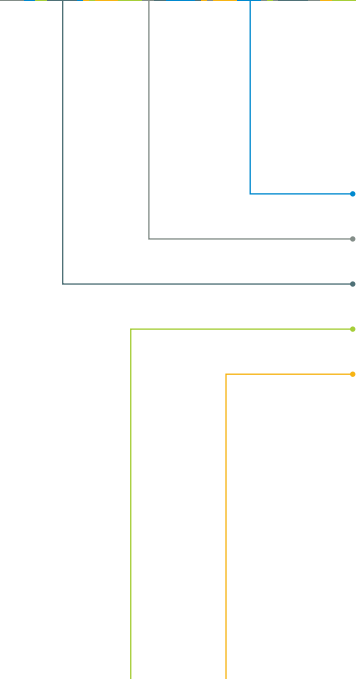


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How product ideas become intelligent solutions

- 
- A decorative graphic element consisting of several vertical bars of different colors (blue, green, yellow, orange, grey) of varying heights, located on the left side of the page.
- Injection molding
 - Engineering / mold construction
 - Plastic bearing cages
 - Spare parts for textile machinery
 - VARIO® modulant hose system



Always going the extra mile to ensure your satisfaction



We take care of our clients – right from the beginning!

Our strengths are client-focused solutions that exceed the standard

Harness our specialist knowledge from the first phase of your product development through to production standard. Our specialists will find the solutions to give your products the lead and ensure their success. Our particular strength lies in the development and manufacture of plastic components and assemblies for the mechanical and electrical engineering sector.

Spare parts for textile machinery

A further important activity is the development and production of spare parts for textile machines. An increased service life, considerable cost reductions and the supply of even limited quantities have made **LEGROM®** spinning accessories much sought-after products.

VARIO® - a further highlight

The **LEGROM® VARIO SYSTEM®** was a further innovation developed towards the end of the 1980's. The plastic modular hose system is, as the name suggests, based on a modular principle.

This enables precision conveyance of liquids (e.g. coolants, oil, water) or air to the desired area of application.

Outstanding chemical resistance to cooling lubricants and numerous chemicals makes it suitable for a broad range of applications.

The excellent pressure resistance, a high degree of positional stability (approx. 3G) and unlimited variation possibilities have also made the name **LEGROM®** famous in this area.

**LEGROM®
VARIO
SYSTEM**



LEGROM® quality policy

Our quality policy manifests itself in the following guiding principles:

1. We want satisfied clients. That's why the high quality of our products and service is one of our top corporate priorities. The client sets the benchmark for our quality. The client's opinion about our products and service is the decisive factor.
2. Each employee of the company contributes in his workplace to the realization of our quality objectives. It is therefore the responsibility of all employees to perform first-class work – from apprentices to the CEO. Anyone that identifies a quality risk – and is unable to mitigate that risk within his own area of responsibility – is under an obligation to inform his line manager.



Quality control using cutting-edge equipment

LEGROM® is certified to DIN EN ISO 9001:2008

Our company quality policy was determined by management and is examined regularly for suitability and effectiveness within the context of QM evaluation, being subject to revision if necessary.

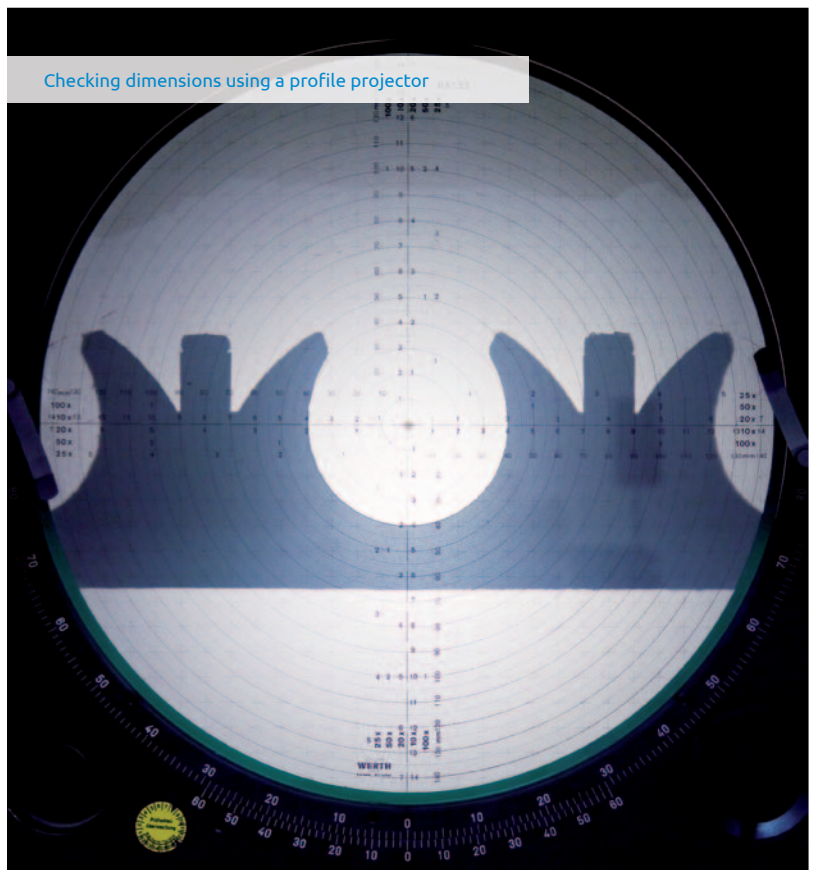
It takes customer expectations and needs into account, includes the obligations of all company levels with regard to fulfillment of fixed requirements and continuous improvement and provides the framework for determining and examining quality targets.

