FIBROMAX

Heavy-duty NC rotary tables

Heavy-duty NC rotary-linear tables

FIBRO

FIBRO rotary tables move up to...

FIBRO rotary tables are used in almost all branches of industry.

The high degree of vertical integration at FIBRO, an extensive product range and innovative engineering guarantee the users of our products that with a FIBRO rotary table they will always have a highly accurate and reliable high-tech component.

From machine tool manufacturer through contract manufacturer and parts supplier to highly automated assembly and production operations: When selecting the right rotary table solution, the decision is based on criteria such as indexing time, transported load, clamping area, positioning accuracy and manufacturing environment.

FIBROMAX SLR NC rotary table for transported weights *from 35 to 140 t and table Ø from 1450 mm*

For machining as well as other production operations, FIBRO offers a selection of 4 different drive principles and over 80 standard models to meet any customer's individual requirements.

FIBRO: We have your rotary table.

...140 t with an accuracy in the µm range.

For flexible positioning in conjunction with rotary motion and simultaneous multi-axis machining of heavy loads, **FIBROMAX** NC rotary and rotary-linear tables offer the ideal characteristics and the associated benefits.

- Flexible positioning with an accuracy of ± 2 seconds of arc
- High repeatability in terms of radial and axial concentricity in the µm range
- Absorption of radial and axial forces by preloaded, heavy-duty combination radial/thrust bearings
- Increased tangential forces and reduced loads on gears through hydraulic table top clamping

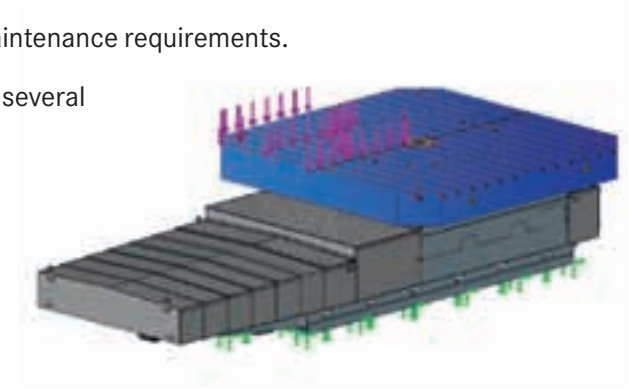
FIBROMAX SLR.DV.17 NC rotary-linear table *for a transported load of up to 70 t and table top of 2000 x 2000 mm*

- 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

It’s a matter of force and precision.

Not new, but still true: The sum of the individual parts is greater than the whole.

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.

