NC ROTARY TABLES WITH WORM GEAR UNIT
FIBROPLAN®
WE MAKE PRODUCTION PROCESSES MORE EFFICIENT

Whatever the application, our rotary table technology combines maximum precision with enormous processing strength as well as the shortest cycle times, thus making your production processes more efficient.

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, powerful technology and broad product range serve to satisfy our customers’ requirements in the best possible way.

With its international position, FIBRO is your production partner, competent in resolving problems associated with rotary-table and NC applications across the globe. Our experts are available to assist you during and beyond the planning phase of your projects.
**ROTARY TABLE RANGE FOR MACHINE TOOLS**

**FIBROPLAN**
- NC rotary tables with worm drive
  - 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 (160–3,000 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 ± 2”) and repeat accuracy (up to ± 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
  - 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 ± 2”) and repeat accuracy (up to ± 0.25”)
- Hydraulic table top clamping for highest tangential rigidity without loading the drive components

**FIBRODYN**
- Highly dynamic NC rotary tables with direct torque drive
  - 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 ± 2”) and repeat accuracy (up to ± 0.2”)
- 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 tables with Hirth face gear
  - For precision positioning applications up to ± 1”, repeat accuracy up to ± 0.1”
  - No NC controller required
  - Driven and controlled hydraulically, electrically or pneumatically
  - Also available as a built-in variant for integrated machine designs, e.g. custom rotary indexing table machines

**Your benefits**
- Precision FIBRO face gear for best geometric accuracies
- Hydraulic locking of the face gear for highest resistance to tilt
- Flat design for maximum service life with low maintenance overhead
- Extremely broad spectrum of sizes, fittable with table top diameters up to 3,000 mm
- Transport loads up to 15 tons
- Tried and tested over decades: the pioneer amongst rotary tables for high flexibility and process reliability

**CUSTOM SOLUTIONS**
- Customer-specific rotary tables
  - Rotary-table solutions tailored to your applications, 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 with interfaces and machine concepts required by the customer
FIBROPLAN® NC rotary tables are characterised by CNC controlled circular milling and positioning movement. They are used in a variety of machine types, controlled either by a drive unit within the machine tool or a separate CNC controller. The modern design with a rigid mechanical structure, combined with high-quality drive and control elements, offers great advantages.

THE FIBROPLAN® MANUFACTURING PROGRAMME OFFERS A WIDE RANGE OF TYPES, SIZES AND PERFORMANCE SPECIFICATIONS AND ALLOWS FOR SELECTING THE IDEAL PRODUCT FOR EACH INDIVIDUAL APPLICATION. THE FOLLOWING STYLES ARE AVAILABLE:

**STANDARD STYLE**

The standard style has been designed mainly for horizontal use (in relation to the surface of the table top). The structural design is compact and the height is kept very low. This ensures maximum utilisation of the machine tool’s working space and highest rigidity. In the case of sizes 2 through 4, vertical use is possible due to a second mounting surface.

**VERTICAL STYLE**

The vertical style has been designed mainly for vertical use (in relation to the surface of the table top). The structural design is compact with a relatively low centre height. Vertical rotary tables are coordinated with the counter bearings in regard to height. Horizontal use is also possible.

**MULTI-AXIS STYLE**

Multiple axis designs, e.g. for 5-axis machining and machining tasks with complicated angles. Designs with a pallet-clamping device for accommodating pallets and machine-integrated designs. For all applications, we offer qualified consulting with all our expertise as a rotary-table expert.
THE FIBROPLAN® NC ROTARY TABLE CONSISTS OF A BASE UNIT WITH THE MAIN MECHANICAL COMPONENTS: HOUSING, TABLE TOP, BEARING AND GEARBOX, ADDITIONAL ASSEMBLIES, HYDRAULIC CLAMPING, MEASURING SYSTEM AND DRIVE MOTOR. OPTIONAL ACCESSORIES SUCH AS THE NC CONTROL AND OTHER COMPREHENSIVE ACCESSORIES ALLOW FOR THE EXPANSION TO A COMPLETE, NC-CONTROLLED ROTARY AND POSITIONING AXIS.

TECHNICAL HIGHLIGHTS

- Flexible positioning in freely selectable angular steps
- Positioning accuracy with corresponding selection and arrangement of the measuring system up to ± 10" (indirect) or ± 2.5" (direct)
- High precision in terms of radial and facial runout due to selected, preloaded radial/axial combination bearings of the largest possible diameter
- Accommodation of high machining forces and torques
- Hydraulic table clamp for increasing static strength with a simultaneous relief of the gearing system
- Reliable with regard to simultaneous machining due to preloaded bearings and adjustable worm gearing to achieve near-zero backlash
- High operating safety and long operating life thanks to careful structural design
- Low maintenance due to life-time lubrication
- Wide variety of batch-produced standard models with many variants selectable from a modular supplementary system
- Multiple-axis designs and combinations with slide tables
- Designs with a pallet-clamping device and pallets
- Specific solutions for special applications
FIBROPLAN® NC. 1.02

DIMENSIONS

Table top dimensions

Standard dimensions Ø 240/280

Table top design

Rotary
1
Rotary, with T-slots 14H7/H12
2
Square
3
Square, with T-slots 14H7/H12
4
Special version
6

Table top clamping

Without hydraulic clamping
0
With hydraulic clamping
1
Nominal pressure bar
64
Volume cm³
4
Max. pump capacity l/min
2

Measuring system

Preparation for installation of measuring system
0
Delivery with installed measuring system
1
Measuring system at motor provided
2
Direct measuring system
1
Indirect measurement on the motor
4

Motor arrangement

Preparation for installation of the motor
0
Delivery with installed motor
1
Motor provided by customer
2
Drive on left
L
Drive on right
R
Direct
0
Planetary gear
P
Belt train
R
Angular gear box
W
Hand crank
H
Special version
6

LOAD DATA

Perm. axial loading on table top, horizontal
N
31,000
Perm. axial loading on table top, vertical
N
9,000
Perm. radial loading on table top
N
35,000
Perm. transport load on table top, horizontal
kg
1,600
Perm. transport load on table top, vertical (flying load)
kg
250
Perm. support load on table top, vertical (with counter bearing)
kg
1,600

Permissible tilting moment, horizontal on positioned table top
Nm
3,200
Permissible tilting moment, horizontal on rotating table top
Nm
800

