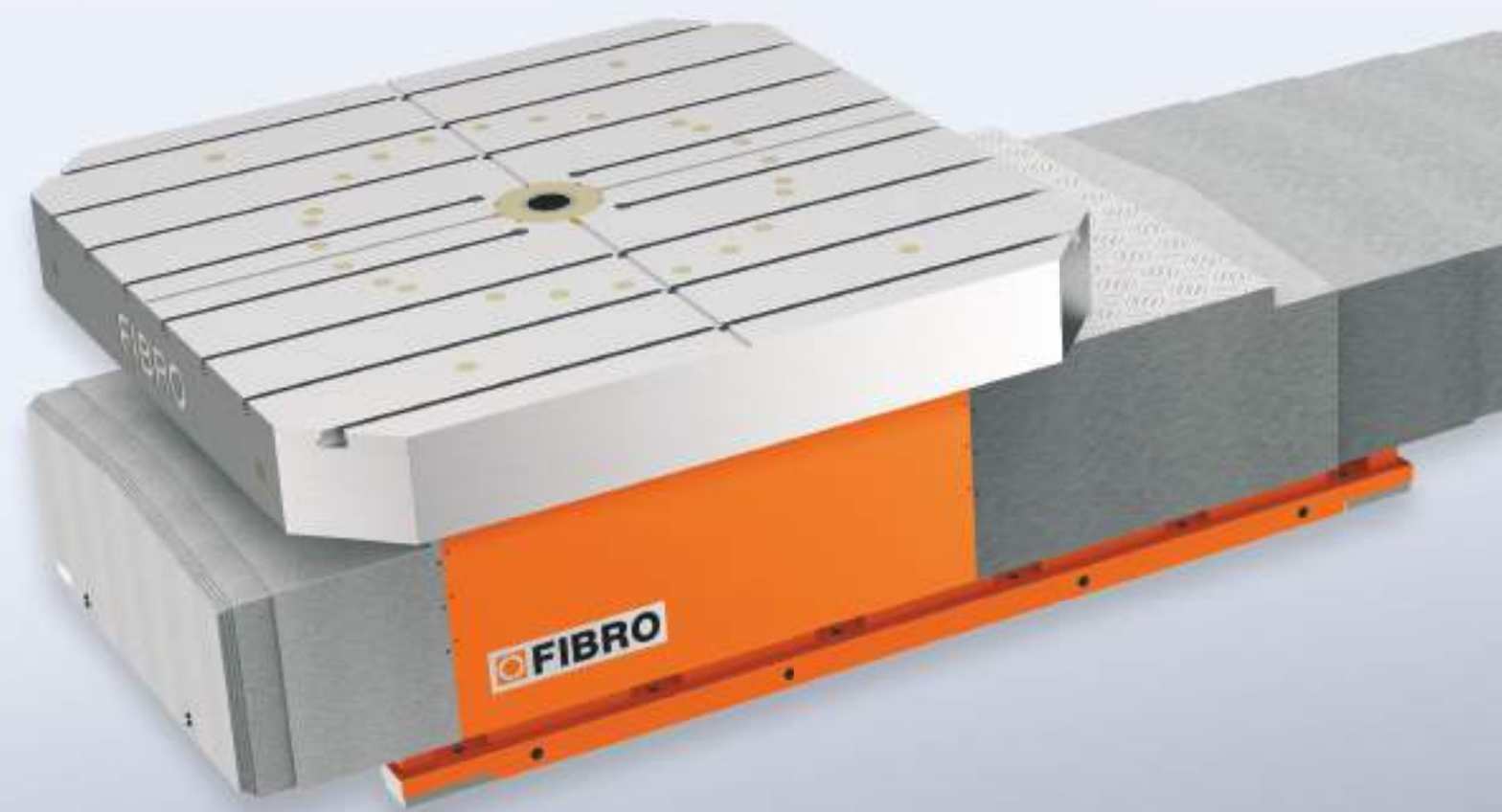
WE LOVE TECHNOLOGY FIBRO

HEAVY-DUTY NC ROTARY TABLES WITH TWIN DRIVE **FIBROMAX®**



ROTO**CUTTING**

Rotary Tables for Machine Tools

yukme.com.mx tel: (722) 217 2236 info@yukme.com.mx

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 TO 400 T

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.

