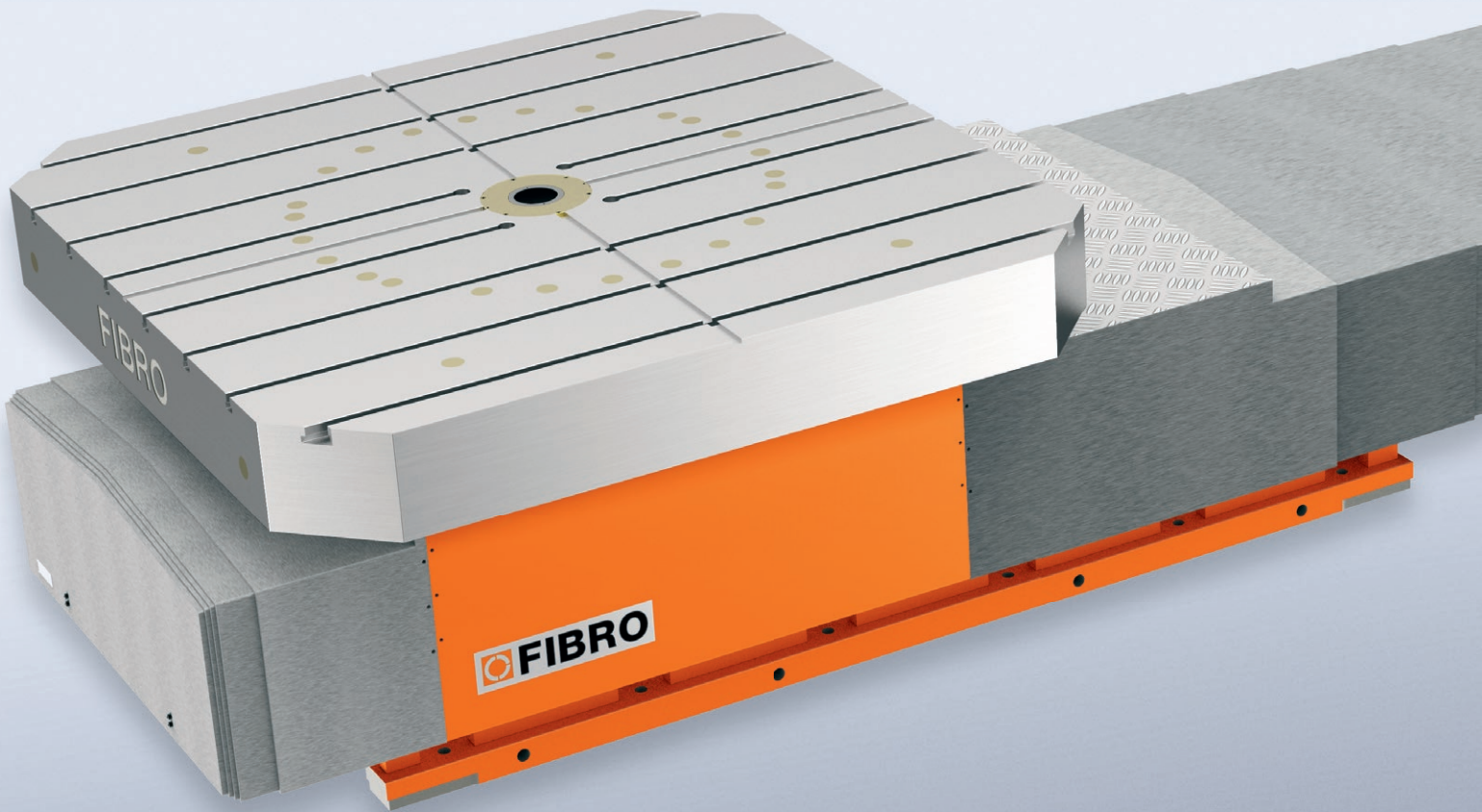


WE LOVE TECHNOLOGY



HEAVY-DUTY NC ROTARY TABLES
WITH TWIN DRIVE
FIBROMAX®



ROTOCUTTING

Rotary Tables for Machine Tools

MEMBER OF THE LÄPPLE GROUP





FORCE AND PRECISION FLEXIBLE USE

FIBRO ROTARY TABLES ARE KNOWN FOR THEIR RIGID MECHANICAL DESIGN, PERFECTLY MATCHED DRIVE AND CONTROL TECHNOLOGY AS WELL AS LOW MAINTENANCE REQUIREMENTS.