Perm. support load on table top, vertical (with counter bearing)
kg
1,600

Permissible tilting moment, horizontal on positioned table top
Nm
2,000
Permissible tilting moment, horizontal on rotating table top
Nm
500

Perm. support load on table top, vertical (with counter bearing)
kg
1,600

Permissible tilting moment, horizontal on positioned table top
Nm
1,200

Perm. torque limit transferrable by standard worm
Nm
500

Higher geometric accuracies available on request

ACCURACIES

Direct measuring system

System accuracy in arc seconds
max. ± 1
Indexing accuracy in arc seconds
max. ± 2.6
Indexing accuracy in arc length on Ø 240 mm
max. ± 0.009

Indirect measuring system

Indexing accuracy in arc seconds
max. ± 15
Indexing accuracy in arc length on Ø 240 mm
max. ± 0.009

Geometric accuracies

Runout: centre bore
mm 0.01
Axial runout precision on Ø 240 mm
mm 0.01
Plane parallelism of housing/table top related to Ø 240 mm
mm 0.02

Higher geometric accuracies available on request

FIBROPLAN

ENCODING

NC. 1.02

Installation position of standard horizontal/vertical table tops (specify other mounting positions on ordering)

Special versions available on request

Table top design

Square, with T-slots 14H7/H12
Square
Rotary, with T-slots 14H7/H12
Rotary
Special version

NC. 1.02

Motor arrangement

Preparation for installation of the motor
0
Delivery with installed motor
1
Motor provided by customer
2
Drive on left
L
Drive on right
R
Direct
0
Planetary gear
P
Belt train
R
Angular gear box
W
Hand crank
H
Special version
6

TECHNICAL DATA

Max. centre borehole (special version)
mm Ø 65
Bearing inner Ø x outer Ø
mm 120x210
Weight with Ø 240 mm table top
kg 80

Mass moment of inertia (kg m²)

Maximum speed (rpm)

Acceleration and deceleration time (°/s²)

Table top Ø (mm)

Available torque at table top

Transport load (kg)

Max. speed (rpm)

Acceleration and deceleration time (°/s²)

Table top Ø (mm)

Available torque at table top

Transport load (kg)
FIBROPLAN® NC. 1.03

DIMENSIONS

| NC. 1.03 | D | 3 | 4 | 0 | 2 | 1 | 4 | 1 | R | D |

Table top position of standard horizontal/vertical table tops (specify other mounting positions on ordering)

1. Table top dimensions
   - Standard dimensions Ø 340/400

2. Table top design
   - Rotary
   - Square
   - Special version

3. Table top clamping
   - Without hydraulic clamping
   - With hydraulic clamping

4. Measuring system
   - Preparation for installation of measuring system
   - Delivery with installed measuring system
   - Measuring system at motor provided
   - Direct measuring system

Motor arrangement

<table>
<thead>
<tr>
<th>Preparation for installation of the motor</th>
<th>Delivery with installed motor</th>
<th>Motor provided by customer</th>
<th>Drive on left</th>
<th>Drive on right</th>
<th>Direct</th>
<th>Planetary gear</th>
<th>Belt train</th>
<th>Angular gear box</th>
<th>Hand crank</th>
<th>Special version</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td>D</td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical data

- Max. centre borehole (special version) mm Ø 110
- Bearing inner Ø x outer Ø mm 200x300
- Weight with Ø 340 mm table top (without motor) kg 170

LOAD DATA

1. Perm. axial loading on table top, horizontal N 40,000
2. Perm. axial loading on table top, vertical N 10,000
3. Perm. radial loading on table top N 44,000
4. Perm. transport load on table top, horizontal kg 2000
5. Perm. transport load on table top, vertical (flying load) kg 300
6. Perm. support load on table top, vertical (with counter bearing) kg 2000
7. Permissible tilting moment, horizontal on positioned table top Nm 6,700
   - on rotating table top Nm 1,675
8. Permissible tilting moment, vertical on positioned table top Nm 4,000
   - on rotating table top Nm 1,000
9. Perm. tangential moment on positioned table top with hydraulic clamping Nm 2,000
10. Perm. torque limit transferable by standard worm Nm 1,900

ACCURACIES

Direct measuring system
- System accuracy in arc seconds max. ± 1
- Indexing accuracy in arc seconds max. ± 2.5
- Indexing accuracy in arc length on Ø 340 mm max. ± 0.005

Indirect measuring system
- Indexing accuracy in arc seconds max. ± 10
- Indexing accuracy in arc length on Ø 340 mm max. ± 0.008

Geometric accuracies
- Runout: centre bore mm 0.01
- Axial runout on Ø 340 mm mm 0.01
- Plane parallelism of housing/table top related to Ø 340 mm mm 0.02
- Higher geometric accuracies available on request

Special version
- Square, with T-slots 14H7/H12
- Rotary, with T-slots 14H7/H12

ENCODING

- CAD files, technical data and planning documents can be downloaded at www.fibro.de
- Special versions available on request
NC. 1.04 | 0 | 2 | 4 | 0 | 1 | D | R | D

Table top position of standard horizontal/vertical table tops (specify other mounting positions on ordering):

1. Table top dimensions
   - Standard dimensions Ø 420/500

2. Table top design
   - Rotary
   - Rotary, with T-slots 14H7/H12
   - Special version

3. Table top clamping
   - Without hydraulic clamping
   - With hydraulic clamping
     - Nominal pressure bar 64
     - Volume cm³ 4
     - Max. pump capacity l/min 3

4. Measuring system
   - Preparation for installation of measuring system
   - Delivery with installed measuring system
   - Measuring system at motor provided
   - Direct measuring system
   - Indirect measurement on the motor

Motor arrangement:
- Preparation for installation of the motor 0
- Delivery with installed motor 1
- Motor provided by customer 2
- Drive on left L
- Drive on right R
- Direct D
- Planetary gear P
- Belt train R
- Angular gear box W
- Hand crank H
- Special version S

TECHNICAL DATA
- Max. centre borehole (special version) mm Ø 140
- Bearing inner Ø x outer Ø mm 260x385
- Weight with Ø 420 mm table top (without motor) kg 270

