

Superior Clamping and Gripping



## Customer-specific Gripping Systems

From the Component to the Solution



## Superior Clamping and Gripping

Jens Lehmann stands for precise gripping, and safe holding. As a brand ambassador of the SCHUNK team, the No. 1 goalkeeper represents our global competence leadership for clamping technology and gripping systems. The top performance of SCHUNK and Jens Lehmann are characterized by dynamics, precision, and reliability.

For more information visit our website:  
[www.gb.schunk.com/Lehmann](http://www.gb.schunk.com/Lehmann)

*J. Lehmann*  
 Jens Lehmann





Henrik A. Schunk, Kristina I. Schunk, brand ambassador Jens Lehmann, and Heinz-Dieter Schunk

## Top Performance in the Team

SCHUNK is the world's No. 1 for clamping technology and gripping systems – from the smallest parallel gripper to the largest chuck jaw program.

In order to boost efficiency, SCHUNK customers have bought more than 2,000,000 precision toolholders, 1,000,000 gripping modules, and 100,000 lathe chucks and stationary workholding systems so far.

This makes us proud and motivates us to attain new top performances.

As a competence leader, we recognize and develop standards with a large potential for the future, which will drive the rapid progress in many industries.

Our customers profit from the expert knowledge, the experience, and the team spirit of more than 2,300 employees in our innovative family-owned company.

The Schunk family wishes you improved end results with our quality products

Heinz-Dieter Schunk

Henrik A. Schunk

Kristina I. Schunk



## Individual

### Your Processes, your Workpieces, our Know-how.

Automated handling for the process-reliable and cost-effective manufacturing of products of all types requires much more from the front-end handling system than just the use of the proper gripper.

Various tasks such as rotating, compensating, joining, measuring, changing, etc. – in short, all functions that cannot be performed by robots, axis systems, and grippers – require the use of additional components.

SCHUNK offers the world's most extensive modular system with standardized modules and components for your process requirements. The unique portfolio and our development competence enable customer-specific, efficient and reliable handling solutions: Gripping – from powerful to sensitive. Turning – from swiveling to 360°. Processing – from joining to assembly. Moving – from A to B. Changing – automatically or manually.

### Your Requirements – Our Solution Competence.

#### Process Requirements

- Loading
- Sorting
- Mounting
- Machining
- Transporting
- Changing

#### Environmental Requirements

- Normal and clean
- Dirty: grit, fine dust, liquids or aggressive liquids
- Extreme temperature range

#### Workpiece Requirements

- Sensitive
- Asymmetrical
- Light
- Heavy
- Small
- Large

#### SCHUNK Competence

- Gripping
- Rotating
- Holding
- Machining
- Moving
- Changing

# Industry Experience

## Our Know-how, Your competitive Edge.

As the most innovative market leader in gripping system technology, SCHUNK has a unique potential for creating solutions.

We are the development partner for diverse industries and we specialize in customer-specific handling applications –

from individual gripping modules to complex functional assemblies.

Technical creativity, maximum solution competence, and well-founded experience are our success factors in engineering, production, and service. We offer individual solutions. In your industry.



Automotive



Casting and forging



Metal cutting



Pharmaceutical and medical technology



Assembly and handling technology



Electronics



Drive technology



Plastics

## From Standard Components to Customer-specific Gripping Systems.

More than 30 years of gripping competence form the basis for the world's most extensive standardized gripping technology portfolio with more than 4,000 components with an average of 2,000 standard and customer-specific gripping systems per year.

### Components

#### Standard



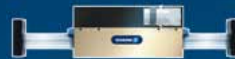
##### The SCHUNK Gripper

A firm grip on precision!  
From a few grams to more than one ton. Pneumatic or electric. With more than 60 series in different sizes, the world's most extensive portfolio of gripping modules.



##### Rotary modules

They have a knack for turning!  
Limited or continuous – free or cycled. Optionally pneumatic, electric or with an integrated drive. With more than 40 standard components – capable of every rotary movement.



##### Linear modules

Exact movements!  
The entire world of linear technology for high-speed automation from a single source. Fast configuration with custom modules or more than 500 standard combinations from the modular system.