Our quality policy acts as a guideline for all personnel in the realization of their work.

Company management is responsible for ensuring that the entire company is familiar with the quality policy and that it is both fully understood and implemented.

QUALITY MANAGEMENT
CERTIFIED TO
DIN EN ISO 9001:2008

Checking dimensions using a profile projector



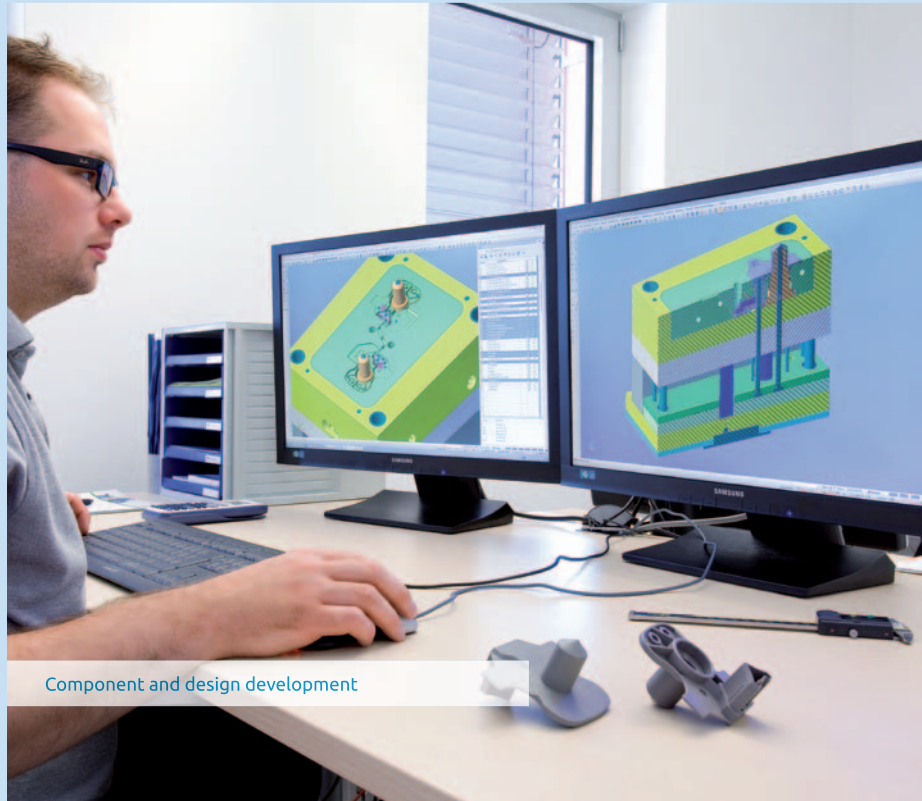
Implementing client ideas in plastic

Product design

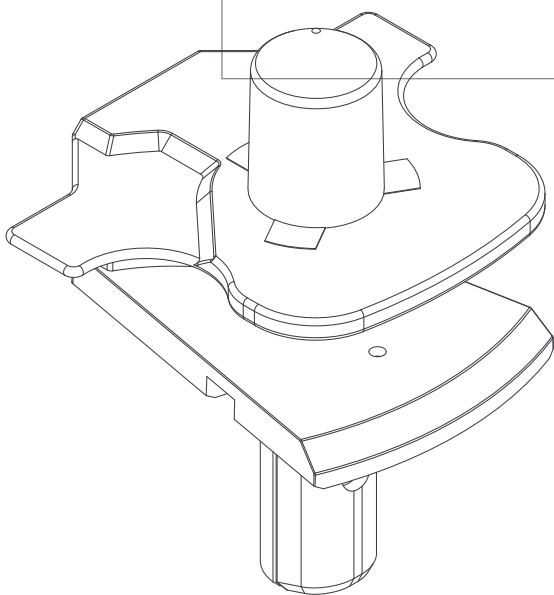
We have formed a competent team to assist our clients right from the concept and planning phase onwards.