Every day, large individual workpieces or several clamping fixtures holding heavy weights can be accurately positioned and machined with maximum precision in 3, 4 or 5 axes simultaneously on FIBROMAX® tables.

Standard or individual solutions – your production must be running at its best

Whether a free-standing rotary-linear table in a lateral/gantry (portal) milling centre or an integrated rotary table: the particular design of your FIBROMAX® table offers you the flexibility demanded by your range of workpieces. The FIBRO engineering department will be glad to provide you with fast and competent consultation whenever the technical requirements and production-specific circumstances require more than just a standard solution.

ACCURACY IN THE µM RANGE MOVE UP HEAVIEST LOADS

THE EXPERT AND ROTARY-TABLE PIONEER FIBRO BASED IN WEINSBERG, GERMANY PRESENTS THE NEW FIBROMAX® SERIES: A COMPLETELY REVISED SERIES OF ITS XXL ROTARY DISPLACEMENT SERIES.

Heavy-duty NC rotary tables with twin drive

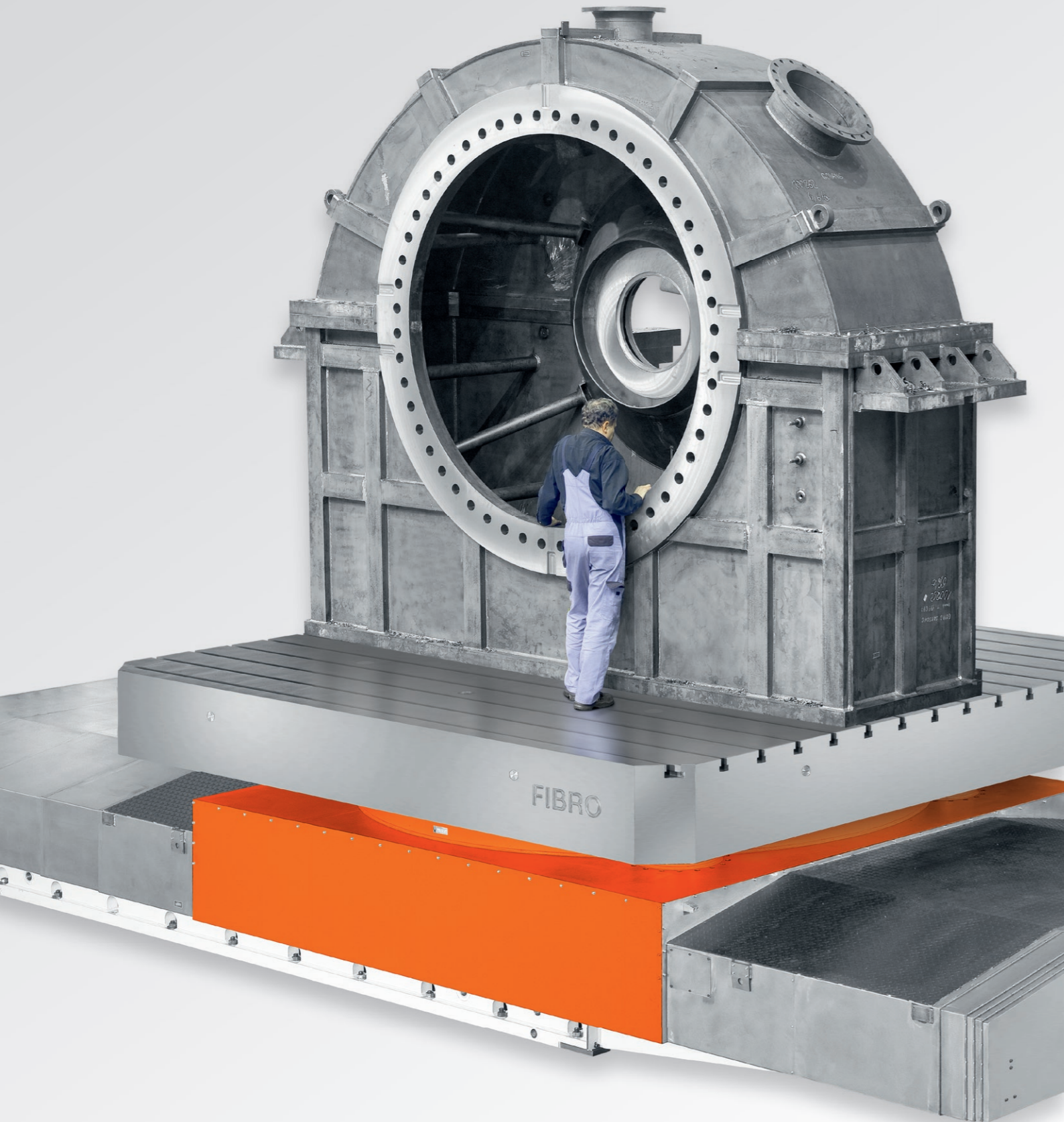
Compared to the first generation, the bearing diameter and thus the rigidity of the heavy-load positioner has increased significantly, while the costs remain virtually the same. The continuously ever-increasing requirements regarding the construction of wind power plants, roller bearings, turbines, gearbox cases and construction machines were the reasons for the new heavy-load design.