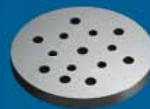
##### Robot accessories

A perfect connection!  
The world's most extensive product portfolio for mechanical, sensor and power connections of handling modules.



##### Pick & Place units

Incredibly fast!  
The most extensive portfolio of modular systems for every pick & place application, as a complete assembly, modular, pneumatic or electric, and with cycle times of up to 110 picks per minute.



##### Adapter plates

System for a perfect fit!  
For the combination of gripping and rotary modules, for the reliable interplay of robot accessory modules or also for individual automated assembly solutions. Saves costly planning and in-house fabrication.



##### Gripper fingers

Optimal fit!  
Extensive and individual for maximum functionality. Finger blanks of steel, aluminum, plastic or customer-specific laser forming – precise centering, compensation and gripping is guaranteed.



##### Gripping hands

Gripping almost as perfect as the human hand!  
From the multi-section SDH 3-finger gripping hand for form-fit and force-fit gripping of diverse objects through to the first commercially viable sensitive SCHUNK SVH 5-finger hand.



##### Lightweight arms

Modular flexibility!  
Lightweight arms are modular in design and can be adapted for diverse specific applications, e.g. for measuring and testing, modern rehabilitation systems, intralogistics, product transport, fabrication, etc.

#### Customer-specific

Standard components adapted to meet individual requirements as well as exclusive new customer-specific developments.

##### Examples:



##### Wafer grippers

of laser forming material with the LGP gripper module



##### Compact clamp

for sheet metal forming, pneumatically operated



##### Packaging grippers

High-speed grippers in accordance with legal, hygienic, and production specifications



## Gripping Systems

### Standard



#### Standard – Linear gantry LPP

Ready to install, optimally priced and quickly available!  
Pneumatic column system with horizontal pneumatic gantry axis and vertical pneumatic compact axis.  
With integrated cable track, sensors, and shock absorbers.



#### Standard – Linear gantry LPE

Ready to install, optimally priced and quickly available!  
Electric column systems with horizontal electric toothed belt axis and vertical electric spindle axis.  
With servo drives, cable tracks, and integrated sensor systems.



#### Standard – RPE Room gantry

Ready to install, optimally priced and quickly available!  
Horizontal electric toothed belt axis in X direction, horizontal electric toothed belt axis in Y direction and vertical electric spindle axis.  
With servo drives, cable tracks, and integrated sensor systems.



#### Modular assembly automation

Ready to install, optimally priced and quickly available!  
More than 10,000 combinations!  
The modular system offers custom handling solutions – from individual, multi-axis assembly solutions to complete functional assemblies, pneumatically and electrically driven.

### Customer-specific

Solution from several SCHUNK components, including at least one custom development.

#### Examples:



Connecting rod handling



Aluminum foil handling



Modular and Mobile Gripping Systems

Solution from several SCHUNK standard components for robots and gantries

## All inclusive!

### SCHUNK customer-specific Gripping Systems. Take Advantage of our Experience.

More than **12,000**  
implemented solutions  
speak for themselves.

Consistent and comprehensive project management is an important part of the SCHUNK philosophy. Our approach is systematic and individually adapted to your project; each step is traceable and documented.

The analysis of complex processes and the comprehensive analysis of parts and products of our customers leads SCHUNK to develop effective and customer-specific gripping systems. The visualization of automated processes requires maximum precision – we use state-of-the-art technology for 2D and 3D visualizations and 3D simulations. Our components and configurations contain decisive performance potential for the cost effectiveness of your process chain. We exhaust this potential. Entirely for your benefit.