We implement everything under one roof, from the initial idea, rheological examinations, suitable product mold design right through production standard:

- » Component and design development
- » Suitable plastic product design
- » Optimizing of product revision costs
- » Optimizing of product revision quality
- » Simulation
- » Prototypes



Component and design development



Configuring / Development

Utilization of the latest interface software for data transfer also allows us to exchange drawings with partners using other CAD systems.

Data formats:

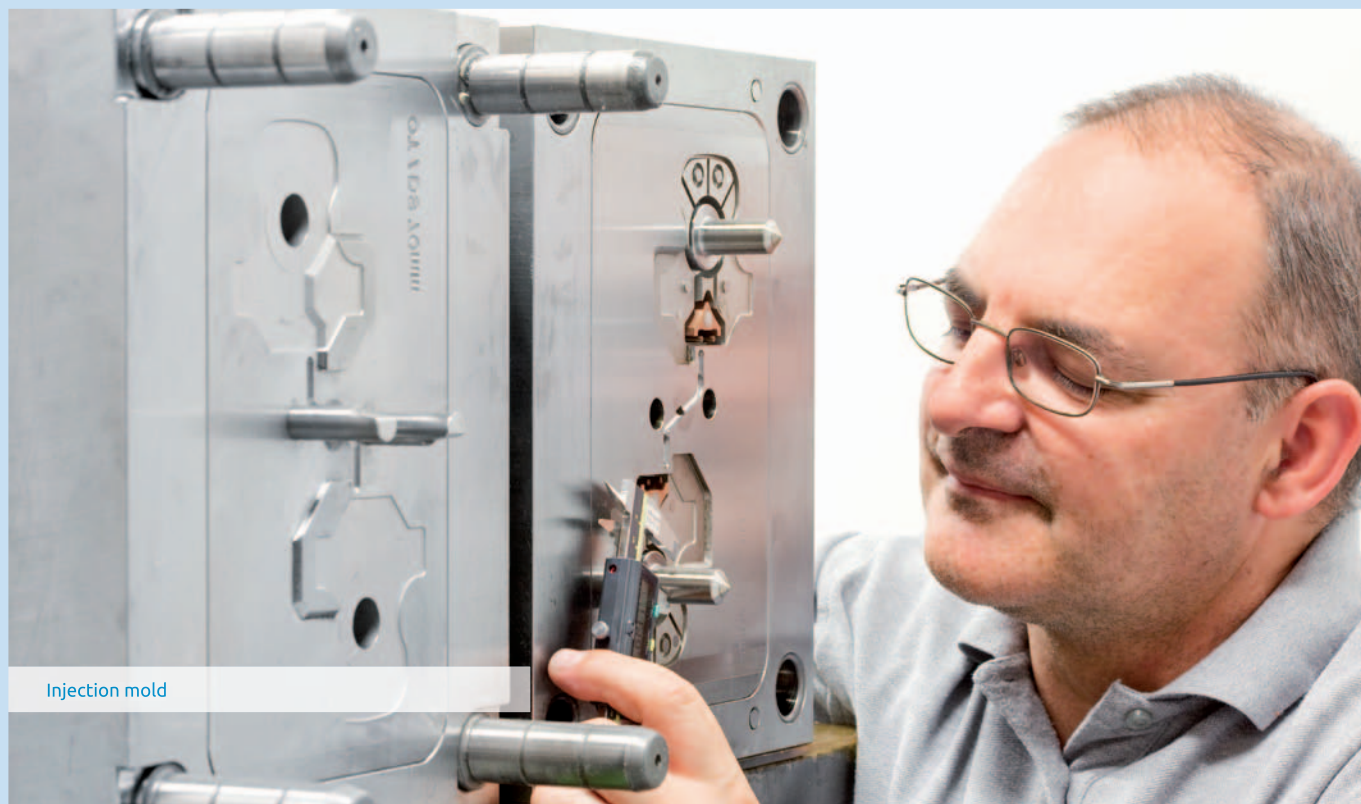
DWG | DXF | IGES | STEP | CATIA | VDA | SOLIDWORKS and others.

