indunorm
Bewegungstechnik







MOVING THE FUTURE



“Yesterday, today and tomorrow – we’re always there for you!”

1

1973
Indunorm GmbH founded

1985
Started distributing THK products

1997
Started developing and manufacturing linear axes and axis systems

2001
Subsidiary
Indunorm Fertigungstechnik founded

2004
Development of Indumatik® linear axis robots for loading components at machining centres

2005
Construction of the linear technology logistics centre in Duisburg to supply the European market faster

2012
Stuttgart branch founded

2016
Once again named „Top Sales Performer“ and largest European distributor by THK.

Indumatik® ToolChanger developed to expand tool range for milling machines

2018
New Indumatik location in Duisburg

2023
50 years of Indunorm

INDUNORM
CONTINUES TO GROW

For over 40 years, Indunorm Bewegungstechnik has been a leading company in the development, production and sales of linear movement guides and handling systems.

As THK's largest distributor in Europe, we have over 140 employees at three locations to support our customers with linear movement technology products. We supply the European market from our state-of-the-art logistics centre in Duisburg.

Our Stuttgart location serves as an engineering partner and linear technology specialist for Southern Germany.

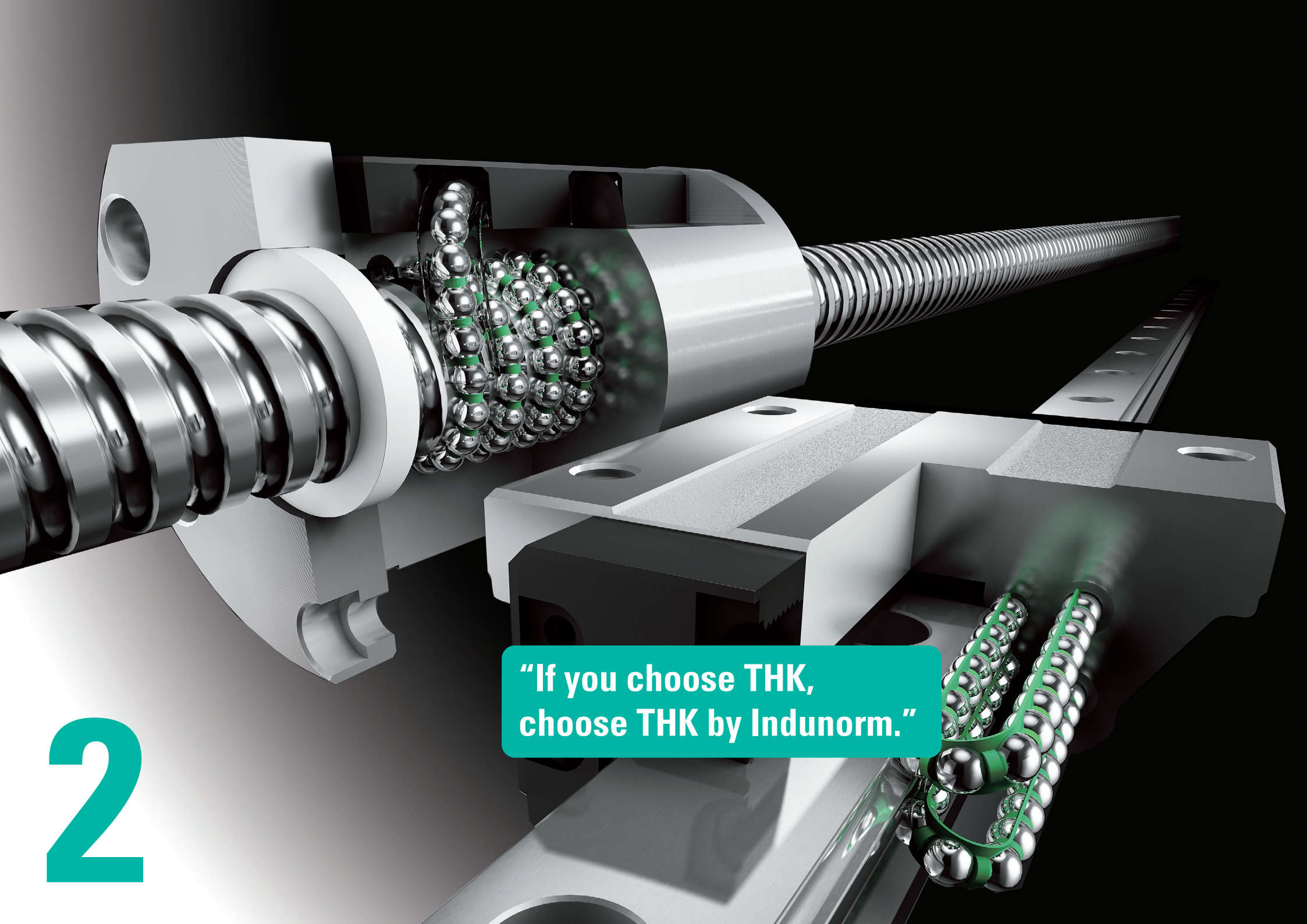
Fast delivery times are standard thanks to our high stock level.



Klaus-Dieter Matthes, Thomas Droste, Managing Director



Our Team in Duisburg


“If you choose THK,
choose THK by Indunorm.”
2

THK BY INDUNORM

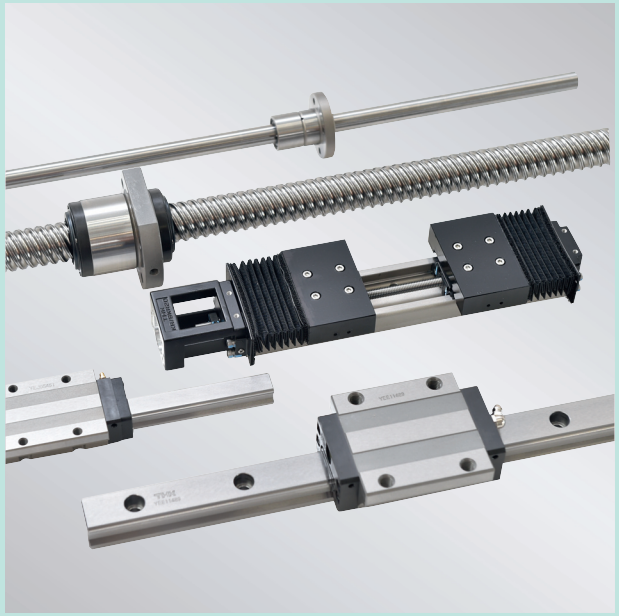
STRONG PARTNER, STRONG PRODUCTS

As Europe's largest distributor of THK products, Indunorm is a capable and reliable partner, representing quality and availability in the field of THK linear technology.

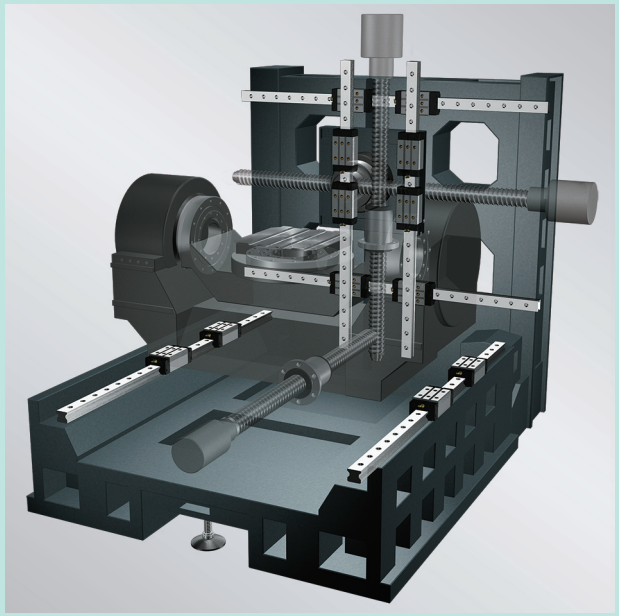
High stock capacities, fast delivery times and the adaptation of products to suit your needs are just some of our strengths when it comes to the distribution of THK quality products!