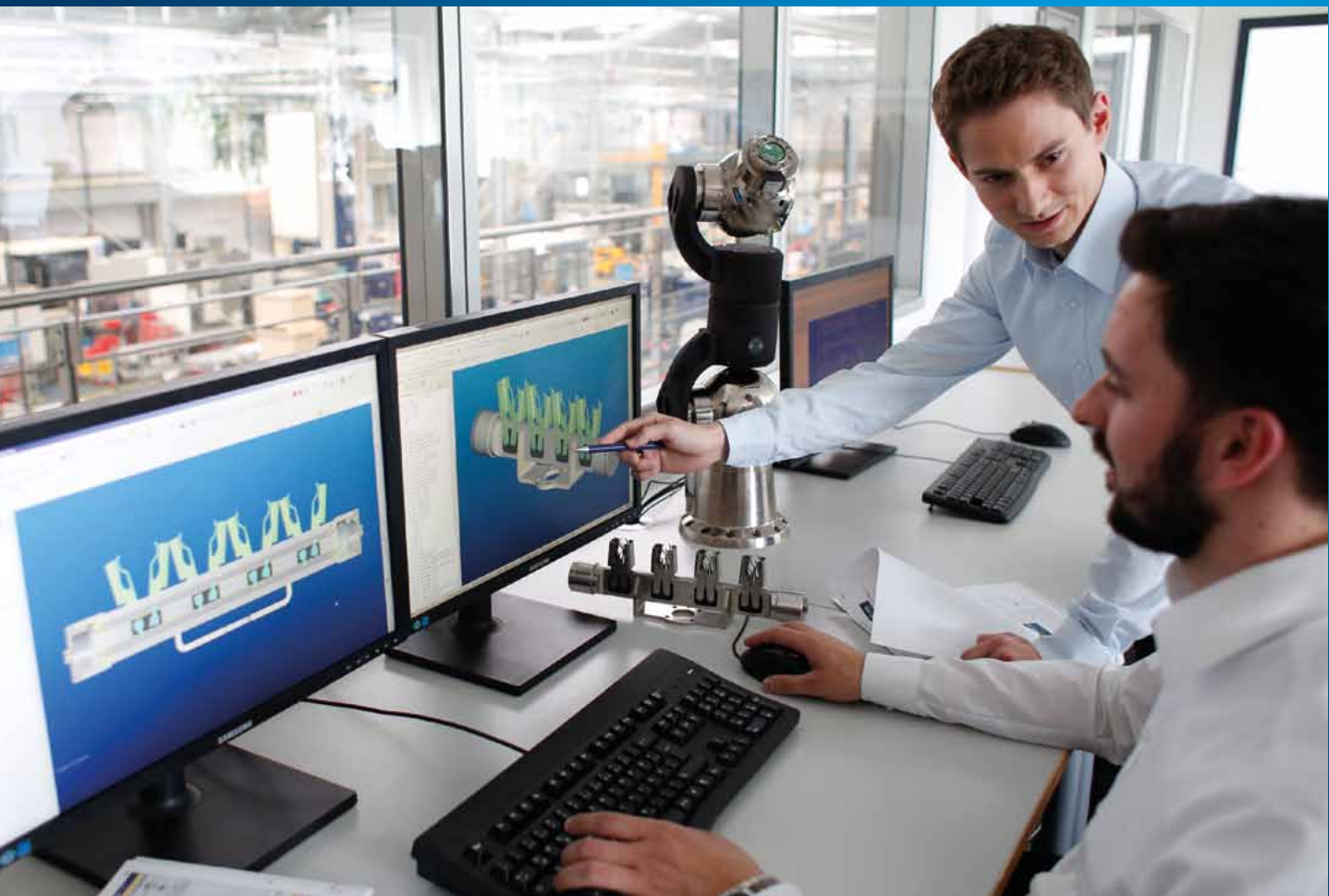
Consulting

Project  
planning

Engineering

Imple-  
mentation

Service





## That will pay off for you!

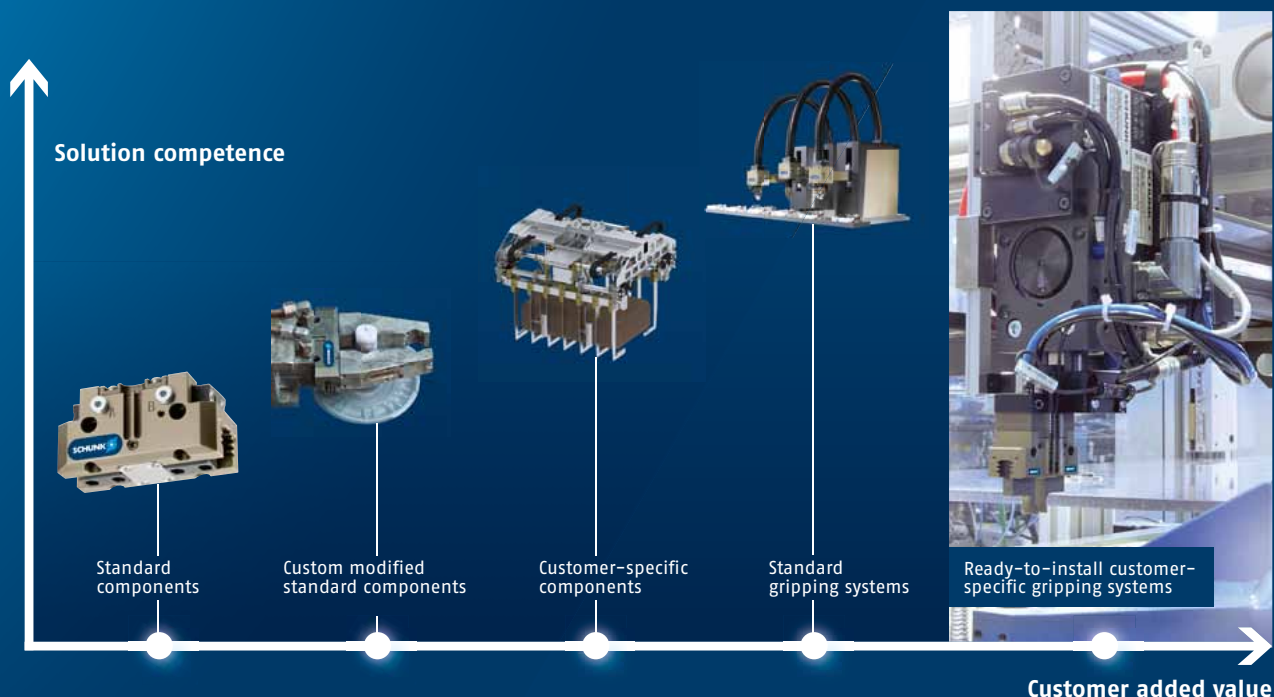
**SCHUNK customer-specific Gripping Systems.  
For your Workpiece, your Handling, and your Industry.**

### 1 contact person for your solution from a single source.

For smooth communications, a personal contact person is available to you from the start of the project until completion. Your contact person is the interface between you and the individuals involved in the project and ensures that information is exchanged smoothly. From planning to continued support after the conclusion of the project, SCHUNK ensures that your project will be handled cooperatively and efficiently.

### Your advantage

- More than 30 years of experience with gripping systems
- More than 10,000 gripping systems implemented for diverse industries
- Modular system with perfectly compatible standard components
- An absolutely exact fit due to standard interfaces
- Shorter project cycle times due to standardized systems
- Process-reliable implementation and planning security without additional project costs
- Functional assemblies mounted or ready for use on request
- Time savings due to a perfect solution from a single source



## SCHUNK Gripping Systems

For every Robot, every Industry, every Handling Task.

### Experience the immense diversity

More possibilities, more functionality, higher process reliability. SCHUNK robot accessories include a comprehensive portfolio of modules for mechanical, sensor, and power connections between the effector and the robots. A broad range of quick-change systems, rotary feed-throughs, anti-collision and overload devices, force sensors, compensation units, and insertion units ensure optimum interplay between the robot arm and the end-of-arm effector.

**Connecting**  
SCHUNK adapter plates

**Connecting**  
SCHUNK adapter plates

**Connecting**  
SCHUNK adapter plates

**Rotary feed-through**  
SCHUNK DDF 2 rotary feed-throughs

**Compensating**  
SCHUNK OPR or OPS anti-collision  
and overload sensors

**Changing**  
SCHUNK SWK quick-change head

**Changing**  
SCHUNK SWA quick-change adapter

**Joining and compensating**  
SCHUNK TCU tolerance compensation unit

**Gripping**  
SCHUNK gripper  
PGN-plus 2-finger universal gripper  
with multi-tooth guidance

The illustration shows one example of how SCHUNK components can be combined.