Uncompromising and consistent use of the data flow (CAD design data, CAM programming and CNC machining centers) enables direct exploitation of design data in mold production.

We employ the following systems:

MegaCad 2D / 3D | VISI-CAD 2D / 3D | VISI-CAM | PEPS

The perfection of the molds defines the quality of the end product



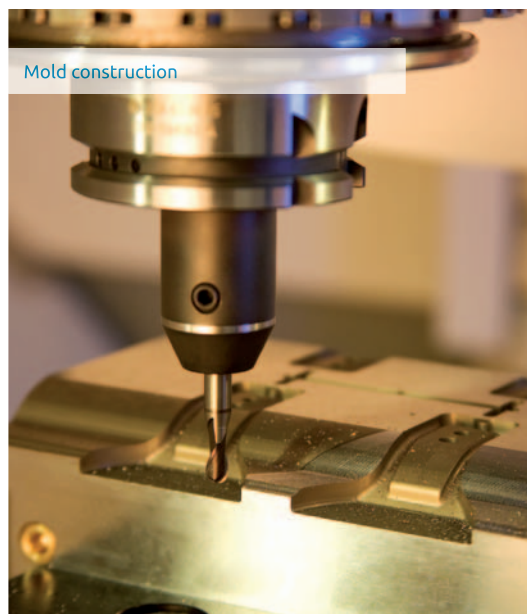
Injection mold

LEGROM® mold construction

Our experienced and well-versed team produces injection molds and transfer molds with dimensions up to 496 x 596 mm. The **LEGROM® mold construction** division specializes in exceptional mold solutions for injection molding parts (e.g. realization of injection molds for the roller bearing industry with over 80 pushers and integrated forced ejection technology). Special tool steel, coatings and a highly effective tempering system are required for the high

performance polymers we employ (PEEK | PSU | PES | PPS). Fixtures are developed, constructed and tested for complete solutions. We cooperate closely with the mold design department to realize customer demands as rapidly and flexibly as possible.

Constant quality control conducted by trained specialists ensures that the renowned **LEGROM®** quality is assured right from the initial production phases.



Mold construction

Prototypes

A model always attracts interest and awakens general attention. We utilize a variety of materials and employ common "rapid prototyping" processes to produce models and/or sample parts from test molds.

We produce prototypes of all types for illustration purposes, initial trial sequences or small-scale series in the form of: Stereo-lithographic parts | Laser-sintered parts | FDM parts | Vacuum cast parts | Milled plastic or aluminum parts | Injection molded parts from test molds

Plastic injection molding



Our fully automated machine park with the latest peripherals enables us to produce precision parts of the highest complexity.

The process chain is automated, from the material drying stage through to machine configuration, automatic part removal, sprue removal, quality control and packaging.

We also offer our clients a varied and comprehensive range of product finishing and assembly processes. Our aim is to realize your individual specifications in a professional manner and with an eye to delivering the best possible quality.

Product finishing:

Ultrasonic welding | Hot embossing | Imprinting (tampon printing, screen printing) | Laser inscription | Flocking | Metallization | Painting

Assembly:

Automatic | Semi-automatic | Individual

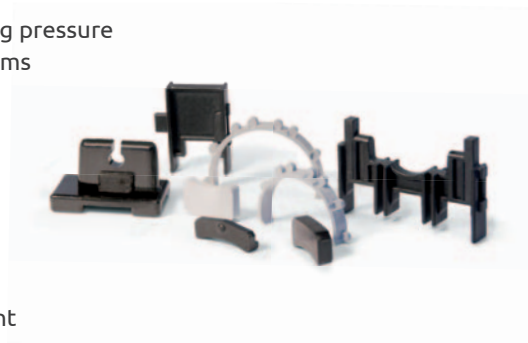
Duroplastic processing

- » Injection-molding machines with 350 to 500 KN locking pressure
- » Injection molded parts with a weight of 0.2 to 100 grams

Duroplastic molding compounds are high-quality design materials which have firmly established themselves in many areas of engineering.

Advantageous properties:

No softening range | Shape retention |
High heat distortion resistance | Low expansion coefficient



Thermoplastic processing

- » Injection-molding machines with 350 to 2000 KN locking pressure
- » Injection molded parts with a weight of 0.05 to 400 grams
- » Single and multi-component injection molding
- » Insert molding (metal and ceramic)

We process all thermoplastics, but the emphasis is placed on engineering plastics.