BENEFITS OF INDUNORM

- High stock capacities
- Short delivery times
- Customised adaptations



An excerpt of our products



THK LM Guide application example

THK LM GUIDE

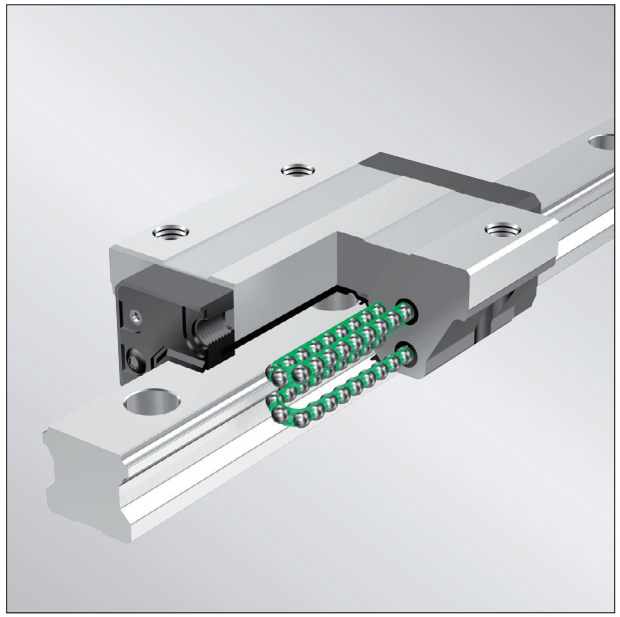
Our ball chain technology ensures outstanding running properties, a long service life and long lubrication cycles.

THK COMPACT BALL SPLINE

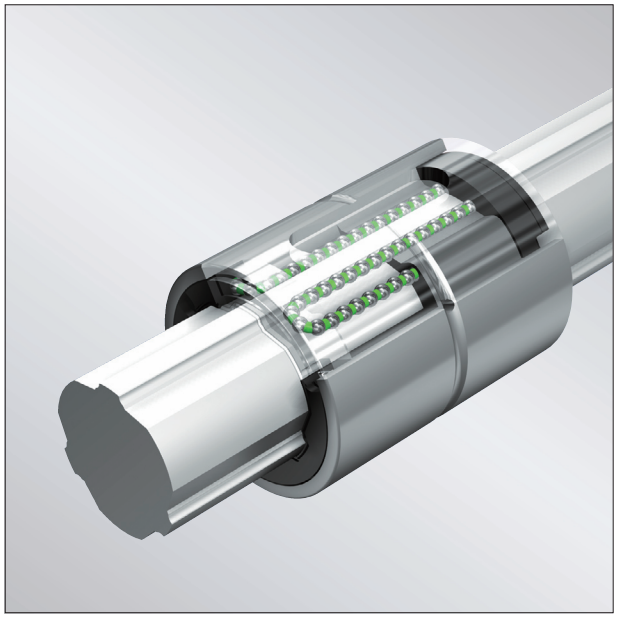
Torsion-proof shaft guides are innovative linear movement guide systems. The spline nut transfers torque and can simultaneously carry out linear movements.

THK BALL SCREW

Interior balls ensure highly efficient movements. This reduces the drive torque by two thirds compared to trapezoidal spindles.



THK LM Guide



THK Compact Ball Spline



THK Ball Screw

THK CROSS-ROLLER RING SERIES

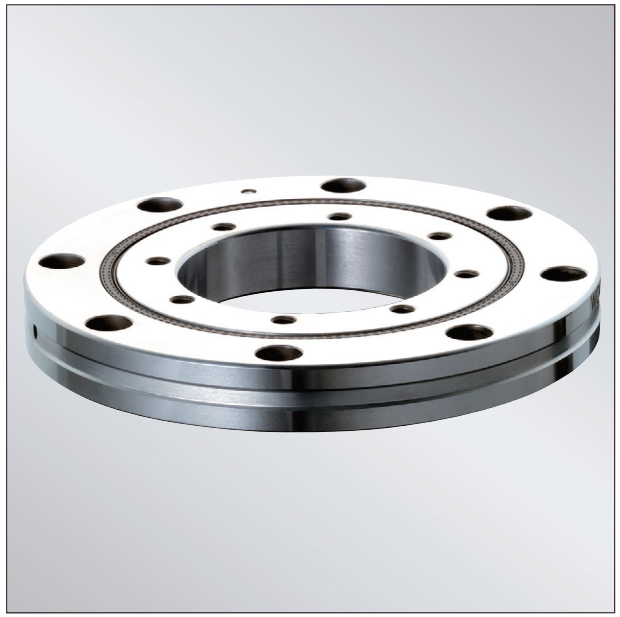
This roller bearing offers high rotational accuracy and can handle high loads in any direction.

THK CAGED ROLLER LM GUIDE

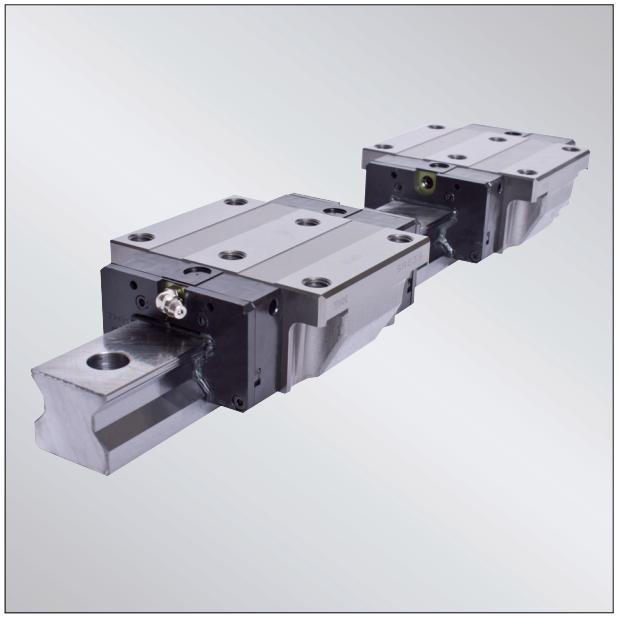
The ultra-rigid caged roller LM guide with smooth running properties enables maintenance-free operation. With the rollers as the rolling elements and the use of the caged roller, a very rigid guide system with outstanding running properties is ensured without rollers tilting. The mounting surfaces must thereby be extremely precisely machined.

CUSTOMISATIONS

- Specially-machined slide and carriage, e. g. fitted bore
- Pretension adjustment by exchanging balls for all sizes
- Special lubrication, e. g. food grade lubricant
- Coated carriage and slide surfaces
- Customisation according to customer requirements



THK-Kreuzrollenlager



THK-Rollenkettenführung



Montage von Schmiernippeln



“Flexible and rapidly available – thanks to our high stock levels.“

3

SAMICK BALL BUSHINGS

As the European distributor for Samick Precision, we supply the entire product range of ball bushings, housing units, shafts and accessories. Our ball bushings and shafts are also available in corrosion-resistant versions. At our plant in Duisburg, highly-qualified specialists work on implementing your custom end machining.