## Metal cutting Industry

### Automated removal and loading process.

#### Task

Automated loading and removal of raw material from a rack by a robot.

#### SCHUNK solution

The robot removes raw material from an externally accessible rack with a PZN-plus pneumatic centric gripper. After processing in the machine, the workpiece is set down by a second PZN-plus centric gripper that was exchanged by means of a SCHUNK SWS quick-change system.



**SWS**  
Quick-change system



**PZN-plus 380**  
3-finger centric grippers



## Metal cutting Industry

### Loading and unloading of a machining center



#### Task

Loading of a vertical machining center with workpieces in a fully automated process.

#### SCHUNK solution

A robot with a SCHUNK SWS quick-change system loads SCHUNK TANDEM-plus clamping force blocks outside of the machining center and loads them into the vertical machining center entirely with a pneumatic SCHUNK two-fold PGN-plus 2-finger gripper unit. The clamping devices are loaded almost simultaneously, which means that the machine has to be stopped only very briefly for changing the clamping force blocks.

#### SCHUNK products



**PGN-plus**  
Universal grippers



**SWS**  
Quick-change system



**Tandem**  
Clamping force block

## Automotive Industry

### Handling of aluminum die cast parts



#### Task

Handling of die cast parts in a hot environment. Removal from the casting mold and inspection. Immersion in cooling liquid and stamping or embossing of the serial number.

#### SCHUNK solution

Use of modified SCHUNK PGN-plus 2-finger universal gripper and a SCHUNK PZN-plus 3-finger centric gripper with a protective cover and in a corrosion-protected version in addition to heat-resistant cables and seals. The operation of grippers with sealed air also prevents the penetration of dirt and humidity, which could accumulate in the guidance.

#### SCHUNK products



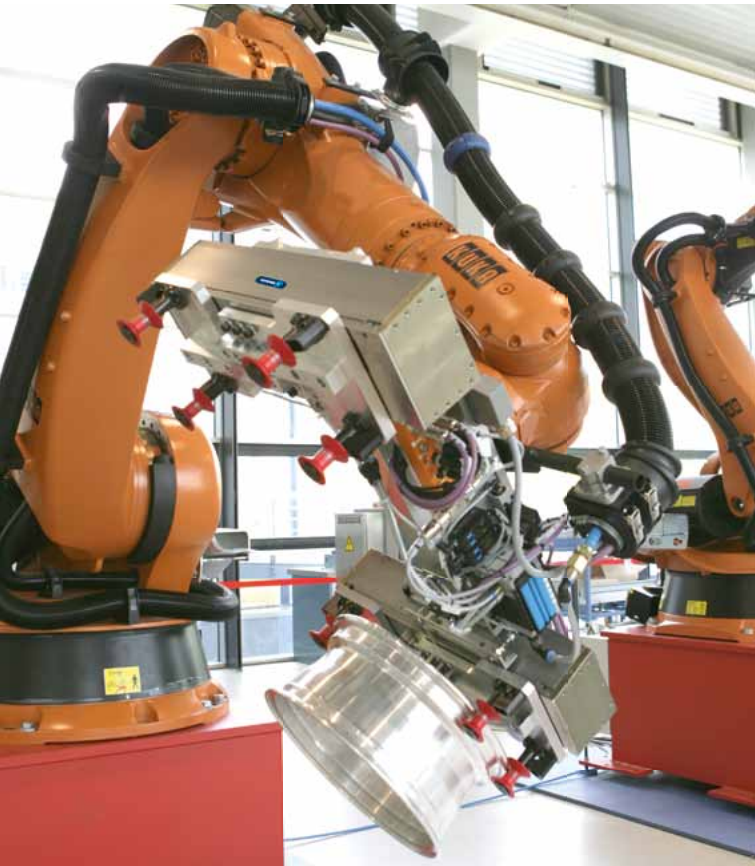
**PGN-plus**  
Universal grippers



**PZN-plus**  
Centric grippers



### Automotive Industry Rim handling



#### Task

Loading and unloading of machine tools with unfinished and finished aluminum parts.