Advantageous properties:

Up to 70 % glass fiber reinforcing | Carbon fiber reinforcing | Kevlar reinforcing | Long-fibered materials | Special recipes with steel fibers, mixed reinforcing, tribologically modified | HT thermoplastics (PEEK | PAEK | PES | PSU | PPS | PAR | PAI)



Intelligent periphery and automated production



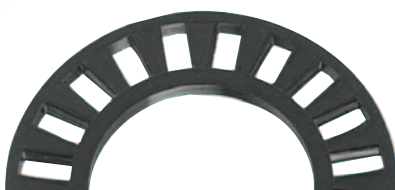
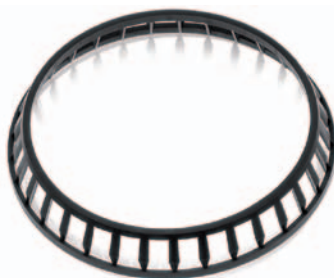
Fully automated production

Plastic bearing cages

LEGROM® is one of the pioneers in the development of plastic bearing cages made of engineering and high-temperature resistant thermoplastics and has been considered one of the world's leading specialists in this sector for decades.

LEGROM® can meet even the most unusual client requirements when it comes to bearing cages, thanks to the application of the latest specialized manufacturing processes.

- » Pin bearing cage
- » Angular roller bearing cage
- » Linear bearing cage
- » Axial bearing cage
- » Ball bearing cage
- » Slim ring bearing cage

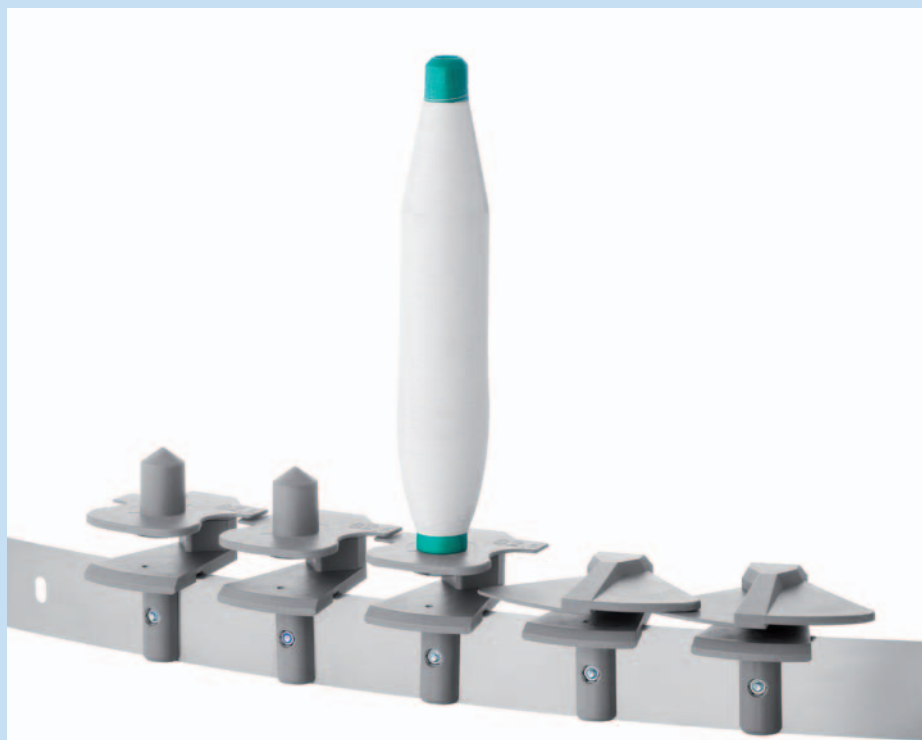


Spare parts for textile machinery

LEGROM® has been manufacturing textile machinery components for the open-end and ring spinning processes for decades. Our products are used both by OEMs in the original equipment as well as by the spindle manufacturers.

We supply spare parts for textile machinery to our clients directly or via distribution partners.

Spinning mills – **around the globe** – value the excellent quality and long service life of our spare parts.