PERM. LOADING DATA
- Perm. axial loading on table top, horizontal N 58,000
- Perm. axial loading on table top, vertical N 11,000
- Perm. radial loading on table top N 51,000
- Perm. transport load on table top, horizontal kg 2,900
- Perm. transport load on table top, vertical 900
- Perm. support load on table top, vertical with counter bearing kg 2,900
- Permissible tilting moment, horizontal on positioned table top Nm 10,000
- Permissible tilting moment, horizontal on rotating table top Nm 2,500
- Permissible tilting moment, vertical on positioned table top Nm 6,000
- Permissible tilting moment, vertical on rotating table top Nm 1,500
- Perm. tangential moment on positioned table top with hydraulic clamping Nm 4,000
- Perm. torque limit transferable by standard worm Nm 3,500

Geometric accuracies
- Runout: centre bore, horizontal mm 0.01
- Runout: centre bore, vertical mm 0.01
- Planar parallelism of housing/table top related to Ø 420 mm mm 0.02

Higher geometric accuracies available on request.
### DIMENSIONS

| NC. 1.05 | 0 | 5 | 2 | 0 | 2 | 1 | 1 | 4 | 1 | R | Z |

CAD files, technical data and planning documents can be downloaded at www.fibro.de

### TABLE TOP DIMENSIONS

| Standard dimensions Ø | 520/630 |

### TABLE TOP DESIGN

| Rotary | 1 |
| Rotary, with T-slots 14H7/H12 | 2 |
| Square | 3 |
| Square, with T-slots 14H7/H12 | 4 |
| Special version | 0 |

### TABLE TOP CLAMPING

| Without hydraulic clamping | 0 |
| With hydraulic clamping | 1 |

| Nominal pressure bar | 64 |
| Volume cm³ | 4 |
| Max. pump capacity l/min | 4 |

### MOTOR ARRANGEMENT

| Preparation for installation of the motor | 0 |
| Delivery with installed motor | 1 |
| Motor provided by customer | 2 |
| Drive on left | L |
| Drive on right | R |
| Gear wheel train | Z |
| Direct | D |
| Planetary gear | P |
| Belt train | R |
| Angular gear box | W |
| Hand crank | H |
| Special version | S |

### MEASURING SYSTEM

| Preparation for installation of measuring system | 0 |
| Delivery with installed measuring system | 1 |
| Measuring system at motor provided | 2 |
| Direct measuring system | 1 |
| Indirect measurement on the motor | 4 |

### TECHNICAL DATA

| Max. centre borehole (special version) mm | Ø 160 |
| Bearing inner Ø x outer Ø mm | 32/5460 |
| Weight with Ø 520 mm table top (without motor) kg | 360 |

### ACURACIES

#### Direct measuring system

| System accuracy in arc seconds | max. | ± 1 |
| Indexing accuracy in arc seconds | max. | ± 2.5 |
| Indexing accuracy in arc length on Ø 520 mm | max. | ± 0.015 |

#### Indirect measuring system

| Indexing accuracy in arc seconds | max. | ± 10 |
| Indexing accuracy in arc length on Ø 520 mm | max. | ± 0.015 |

#### Geometric accuracies

| Runout: centre bore mm | 0.01 |
| Axial runout precision on Ø 520 mm | 0.025 |
| Plane parallelism of housing/table top related to Ø 520 mm | 0.025 |

Higher geometric accuracies available on request

### LOAD DATA

| Perm. axial loading on table top, horizontal N | 99,000 |
| Perm. radial loading on table top N | 67,000 |
| Perm. transport load on table top, horizontal kg | 5,000 |
| Permissible tilting moment, horizontal on positioned table top Nm | 33,000 |
| Permissible tilting moment, horizontal on rotating table top Nm | 8,250 |
| Perm. tangential moment on positioned table top with hydraulic clamping Nm | 6,000 |
| Perm. torque limit transferable by standard worm Nm | 4,200 |

Special versions available on request.
FIBROPLAN® NC. 1.06

DIMENSIONS

Table top dimensions
Standard dimensions Ø 630/800

Table top design
Rotary, with T-slots 18H7/H12
Square
Special version

Table top clamping
Without hydraulic clamping
With hydraulic clamping

Motor arrangement
Preparation for installation of the motor
Delivery with installed motor
Motor provided by customer
Drive on left
Drive on right
Gear wheel train
Direct
Planetary gear
Belt train
Angular gear box
Hand crank
Special version

Measuring system
Preparation for installation of measuring system
Delivery with installed measuring system
Measuring system at motor provided
Direct measuring system
Indirect measurement on the motor

Load data
Perm. axial loading on table top, horizontal N 115,000
Perm. radial loading on table top N 67,000
Perm. transport load on table top, horizontal kg 5,900
Permissible tilting moment, horizontal on positioned table top Nm 45,000
Permissible tilting moment, horizontal on rotating table top Nm 11,250
Perm. tangential moment on positioned table top with hydraulic clamping Nm 8,000
Perm. torque limit transferable by standard worm Nm 7,000

Technological data
Max. centre borehole (special version) mm Ø 190
Bearing inner Ø x outer Ø mm 395x525
Weight with Ø 630 mm table top (without motor) kg 550

Higher geometric accuracies available on request

CAD files, technical data and planning documents can be downloaded at www.fibro.de

Special versions available on request
FIBROPLAN® NC. 1.07

DIMENSIONS

Table top dimensions

<table>
<thead>
<tr>
<th>Standard dimensions Ø</th>
<th>800/1,000</th>
</tr>
</thead>
</table>

Table top design

| Rotary | 1 |
| Rotary, with T-slots 18H7/H12 | 2 |
| Square | 3 |
| Square, with T-slots 18H7/H12 | 4 |
| Special version | 0 |

Table top clamping

| Without hydraulic clamping | 0 |
| With hydraulic clamping | 1 |

Motor arrangement

| Preparation for installation of the motor | 0 |
| Delivery with installed motor | 1 |
| Motor provided by customer | 2 |
| Drive on left | L |
| Drive on right | R |
| Gear wheel train | Z |
| Direct | D |
| Planetary gear | P |
| Ball train | B |
| Angular gear box | W |
| Hand crank | H |
| Special version | S |

Measuring system

| Preparation for installation of measuring system | 0 |
| Delivery with installed measuring system | 1 |
| Measuring system at motor provided | 2 |
| Direct measuring system | 3 |

