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Lean Your Production

Machining, automating, measuring ... lean & smart



Save Energy.

More Output.

Less costs.



Overview

01/2024 I FN

Upgrade for your standard machine.
Investment calculation. Highest productivity.
Benchmark. All from a single source.



Get more out of your standard machine: ...



Series 500

- Serial production of classical work pieces
 - → Positioning, simultaneous machining, multifunctional
- Many workpieces individually clamped and machined on smallest space
- Turns standard VMC's into a highly productive machining cell thanks to ultra-short cycle times









Series 900 DD

- Serial production of demanding workpieces
 - → complete machining Mill-Turn, gear skiving, fast & safe
- Wide range of automatic workpiece clamping with integrated safety
- Turns standard VBZ into a unique production system in the smallest of spaces, often at half the price







... Increase output, reduce costs, save energy



ROTOMATION



- Programming with machine CNC
- Unnecessary: door automation, automation interface, CE conformity, additional floor space, barrier
- Invest cheaply, produce unmanned, produce bravely





MA-Q08 and EA-Q08 with Tablet



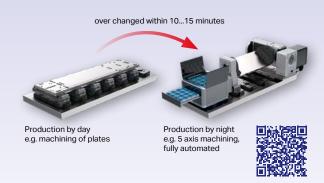
- Place & Play solution simply position precisely
- For CMMs and other process optimization equipment to produce high quality parts
- Measure as produced, same workpiece holder as in the machine tool
- Ready for automation
- CNC software can be used on any standard MS PC without a separate tablet





The correct machine concept The correct rotary table The correct automation

But: what is correct for YOU?

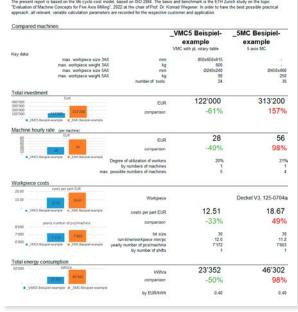




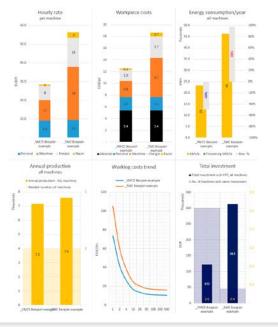
eVestor MT (Machine Tool)

What is economically correct for my workpiece

(increase and decrease quantities)? What is my portfolio? With which concept can I best scale energy and CO2 balance?



A management summary provides important information in a quick overview



Clear graphics provide information on key issues



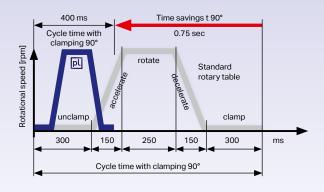
A number of different machines are available in a database for mutual comparison. A reliable and professional comparison provides answers to important questions.

Federal funding for energy efficiency in business

We also support you in applying for a subsidy (BAFA, Germany). An approved energy consultant uses the results of the eVestor MT to prepare the eligibility check (according to the BAFA funding program «Federal funding for energy efficiency in the economy - subsidy, module 4 - energy-related optimization of systems and processes». By means of an application BAFAG's decision can be shortened to 4-6 weeks for early implementation of measures.

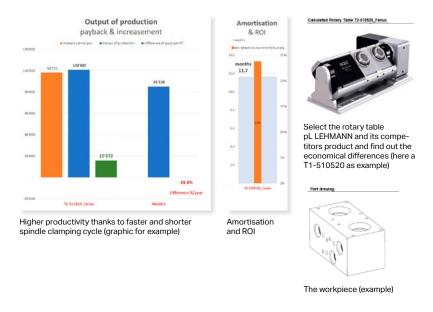
pL rotary table rotates and clamps faster





eVestor RT (Rotary Table)

3+ is the perfect machine concept, as found out by eVestor MT. But does the rotary table of pL LEHMANN the right one? How much costs cheap investing? Which additional output can be realized with pL? How easy can I convince my boss?

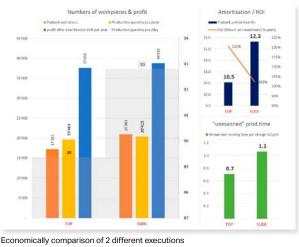




eVestor RtB (ROTOMATION transferBox)

Unmanned production without additional space around the machine. No door automation needed, no automation interface, no CE conformity, no additional footprint, no security barrier. 6 sides complete machining. But is it really economical? What variant is the right one for my needs?