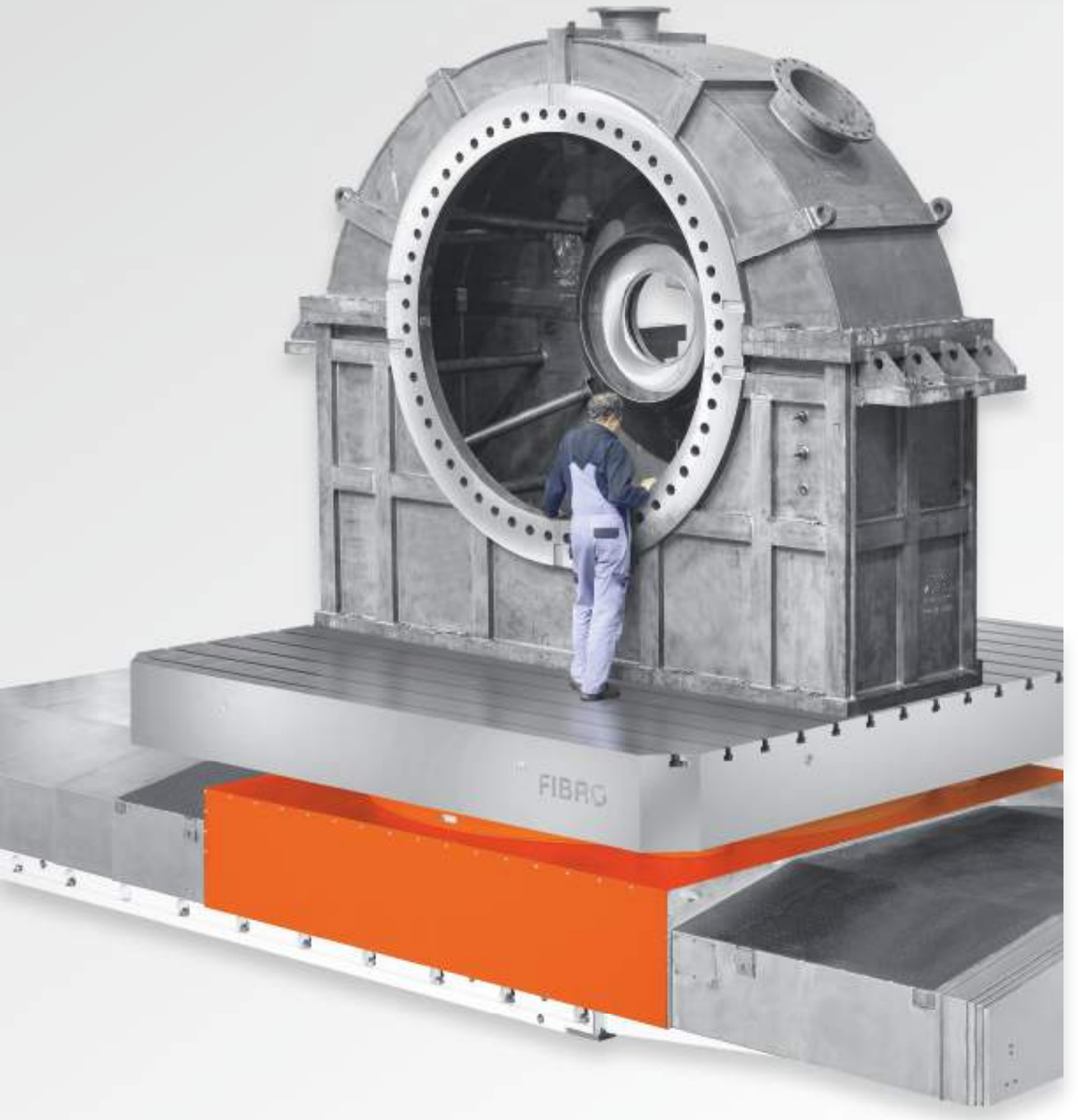
Heavy-duty NC rotary tables with twin drive

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 for workpiece sizes of 4 × 4 metres and transport loads of up to 400 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 new FIBROMAX® series, a very large-dimensioned and highly precise roller bearing provides for maximum rigidity and thus highest precision during processing.