TECHNICAL DATA

Max. centre borehole (special version) mm Ø 250

Bearing: inner Ø x outer Ø mm 460 x 600

Weight with Ø 800 mm table top (without motor) kg 920

LOAD DATA

Perm. axial loading on table top, horizontal N 135,000

Perm. radial loading on table top N 93,000

Perm. transport load on table top, horizontal kg 6,900

Permissible tilting moment, horizontal on positioned table top Nm 60,000

Perm. tangential moment on positioned table top with hydraulic clamping Nm 14,000

Perm. torque limit transferable by standard worm Nm 7,000

ACURACIES

Direct measuring system

System accuracy in arc seconds max. ± 1

Indexing accuracy in arc seconds max. ± 2

Indexing accuracy in arc length on Ø 800 mm max. ± 0,005

Indirect measuring system

System accuracy in arc seconds max. ± 8

Indexing accuracy in arc length on Ø 800 mm max. ± 0,016

Geometric accuracies

Runout: centre bore mm 0,01

Axial runout precision on Ø 800 mm mm 0,015

Plane parallelism of housing/table top related to Ø 800 mm mm 0,03

Higher geometric accuracies available on request
**FIBROPLAN® NC. 1.08**

### DIMENSIONS

- **Table top dimensions**
  - Standard dimensions Ø: 1,000/1,250

- **Table top design**
  - Rotary
  - Rotary, with T-slots 22H7/H12
  - Square
  - Square, with T-slots 22H7/H12
  - Special version

- **Table top clamping**
  - Without hydraulic clamping
  - With hydraulic clamping
    - Normal pressure bar: 64
    - Volume cm³: 4
    - Max. pump capacity l/min: 8

### Technical Data

- **Preparation for installation of measuring system**
- **Delivery with installed measuring system**
- **Measuring system at motor provided**
- **Drive on left**
- **Drive on right R**
- **Gear wheel train Z**
- **Direct D**
- **Planetary gear P**
- **Belt train R**
- **Angular gear box W**
- **Hand crank H**
- **Special version S**

### Measuring system

- Preparation for installation of measuring system: 0
- Delivery with installed measuring system: 1
- Measuring system at motor provided: 2
- Direct measuring system: 1
- Indirect measurement on the motor: 4

### Installation position of standard horizontal table tops

| NC. 1.08 | 1 | 0 | 0 | 0 | 2 | 1 | 4 | R | Z |

**ENCODING**

- NC. 1.08

### Installation position of standard horizontal table tops (specify other mounting positions on ordering)

**Table top design**

- **Rotary**
- **Rotary, with T-slots 22H7/H12**
- **Square**
- **Square, with T-slots 22H7/H12**
- **Special version**

**Table top clamping**

- **Without hydraulic clamping**
- **With hydraulic clamping**
  - Normal pressure bar: 64
  - Volume cm³: 4
  - Max. pump capacity l/min: 8

**Motor arrangement**

- Preparation for installation of the motor: 0
- Delivery with installed motor: 1
- Motor provided by customer: 2
- Drive on left: L
- Drive on right R
- Gear wheel train: Z
- Direct: D
- Planetary gear: P
- Belt train: R
- Angular gear box: W
- Hand crank: H
- Special version: S

**Measuring system**

- Preparation for installation of measuring system: 0
- Delivery with installed measuring system: 1
- Measuring system at motor provided: 2
- Direct measuring system: 1
- Indirect measurement on the motor: 4

**Load Data**

- **Perm. axial loading on table top, horizontal** N: 309,000
- **Perm. radial loading on table top** N: 237,000
- **Perm. transport load on table top, horizontal** kg: 15,000
- **Permissible tilting moment, horizontal** on positioned table top Nm: 230,000
  - on rotating table top Nm: 57,500
- **Perm. tangential moment on positioned table top with hydraulic clamping** Nm: 25,000
- **Perm. torque limit transferable by standard worm** Nm: 14,000

**Higher geometric accuracies available on request**

**Geometric accuracies**

- Runout: centre bore mm: 0.01
- Axial runout precision on Ø 1,000 mm mm: 0.02
- Plane parallelism of housing/table top related to Ø 1,000 mm mm: 0.04

**ACCURACIES**

**Direct measuring system**

- System accuracy in arc seconds max. ± 1
- Indexing accuracy in arc seconds max. ± 2.5
- Indexing accuracy in arc length on Ø 1,000 mm max. ± 0.006

**Indirect measuring system**

- Indexing accuracy in arc seconds max. ± 8
- Indexing accuracy in arc length on Ø 1,000 mm max. ± 0.019

**CAD files, technical data and planning documents can be downloaded at www.fibro.de**
FIBROPLAN® NC. 1.09

DIMENSIONS

| NC. 1.09 | 1 | 2 | 3 | 4 | 5 |

Table top position of standard horizontal table tops (specify other mounting positions on ordering)

1 Table top dimensions
Standard dimensions Ø
1,250/1,500

2 Table top design
- Rotary
- Rotary, with T-slots 22H7/H12
- Square
- Square, with T-slots 22H7/H12
- Special version

3 Table top clamping
- Without hydraulic clamping
- With hydraulic clamping
  - Normal pressure bar
  - Volume cm³
  - Max. pump capacity l/min

4 Measuring system
- Preparation for installation of measuring system
- Delivery with installed measuring system
- Measuring system at motor provided
- Direct measuring system
- Indirect measurement on the motor

5 Motor arrangement
- Preparation for installation of the motor
- Delivery with installed motor
- Motor provided by customer
- Drive on left
- Drive on right
- Gear wheel train
- Direct
- Planetary gear
- Belt train
- Angular gear box
- Hand crank
- Special version

6 TECHNICAL DATA
- Max. centre borehole (special version) mm Ø 520
- Bearing inner Ø x outer Ø mm 850 x 1,095
- Weight with Ø 1,250 mm table top (without motor) kg 2,500

ACURACIES

Direct measuring system
- System accuracy in arc seconds max. ± 1
- Indexing accuracy in arc seconds max. ± 0.6
- Indexing accuracy in arc length on Ø 1,250 mm max. ± 0.028

Indirect measuring system
- Indexing accuracy in arc seconds max. ± 8
- Indexing accuracy in arc length on Ø 1,250 mm max. ± 0.024

Geometric accuracies
- Runout: centre bore mm 0.01
- Axial runout precision on Ø 1,250 mm mm 0.02
- Plane parallelism of housing/table top related to Ø 1,250 mm mm 0.04