ROLLER LM GUIDES

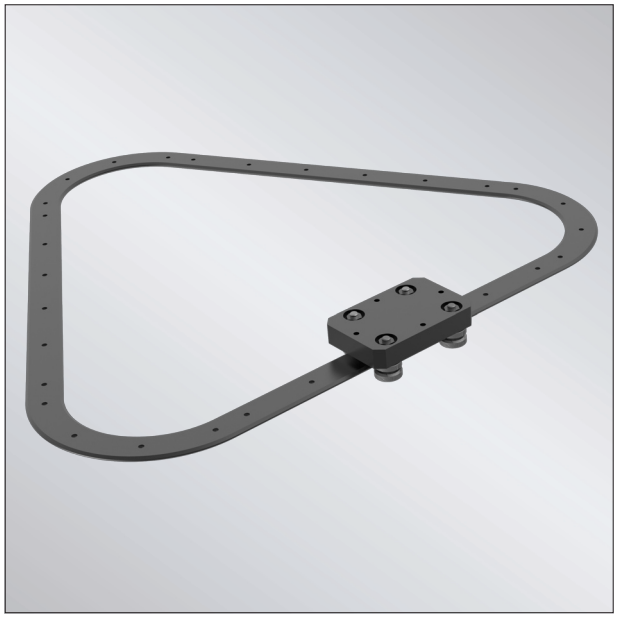
When it comes to light loads and smooth movement, or heavy loads and harsh environmental conditions – with roller linear movement guide systems, you as the designer will be able to reach your goal together with your customers. Our roller LM guides provide our customers with product ranges suitable for many applications, pushing recirculating ball systems to their limits.

TELESCOPIC GUIDES

We added robust, flexurally-rigid telescopic slides to our product portfolio. The comprehensive range is available in various lengths and a variety of loads up to 2000 kg. The guides are extremely smooth running and can be used very flexibly.



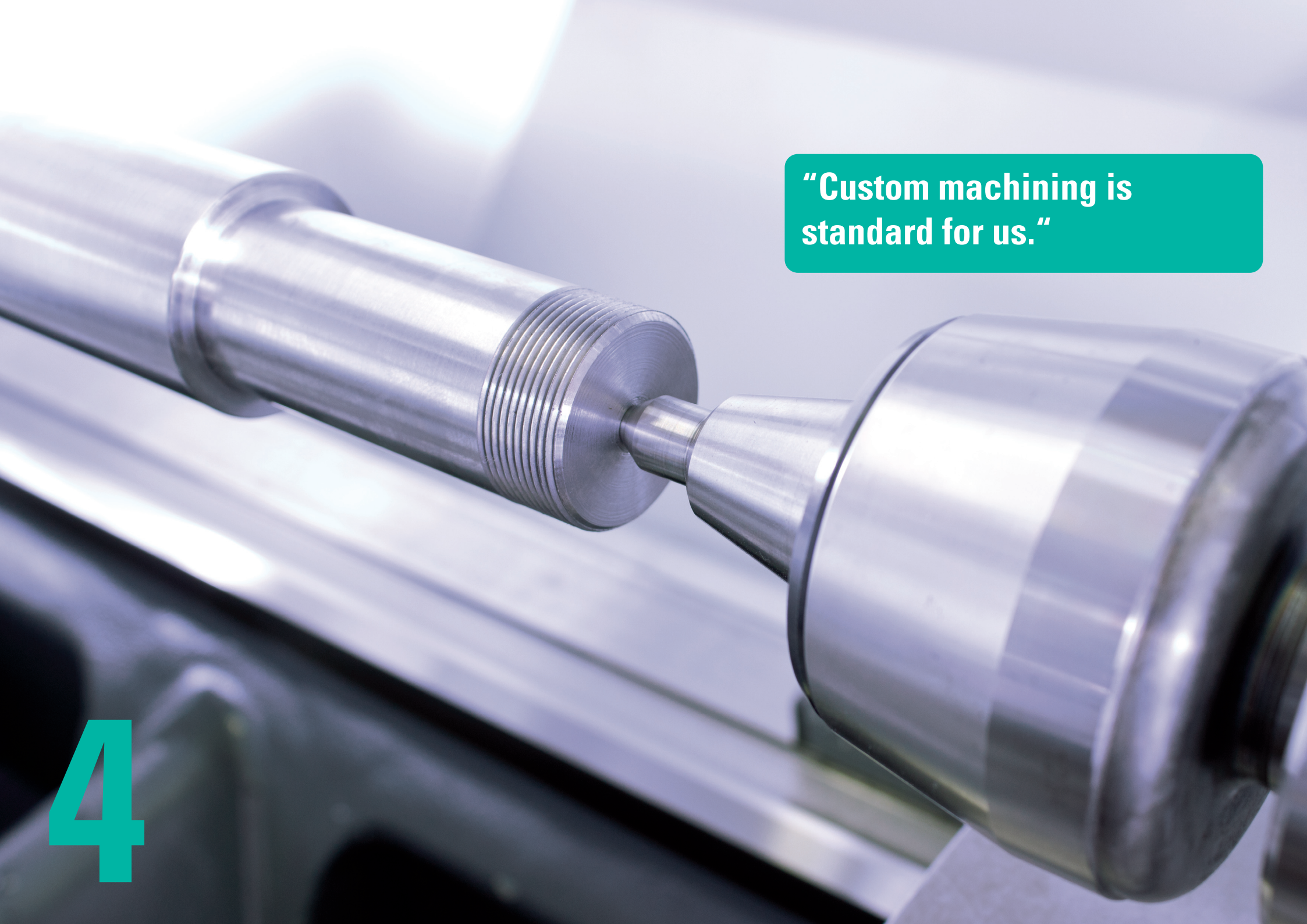
Ball Bushings



Roller LM Guide Systems



Telescopic Guides


“Custom machining is standard for us.“

BALL SCREWS

Our ball screws stand out due to their high positioning accuracy and long service life. A high inventory of DIN ball screws guarantees fast delivery times. Our flexible manufacturing can also quickly implement custom end machining from drawings.

TRAPEZOIDAL SCREW DRIVES

Trapezoidal screw drives are a low-cost alternative to ball screws. Since trapezoidal screw drives are self-locking, they rarely need to be secured (e. g. brake). Trapezoidal screw drives optimally tailored to your needs with special grades or special nut dimensions complete our flexible product range.

CUSTOMISATION

- Custom end machining implemented quickly
- Fast delivery times for standard versions



Ball Screws



Trapezoidal Screw Drives



Pretension Adjustment

5



“We tackle the most complex of projects together with our customers.“

LINEAR AXES BY INDUNORM

INNOVATION WITH SYSTEM

Drawing on our years of experience in linear technology, our engineers have developed a comprehensive product range of linear axes and systems. Apart from individual components, we now also supply linear axis systems and custom assemblies.

ON-SITE CONSULTATION

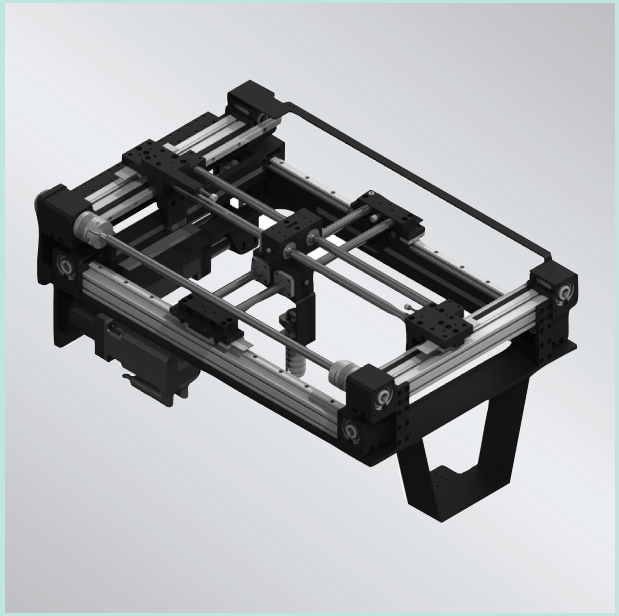
Our engineers will gladly provide an on-site consultation and develop innovative solutions for your specific situation together with you.