Conveyor tapes, gripper and transport systems

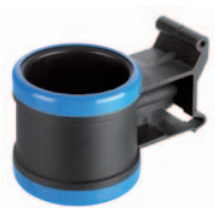


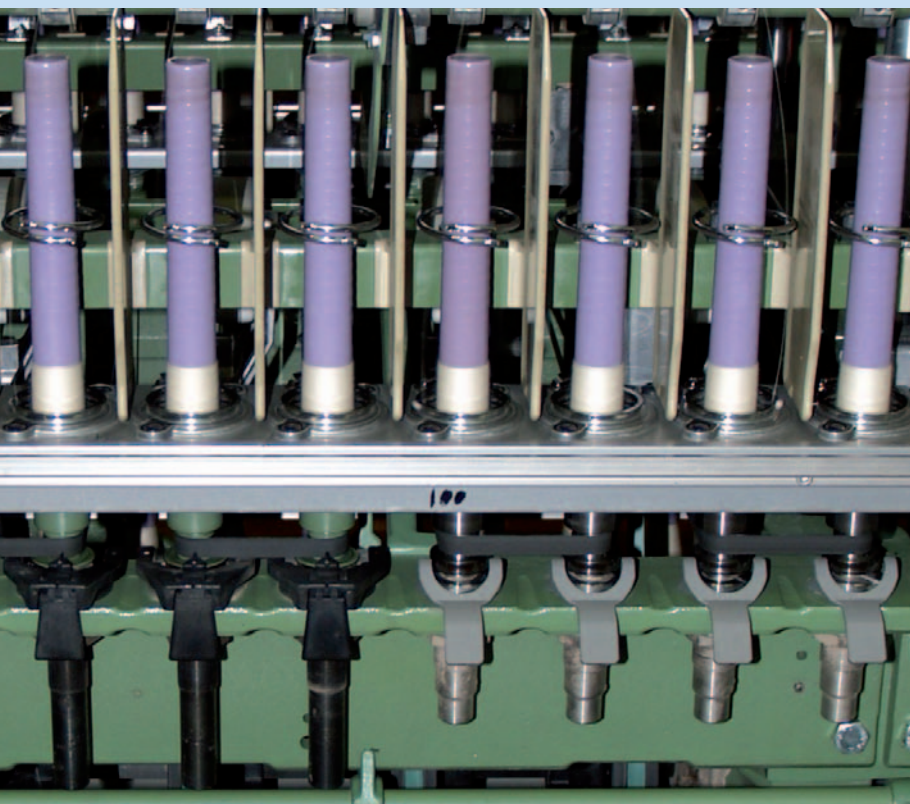
Stainless steel conveyor tapes from LEGROM® guarantee the highest tensile strength and have special rounded cutting edges and polished surfaces.

Straightness is within close tolerances and this protects the tape guides from lateral wear.

Using cutting-edge digital quality control methods, each tape is monitored permanently during manufacturing. This results in accurate equal distances from the first up to the last hole.

For fully automated tube and cop transport LEGROM® manufactures gripper and transport systems for the most common ring spinning machines.





- » The largest range of knee and locking brakes for ring spinning machinery worldwide.
- » Thanks to our own development and design department (CAD / CAM) we can implement client-specific requirements even at short notice.
- » All parts are subject to strict quality control.
- » Own production of stainless steel conveyor tapes for ring spinning machinery with the highest precision possible.

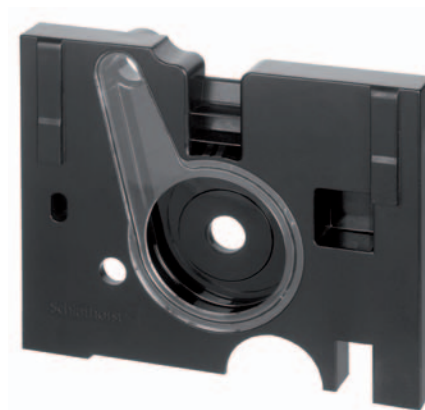
Spindle brakes

The double-shoe brake system with central spindle clamping protects the material. The large size of the brake shoes allows short braking times and a longer service life. As with most of our spindle brakes our new easyclick knee brakes also feature brake shoes that can be quickly and easily replaced thanks to snap and latching connectors.