#### SCHUNK solution

The aluminum blanks of the aluminum rims are machined in several steps. The blanks are gripped from the conveyor belt with modified SCHUNK PFH 2-finger long-stroke grippers and inserted into the machine tool. After the initial machining, the finished part is removed and the next blank is immediately inserted.

The grippers are additionally equipped with special plastic inserts on the gripper fingers.

#### SCHUNK products



PFH  
2-finger long-stroke gripper

### Machining Industry Handling of ground parts



#### Task

Automated removal of ground parts from a chuck.

#### SCHUNK solution

The handling cell is on a track. This cell uses a six-axis Fa-nuc type M-61B robot, which removes a ground part from the chuck with a SCHUNK two-fold PGN-plus 2-finger gripper unit. Finished parts are placed on a pallet; rough parts are gripped from a pallet.

#### SCHUNK products



PGN-plus  
Universal gripper



## Casting Industry

### Sorting of pistons



#### Task

Removal of unsorted pistons from a crate for checking the dimensions on a test bench.

#### SCHUNK solution

A SCHUNK PGN-plus universal gripper was mounted on the robot arm in combination with an OPR anti-collision sensor. Imaging software is used to determine possible gripping points and the PGN-plus removes the pistons.

#### SCHUNK products



**PGN-plus**  
Universal grippers



**OPR**  
Anti-collision and  
overload sensor



**SCHUNK**  
Adapter plate

## Textile Industry

### Handling of winding spools



#### Task

Automated handling of a winding spool for synthetic fibers.

#### SCHUNK solution

The handling of winding spools for synthetic fibers requires a powerful SCHUNK DDF 2 rotary feed-through with maximum process reliability in the turning procedures. The SCHUNK PGN-plus universal gripper mounted in this combination ensures maximum accuracy in the gripping process due to the unique multi-tooth guidance. Custom manufactured form fingers ensure exact holding of the coil.

#### SCHUNK products



**DDF 2**  
Rotary feed-through



**PGN-plus**  
Universal gripper



**SCHUNK**  
Form fingers

## Axis System Handling Solutions

The illustration shows an example of how SCHUNK standard linear module components can be combined with rotary, change, and gripper modules.

With the performance range of linear modules in combination with rotary modules, rotary units, gripping modules, quick-change systems, rotary transfer units, and sensors, SCHUNK opens up new perspectives for optimally priced and value-added automation solutions.

The entire world of linear technology for high-speed automation from a single source. With a compact modular design from the axis to the gripper finger and combined to create a custom axis system handling solution.

**Connecting**  
SCHUNK adapter plate

**Rotating**  
SCHUNK SRH-plus  
rotary unit

**Connecting**  
SCHUNK adapter plate

**Gripping**  
SCHUNK gripper  
2-Finger universal gripper  
PGN-plus with multi-tooth  
guidance

**Moving**  
SCHUNK linear modules  
X-axis (horizontal)  
Beta toothed belt axis  
Z-axis (vertical)  
Beta spindle axis

**Joining and compensating**  
SCHUNK TCU tolerance  
compensation unit





## Handling and Assembly

### Positioning of round parts made of steel.

#### Task

Small turned parts must be quickly placed in changing positions.

#### SCHUNK solution

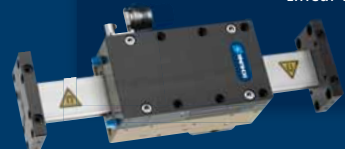
Modular SCHUNK 4-axis room gantry with type LDN and LDK servo-electric driven linear axes in combination with a pneumatic SCHUNK PGN-plus 2-finger universal gripper.



**LDN**  
Linear modules



**PGN-plus**  
Universal grippers



**LDK**  
Linear modules



## Automotive Industry

### Testing system for brake valves



#### Task

Automatic movement of hydraulic brake valves in a test device.