IN-HOUSE FABRICATION

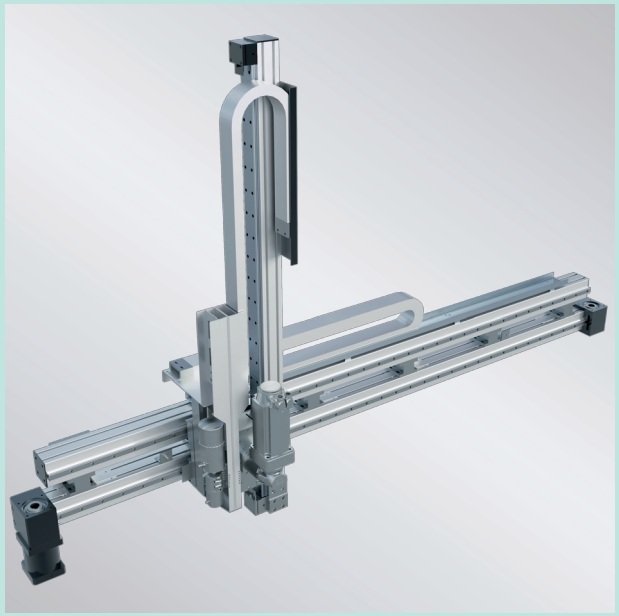
We produce components at our production facility using state of the art machines which are in part fully automated.

NEW STANDARDS

Our developments set standards in linear movement technology. An optimised price-performance ratio along with a high-quality standard is very important to us.



Area Gantry

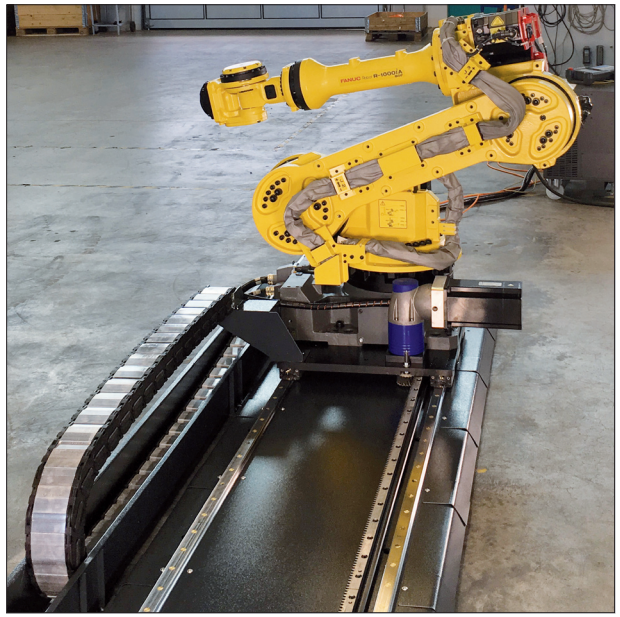


Multi-Axis System

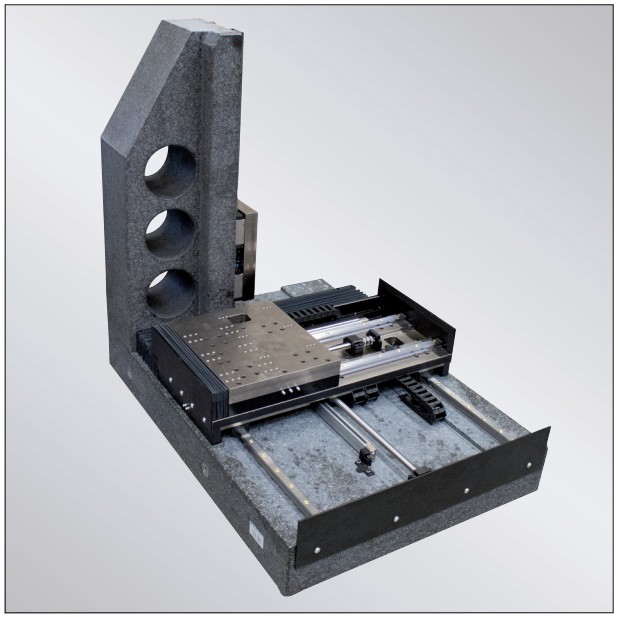
GROUND CARRIAGE
BFW 800
- Up to 70 m/min
- Compact design
- Extremely low overall height
- Modular length extension
- With energy chain guide
- With integrated lubrication
- Sturdy floor anchor

3-AXIS SYSTEM FOR
LASER EQUIPMENT
- High rigidity
- Long-lasting accuracy
- Exact dimensional stability for adjacent construction
- Basic structure made from hard stone

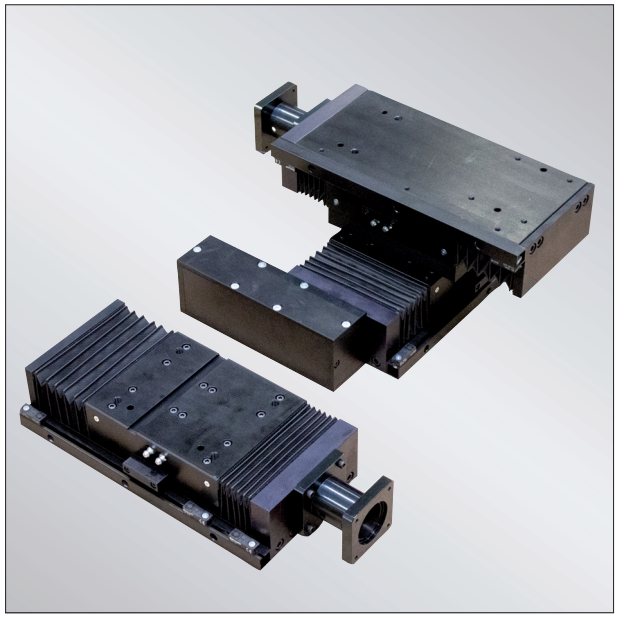
LINEAR TABLE/
CROSS TABLE
- Steel linear table
- Different motor connections available (toothed belt transmission, direct flange)
- Spindle drive
- High repeat accuracy
- Axial rigidity



Ground Carriage BFW 800



3-Axis System for Laser Machine



Linear Table/Cross Table

CLOSED
LINEAR AXIS

- Metal sandwich conveyor
- THK inside
- Spindle drive
- Sandwich conveyor makes it suitable for unclean environments

UNLOADING SYSTEM
FOR PLASTICS MACHINE

- Highly dynamic with small axial dimensions
- Sheet metal construction to optimise weight
- Customised adaptations implemented by our engineers

COMPONENT LIFT MAGAZINE
FOR ROBOT LOADING

- Compact design
- Self-locking trapezoidal threaded spindle
- Very little machining
- Good price-performance ratio



Linear Axis with Metal Sandwich Conveyor



Unloading System



Component Lift Magazine



“We specialise in axis systems made from standard components.“

CLOSED LINEAR AXES
WITH BALL SCREW

The linear axes with ball screw stand out due to high positioning accuracy and repeat accuracy, and a high-power transmission. The ball screw and the linear movement are protected by a sandwich conveyor. The linear axes are therefore enclosed and can be used in a variety of areas, including dirty environments.



LAG Ball Screw

CLOSED LINEAR AXES
WITH GEARED BELT DRIVE

The closed geared belt axes are designed for high travel speeds. The sandwich conveyor allows the linear axes to be used outside closed machines and in dirty environments. Slotted versions allow lifting significantly higher than 6 metres. The wide versions with parallel linear movement guides are also suitable for building linear portals.



