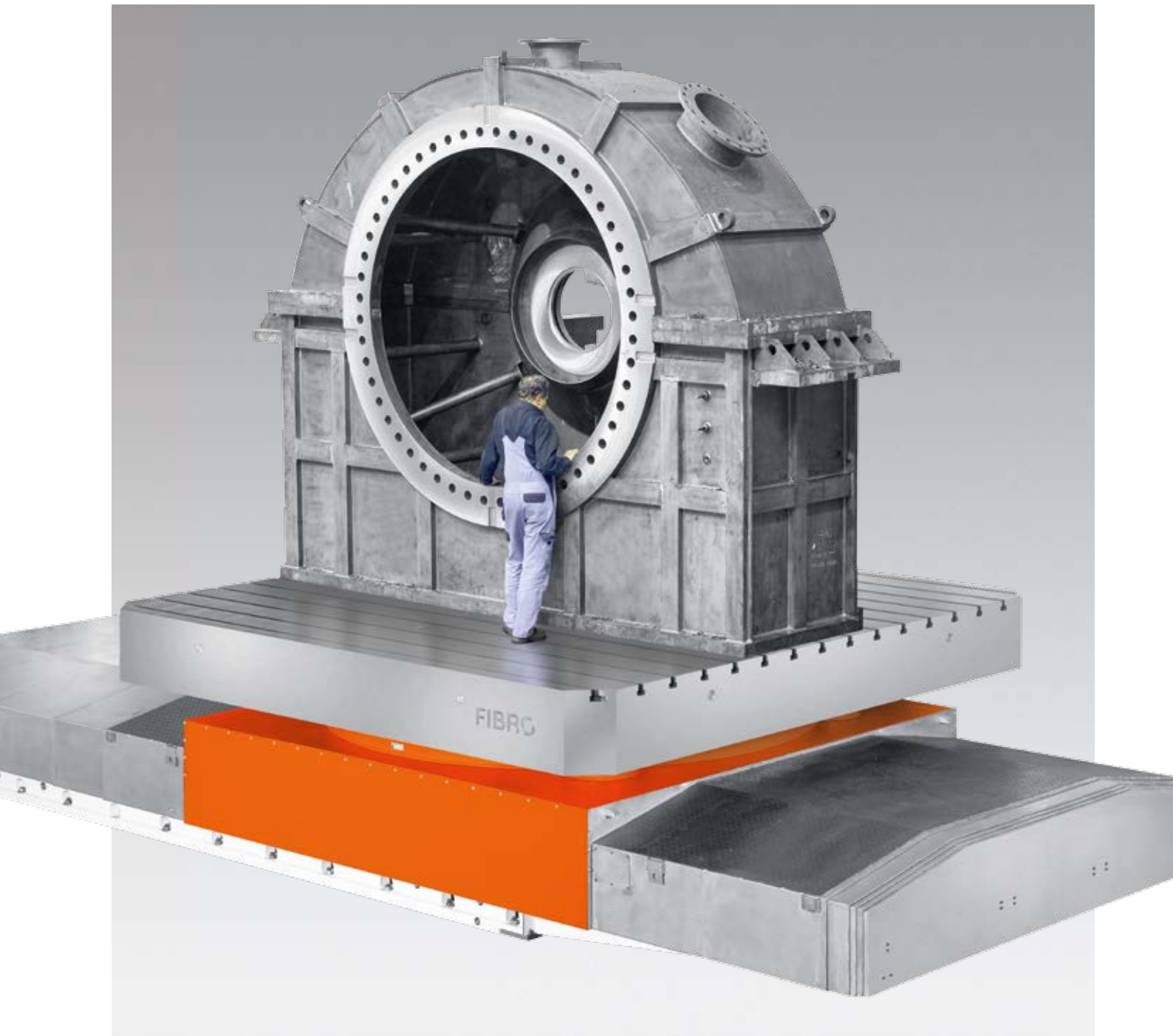
**Not new, but still true: The whole is more than the sum of its parts.**

FIBRO rotary tables are known for their rigid mechanical design, perfectly matched

drive and control technology and low maintenance requirements. Day in and day out, large individual workpieces or several clamping fixtures holding heavy weights can be positioned accurately and machined

with maximum precision in 3-, 4- or 5-axes simultaneously on FIBROMAX tables.





## AND NUMEROUS FIELDS OF APPLICATION.

**Standard or individual solutions – Your production must run in an optimal manner.**

Whether as a free-standing rotary-linear table in a lateral/gantry (portal) milling centre

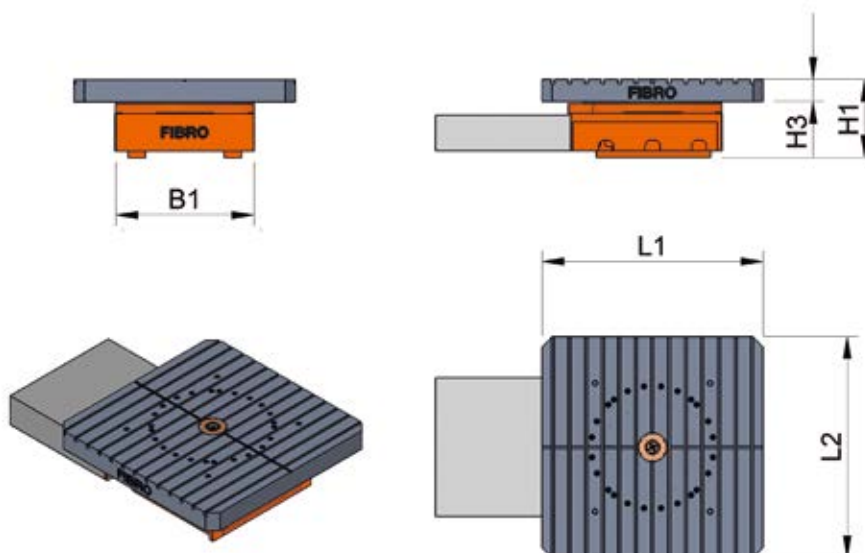
or as an integrated rotary table – the particular design of your FIBROMAX table gives you the flexibility demanded by your range of workpieces. The FIBRO engineering department will be glad to provide fast and competent consultation

whenever the technical requirements and production-specific circumstances require more than just a standard solution.