High value retention: can be modified at any time, only 4 sizes Ø100 – 500 mm – over 290 standard configurations

EA → TF TIP + =

Diversity of products

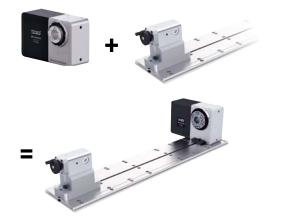


- Wide range of applications for each size
- Lower storage costs, also in service (spare parts)
- Increased sales and service productivity











Attention! Due to export control regulations, the conversion will only be carried out at headquarters.



Standard machine in stock, available at short notice, equipped with matching rotary table

Highest level of flexibility



- Rotary table is available quickly and can be converted at any time
- If the needs change, the investment is not lost
- Pay in installments: First, the machine later the rotary table - can be retrofitted at any time



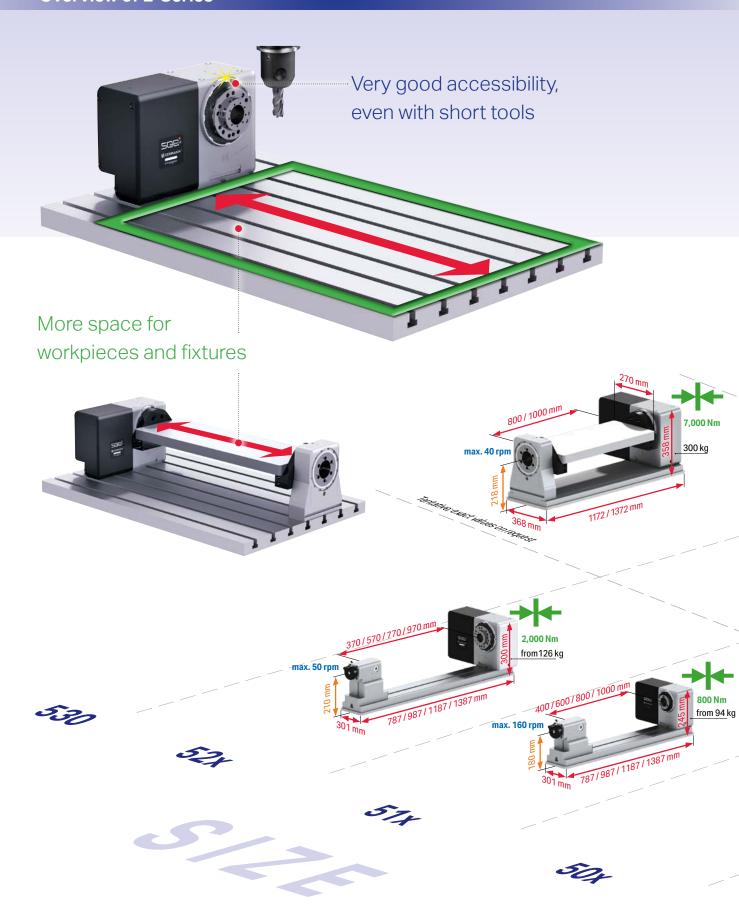
TF TIP T1 TAP

TF TIP → T1 TOP



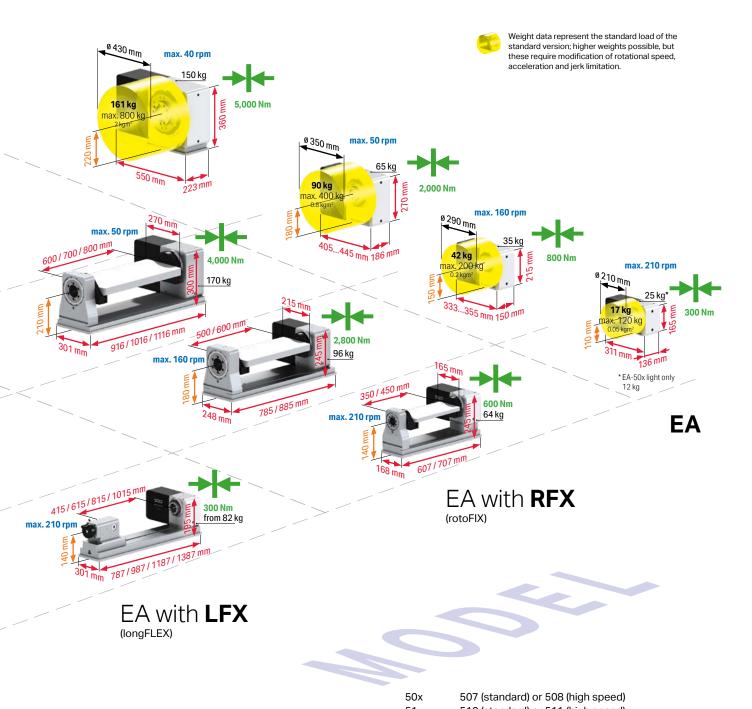
T1 TAP → T1 TOP





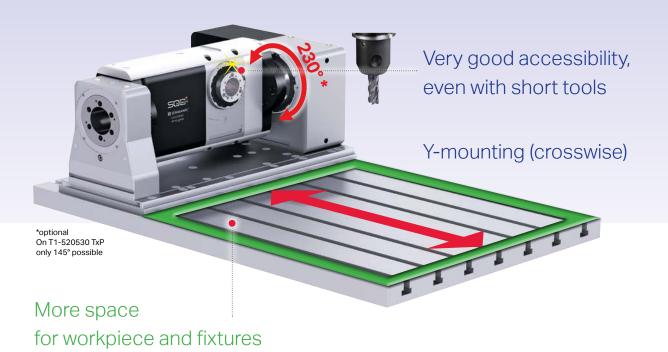
Facts

- High speed up to 210 rpm