#### SCHUNK solution

Compact SCHUNK linear modules, including a Beta toothed belt axis (horizontal), and a Beta spindle axis (vertical), are used in combination with a SCHUNK rotary gripping unit consisting of SRU-plus and a pneumatic sealed DPG-plus 2-finger parallel gripper, move the brake valves to various test devices.

#### SCHUNK products



**X-axis (horizontal)**  
Beta toothed belt axis  
Linear module



**SRU-plus**  
Rotary unit



**Z-axis (vertical)**  
Beta spindle axis  
Linear module



**DPG-plus**  
Sealed gripper

## Electrical Industry PCB production



### Task

Flexible use of a SCHUNK type ILR 2000 inline router, for cost-effective alternating processing of even minimal quantities of different PCB variants.

### SCHUNK solution

Handling of diverse PCBs is made possible by the compact SCHUNK WSG servo gripper in combination with SCHUNK LDN and LDK electric linear axes. During the cutting process, the gripper holds and stabilizes the PCBs for low-stress separation of the PCBs. With the SCHUNK ERD rotary module the servo gripper is turned to the required angular position simultaneously with the linear movement.

### SCHUNK products



**WSG gripper**  
Servo-electric  
2-finger gripper



**ERD**  
Rotary module



**LDN linear module**  
Servo-electric  
Linear axis



**LDK linear module**  
Servo-electric  
Short-stroke axis



## Automotive Industry Automated handling



### Task

Movement of connecting rods by means of a transfer system.

### SCHUNK solution

On a horizontal SCHUNK linear axis with 8 slides, 8 SCHUNK lifting/rotary and gripping units are mounted, to move the workpieces in a cycle.

### SCHUNK products



**X-axis (horizontal) 2x B140-ZSS**  
Toothed belt axis  
Linear module



**Z-axis (vertical) 8x SLE 32-125**  
Pneumatic linear unit  
Linear module



**SRU-plus**  
Swivel unit



**PZN-plus**  
Centric grippers

## Mechanical Engineering Loading and unloading



### Task

Automatic loading and unloading of a grinding machine.

### SCHUNK solution

In this customer-specific solution the horizontal SCHUNK axis is raised and lowered with a SCHUNK rotary and gripping unit. The parts are then moved into the machine housing.

### SCHUNK products



**X-axis (horizontal) 2x B80C-ZSS/0SS**  
Toothed belt axis  
Linear module



**SRU-plus**  
Swivel unit



**PGN-plus**  
Universal grippers



## Metal cutting Industry Assembly and handling



### Task

Removal of ground parts from a chuck.

### SCHUNK solution

SCHUNK HSB linear modules in combination with SCHUNK PGN-plus universal grippers with a BSWS quick-change jaw system remove a ground part from the chuck, and then load the clamping vise with an unfinished part. Finished parts are placed on a pallet; rough parts are gripped from a pallet.