Higher geometric accuracies available on request

LOAD DATA

1 Perm. axial loading on table top, horizontal N 389,000
2 Perm. radial loading on table top N 310,000
3 Perm. transport load on table top, horizontal kg 19,000
4 Permissible tilting moment, horizontal on positioned table top Nm 400,000
5 Permissible tilting moment, horizontal on rotating table top Nm 100,000
6 Perm. torque limit transferable by standard worm Nm 32,000
7 Perm. torque limit transferable by standard worm Nm 17,000

Special versions available on request

COMPLIANCE

FIBROPLAN® NC. 1.09

Installation position of standard horizontal table tops (specify other mounting positions on ordering)

1 NC. 1.09 . 1 2 3 4 5

ENCODING

NC. 1.09 . 1 2 3 4 5

Installation position of standard horizontal table tops (specify other mounting positions on ordering)

1 NC. 1.09 . 1 2 3 4 5

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FIBROPLAN® NC. 1.10

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Table top Ø (mm)</th>
<th>Transport load (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,600</td>
<td>40,000</td>
</tr>
</tbody>
</table>

**Table top design**

- Rotary: 1
- Rotary, with T-slots 22H7/H12: 2
- Square: 3
- Square, with T-slots 22H7/H12: 4
- Special version: 5

**Table top clamping**

- Without hydraulic clamping: 0
- With hydraulic clamping: 1
  - Normal pressure: bar 64
  - Volume: cm³ 4
  - Max. pump capacity: l/min 12

**Measuring system**

- Preparation for installation of measuring system: 0
- Delivery with installed measuring system: 1
- Measuring system at motor provided: 2
- Direct measuring system: 3
- Indirect measurement on the motor: 4

**Mechanical accuracy**

- Runout: centre borehole mm 0.01
- Axial runout precision on Ø 1,600 mm mm 0.025
- Plane parallelism of housing/table top mm 0.05

**Indirect measuring system**

- Indexing accuracy in arc seconds max. ± 8
- Indexing accuracy in arc length on Ø 1,600 mm max. ± 0.031

**Geometric accuracies**

- Runout: centre borehole mm 0.01
- Axial runout precision on Ø 1,600 mm mm 0.025
- Plane parallelism of housing/table top mm 0.05

Higher geometric accuracies available on request

**LOAD DATA**

- Perm. axial loading on table top, horizontal N 822,000
- Perm. radial loading on table top N 400,000
- Perm. transport load on table top, horizontal kg 40,000
- Perm. transport load on table top, horizontal kg 40,000
- Perm. transport load on table top, horizontal kg 40,000
- Perm. transport load on table top, horizontal kg 600,000
- Perm. transport load on table top, horizontal kg 150,000
- Perm. torque limit transferable by standard worm Nm 40,000
- Perm. torque limit transferable by standard worm Nm 24,000

**TECHNICAL DATA**

- Max. centre borehole (special version) mm Ø 630
- Bearing inner Ø x outer Ø mm 1030x1,300
- Weight with Ø 1,600 mm table top (without motor) kg 6,000

**ENCODING**

NC. 1.10 . 1 6 0 0 . 2 . 1 . 1 4 . 1 R P

**Installation position of standard horizontal table tops** (specify other mounting positions on ordering)

1 Motor arrangement

- Preparation for installation of the motor: 0
- Delivery with installed motor: 1
- Motor provided by customer: 2
- Drive on left: 3
- Drive on right: 4
- Gear wheel train: 5
- Direct: 6
- Planetary gear: 7
- Belt train: 8
- Angular gear box: 9
- Hand crank: 10
- Special version: 11

**Special versions available on request**
FIBROPLAN® NC. 2.01

DIMENSIONS

![Dimensions diagram]

**NC. 2.01**
- Overall length depends on the motor used

**Table top Ø**
- 180 mm

**Table top dimensions**
- Standard dimensions Ø 180 mm

**Table top design**
- Rotary
- Rotary, with T-slots 12H7/H12
- Square
- Square, with T-slots 12H7/H12
- Special version

**Table top clamping**
- Without hydraulic clamping
- With hydraulic clamping
  - Nominal pressure bar 64
  - Volume cm³ 2
  - Max. pump capacity l/min 2

**Motor arrangement**
- Preparation for installation of the motor
- Delivery with installed motor
- Motor provided by customer
- Drive on left
- Drive on right
- Direct
- Planetary gear
- Belt train
- Angular gear box
- Hand crank
- Special version

**Measuring system**
- Preparation for installation of measuring system
- Delivery with installed measuring system
- Measuring system at motor provided
- Direct measuring system
- Indirect measurement on the motor

**ENCODING**
- NC. 2.01
- [ ] [ ] [ ] [ ] [ ]

**Installation position of standard horizontal/vertical table tops**
- (specify other mounting positions on ordering)

**TECHNICAL DATA**
- Max. centre borehole (special version) mm Ø 25
- Bearing inner Ø x outer Ø mm 80 x 150
- Weight with Ø 180 mm table top (without motor) kg 45

**LOAD DATA**
- Perm. axial loading on table top, vertical N 5,000
- Perm. radial loading on table top N 13,000
- Perm. transport load on table top, vertical (flying load) kg 150
- Perm. support load on table top, vertical (with counter bearing) kg 450
- Permissible tilting moment, horizontal on positioned table top Nm 2,000
- Permissible tilting moment, horizontal on rotating table top Nm 500
- Permissible tilting moment, vertical on positioned table top Nm 1,500
- Permissible tilting moment, vertical on rotating table top Nm 375
- Perm. tangential moment on positioned table top with hydraulic clamping Nm 700
- Perm. torque limit transferable by standard worm Nm 300

**ACURACIES**

**Direct measuring system**
- System accuracy in arc seconds max. ± 1
- Indexing accuracy in arc seconds max. ± 2.0
- Indexing accuracy in arc length on Ø 180 mm max. ± 0.009

**Indirect measuring system**
- Indexing accuracy in arc seconds max. ± 20
- Indexing accuracy in arc length on Ø 180 mm max. ± 0.009

**ACCURACIES**

**Geometric accuracies**
- Runout: centre bore mm 0.01
- Axial runout precision on Ø 180 mm mm 0.01
- Plane parallelism of housing/table top related to Ø 180 mm mm 0.02

Higher geometric accuracies available on request

**SAMPLE DESIGN NC. 2.01**

![Sample design diagram]

