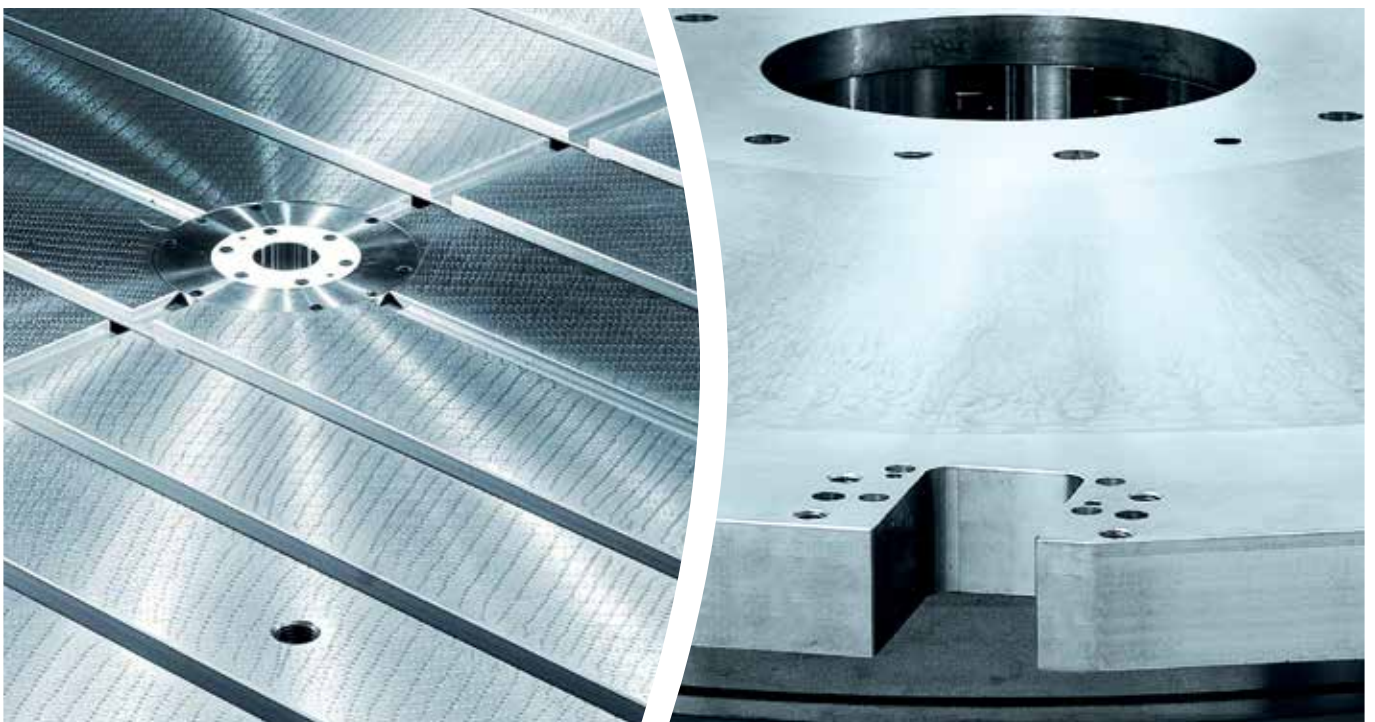


THE WORLDWIDE PIONEER IN

ROTARY TABLES





Roto*Cutting* **ROTARY TABLES FOR MACHINE TOOLS**

FIBROPLAN®

NC rotary tables with worm drive

FIBROMAX®

Heavy duty NC rotary tables with twin-drive

FIBRODYN® DA

Highly dynamic NC rotary tables with direct torque drive

FIBROTAKT®

Precision rotary tables with Hirth face gearing

CUSTOM SOLUTIONS

Customer-specific rotary tables



Roto*Motion* **ROTARY TABLES FOR AUTOMATION SYSTEMS**

FIBROTOR®

Universal rotary tables with cam drive

FIBROMAT®

Heavy-load positioning tables

FIBRODYN® DM

Direct driven high-speed rotary tables

CUSTOM SOLUTIONS

Custom-made automation solutions

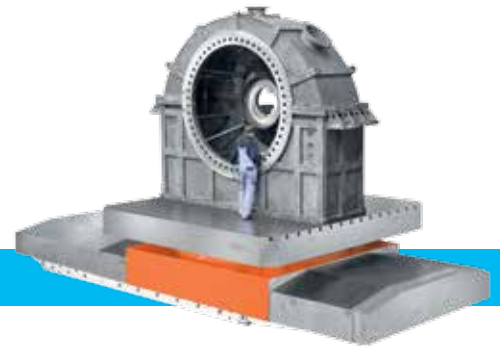
MOST COMPREHENSIVE ROTARY TABLE RANGE FROM A SINGLE SOURCE

We offer the most comprehensive range of rotary tables worldwide from a single source. After starting out in 1960 with a pneumatic rotary table, the range has since grown to now comprise more than 150 different rotary table types.