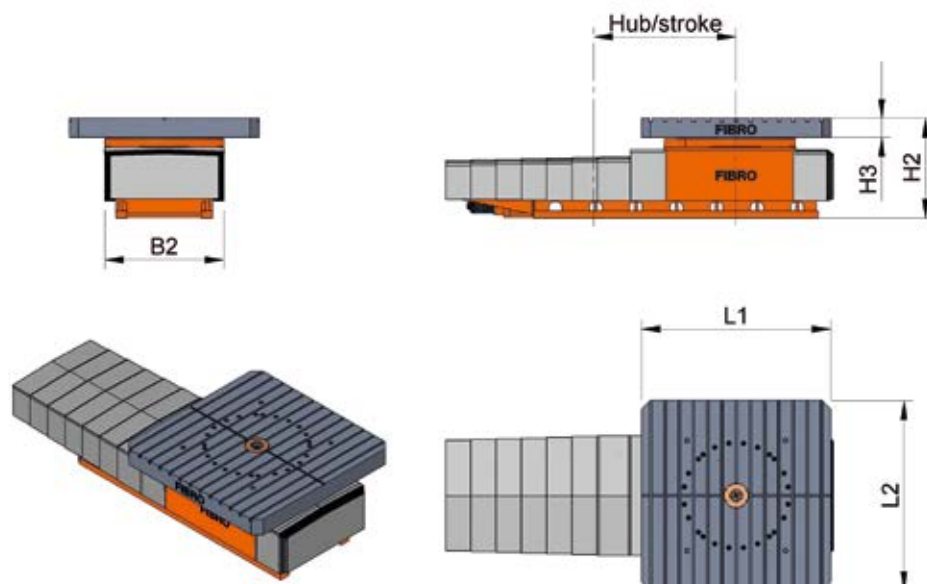
# FIBROMAX

THE MOST IMPORTANT DATA AT A GLANCE.

FIBROMAX Rotary tables		SLR.1250	SLR.1800	SLR.2500	SLR.3200	
Transport load	t	25	50	100	400	
<b>Main dimensions</b>						
Table top, round, from	D1	mm	1250	1800	2500	3200
Table top, rectangular, from	L1	mm	1250	1800	2500	3200
Table top, rectangular, from	L2	mm	1250	1800	2500	3200
Thickness of table top	H3	approx. 10 % of D resp. approx. 10 % of (L1+L2)/2				
Rotary table with smallest table top	H1	mm	630	695	795	1055
Bearing O.D.		mm	1130	1630	2300	2684
Housing width	B1	mm	1250	1800	2500	3320
<b>Capacities</b>						
Axial load, table top	kN	300	600	1200	4400	
Tilting moment	kNm	129	180	250	1981	
Torque, table top	kNm	20,4	27,9	52	150	
Tangential moment at hydraulic clamp pressure 75 bar	kNm	51	110	240	278	
<b>Accuracies</b>						
Positioning accuracy	depending on control and measuring systems: $\pm 2''$					
Radial concentricity	mm	0,01	0,01	0,01	0,015	
Axial runout	mm	0,015	0,015	0,015	0,02	
<b>Drive data</b>						
Table top speed	rpm	5,6	3,6	2,4	1	



FIBROMAX Rotary tables		SLR.DV.1250	SLR.DV.1800	SLR.DV.2500	SLR.DV.3200	
<b>Transport load</b>	t	25	50	100	400	
<b>Main dimensions</b>						
<b>Table top, round, from</b>	D1	mm	1250	1800	2500	3200
<b>Table top, rectangular, from</b>	L1	mm	1250	1800	2500	3200
<b>Table top, rectangular, from</b>	L2	mm	1250	1800	2500	3200
<b>Thickness of table top</b>	H3		approx. 10 % of D resp. approx. 10 % of (L1+L2)/2			
<b>Overall height, incl. rotary table with standard table top</b>	H2	mm	975	1060	1180	1485
<b>Bearing O.D.</b>		mm	1130	1650	2300	2684
<b>Total width, sliding unit B</b>	B2	mm	1250	1800	2500	3305
<b>Capacities</b>						
<b>Axial load, table top</b>	kN	300	600	1200	4400	
<b>Tilting moment</b>	kNm	129	180	250	1981	
<b>Torque, table top</b>	kNm	20,4	27,9	52	150	
<b>Tangential moment at hydraulic clamp pressure 75 bar</b>	kNm	51	110	260	278	
<b>Axial force on ball screw</b>	kN	25	25	40	50	
<b>Lateral force on linear axis</b>	kN	348	442	885	3630	
<b>Number of slideways</b>						
		2	3	4	6	
<b>Accuracies</b>						
<b>Positioning accuracy</b>		depending on control and measuring systems: $\pm 2''$				
<b>Positioning accuracy linear axis</b>	mm	0,02	0,02	0,02	0,02	
<b>Drive data</b>						
<b>Table top speed</b>	rpm	5,6	3,6	2,4	1	
<b>Travelling speed, linear axis</b>	m/min	15	15	12	10	



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