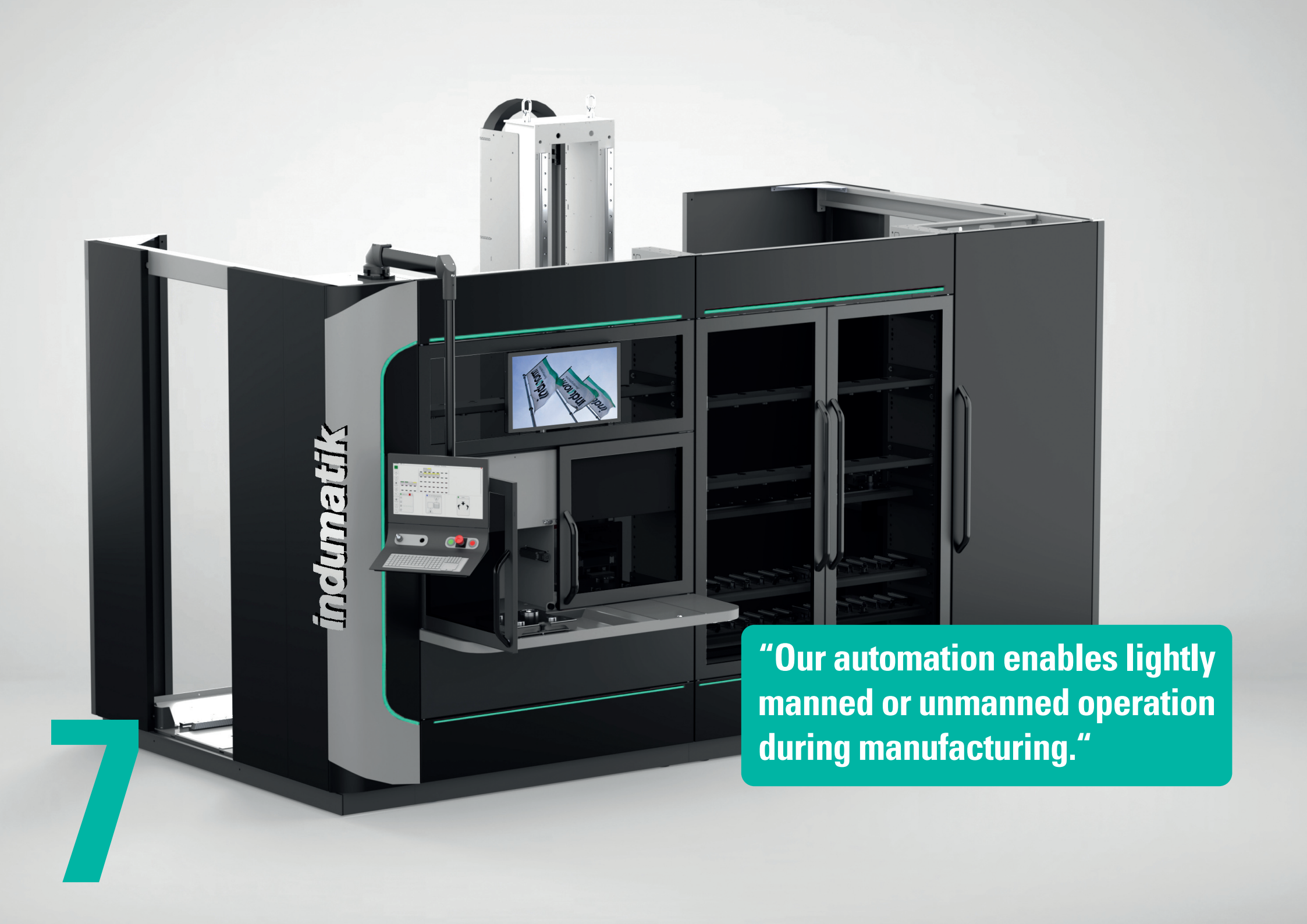
LAG Toothed Belt Drive

OPEN LINEAR AXES
ECONOMIC

Wherever linear axes are used in machine rooms and closed function cells, the Economic open geared belt axes are a good choice. The cost-effective linear axes have flexurally and torsionally rigid aluminium profiles. The exterior linear movement guides are generously sized. They're designed for fast handling and positioning tasks.



LAE Economic



7

“Our automation enables lightly manned or unmanned operation during manufacturing.“

INDUMATIK® BY INDUNORM

AUTOMATION MADE EASY

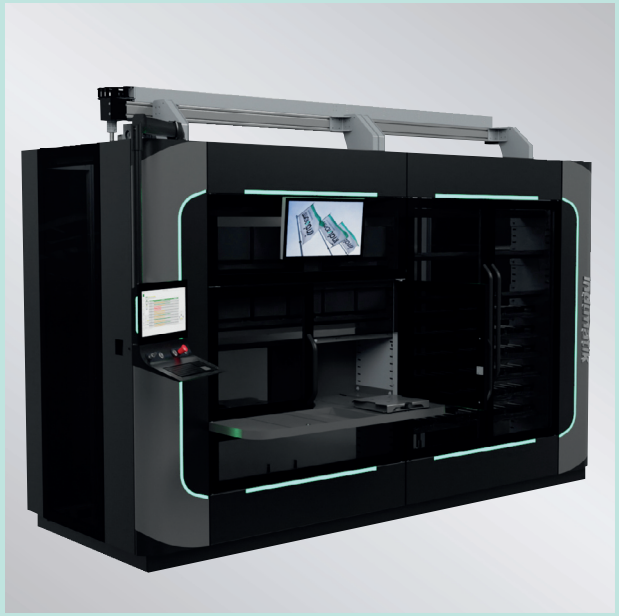
Our Indumatik® linear axis robot is an innovative product for automated component and tool change. The robot makes equipping production machines more effective, thus reducing costs, and the increase in productivity also increases the profits of our customers.

LAYOUT

With the Indumatik® we have developed an overall concept consisting of linear-axis robot, clamping system and component magazine. The modular design allows for a number of options in order to tailor the system optimally to your specific handling task.

CONNECTIVITY

Our technicians will handle the mechanical and electrical connection to your machine tool, working in close cooperation with you and the machine tool manufacturer. This of course complies with the CE directives. Virtually any existing machine tool can be retrofitted.



Indumatik® VL 40



Indumatik® VR 70

Partner of: HEIDENHAIN PARTNER AUTOMATION

GENERAL OVERVIEW INDUMATIK®

INDUMATIK® UL 100

Dimensions [B x T x H]	1680 x 1680 x 2000 mm
permissible handling weight	100 kg
Pallet gripper	Zero-point gripper
Sub-gripper or Gripper options	Parallel gripper / Fork gripper
Storage place size (W x D) in standard	50 x 50 mm / 200 x 200 mm / 320 x 320 mm / 400 x 400 mm
Possible number of pallet spaces	6 / 8 / 16
Pallet spaces on two levels	30 / 90
Control	Touchscreen
Storage/relocation of the workpiece	via loading door
Moving device	optional



Indumatik® UL 100

INDUMATIK® UL 300

Dimensions [B x T x H]	2100 x 2100 x 2000 mm
permissible handling weight	300 kg
Pallet gripper	Fork gripper
Sub-gripper or Gripper options	Zero-point gripper
Storage place size (W x D) in standard	200 x 200 mm / 320 x 320 mm / 400 x 400 mm / 500 x 500 mm
Possible number of pallet spaces	20 / 10 / 8 / 6
Control	Touchscreen
Storage/relocation of the workpiece	via loading door
Moving device	optional



Indumatik® UL 300

INDUMATIK® L 8

Dimensions [B x T x H]	1120 x 875 x 2100 mm
permissible handling weight	8 kg
Pallet gripper	Fork gripper
Sub-gripper or Gripper options	Parallel gripper
Storage place size (W x D) in standard	50 x 50 mm / 120 x 120 mm
Possible number of pallet spaces	40 ... 120
Control	Touchscreen opt. master computer
Storage/relocation of the workpiece	via loading door