Our rotary tables are deployed as swivelling & positioning axes, as workpiece carriers in machine tools, and in the field of assembly work. Tens of thousands of rotary table units around the globe are now integrated in high-productivity machines as major components. The quality, the powerful technology and the broad product range serve to greatly satisfy the requirements of our customers.

With its international alignment, FIBRO is your production partner and is competent in resolving problems in rotary table and NC applications across the globe. Our experts are available to you in and beyond the planning phase of projects.

ROTARY TABLES FOR THE USE IN MACHINE TOOLS



FIBROPLAN®

**NC rotary tables with
worm drive**

Your application

- > All-rounder for the most diverse applications
- > Available as single or multi-axis combination
- > Transport loads up to 20 tons
- > Ideal for circular milling and simultaneous machining
- > Extremely broad range of table top diameters (160 - 3000 mm)

Your benefits

- > Worm drive (with adjustable play) for highest drive torques and lowest backlash
- > Extremely low design for maximum operating area
- > Design with force distribution optimisation for highest rigidity
- > Pre-stressed axial/radial bearing for highest resistance to tilt and best axial runout accuracy and concentricity
- > High-resolution encoder for excellent positioning accuracy (up to $\pm 2''$) and repeat accuracy (up to $\pm 0.25''$)
- > Hydraulic table top clamping for highest tangential rigidity without loading the drive components
- > Tried and tested over decades, renowned for best possible operational safety

FIBROMAX®

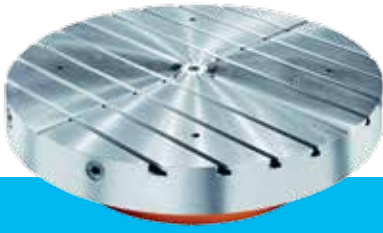
**Heavy duty NC rotary tables
with twin-drive**

Your application

- > Transport loads over 400 tons
- > Positioning as well as circular and simultaneous multi-axis machining
- > Available in the modular system as a stand-alone rotary table and as a rotary-linear-table
- > With additional tilting axis, perfectly suitable for machining wind turbine hubs

Your benefits

- > Roller bearing for highest cost-effectiveness and minimal energy consumption with lowest temperature rise
- > Twin-drive for highest precision and low backlash
- > Design with force distribution optimisation for highest rigidity
- > Pre-stressed, largely dimensioned axial/radial bearing for highest resistance to tilt and best axial runout accuracy and concentricity
- > Highest geometric accuracy in the μ range
- > High-resolution encoder for excellent positioning accuracy (up to $\pm 2''$) and repeat accuracy (up to $\pm 0.25''$)
- > Hydraulic table top clamping for highest tangential rigidity without loading the drive components



FIBRODYN® DA

Highly dynamic NC rotary tables with direct torque drive

Your application

- > Highest speeds and accelerations
- > Diverse operating modes without spanning: Positioning mode, rotary, circular and simultaneous machining
- > Suitable for applications not permitting any backlash
- > Highest machining accuracies at extremely low speeds

Your benefits

- > Highest dynamics for extremely fast positioning times
- > High-precision bearings for perfect concentric and axial runout
- > Integrated motor to prevent interference contours
- > Without gear parts to minimise damage in the event of collisions
- > High-resolution encoder for excellent positioning accuracy (up to $\pm 2''$) and repeat accuracy (up to $\pm 0.25''$)
- > Hydraulic table top clamping for highest tangential rigidity
- > Compatible with the FIBROPLAN® model as an upgrade option for fastest acceleration without additional design overhead

FIBROTAKT®

Precision rotary table with Hirth face gearing

Your application

- > For precision positioning applications up to $\pm 1''$, repeat accuracy up to $\pm 0.1''$
- > No NC controller required
- > Hydraulically, electrically or pneumatically driven and controlled
- > Also available as a built-in variant for integrated machine designs, e.g. custom rotary indexing table machines

Your benefits

- > Precision FIBRO face gearing for best geometric accuracies
- > Hydraulic locking of the face gearing for highest resistance to tilt
- > Flat design for maximum operating area
- > Sturdy, wear-resistant design for long service life with low maintenance overhead
- > Extremely broad spectrum of sizes, fittable with table top diameters up to 3000 mm
- > Transport loads up to 15 tons
- > Tried and tested over decades: The pioneer amongst rotary tables for reliable process deployment in your production process

CUSTOM SOLUTIONS

Customer-specific rotary tables

Your application

- > Tailor-made rotary table solutions especially for your application, e.g.
 - > Rotary table multi-axis combinations
 - > Planetary tables
 - > Built-in rotary tables
 - > Rotary-linear tables
 - > Stand-alone rotary tables

Your benefits

- > Lowest tooling times with the most flexible positioning and machining capabilities
- > The best of all our rotary tables combined into one solution
- > From problem-solving to delivery – everything from a single source
- > Many years of FIBRO expertise in the engineering and design of custom rotary table solutions for highest flexibility and process reliability
- > Highest level of production expertise in conjunction with a comprehensive range of machinery
- > Alignment to interfaces and machine concepts required by the customer