Rotary tables with table top dimensions of 3×3 metres and transport loads of up to 55 tons have become the standard at FIBRO. Its heavy-duty tables provide a positioning accuracy of

± 2 arc seconds. The axial run-out and radial concentricity are in a range of a few hundredths of a millimetre. In addition, with the FIBROMAX® series, a very large-dimensioned and highly precise roller bearing provides for maximum rigidity and thus highest precision during processing.

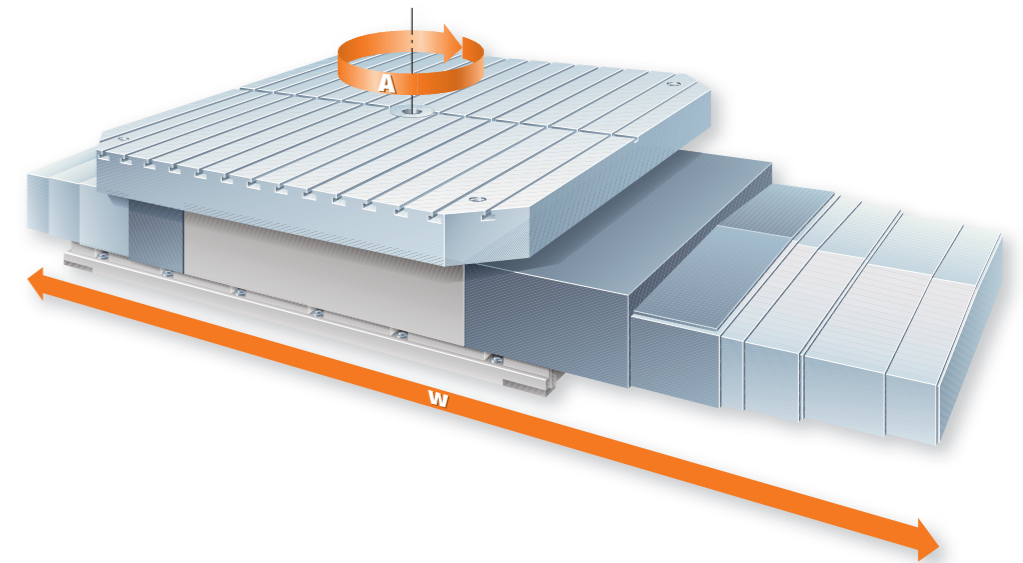
When in a positioned state, a hydraulic table top clamp increases the tangential torque and relieves the gear. The preloaded bearing and a play-free twin drive also provide ideal conditions for circular milling and simultaneous machining. FIBROMAX® provides maximum process stability at minimum maintenance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