- Steel base plates with hole pattern (matches a slot spacing of 100 mm and 125 mm)
- Cycle time for 90° as fast as 0.21 sec.



510 (standard) or 511 (high speed) 51x 52x 520 (standard) or 521 (high speed) EΑ single-axis, single-spindle CNC rotary table modular clamping yoke system

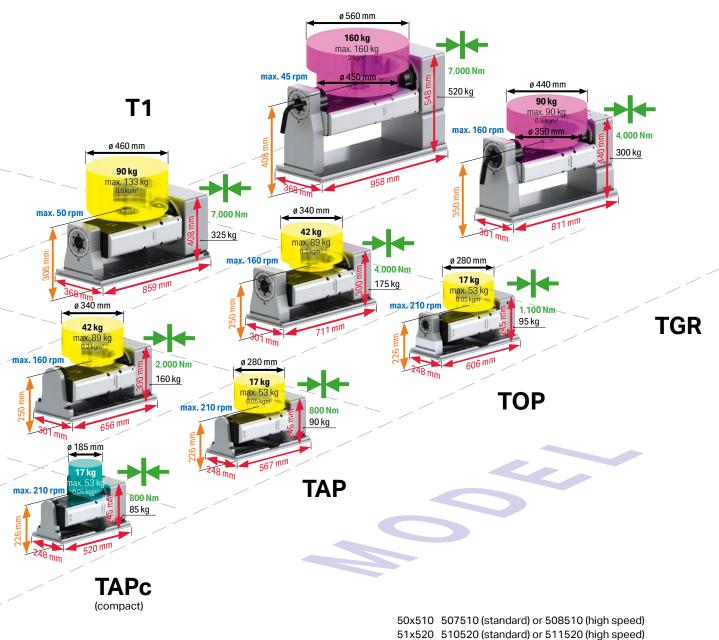
longFLEX modular shaft clamping system



Large available X-mounting (lengthwise) **T1** ø 450 mm 90 kg **T1** 5,000 Nm max. 50 rpm 300 kg ø 280 mm **T1** max. 50 rpm 5,000 Nm 270 kg TF ø 280 mm max. 160 rpm 2,000 Nm 90 kg 150 kg max. 50 rpm ø 220 mm 5,000 Nm 200 kg max. 160 rpm ø 185 mm 2,000 Nm 100 kg 53530 max. 210 rpm 800 Nm 50 kg **TIPc** 504570 (compact)

Facts

- Up to 150 % higher clamping torque in tilting axis
- Fewer variants more solutions
- Larger workpiece ø possible
- Spatially optimized arrangement of the dividing axis



th

Weight data represent the standard load of the standard version; higher weights possible, but these require modification of rotational speed, acceleration and jerk limitation.