- Mass moment of inertia (kgm²)
- Maximum speed (rpm)
- Acceleration and deceleration time (°/s²)
- Universal
- Fast
- Transport load (kg)

Special versions available on request

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FIBROPLAN® NC. 2.05

DIMENSIONS

Table top position of standard vertical table tops (specify other mounting positions on ordering)

1 Table top dimensions

Standard dimensions Ø 

520/630

2 Table top design

Rotary 

1

Rotary, with T-slots 14H7/H12 

2

Square 

3

Square, with T-slots 14H7/H12 

4

Special version 

0

3 Table top clamping

Without hydraulic clamping 

0

With hydraulic clamping 

1

Nominal pressure 

bar

64

Volume 

cm³

16

Max. pump capacity 

l/min

1

4 Measuring system

Preparation for installation of measuring system 

0

Delivery with installed measuring system 

1

Measuring system at motor provided 

2

Direct measuring system 

3

Indirect measurement on the motor 

4

5 Motor arrangement

Preparation for installation of the motor 

0

Delivery with installed motor 

1

Motor provided by customer 

2

Drive on left 

L

Drive on right 

R

Gear wheel train 

Z

Direct 

D

Planetary gear 

P

Belt train 

B

Angular gear box 

W

Hand crank 

H

Special version 

S

6 Measuring system

Preparation for installation of measuring system 

0

Delivery with installed measuring system 

1

Measuring system at motor provided 

2

Direct measuring system 

3

Indirect measurement on the motor 

4

TECHNICAL DATA

Max. centre borehole (special version) 

mm

Ø 160

Bearing inner Ø x outer Ø 

mm

325x460

Weight with Ø 520 mm table top (without motor) 

kg

500

LOAD DATA

Perm. axial loading on table top, vertical 

N

45,000

Perm. radial loading on table top 

N

67,000

Perm. transport load on table top, vertical (flying load) 

kg

1,200

Perm. support load on table top, vertical (with counter bearing) 

kg

3,600

Permissible tilting moment, vertical on positioned table top 

Nm

16,000

Perm. tangential moment on positioned table top with hydraulic clamping 

Nm

6,000

Perm. torque limit transferable by standard worm 

Nm

4,200

Higher geometric accuracies available on request

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Encodings

NC. 2.05

ENCODING

Table top design

Rotary 

1

Rotary, with T-slots 14H7/H12 

2

Square 

3

Square, with T-slots 14H7/H12 

4

Special version 

0

Installation position of standard vertical table tops

NC. 2.05

CAD files, technical data and planning documents can be downloaded at www.fibro.de

Special versions available on request

Accuracies

Direct measuring system

System accuracy in arc seconds 

max. ± 1

Indexing accuracy in arc seconds 

max. ± 2.5

Indexing accuracy in arc length on Ø 520 mm 

max. ± 0.003

Indirect measuring system

Indexing accuracy in arc seconds 

max. ± 10

Indexing accuracy in arc length on Ø 520 mm 

max. ± 0.015

Geometric accuracies

Runout: centre bore 

mm

0.01

Axial runout precision on Ø 520 mm 

mm

0.012

Plane parallelism of housing/table top related to Ø 520 mm 

mm

0.025

Higher geometric accuracies available on request

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FIBROPLAN® NC. 2.06

DIMENSIONS

Table top dimensions
Standard dimensions Ø 630/800

Table top design
Rotary 1
Rotary, with T-slots 18H7/H12 2
Square 3
Square, with T-slots 18H7/H12 4
Special version 0

Table top clamping
Without hydraulic clamping 0
With hydraulic clamping 1

Motor arrangement
Preparation for installation of the motor 0
Delivery with installed motor 1
Motor provided by customer 2
Drive on left 1
Drive on right 1
Gear wheel train 2
Direct 0
Planetary gear 1
Belt train 2
Angular gear box 3
Hand crank 4
Special version 0

Measuring system
Preparation for installation of measuring system 0
Delivery with installed measuring system 1
Measuring system at motor provided 2
Direct measuring system 1
Indirect measurement on the motor 4

ENCODING
NC. 2.06 1 2 3 4 5 6 7 8 9

Installation position of standard vertical table tops (specify other mounting positions on ordering)

LOAD DATA

Permissible tilting moment, vertical
on positioned table top Nm 26,000
on rotating table top Nm 6,500
Perm. tangential moment on positioned table top with hydraulic clamping Nm 8,000
Perm. torque limit transferable by standard worm Nm 7,000

ACURACIES

Direct measuring system
System accuracy in arc seconds max. ± 1
Indexing accuracy in arc seconds max. ± 2.5
Indexing accuracy in arc length on Ø 630 mm max. ± 0.004

Indirect measuring system
Indexing accuracy in arc seconds max. ± 10
Indexing accuracy in arc length on Ø 630 mm max. ± 0.015

Geometric accuracies
Runout: centre bore mm 0.01
Axial runout precision on Ø 630 mm mm 0.015
Plane parallelism of housing/table top related to Ø 630 mm mm 0.03

Higher geometric accuracies available on request

TECHNICAL DATA
Max. centre borehole (special version) mm Ø 190
Bearing: inner Ø × outer Ø mm 460×650
Weight with Ø 630 mm table top (without motor) kg 700

FIBROPLAN® NC. 2.06

FIBROPLAN®®

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**FIBROPLAN® NC. 2.07**

**DIMENSIONS**

![Diagram of FIBROPLAN NC. 2.07 dimensions]

**Table top dimensions**

| Standard dimensions Ø (mm) | 800/1,000 |

**Table top design**

- Rotary, with T-slots 18H7/H12: 1
- Square: 2
- Square, with T-slots 18H7/H12: 3
- Special version: 4

**Table top clamping**

- Without hydraulic clamping: 0
- With hydraulic clamping: 1
  - Normal pressure: bar 64
  - Volume: cm³ 25
  - Max. pump capacity: 1/min 12

**Measuring system**

- Preparation for installation of measuring system: 0
- Delivery with installed measuring system: 1
- Measuring system at motor provided: 2
- Direct measuring system: 4
- Indirect measurement on the motor: 5

**Motor arrangement**

- Preparation for installation of the motor: 0
- Delivery with installed motor: 1
- Motor provided by customer: 2
- Drive on left: L
- Drive on right: R
- Gear wheel train: 2
- Direct: D
- Planetary gear: P
- Ball train: R
- Angular gear box: W
- Hand crank: H
- Special version: S