OUR TECHNICAL HIGHLIGHTS YOUR COMPETITIVE EDGE

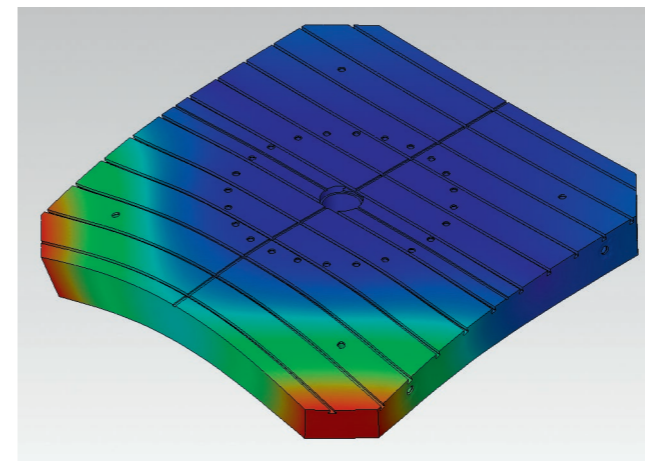


TECHNICAL HIGHLIGHTS

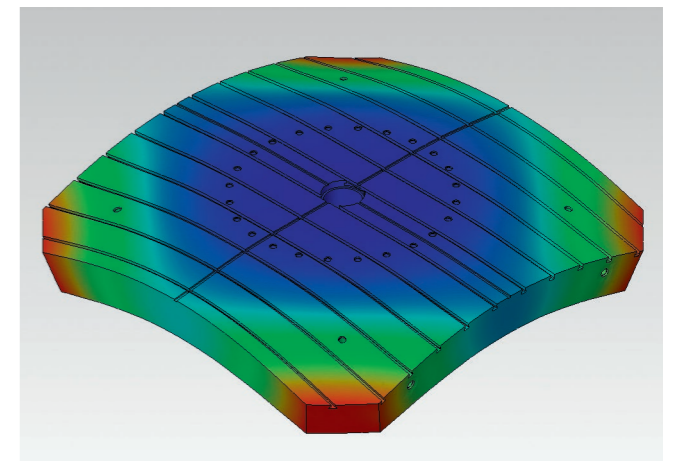
- Flexible positioning with an accuracy of ± 2 arc seconds
- High repeatability in terms of radial and axial concentricity in the μm range
- Absorption of radial and axial forces by preloaded, heavy-duty axial-radial bearing combination
- Increased tangential forces and reduced loads on gears through 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 design for greater flexibility
- Greater profitability from tested reliability, reduced maintenance expenses, longer service life and low energy consumption
- Axial load up to 600 kN, torque up to 27.9 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
- Mechanical roller bearings save time and energy when traversing and pivoting



OPTIMISED DESIGN DUE TO FEM



Deflection with asymmetric load



Deflection with symmetric load

CONSTRUCTION TYPE

THE MOST IMPORTANT DATA

SLR.1250 SLR.1800

Transport load, without weight of table top	t	25	55
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Main dimensions

Table top, round, from	D1	mm	1,250	1,800
Table top, rectangular, from	L1	mm	1,250	1,800
Table top, rectangular, from	L2	mm	1,250	1,800
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
Bearing O.D.		mm	1,130	1,630
Housing width	B1	mm	1,250	1,800

Capacities

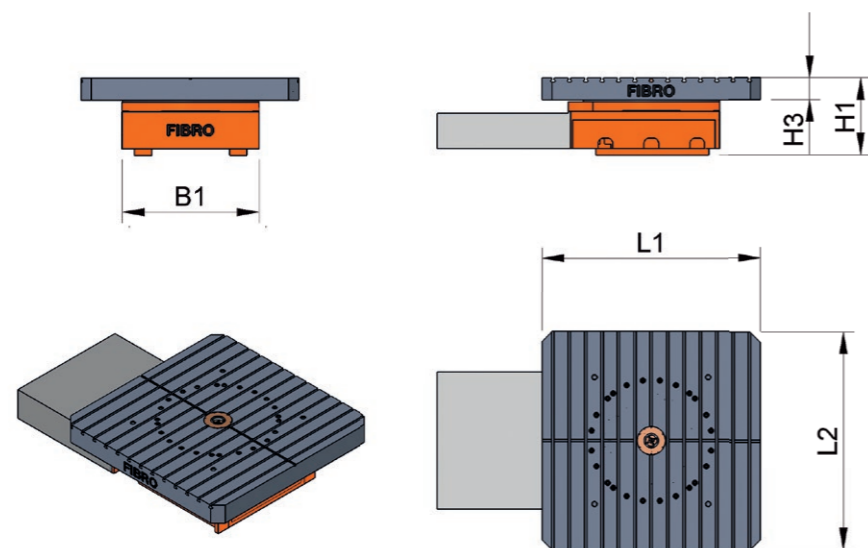
Axial load, table top	kN	300	600
Tilting moment	kNm	129	180
Torque, table top S1	kNm	20.4	27.9
Tangential moment at hydraulic clamp pressure 75 bar	kNm	51	110

Accuracies

Positioning accuracy (in arc seconds)		depending on control and measuring systems: ± 2	
Radial concentricity	mm	0.01	0.01
Axial runout	mm	0.015	0.015

Drive data

Table top speed	rpm	5.6	3.6
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SLR.DV.1250 SLR.DV.1800

Transport load, without weight of table top	t	25	55
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Main dimensions