51x520
 510520 (standard) or 511520 (high speed)
 52x530
 520530 (standard) or 521530 (high speed)
 TIPc
 Two-axis rotary table, no counter bearing, compact
 Two-axis rotary table, with supporting bearing, compact

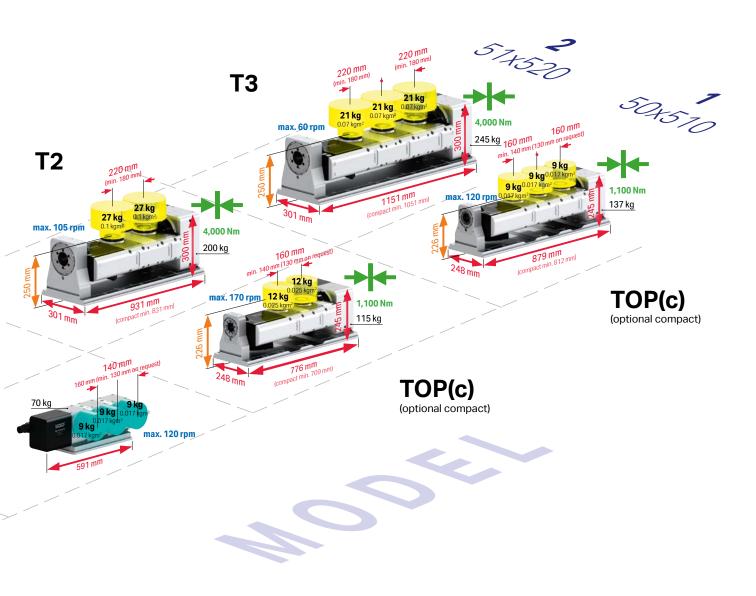
TAP Two-axis rotary table, with supporting bearing
TOP Two-axis rotary table, with clamped counter bearing
TGR Two-axis rotary table, with clamped counter bearing
specifically for grinding applications



Large available X-mounting (lengthwise) *optional **M3** 180 mm 102 kg **M2** 180 mm mm (min. 160 mm) max. 60 rpm 67 kg 140 mm 46 kg max. 105 rpm max. 170 rpm

Facts

- Up to 54 % higher clamping torque in tilting axis
- Fewer variants more solutions
- Spindle distance min. 130 mm
- Spatially optimized arrangement of the dividing axis





Weight data represent the standard load of the standard version; higher weights possible, but these require modification of rotational speed, acceleration and jerk limitation.

50x 507 (standard) or 508 (high speed)

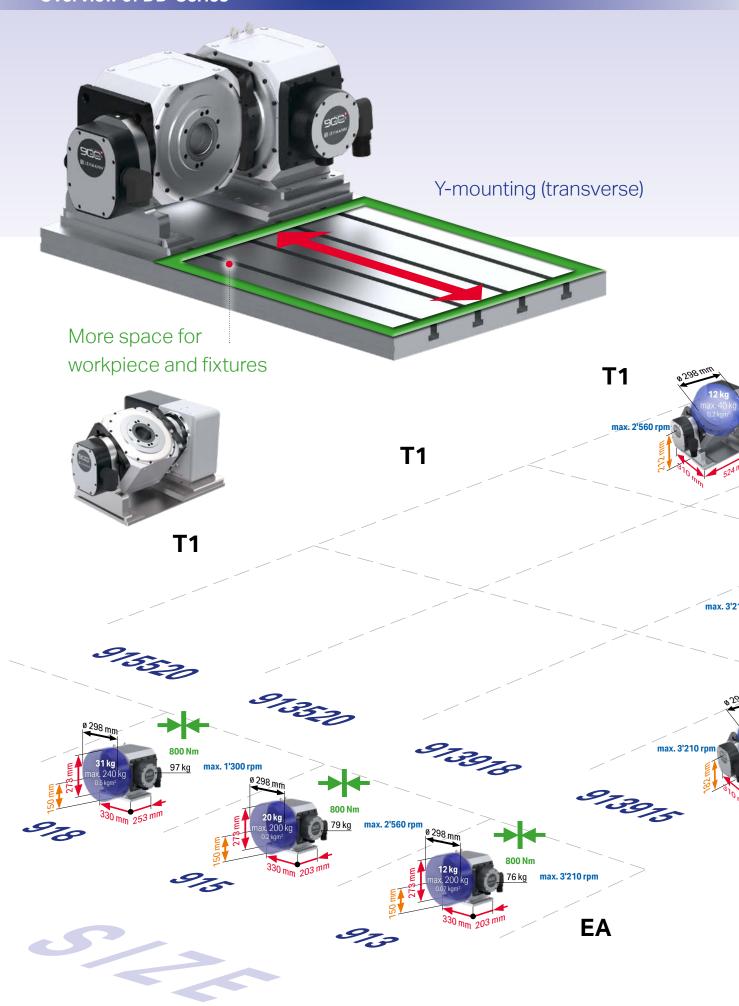
51x 510 (standard) or 511 (high speed)