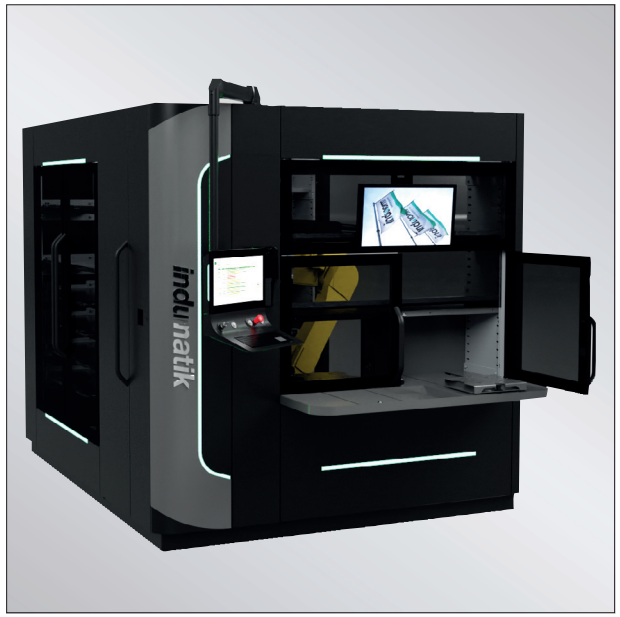


Indumatik® L 8

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INDUMATIK® VR 70

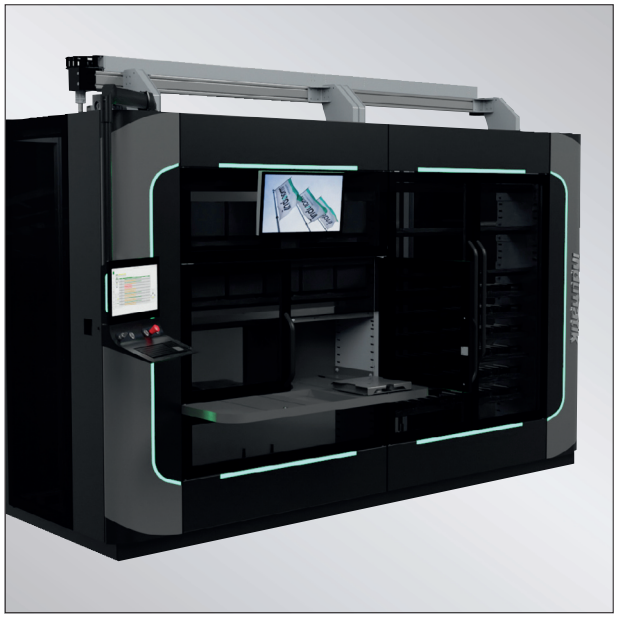
Dimensions [B x T x H]	2400 x 3100 x 2900 mm
permissible handling weight	70 kg
Pallet gripper	Zero-point gripper
Sub-gripper or Gripper options	Parallel gripper, Fork gripper Premium workpiece gripper
Storage place size (W x D) in standard	10 x 10 mm bis 400 x 400 mm
Control	Touchscreen, optional master computer
Storage/relocation of the workpiece	2-fold storage and retrieval station Part carrier for workpieces
Mehrmaschinencontrol	Flexibly expandable



Indumatik® VR 70

INDUMATIK® VL 40

Dimensions [B x T x H]	2100 x 1500 x 2900 mm
permissible handling weight	40 kg
Pallet gripper	Zero-point gripper
Sub-gripper or Gripper options	Fork-, Parallel-, Tool gripper basic
Storage place size (W x D) in standard	30 x 30 mm, 200 x 200 mm
Palettenplätze im Standard	15 / 60 individually expandable
Control	Control software InduCell
Storage/relocation of the workpiece	2-fold storage and retrieval station Part carrier for workpieces
Mehrmaschinencontrol	Flexibly expandable



Indumatik® VL 40

INDUMATIK® VL 80

Dimensions [B x T x H]	2200 x 2300 x 2900 mm
permissible handling weight	80 kg
Pallet gripper	Zero-point gripper
Sub-gripper or Gripper options	Fork-, Parallel-, Tool gripper basic
Storage place size (W x D) in standard	30 x 30 mm, 200 x 200 mm, 320 mm x 320 mm
Palettenplätze im Standard	12 / 30 individually expandable
Control	Control software InduCell
Storage/relocation of the workpiece	2-fold storage and retrieval station Part carrier for workpieces
Mehrmaschinencontrol	Flexibly expandable



Indumatik® VL 80

INDUMATIK® L 30

Dimensions [B x T x H]	1740 x 1300 x 2400 mm
permissible handling weight	30 kg
Pallet gripper	Fork gripper
Sub-gripper or Gripper options	Zero-point gripper, Paralell gripper
Storage place size (W x D) in standard	240 x 190 mm
Possible number of pallet spaces	50
Control	Touchscreen, optional master computer
Storage/relocation of the workpiece	2-fold storage and retrieval station
Moving device	optional



Indumatik® Light 30

INDUMATIK® L 60

Dimensions [B x T x H]	1900 x 1590 x 2400 mm
permissible handling weight	60 kg
Pallet gripper	Zero-point gripper
Sub-gripper or Gripper options	Fork gripper, Paralell gripper
Storage place size (W x D) in standard	200 x 200 mm / 320 x 320 mm
Possible number of pallet spaces	24
Option direktes Werkstückhandling	available
Control	Touchscreen, opt. Leitrechner
Storage/relocation of the workpiece	2-fold storage and retrieval station
Moving device	optional



Indumatik® Light 60

INDUMATIK® L 120

Dimensions [B x T x H]	2400 x 2500 x 2900 mm
permissible handling weight	120 kg
Pallet gripper	Zero-point gripper
Sub-gripper or Gripper options	Fork gripper, Paralell gripper
Storage place size (W x D) in standard	200 x 200 mm /320 x 320 mm / 400 x 400 mm
Possible number of pallet spaces	30 / 24
Option direktes Werkstückhandling	verfügbar
Control	Touchscreen, opt. Leitrechner
Storage/relocation of the workpiece	2-fold storage and retrieval station
Moving device / Two-machine control	optional



Indumatik® Light 120

INDUMATIK® 200 R I 500 R

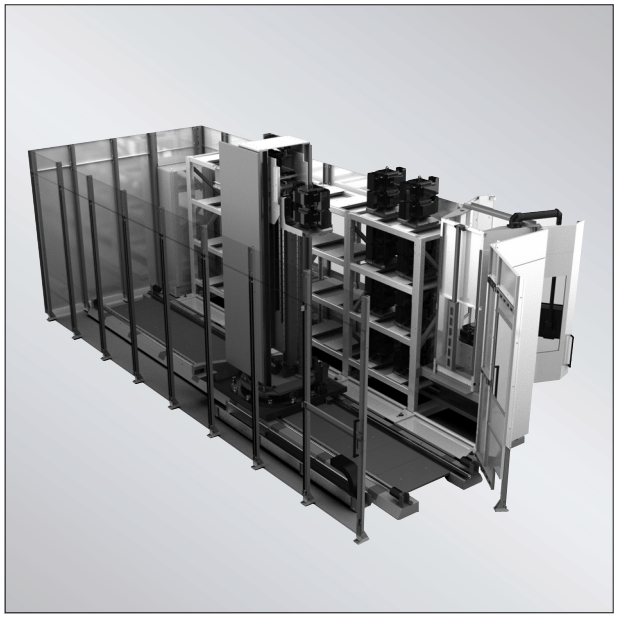
Dimensions [B x T x H]	4000 x 2900 x 3000 mm	5000 x 3900 x 3600 mm
permissible handling weight	200 kg	500 kg
Pallet gripper	Zero-point gripper	Fork gripper
Sub-gripper or Gripper options	Fork gripper, Paralell gripper	–
Storage place size (W x D) in standard	50 x 50 mm 200 x 200 mm 320 x 320 mm 400 x 400 mm	400 x 400 mm 500 x 500 mm 630 x 630 mm 800 x 800 mm
Possible number of pallet spaces	30 individually expandable	15 individually expandable
Control	Touchscreen, optional master computer	
Storage/relocation of the workpiece	1-fold set-up station incl. rotatable set-up station	