**TECHNICAL DATA**

- Max. centre borehole (special version): mm Ø 250
- Bearing inner Ø × outer Ø: mm 580×750
- Weight with Ø 800 mm table top (without motor): kg 1,250

**ENCODING**

NC. 2.07  .  D 8 0 0  .  2  .  1  .  1 4  .  1 R 2

CAD files, technical data and planning documents can be downloaded at www.fibro.de

**INSTALLATION POSITION OF STANDARD VERTICAL TABLE TOPS**

| Table top Ø (mm) | 800/1,000 |

**LOAD DATA**

- Perm. axial loading on table top, vertical: N 100,000
- Perm. radial loading on table top: N 140,000
- Perm. transport load on table top, vertical (flying load): kg 3,000
- Perm. support load on table top, vertical (with counter bearing): kg 9,000
- Permissible tilting moment, vertical on positioned table top: Nm 32,500
- Permissible tilting moment, vertical on rotating table top: Nm 8,125
- Perm. torque limit transferable by standard worm: Nm 7,900

**Sample design NC. 2.07**

- Maximum speed (rpm): 4,000
- Acceleration and deceleration time (°/s²): 10.500
- Mass moment of inertia (kg m²): 800
- Maximum speed: 3,000
- Available torque at table top speed of 1 rpm (Nm): 2,500

**ACURACIES**

**Direct measuring system**

| System accuracy in arc seconds max. | ± 1 |
| Indexing accuracy in arc seconds max. | ± 2.5 |
| Indexing accuracy in arc length on Ø 800 mm max. | ± 0.005 |

**Indirect measuring system**

| Indexing accuracy in arc seconds max. | ± 8 |
| Indexing accuracy in arc length on Ø 800 mm max. | ± 0.016 |

**GEOMETRIC ACCURACIES**

| Runout: centre bore mm | 0.01 |
| Axial runout precision on Ø 800 mm mm | 0.015 |
| Plane parallelism of housing/table top related to Ø 800 mm mm | 0.03 |

Higher geometric accuracies available on request.

**FIBROPLAN® NC. 2.07**

**FIBROPLAN®®**

Special versions available on request.
**FIBROPLAN® NC. 2.08**

**DIMENSIONS**

![Diagram of NC. 2.08 dimensions]

**TABLE TOP DIMENSIONS**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>1,250</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Motor arrangement**

| Preparation for installation of the motor | 0 |
| Delivery with installed motor | 1 |
| Motor provided by customer | 2 |
| Drive on left | L |
| Drive on right | R |
| Gear wheel train | G |
| Planetary gear | P |
| Belt train | B |
| Angular gear box | W |
| Hand crank | H |
| Special version | S |

**Table top design**

- **Rotary**: 1
- **Rotary, with T-slots 22H7/H12**: 2
- **Square**: 3
- **Square, with T-slots 22H7/H12**: 4
- **Special version**: 0

**Table top clamping**

- **Without hydraulic clamping**: 0
- **With hydraulic clamping**: 1
  - **Normal pressure**: bar 64
  - **Volume**: cm³ 30
  - **Max. pump capacity**: l/min 14

**Measuring system**

- **Preparation for installation of measuring system**: 0
- **Delivery with installed measuring system**: 1
- **Measuring system at motor provided**: 2
- **Direct measuring system**: 1
- **Indirect measurement on the motor**: 4

**TECHNICAL DATA**

- **Max. centre borehole (special version)**: mm Ø 420
- **Bearing inner Ø x outer Ø**: mm 650x870
- **Weight with Ø 1,000 mm table top (without motor)**: kg 2,300

**ACURACIES**

**Direct measuring system**

- **System accuracy in arc seconds**: max. ± 1
- **Indexing accuracy in arc seconds**: max. ± 2.5
- **Indexing accuracy in arc length on Ø 1,000 mm**: max. ± 0.006

**Indirect measuring system**

- **Indexing accuracy in arc seconds**: max. ± 8
- **Indexing accuracy in arc length on Ø 1,000 mm**: max. ± 0.019

**LOAD DATA**

- **Perm. axial loading on table top, vertical**: N 120,000
- **Perm. radial loading on table top**: N 250,000
- **Perm. transport load on table top, vertical (flying load)**: kg 6,000
- **Perm. support load on table top, vertical (with counter bearing)**: kg 18,000
- **Permissible tilting moment, vertical on positioned table top**: Nm 57,500
- **Permissible tilting moment, vertical on rotating table top**: Nm 14,375
- **Perm. tangential moment on positioned table top with hydraulic clamping**: Nm 25,000
- **Perm. torque limit transferable by standard worm**: Nm 14,000

**SAMPLE DESIGN NC. 2.08**

- **Max. moment of inertia (kgm²)**
- **Acceleration and deceleration time (°/s²)**
- **Available torque at table top speed of 1 rpm (Nm)**
- **Transport load (kg)**

**FIBROPLAN® NC. 2.08**: Special versions available on request.
### FIBROPLAN® NC. 2.09

#### DIMENSIONS

![Dimension Diagram](image)

#### Table top dimensions

<table>
<thead>
<tr>
<th>Standard dimensions Ø</th>
<th>1,250/1,500</th>
</tr>
</thead>
</table>

#### Table top design

1. Rotary
2. Square, with T-slots 22H7/H12
3. Special version

#### Table top clamping

1. Without hydraulic clamping
2. With hydraulic clamping

<table>
<thead>
<tr>
<th>Normal pressure</th>
<th>bar</th>
<th>64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>cm³</td>
<td>40</td>
</tr>
<tr>
<td>Max. pump capacity</td>
<td>l/min</td>
<td>20</td>
</tr>
</tbody>
</table>

#### Motor arrangement

1. Preparation for installation of the motor
2. Delivery with installed motor
3. Motor provided by customer
4. Drive on left
5. Drive on right
6. Gear wheel train
7. Direct
8. Planetary gear
9. Belt train
10. Angular gear box
11. Hand crank
12. Special version

#### Measuring system

1. Preparation for installation of measuring system
2. Delivery with installed measuring system
3. Measuring system at motor provided
4. Direct measuring system
5. Indirect measurement on the motor

#### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Max. centre borehole (special version)</th>
<th>mm</th>
<th>Ø 520</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing inner Ø x outer Ø</td>
<td>mm</td>
<td>850 x 1,250</td>
</tr>
<tr>
<td>Weight with Ø 1,250 mm table top (without motor)</td>
<td>kg</td>
<td>4,000</td>
</tr>
</tbody>
</table>