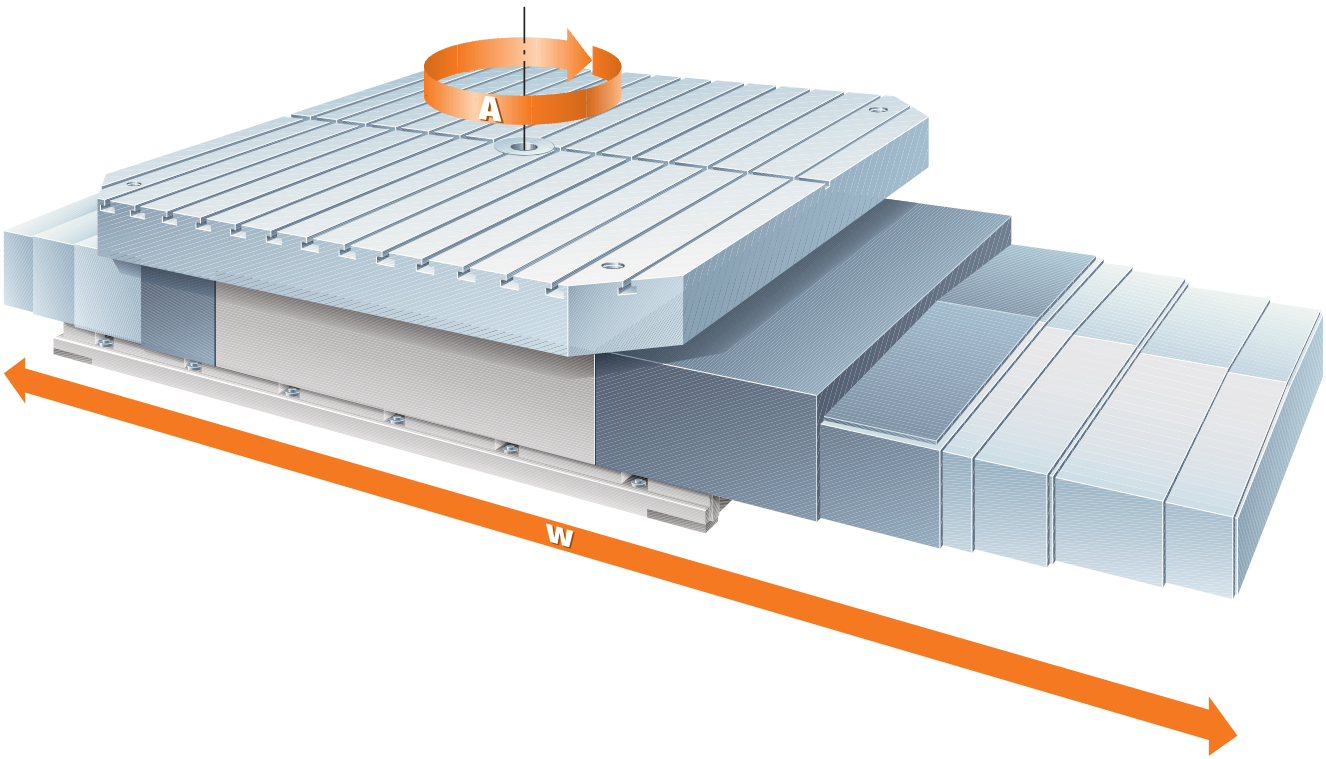


Radial concentricity, axial runout and repeatability in the µm range

FIBRO’s flow-of-force design ensures maximum rigidity

Axial load up to 1400 kN, torque up to 83 kNm

High-precision roller bearings in the rotary table and optimised ways for the linear axis



Finite-element calculation ensures thermal and mechanical integrity

Absolutely backlash-free operation thanks to the FIBRO Twin Drive

Hydraulic clamping for high tangential force

Mechanical roller bearings save time and energy when traversing and pivoting

And numerous fields of application.

***Stand-alone FIBROMAX rotary-linear tables** in gantry milling machines for 5-axis machining of large workpieces*

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

Whether as a stand-alone 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. **FIBRO: We have your rotary table.**

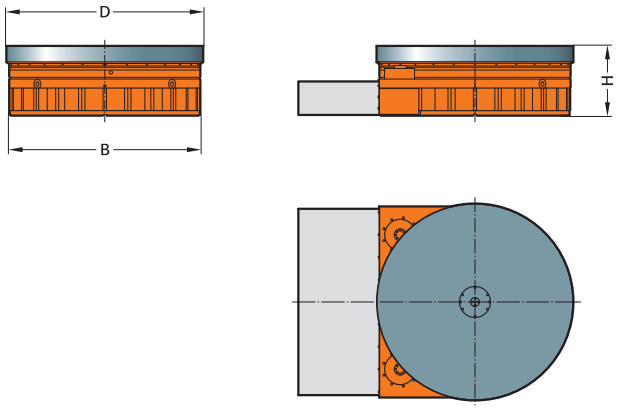
***FIBROMAX rotary table** as the 4th axis in a gantry milling machine for machining of any kind of large part*