Indumatik® 200 R I 500 R

INDUMATIK® 200 L I 500 L

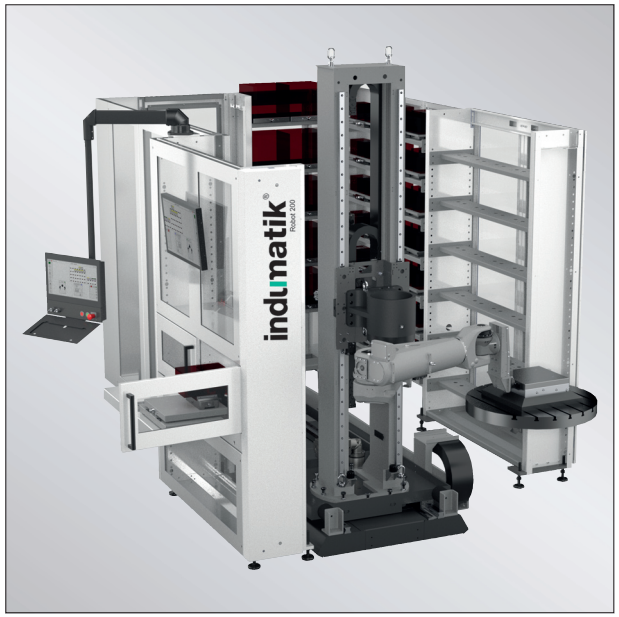
Dimensions [B x T x H]	4000 x 3500 x 3000 mm	3500 x 4000 x 3600 mm
permissible handling weight	200 kg	500 kg
Pallet gripper	Zero-point gripper	Fork gripper
Sub-gripper or Gripper options	Fork gripper, Paralell gripper	–
Storage place size (W x D) in standard	50 x 50 mm 200 x 200 mm 320 x 320 mm 400 x 400 mm	400 x 400 mm 500 x 500 mm 630 x 630 mm 800 x 800 mm
Possible number of pallet spaces	46 individually expandable	12 individually expandable
Control	Touchscreen, optional master computer	
Storage/relocation of the workpiece	1-fold set-up station incl. rotatable set-up station	
Multi-machine control	Flexibly expandable	



Indumatik® 200 L I 500 L

INDUMATIK® R 200 I R 500

Dimensions [B x T x H]	3700 x 2800 x 3000 mm	
permissible handling weight	200 kg	500 kg
Pallet gripper	Zero-point gripper	Fork gripper
Sub-gripper or Gripper options	Fork gripper, Paralell gripper	–
Storage place size (W x D) in standard	50 x 50 mm 200 x 200 mm 320 x 320 mm 400 x 400 mm	400 x 400 mm 500 x 500 mm 630 x 630 mm 800 x 800 mm
Possible number of pallet spaces	46 individuell erweiterbar	12 individuell erweiterbar
Control	Touchscreen, opt. Leitrechner	
Storage/relocation of the workpiece	2-fold storage and retrieval station	
Multi-machine control	Flexibly expandable	



Indumatik® R 200 I R 500

PRODUCT OVERVIEW

THK LM GUIDE

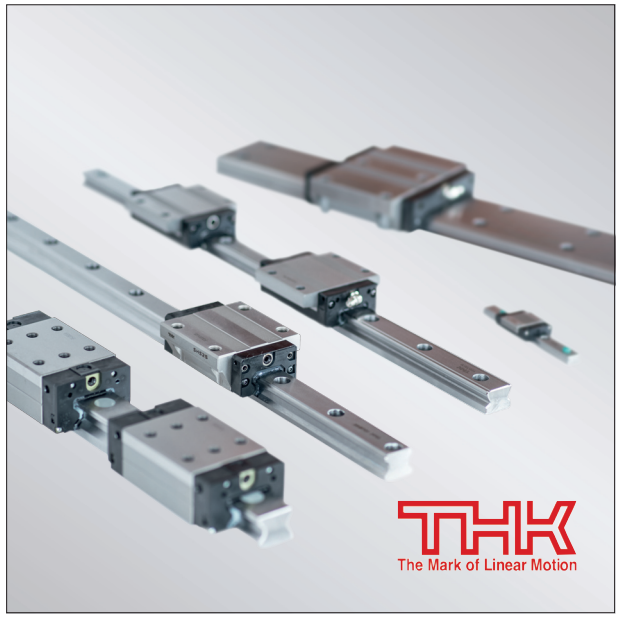
- THK caged ball technology
- High efficiency
- Maintenance-free long term
- High stock capacities

BALL SPLINES AND BALL GROOVE SHAFTS

- High accuracy
- Good high-speed running properties
- Custom end machining

CROSS ROLLER RING

- Extremely efficient cylinder roller bearing for high moment loads
- Maximum true-running accuracy
- Prevents rollers from tilting



LM Guides



Ball Spline and Ball Groove



Shafts Cross Roller Rings

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BALL SCREWS

- Designed and computed by our engineers
- Custom end machining
- Axial clearance or pretension adjustment
- High stock capacities with a large range of models

TRAPEZOIDAL SCREW DRIVES

- High stock capacities
- Custom end machining
- Self-locking

BALL BUSHINGS AND SHAFTS

- Large selection of European and Asian dimensions
- High-quality name-brand products
- Fast delivery ex stock
- Custom guide shaft machining



Ball Screws



Trapezoidal Screw Drives



Ball Bushings

ROLLER LM GUIDES

- Model ranges for light loads and smooth running
- Model ranges for heavy loads and harsh environments
- Systems for linear and curved movements
- Rust-proof versions available

TELESCOPIC GUIDES

- Robust machine design
- Cost-effective
- High stock capacities at the Duisburg location

TOOTHED BELT AXES

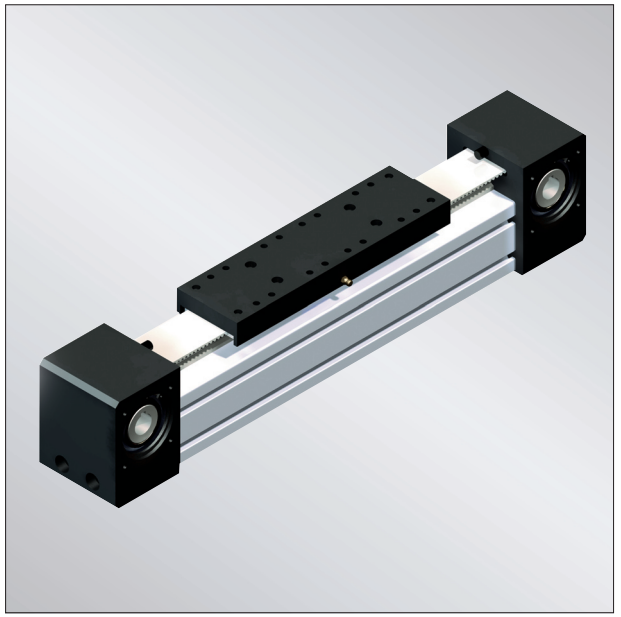
- Open and closed systems
- High efficiency
- Maintenance-free long term
- Low-cost installation
- Best performance with minimal space requirements



Roller LM Guides



Telescopic Guides



Geared Belt Axes

SPINDLE AXES

- Good positioning accuracy
- High power transmission
- With sandwich conveyor to prevent dirt