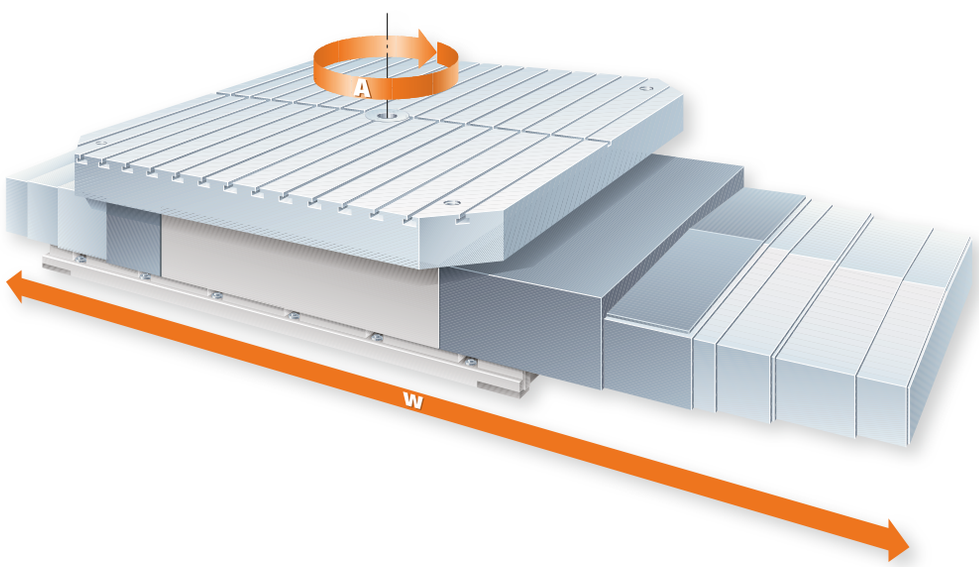
When in a positioned state, a hydraulic table top clamp increases the tangential torque and relieves the gear. The preloaded bearing and a play-free twin drive also provide ideal conditions for circular milling and simultaneous machining. FIBROMAX® provides maximum process stability at minimum maintenance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