The most important data at a glance.*

FIBROMAX rotary table			SLR.14	SLR.17	SLR.21	SLR.26
Transported load		t	up to 50	up to 70	up to 100	up to 140
Main dimensions						
Table top round/square/rectangular	D	mm	from 1450	from 1750	from 2150	from 2600
Standard overall height	H	mm	620	620	720	800
Bearing O.D.		mm	1252	1552	1802	2352
Enclosure width		mm	1405	1705	2105	2605
Capacities						
Axial load, table top*		kN	350	550	700	1100
Tilting moment*		kNm	115	180	277	463
Torque, table top*		kNm	16	39	44	83
Tangential moment at hydraulic clamp pressure of 64 bar		kNm	50	85	140	230
Accuracies						
Positioning accuracy			depending on control and measuring systems: ±2˝			
Radial concentricity		mm	0.01	0.01	0.015	0,015
Axial runout		mm	0.02	0.025	0.03	0,03
Drive data						
Table top speed* (standard)		rpm	7	3.5	3	1,7

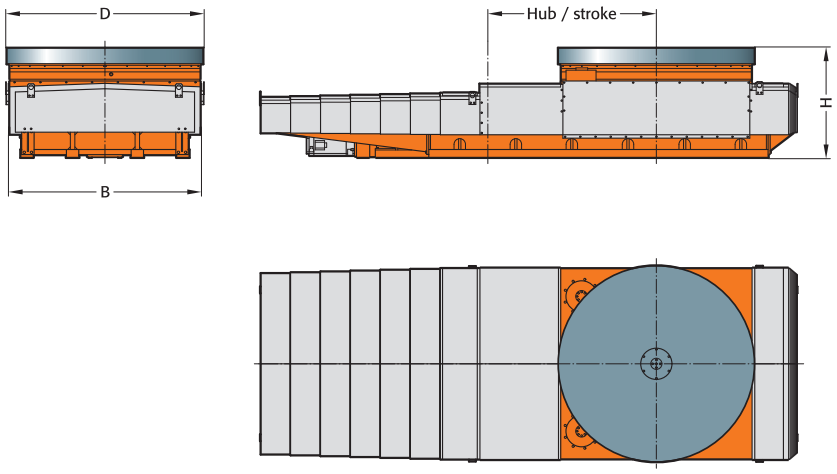
*Speed, transported load and acceleration time depend on the moment of inertia and motor used (type and make). Values for standard table top.

***Detailed data for specific planning can be found in the separate “FIBROMAX Data Sheet” at www.fibro.com**



FIBROMAX rotary-linear table			SLR.DV.14	SLR.DV.17	SLR.DV.21	SLR.DV.26
Transported load		t	up to 50	up to 70	up to 100	up to 140
Main dimensions						
Table top round/square/rectangular	D	mm	from 1450	from 1750	from 2150	from 2600
Travel along linear axis in 500 mm increments						
Total width, sliding unit	B	mm	1405	1705	2105	2605
Overall height, incl. rotary table with						
Standard overall height	H	mm	980	980	1120	1200
Bearing O.D.		mm	1252	1552	1802	2352
Capacities						
Axial load, table top*		kN	350	550	700	1100
Tilting moment*		kNm	115	180	277	310
Torque, table top*		kNm	16	39	44	83
Tangential moment at hydraulic clamp pressure of 64 bar		kNm	50	85	140	230
Axial force on ball screw		kN	20	40	40	40
Lateral force on linear axis		kN	400	600	600	600
Number of slideways			3	4	4	4
Accuracies						
Positioning accuracy			depending on control and measuring systems: ±2˝			
Radial concentricity		mm	0.01	0.01	0.015	0,015
Axial runout		mm	0.02	0.025	0.03	0,03
Positioning accuracy linear axis		mm	0.02	0.02	0.02	0,02
Drive data						
Table top speed*		rpm	7	3.5	3	1,7
Travelling speed, linear axis		m/min	12	12	12	10

*Speed, transported load and acceleration time depend on the moment of inertia and motor used (type and make).
Values for standard table top.



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