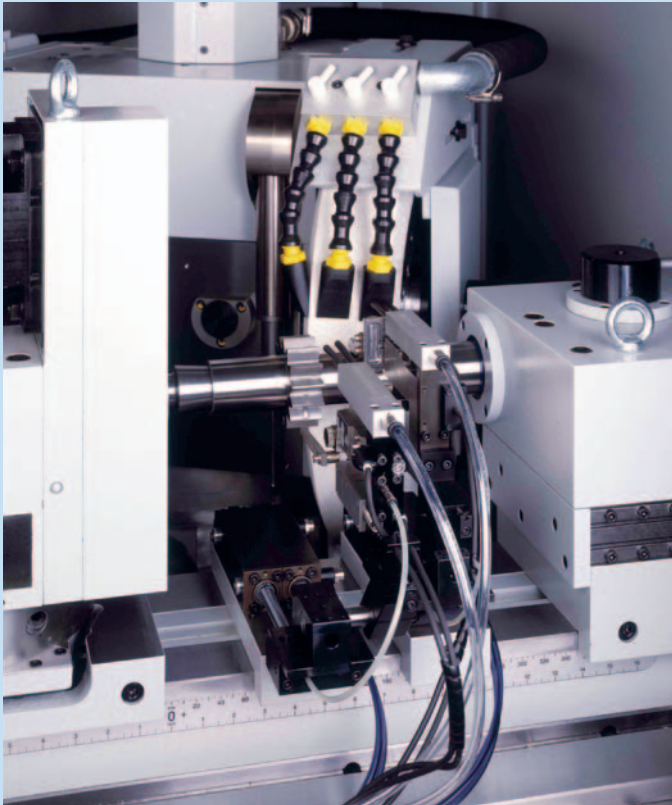


Open End

LEGROM® supplies spare parts for spin boxes SE7 to SE11 and for Schlafhorst and Rieter machines.



Keep cool! The variable segment hose system



ONE idea – 1000 solutions: Universal, flexible and precise

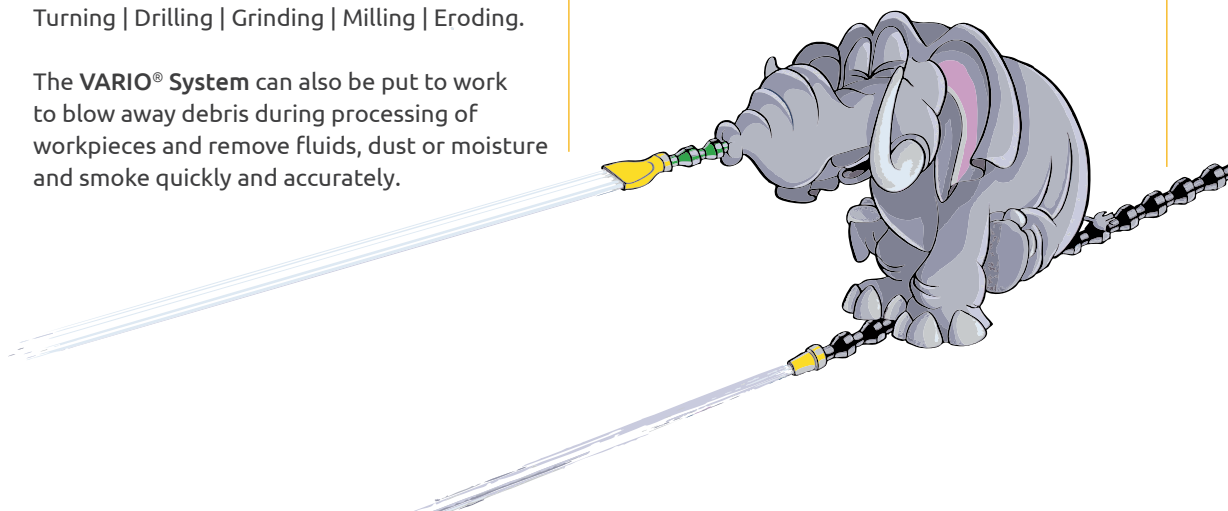


The unmistakable green and yellow or black and yellow segments of the Vario hose system are your guarantee of quick and easy integration with your production lines, machinery and other equipment. Just as the segments of our hose system can be instantly shaped for any purpose, our company quickly adapts to the needs of the market and the requirements of our clients.

Rising demands for faster processing speeds, higher quality surfaces and increased durability of equipment, coupled with constant cost pressures, necessitate systematic and targeted use of coolants and lubricants for: Turning | Drilling | Grinding | Milling | Eroding.

The **VARIO® System** can also be put to work to blow away debris during processing of workpieces and remove fluids, dust or moisture and smoke quickly and accurately.