ROTARY TABLES FOR THE USE IN AUTOMATION SYSTEMS



FIBROTOR®

Universal rotary tables with cam drive

Your application

- > Universal positioning applications, e.g. for assembly, packaging, printing, labelling or riveting applications
- > Broad range of storage, transport and feed tasks
- > General drive applications, e.g. as a drive of discontinuous belts or as a shift gearbox
- > Available as an NC or indexing variant

Your benefits

- > Three standard types – the right one for any task:
 - > FIBROTOR® EM – for precision, custom requirements
 - > FIBROTOR® ER – for fastest possible delivery times with highest level of standardisation
 - > FIBROTOR® RT – as a ring table with large centre through-hole
- > Largely dimensioned axial needle bearing for highest transport loads
- > Cam rollers with contact bearings for highest rigidity
- > Hardened radial cams for optimal motion sequence and best power transmission
- > With hydraulic clamping and reinforced table top support, suitable for light cutting tasks
- > Available with many additional options for an array of add-on and deployment applications
- > Sturdy design with long-term lubrication for minimal maintenance and longest service life

FIBROMAT®

Heavy-load positioning tables

Your application

- > For the dynamic and precise positioning of large and heavy fixtures and parts
- > For superstructural parts up to 9500 mm
- > Ideal for shell and welded design applications
- > Deployable as a setup station, largeformat pallet exchanger and for general handling tasks
- > Available as an NC or indexing variant

Your benefits

- > Heavy-duty positioning table with very large centre hole and extremely flat design
- > Lubricated for life and maintenance-free for highest process reliability
- > Perfect power cut and emergency stop behaviour through drive with spur gear toothing
- > Available with many additional options
 - > Indexing unit for indexing accuracy of max. $\pm 15''$ for freely selectable angles
 - > Direct measuring system and additional drive for highest indexing accuracy up to $\pm 5''$
 - > Cross roller bearing for particularly high tilting moments
 - > Machine stands and adaptations for replacement of existing rotary tables
 - > Special connecting dimensions and specific drilling templates for your individual application



NEW

FIBRODYN® DM

Direct driven high-speed rotary tables

Your application

- > For extremely quick positioning in automation systems
- > Highest positioning and repeat accuracy
- > Maximum flexibility for application and product conversions
- > Universal deployment for the most diverse of applications

Your benefits

- > Highest dynamics and productivity with extremely fast positioning times
- > Easy to use thanks to intuitive operating software program
- > Integrated control and plug-in cable connection for logic and power supply
- > Slim and very space-saving design
- > Large center hole
- > Energy-efficient design without the use of additional cooling units

CUSTOM SOLUTIONS

Custom-made automation solutions

Your application

- > Tailor-made rotary table automation solutions specially for your application, e.g.
 - > Complete solutions
 - > Rotary table multi-axis combinations
 - > Machine stands and additional table tops
 - > Workpiece seats and fixtures
 - > Environment designs, e.g. protective housings

Your benefits

- > Lowest tooling times with the most flexible positioning and handling capabilities
- > The best of all our rotary tables combined into one solution
- > From problem-solving to delivery – everything from a single source
- > Many years of FIBRO expertise in the engineering and design of custom rotary table solutions for highest flexibility and process reliability
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FIBRO GMBH**A COMPANY IN THE LÄPPLE-GROUP**

Geschäftsbereich Rundtische
Weidachstraße 41-43
D-74189 Weinsberg
T +49 7134 73-0
F +49 7134 73-218
info@fibro.de
www.fibro.com

- **LÄPPLE AUTOMOTIVE**
- **FIBRO**
- **FIBRO LÄPPLE TECHNOLOGY**
- **LÄPPLE AUS- UND WEITERBILDUNG**

BRANCH OFFICE**FIBRO GmbH**

Geschäftsbereich Rundtische
Brüggbühlstraße 70
CH-3172 Niederwangen b. Bern
T +41 31 981 07 52
F +41 31 981 07 53
sales.ch@fibro.com

FIBRO Inc.

Business Area Rotary Tables
139 Harrison Avenue
US-Rockford, IL 61104
T +1 815 229 13 00
F +1 815 229 13 03
info@fibroinc.com

FIBRO France SARL

Département Plateaux Diviseurs
26 Avenue de l'Europe
FR-67300 Schiltigheim
T +33 390 20 40 41
F +33 388 81 08 29
info@fibro.fr

**FIBRO INDIA PRECISION
PRODUCTS PVT. LTD.**

Regd. Office & Works
Plot: A-55, Phase II,
Chakan MIDC, Taluka Khed
410501 Pune
T +91 2135 33 88 00
F +91 2135 33 88 88
info@fibro-india.com

**FIBRO (SHANGHAI) STANDARD
PARTS CO., LTD.**

2nd Floor, Building 30, No. 188,
He Dan Road, (Shanghai) Pilot Free
Trade Zone
200131 Shanghai
T +86 021 6083 1589
F +86 021 6083 1599
info@fibro-china.com

FIBRO ASIA PTE. Ltd.

9 Changi South Street 3, #07-04
Singapore 486361
T +65 65 4399 63
F +65 65 4399 62
info@fibro-asia.com