### SCHUNK products



**X-axis (horizontal) D240-ZSS**  
Toothed belt axis  
Linear module



**Z-axis (vertical) B180-SSS**  
Spindle axis  
Linear module

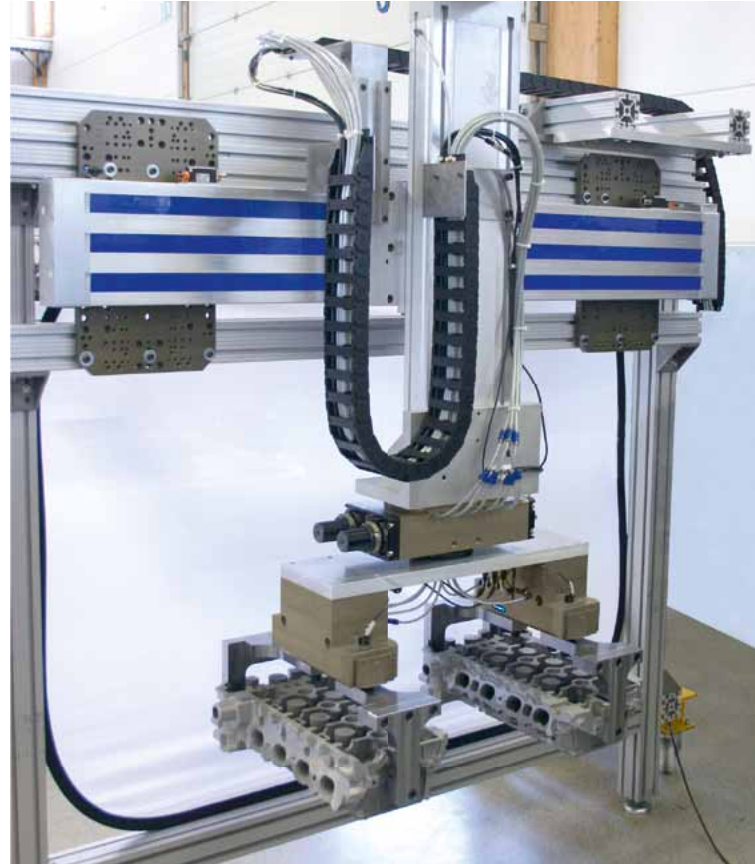
**BSWS**  
Quick-change  
jaw system



**PGN-plus**  
Universal grippers



## Mechanical Engineering Loading and unloading



### Task

To provide a loading gantry for a machine tool.

### SCHUNK solution

Loading of the machine with unfinished / finished parts is achieved with a SCHUNK pneumatic swivel unit with double grippers. This significantly reduces the cycle time.

### SCHUNK products



**X-axis (horizontal) D240-ZSS**  
Toothed belt axis  
Linear module



**Z-axis (vertical) D240-SSS**  
Spindle axis  
Linear module

**OSE**  
Rotary unit



**PGN-plus**  
Universal grippers



## SCHUNK Service



Competent and skilled personnel ensure optimal availability of your SCHUNK products, and make sure that their value will be maintained.

### Your advantage:

- Fast supply of original spare parts
- Reduction of down-times
- The complete spectrum of components from one source
- Quality and availability that can only be guaranteed by the original manufacturer
- 12-month warranty



### Initial operation

- Professional assembly
- Fast and trouble-free



### Inspection

- Inspection is carried out by skilled service engineers
- Avoiding unplanned failures of workholding and toolholding equipment



### Maintenance

- Regular maintenance carried out by skilled service engineers
- Increasing and ensuring the availability of your workholding and toolholding equipment



### Repairs

- Short down-times due to fast intervention of the SCHUNK service engineers
- Spare parts and accessories



## Training

- Fast and practical training
- Efficient use of your SCHUNK products by training of the operating personnel
- The basis for proper machining of workpieces
- Ensures longevity of your SCHUNK products

## Individual service – for better results

- Hotline to our inside technical consultants weekdays from 7 a.m. to 6 p.m.
- Project-oriented and on-site technical advice at your location
- Training on innovations and SCHUNK products – across the world in our local subsidiaries

## Online service – for a fast overview

All information in digital form, clearly structured and up-to-date on our website at [www.schunk.com](http://www.schunk.com)

- List of contact persons
- Online product search based on product descriptions
- Product news and trends
- Data sheets
- Order forms for easy and convenient ordering
- Free download area for pages from our product catalogs and technical data, for software and calculation programs for your gripping and rotary modules
- Free 2-D / 3-D CAD design models, provided in a wide range of different CAD formats – for easy integration into your design!





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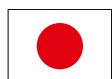
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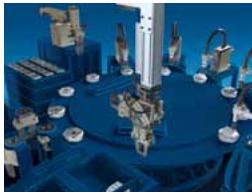
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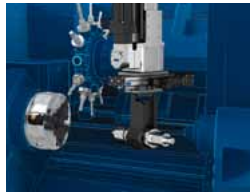
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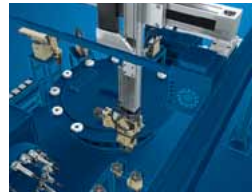
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