OUR TECHNICAL HIGHLIGHTS
YOUR COMPETITIVE EDGE

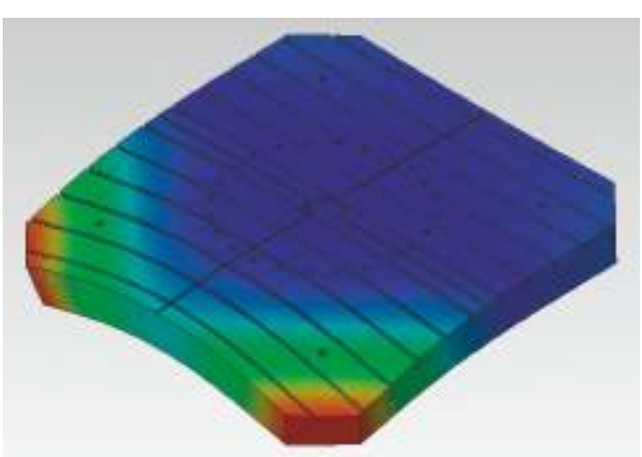


TECHNICAL HIGHLIGHTS

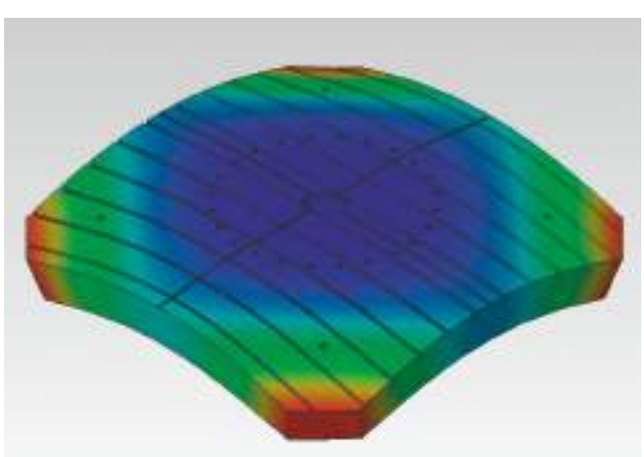
- Flexible positioning with an accuracy of ± 2 arc seconds
- High repeatability in terms of radial and axial concentricity in the µm range
- Absorption of radial and axial forces by preloaded, heavy-duty axial-radial bearing combination
- Increased tangential forces and reduced loads on gears through 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 4,000 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
- Mechanical roller bearings save time and energy when traversing and pivoting



OPTIMISED DESIGN DUE TO FEM



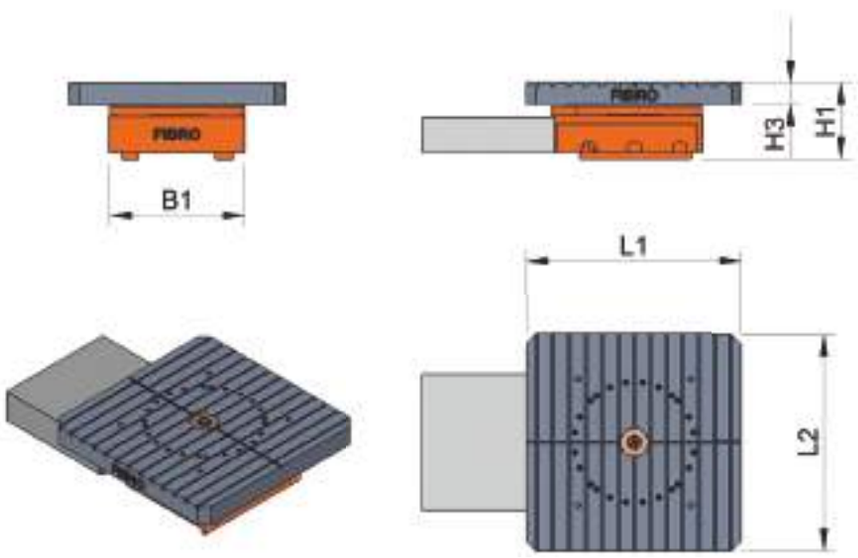
Deflection with asymmetric load



Deflection with symmetric load

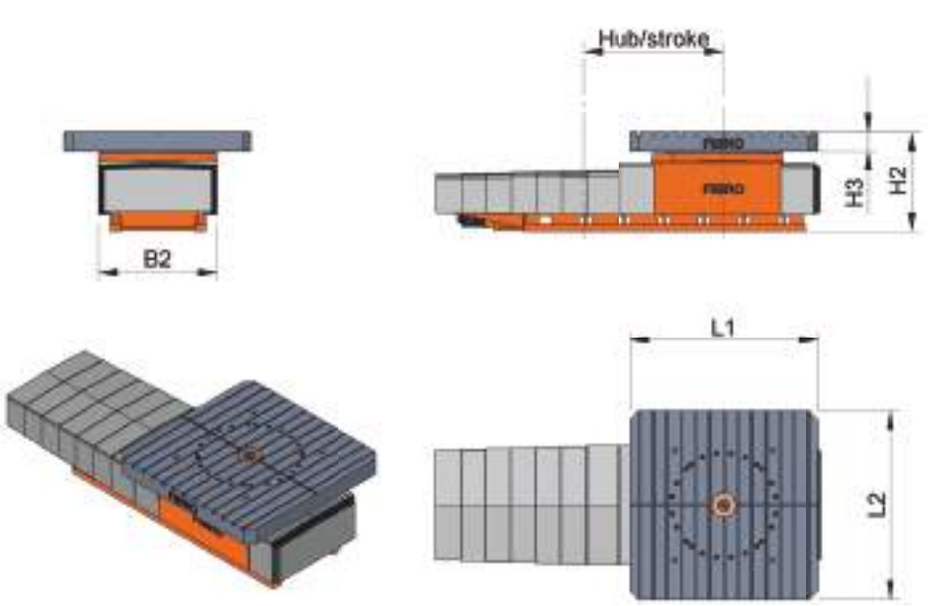
CONSTRUCTION TYPE
THE MOST IMPORTANT DATA