AXIS SYSTEMS

- customer
- Modular design
- Weight and rigidity optimised systems

INDUMATIK® HANDLING SYSTEM

for loading components and tool expansion for machining centres

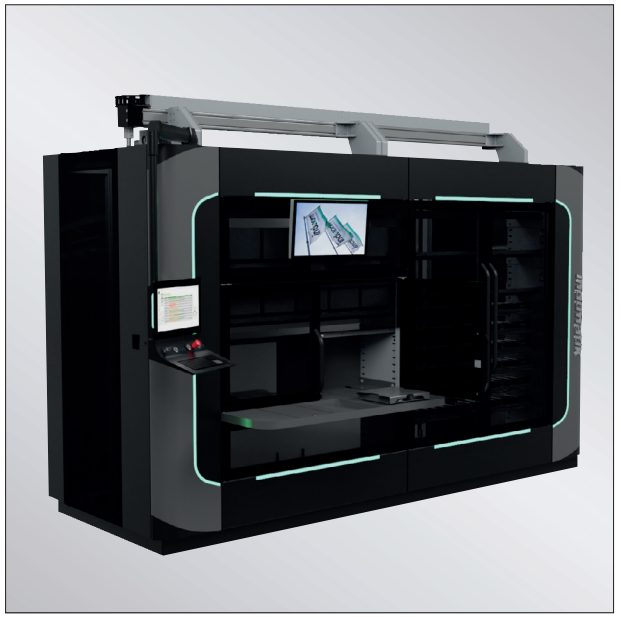
- Compact systems
- Non-proprietary connection
- Intuitive operation



Linear Axis with Spindle



Drive Linear Axis System



Indumatik® Handling System


“Customer satisfaction
is our number 1 goal.“ Susan Klein

BUSINESS UNITS

indunorm
Bewegungstechnik

CAPABLE
FIELD SERVICE

Since we're not simply satisfied by what is standard and our customers often require special solutions, a knowledgeable, personal consultation from our engineers is the basis for successful cooperation.

KNOWLEDGEABLE
APPLICATION ENGINEERS

Of course, we also offer detailed technical consultations over the phone. Our internal technicians and engineers are available to answer any questions regarding our products and their applications.

DEDICATED
ORDER PROCESSING

Your assigned customer service representative will answer any questions relating to orders and delivery. Our goal is to assist you quickly once your order has been placed!

SKILLED
ENGINEERING

The engineers in our development and design departments implement the planned projects using 3D CAD. Many of our products have CAD downloads available online. This makes it easier for you to materialise your designs.

CREATIVE
INDUMATIK LOCATION

Our young automation team works at our new location in the south of Duisburg. Our Indumatik® linear axis robots are an innovative product for automated component and tool changes.

STRONG
STUTTGART LOCATION

At our Stuttgart location, our managing director Dietmar H. Heim and his team support our customers in Hesse, Rhineland-Palatinate, Saarland, Baden-Württemberg and Bavaria – including on site.



Team Indumatik

FLEXIBLE
PRODUCTION

Our services include cutting rails to length, adjusting the pretension of carriages and guide rails, coating the components or machining to drawing at our state-of-theart production facility.

EXPERIENCED
ADMINISTRATION

We’re always here to help you! Whether you need help from accounting, administration or the switchboard, our friendly staff will be glad to help. Our business manager Ulrike Dornbusch binds the team together.

SOUND
INVENTORY

Our energetic warehouse staff pick your orders, modify the products as per your request and then dispatch them quickly and safely.



Horst Höck, Mark Obschernicat, Carsten Mertes, Martin Rissel



Our Warehouse Team

CONCLUSION

STRENGTHS OF INDUNORM

STRONG DELIVERY CAPACITY

- LARGEST THK INVENTORY IN EUROPE
- MANY OTHER STANDARD PRODUCTS EX WORKS

LINEAR TECHNOLOGY SPECIALIST

- FULL-RANGE SUPPLIER FOR LINEAR TECHNOLOGY
- LARGEST THK DISTRIBUTOR IN EUROPE
- THK PREMIUM PARTNER SINCE 1985

FLEXIBILITY THROUGH ENGINEERING

- IN-HOUSE ENGINEERING OFFICE FOR LINEAR TECHNOLOGY
- CUSTOMISED AND COMPLEX MACHINING AS WELL AS SPECIAL SOLUTIONS AVAILABLE

EXPERIENCED PARTNER

- EXPERTISE FROM OVER 40 YEARS OF EXPERIENCE
- STATE-OF-THE-ART MACHINE OUTFIT
- FLEXIBLE FIELD SERVICE – INCLUDING NEAR YOU

INDUNORM

AVAILABLE EVERYWHERE

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System Technology Sales Manager
Jens Hartwig
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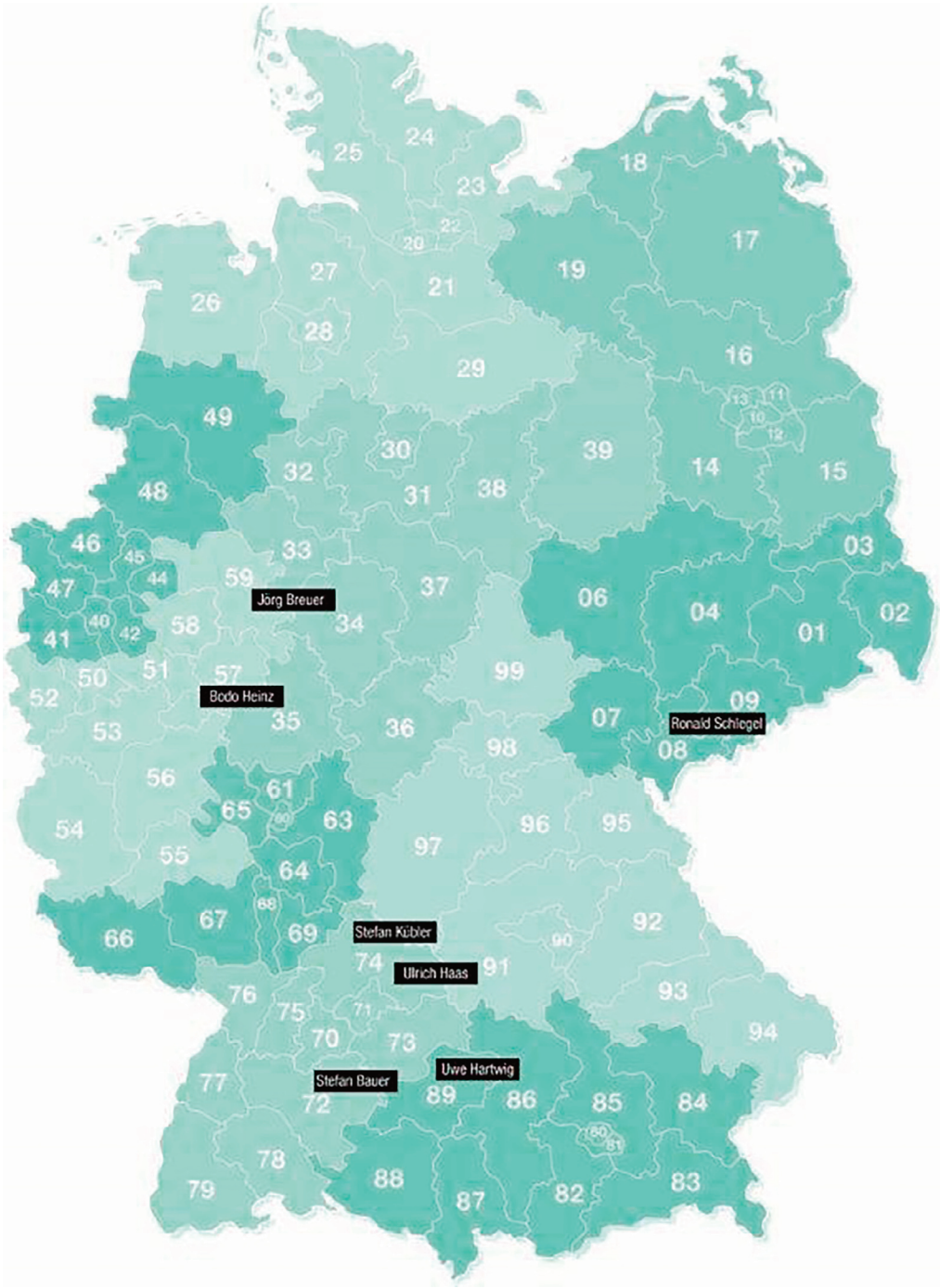
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