#### LOAD DATA

1. Perm. axial loading on table top, vertical
2. Perm. radial loading on table top
3. Perm. transport load on table top, vertical (flying load)
4. Perm. support load on table top, vertical (with counter bearing)
5. Permissible tilting moment, vertical on positioned table top
6. Permissible tilting moment, vertical on rotating table top
7. Perm. tangential moment on positioned table top with hydraulic clamping
8. Perm. torque limit transferable by standard worm

#### SAMPLE DESIGN NC. 2.09

- Mass moment of inertia (kgm²)
- Maximum speed (rpm)
- Acceleration and deceleration time (°/s²)
- Available torque at table top speed of 1 rpm (Nm)
- Transport load (kg)

#### ACCURACIES

### Direct measuring system

- System accuracy in arc seconds max. ± 1
- Indexing accuracy in arc seconds max. ± 2.5
- Indexing accuracy in arc length on Ø 1,250 mm max. ± 0.008

### Indirect measuring system

- Indexing accuracy in arc seconds max. ± 8
- Indexing accuracy in arc length on Ø 1,250 mm max. ± 0.004

### Geometric accuracies

- Runout: centre bore mm 0.01
- Axial runout precision on Ø 1,250 mm mm 0.05
- Plane parallelism of housing/table top related to Ø 1,250 mm mm 0.04

Higher geometric accuracies available on request.

### FIBROPLAN®

- NC. 2.09 DIMENSIONS
- ENCODING
- INSTALLATION POSITION OF STANDARD VERTICAL TABLE TOPS

Special versions available on request.
FIBROPLAN® NC. 2.10

DIMENSIONS

Table top Ø: 1,600 mm

Motor arrangement
- Preparation for installation of motor:
  - 0: No preparation
  - 1: Provided
- Motor supplied by customer:
  - 2: Yes
  - 3: No
- Drive on left:
  - L: Yes
  - R: No
- Gearwheel train:
  - Z: Yes
  - O: No
- Planetary gear:
  - P: Yes
  - N: No
- Belt train:
  - B: Yes
  - W: No
- Angular gear box:
  - A: Yes
  - H: No
- Hand crank:
  - H: Yes
  - S: No

1 Table top dimensions

Standard dimensions Ø 1,600 mm

2 Table top design

- Rotary: 1
- Rotary, with T-slots 22H7/H12: 2
- Square: 3
- Square, with T-slots 22H7/H12: 4
- Special version: 5

3 Table top clamping

- Without hydraulic clamping: 0
- With hydraulic clamping: 1
  - Normal pressure: 6 bar
  - Volume: 50 cm³
  - Max. pump capacity: 24 l/min

4 Measuring system

- Preparation for installation of measuring system:
  - 0: No preparation
  - 1: Provided
- Measuring system at motor provided:
  - 2: Yes
  - 3: No
- Direct measuring system:
  - 1: Yes
  - 2: No
- Indirect measurement on the motor:
  - 4: Yes
  - 5: No

5 Load data

- Perm. axial loading on table top, vertical N: 200,000 N
- Perm. radial loading on table top N: 400,000 N
- Perm. transport load on table top, vertical (flying load) kg: 12,000 kg
- Perm. support load on table top, vertical (with counter bearing) kg: 36,000 kg
- Permissible tilting moment, vertical on positioned table top Nm: 150,000 Nm
  - on rotating table top Nm: 37,500 Nm
- Perm. torque limit transferable by standard worm Nm: 40,000 Nm

6 Technical data

- Max. centred borehole (special version) mm: Ø 630
- Bearing inner Ø x outer Ø mm: 1030 x 1300
- Weight with Ø 1,600 mm table top (without motor) kg: 5,500 kg

7 Accuracies

Direct measuring system
- System accuracy in arc seconds max. ± 1 arcsec
- Indexing accuracy in arc seconds max. ± 2.5 arcsec
- Indexing accuracy in arc length on Ø 1,600 mm max. ± 0.010 mm

Indirect measuring system
- Indexing accuracy in arc seconds max. ± 8 arcsec
- Indexing accuracy in arc length on Ø 1,600 mm max. ± 0.031 mm

8 Geometric accuracies

- Runout: centre bore mm: 0.01 mm
- Axial runout precision on Ø 1,600 mm mm: 0.025 mm
- Plane parallelism of housing/table top related to Ø 1,600 mm mm: 0.05 mm

Higher geometric accuracies available on request

Special versions available on request
ACCESSORIES

COUNTER BEARING
- Available in different sizes
- Centre height according to customer needs
- With hydraulic clamping
- Optional: with rotary distributor for media feed-through

ROTARY DISTRIBUTOR
- For different mediums
- Integrated into rotary table or counter bearing
- Customised solutions

TAILSTOCKS
- Available in different sizes
- Operated manually or hydraulically
- Work centre MT1–MT6
- Centre height according to customer needs

HYDRAULIC UNIT
- For operation of rotary table clamping
- Mounted directly at rotary table or supplied as separate item

HYDRAULIC-FAST-CLAMP-BLOCK
- For extremely short clamping times
- Mounted directly at rotary table or supplied as separate item
SPECIAL SOLUTIONS
ROTARY TABLE/MULTI-AXIS COMBINATIONS

EXAMPLE SPECIAL SOLUTION
Rotary table/multi-axis combination 1

EXAMPLE SPECIAL SOLUTION
Rotary table/multi-axis combination 2

EXAMPLE SPECIAL SOLUTION
Rotary table/multi-axis combination 3

SPECIAL SOLUTIONS
ROTARY-LINEAR TABLES

EXAMPLE SPECIAL SOLUTION
Rotary-linear table 1

EXAMPLE SPECIAL SOLUTION
Rotary-linear table 2

EXAMPLE SPECIAL SOLUTION
Rotary-linear table 3
SPECIAL SOLUTIONS

FURTHER COMBINATIONS

EXAMPLE SPECIAL SOLUTION

Further combination 1

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EXAMPLE

Holding fixture 1

EXAMPLE SPECIAL SOLUTION

Further combination 2

EXAMPLE

Holding fixture 2

EXAMPLE SPECIAL SOLUTION

Further combination 3

EXAMPLE

Holding fixture 3
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