M2 Single-axis, multi-spindle rotary table, 2-position

МЗ Single-axis, multi-spindle rotary table, 3-position

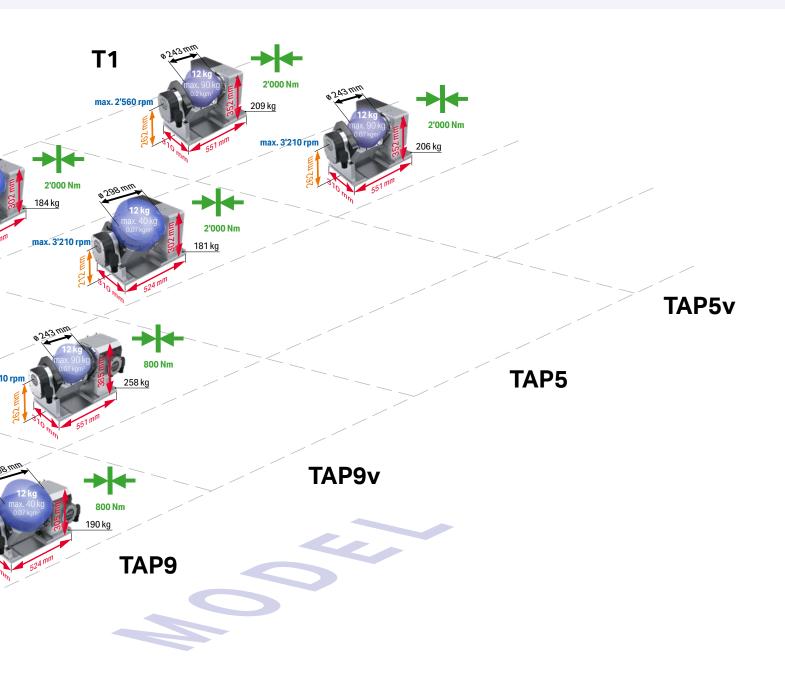
Two-axis multi-spindle rotary table, 2-position Two-axis multi-spindle rotary table, 3-position

T2



Highlights

- For millturn applications
 (e.g. watch cases from bar stock)
- DD up to 3,000 rpm available (up to 5,450 rpm technically possible)
- Very compact
- For Siemens, Mitsubishi, HEIDEN-HAIN and Fanuc (if Fanuc measuring system: 100% Fanuc DDT-compatible)





Weight data represent the standard load; higher weights possible, but require modification of rotational speed, acceleration and jerk limitation.