- » Excellent chemical resistance
- » Flexibility and versatility
- » High production quality and efficiency
- » Fast assembly / dismantling
- » Many combination possibilities
- » Acid-resistant design
- » Also available with V0 certification in accordance with the UL94 Standard (Flammability)
- » Highest bending strength and position stability
- » High pressure resistance up to 15 bar



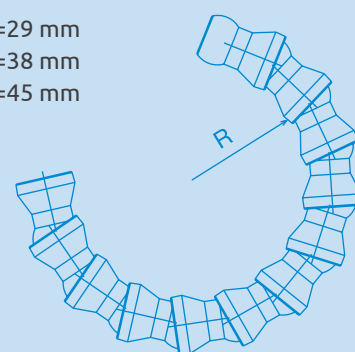
LEGROM[®] VARIO SYSTEM



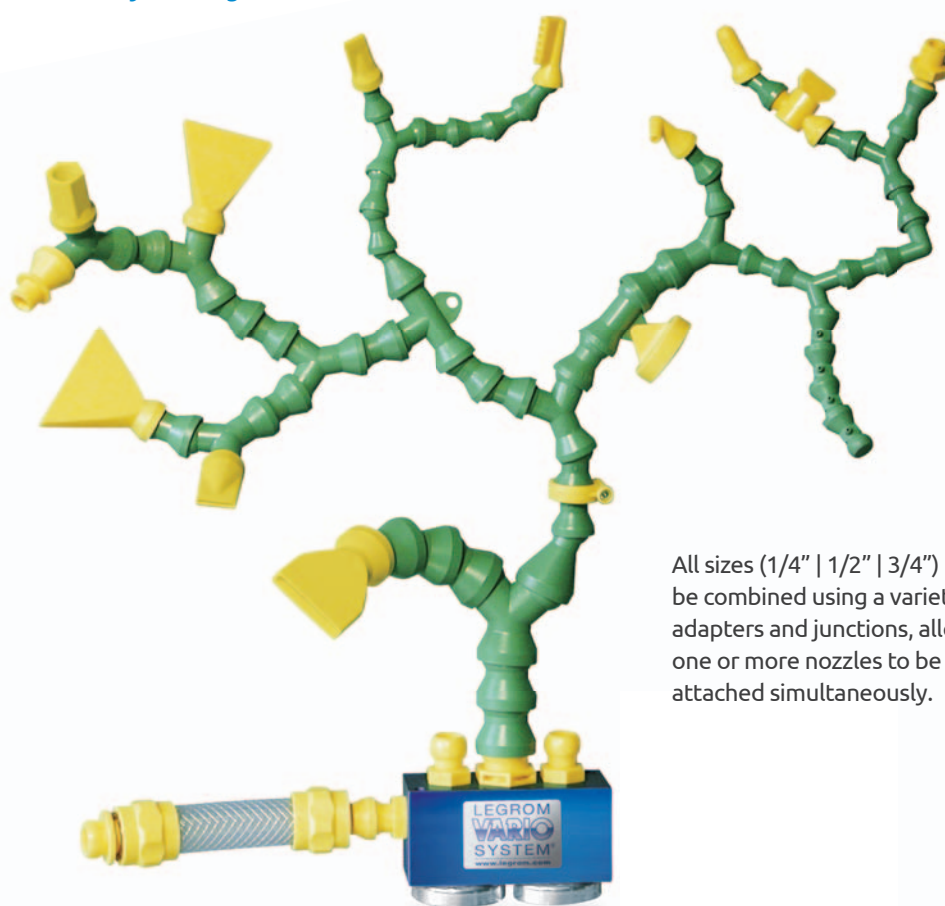
Our fully automated assembly of the segment hoses guarantees our high degree of bending strength with a consistent level of quality.

The flexibility of the individual components allows for tight curves and a myriad of shapes to suit your needs.

- » 1/4" R=29 mm
- » 1/2" R=38 mm
- » 3/4" R=45 mm



„Our goal is to find the most efficient – yet cost-effective solution – to every challenge we are set.“

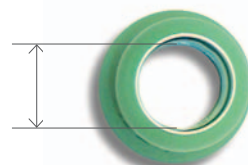


All sizes (1/4" | 1/2" | 3/4") can be combined using a variety of adapters and junctions, allowing one or more nozzles to be attached simultaneously.

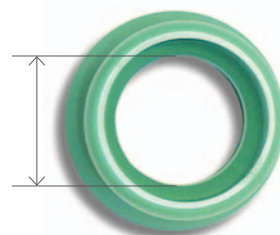
1/4" - segment
7,0 mm



1/2" - segment
12,7 mm

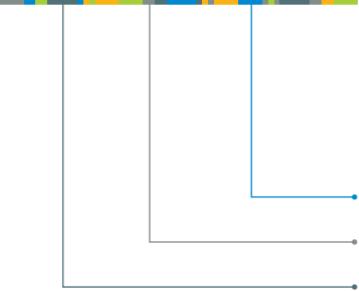


3/4" - segment
18,5 mm



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www.legrom.com

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