Table top, round, from	D1	mm	1,250	1,800
Table top, rectangular, from	L1	mm	1,250	1,800
Table top, rectangular, from	L2	mm	1,250	1,800
Thickness of table top	H3		approx. 10% of D resp. approx. 10% of (L1+L2)/2	
Overall height, incl. rotary table with stand. table top	H2	mm	975	1,060
Bearing O.D.		mm	1,130	1,650
Total width, sliding unit	B2	mm	1,250	1,800

Capacities

Axial load, table top	kN	300	600
Tilting moment	kNm	129	180
Torque, table top S1	kNm	20.4	27.9
Tangential moment at hydraulic clamp pressure 75 bar	kNm	51	110
Axial force on ball screw	kN	25	25
Lateral force on linear axis	kN	348	442

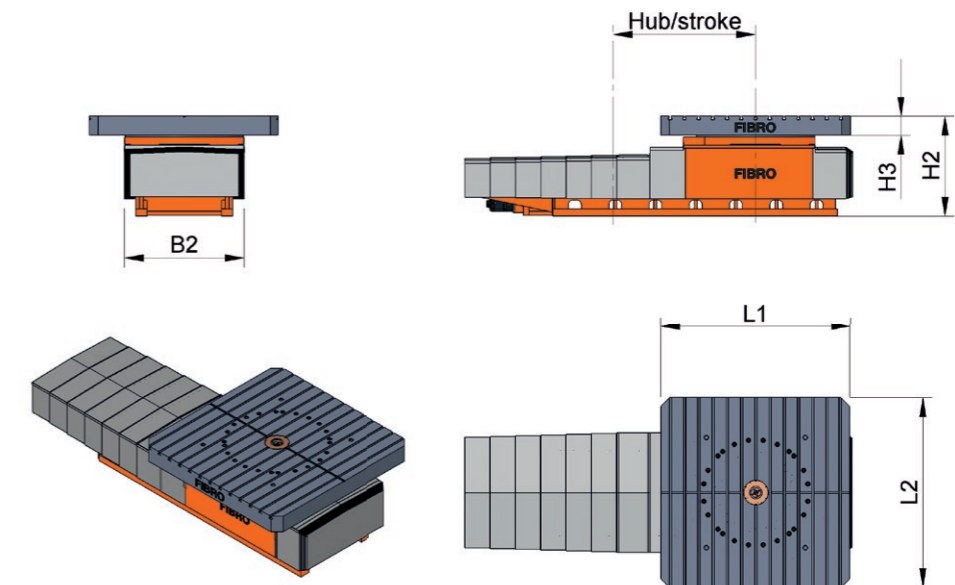
Number of slideways		2	3
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Accuracies

Positioning accuracy (in arc seconds)		depending on control and measuring systems: ± 2	
Positioning accuracy linear axis	mm	0.02	0.02

Drive data

Table top speed	rpm	5.6	3.6
Travelling speed, linear axis	m/min	15	15



FIBRO GMBH

THE LÄPPLE GROUP

Business Unit Rotary Tables
Weidachstraße 41-43
74189 Weinsberg
GERMANY
T +49 7134 73-0
info@fibro.de
www.fibro.com

LÄPPLE AUTOMOTIVE
FIBRO
FIBRO LÄPPLE TECHNOLOGY
LÄPPLE AUS- UND WEITERBILDUNG

BRANCH OFFICES

FIBRO FRANCE SARL

26 Avenue de l'Europe
67300 Schiltigheim
FRANCE
T +33 390 204040
info@fibro.fr
www.fibro.com

FIBRO INC.

139 Harrison Avenue
Rockford, IL 61104
USA
T +1 815 2291300
info@fibroinc.com
www.fibroinc.com

FIBRO ASIA PTE. LTD.

9 Changi South Street 3, #07-04
Singapore 486361
SINGAPORE
T +65 65 439963
info@fibro-asia.com
www.fibro.com

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

Plot No: A-55, Phase II, Chakan Midc,
Taluka Khed, Pune – 410 501
INDIA
T +91 2135 33 88 00
info@fibro-india.com
www.fibro-india.com

LÄPPLE (TAICANG)**INDUSTRIAL TECHNOLOGY CO., LTD.**

Bldg. No. 15, Industrial Park, No. 103
Chenmenjing road, Chengxiang Town,
215400, Taicang, Jiangsu Province, P.R.C.
T +86 512 8060 7979
info@fibro.cn
www.fibro.com