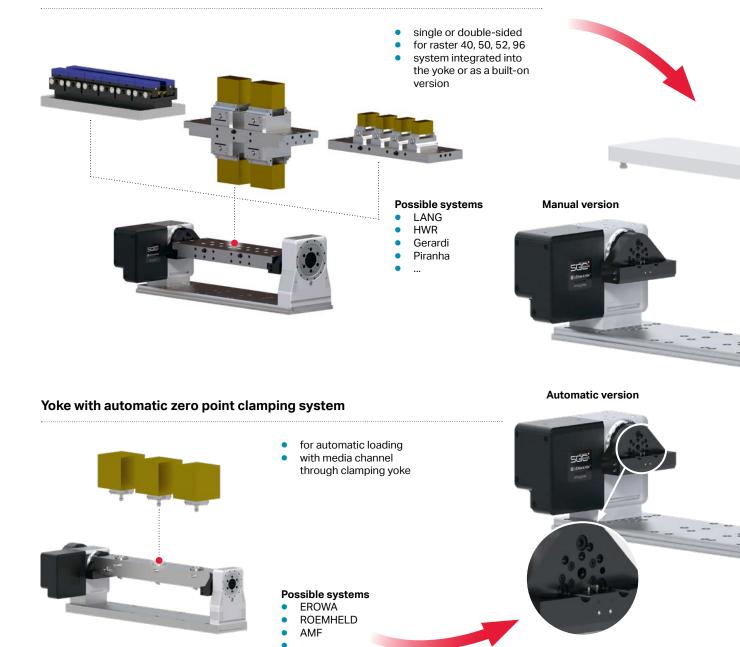
EA single-axis, single-spindle CNC rotary table
TAP two-axis rotary table, with supporting bearing
TAPv Two-axis rotary table, with support bearing,
low-profile version (vario)

Feed max.: without flux weakening



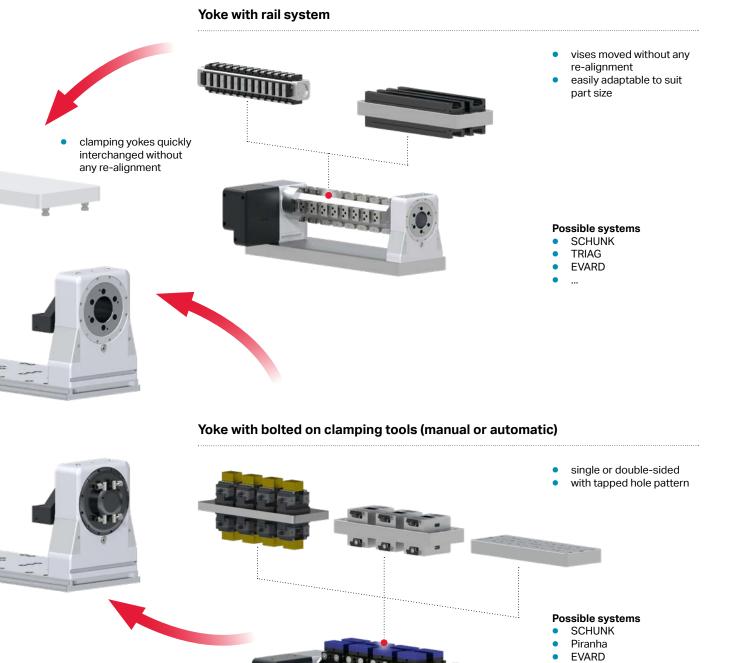
Potentials of clamping yokes with integrated or built-on zero point clamping system





with quick couplers for transfer of media

Clamping yokes with hole pattern for individual mounting of clamping tools or with a flexibly adjustable rail system

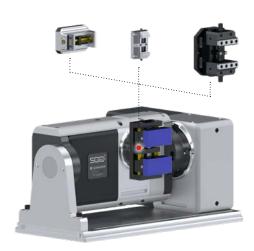


From manual clamping tools for single item production through to fully automated systems

Faceplates, force clamp and jaw chucks, collet chucks



Centric clamping unit



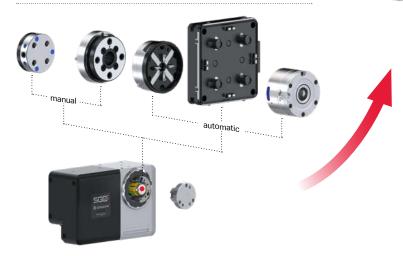
EVARD

TRIAG

Possible systems

- SCHUNK
- LANG
- Gressel
- Piranha Clamp

Zero point clamping systems



Possible systems

- pL LEHMANN (ripas & CAPTO)
 - Erowa
- System 3R
- Parotec
- Roemheld AMF

 - **SCHUNK**

LANG

GRESSEL



Centering clamping unit for workpiece handling, built-on zero point clamping system for quick vise interchange