			SLR.1250	SLR.1800	SLR.2500	SLR.3200
Transport load, without weight of table top		t	25	50	100	400
Main dimensions						
Table top, round, from	D1	mm	1,250	1,800	2,500	3,200
Table top, rectangular, from	L1	mm	1,250	1,800	2,500	3,200
Table top, rectangular, from	L2	mm	1,250	1,800	2,500	3,200
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	1,055
Bearing O.D.		mm	1,130	1,630	2,300	2,684
Housing width	B1	mm	1,250	1,800	2,500	3,320
Capacities						
Axial load, table top		kN	300	600	1,200	4,400
Tilting moment		kNm	129	180	250	1,981
Torque, table top S1		kNm	20.4	27.9	52	150
Tangential moment at hydraulic clamp pressure 75 bar		kNm	51	110	240	278
Accuracies						
Positioning accuracy (in arc seconds)			depending on control and measuring systems: ± 2			
Radial concentricity		mm	0.01	0.01	0.01	0.015
Axial runout		mm	0.015	0.015	0.015	0.02
Drive data						
Table top speed		rpm	5.6	3.6	2.4	1



Subject to technical changes

			SLR.DV.1250	SLR.DV.1800	SLR.DV.2500	SLR.DV.3200
Transport load, without weight of table top		t	100	160	220	410
Main dimensions						
Table top, round, from	D1	mm	1,250	1,800	2,500	3,200
Table top, rectangular, from	L1	mm	1,250	1,800	2,500	3,200
Table top, rectangular, from	L2	mm	1,250	1,800	2,500	3,200
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	1,180	1,485
Bearing O.D.		mm	1,130	1,650	2,300	2,684
Total width, sliding unit	B2	mm	1,250	1,800	2,500	3,305
Capacities						
Axial load, table top		kN	300	600	1,200	4,400
Tilting moment		kNm	129	180	250	1,981
Torque, table top S1		kNm	20.4	27.9	52	150
Tangential moment at hydraulic clamp pressure 75 bar		kNm	51	110	260	278
Axial force on ball screw		kN	25	25	40	50
Lateral force on linear axis		kN	348	442	885	3,630
Number of slideways			2	3	4	6
Accuracies						
Positioning accuracy (in arc seconds)			depending on control and measuring systems: ± 2			
Positioning accuracy linear axis		mm	0.02	0.02	0.02	0.02
Drive data						
Table top speed		rpm	5.6	3.6	2.4	1
Travelling speed, linear axis		m/min	15	15	12	10



Sales & Distribution in México:
Yukme
Ignacio Zaragoza #7,
Col. Santa Ana Tlapaltitlan
Toluca, Edo. de México.
Oficinas: Aguascalientes,
Saltillo, Puebla, Toluca.
T: +52 (722) 217-2236
F: +52 (722) 217-2352
info@yukme.com.mx
www.yukme.com.mx

FIBRO GMBH

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

THE LÄPPLE GROUP

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.fibro.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.com

FIBRO
PRECISION PRODUCTS CO., LTD.
1st Floor, Building 3, No. 253, Ai Du Road
Pilot Free Trade Zone, Shanghai 200131
CHINA
T +86 21 60 83 15 96
info@fibro.cn
www.fibro.com

1.6017.00.00.00.01000 As of: 09/2018