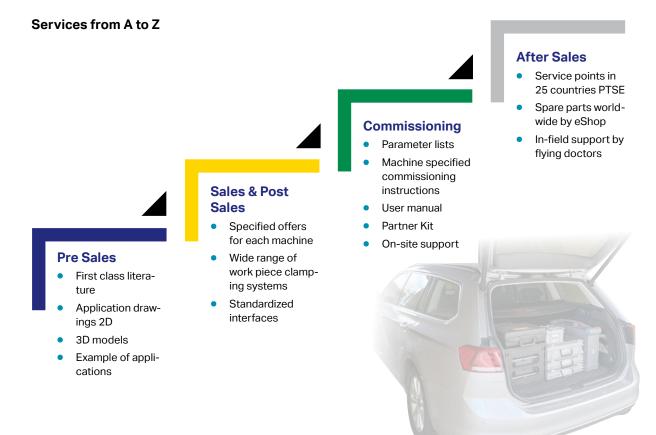
Possible combinations



Extremely wide assortment for workpiece clamping. Standardized interface in front and rear: maximum universality

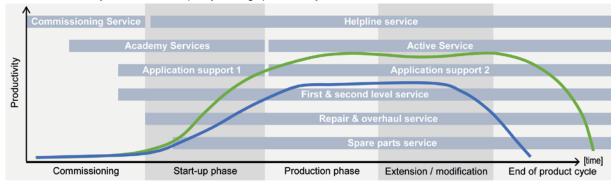






Increase productivity - Extend life cycle

Comprehensive and professional services throughout the product life cycle – maximum availability with consistent quality and high productivity.



Productivity with LifeCycle service products from pL LEHMANN
Productivity without service support

Interesting applications for increasing productivity

Provided on GF+ Machining Solutions, Akira Seiki, Almac, Amada Machine, AMS, AWEA, BFW, Blohm Jung, Bridgeport (Hardinge), Brother Milling, Chevalier, Chiron, DMG MORI, DN Solutions, Emco Famup, Fanuc Robodrill, Finepart, Feeler, Haas Automation, Hartford, Hasegawa, Hedelius, Hurco, Huron, Hwacheon, Hyundai WIA, ICON, Kitamura, Kondia, Leadwell, Makino, MAS, Mazak, Microlution, Mikron, Moore Tool, MT EVO, POSmill (Microcut), Quaser, Sauer (DMG MORI), Spinner, Stama, TongTai, Toyoda, Unitech, Willemin-Macodel, XYZ, YCM



T1-913915 - power skiving - Mechanics



T1-520520 - Milling/boring - Mechanics



TF-507510 - Milling/boring - Dental Technology



EA-510 rotoFIX - Milling/boring - Automotive



T2-507510 - Milling/boring - Automotive



T1-520520 - Milling/boring - Mechanics



EA-915



 ${\sf T1\text{-}520520-Grinding-Aerospace/Turbines}$



EA-510 – Grinding – Mechanics



TF-507510 - Milling/boring - Medical technology



TF-507510 – Milling/boring – Watches/Micro Technology



T1-913915 TAP9 – Turning/Milling/boring



Additional interesting examples of applications can be found on our website www.lehmann-rotary-tables.com in the Download / Applications area



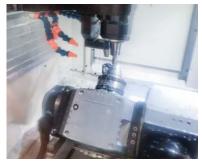
M2-510 - Milling/boring - Automotive



EA-510 – Milling/boring – Automotive



TF-507507 – Milling/boring – Dental Technology



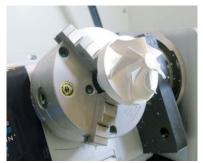
T1-913915 TAP9 - Turning/Milling/boring - Mechanics



T1-510520 - Grinding - Aerospace/Turbines



EA-510 rotoFIX - Milling/boring - Mechanics



T1-510520 - Milling/boring - Mechanics



T3-510520 – Milling/boring – Automotive



T1-507510 – Waterjet drilling – Aerospace/Turbines



EA-510 longFLEX – Milling/boring on horizontal center – Mechanics



EA-520 - Milling/boring - Mechanics



T1-913915 TAP9 – Turning/Milling/boring





ROTARY SOLUTIONS > MACHINE TOOLS & METROLOGY

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