

Superior Clamping and Gripping



The modular Line and Room Gantry Design from SCHUNK

Standard Gantry – ready to assembly
at an optimum price and available more quickly





Superior Clamping and Gripping

Jens Lehmann stands for precise gripping and concentrated safe holding. As a brand ambassador of the SCHUNK team, the No. 1 goalkeeper communicates 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

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 2000 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

Standard Gantries with a pneumatic or electric drive from SCHUNK

Convincing performance

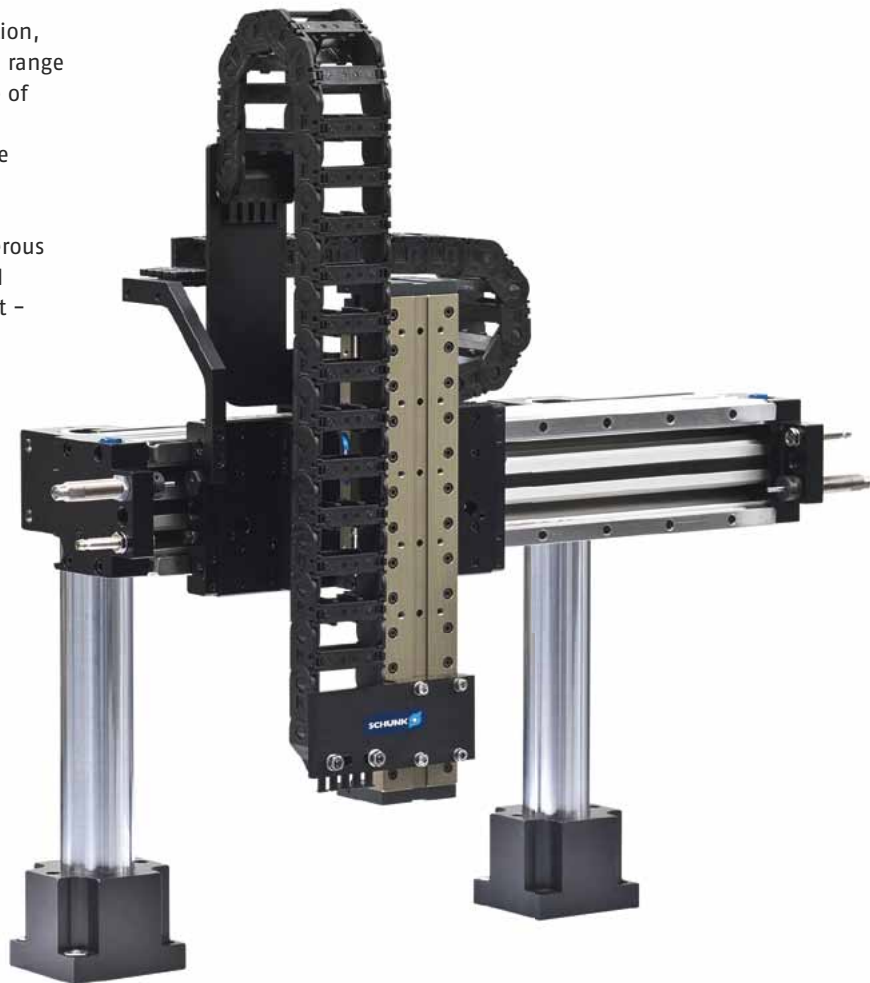
In terms of linear technology, SCHUNK is the specialist for gantry and linear axes with the most extensive range of components worldwide. With our experience as the leading expert for clamping technology and gripping systems, we offer you a customized and standard range of gantries.

The effect:

Reductions in investment as well as planning, assembly, and start-up times of up to 50%.

Whether for the automotive industry, laboratory automation, handling, assembly, or joining technology – the practical range of products with standard parameters cover a wide range of common requirements. With high-quality components adapted precisely to each other, the high performers have been designed for a long service life and precision.

With the predefined line and room gantry designs, numerous applications can be tackled much more economically and implemented faster without additional engineering effort – without loss of functionality or performance.



Your benefits:

- **30% reduced planning and engineering work**
due to predefined units and standard solutions which are ready for use
- **Highest precision due to a repeat accuracy**
of < 0.1 mm per axis
- **Minimal assembly work and immediate commissioning**
due to pre-assembled units and therefore shorter time-to-value
- **Variable weight handling possible**
due to five standard assembly groups
- **20% reduced investment costs**
favorable in price due to standardized design
- **Comfortable project planning**
due to independently configurable CAD files

Combine your desired Gantry

From more than 500 possible combinations

The SCHUNK standard range of gantries covers almost all common handling and assembly tasks. Combine the pre-defined parameters according to your process specifications to determine your desired gantry.

The focus of the pneumatic gantries is on the defined payload and that of the electric gantries is on the defined payload and dynamics. If additional modifications are required, SCHUNK will be pleased to develop an individual solution for you.

LPP – Pneumatic Line Gantries*

LPP 050 payload: max. 5 kg

Pillar assembly systems with horizontal pneumatic gantry axis and vertical pneumatic compact axis.



LPE – Electric Line Gantries*

LPE 100 payload: max. 10 kg

LPE 200 payload: max. 20 kg

Dynamic Y-axis: $a = 5 \text{ m/s}^2$, $v = 1 \text{ m/s}$

Dynamic Z-axis: $a = 2 \text{ m/s}^2$, $v = 0.25 \text{ m/s}$

Pillar assembly systems with horizontal, electric toothed belt axis, and vertical electric spindle axis.



On request
including motors
on all axes!

RPE – Electric Room Gantries*

RPE 100 payload: max. 10 kg

RPE 200 payload: max. 20 kg

Dynamic X-axis: $a = 5 \text{ m/s}^2$, $v = 1 \text{ m/s}$

Dynamic Y-axis: $a = 5 \text{ m/s}^2$, $v = 1 \text{ m/s}$

Dynamic Z-axis: $a = 2 \text{ m/s}^2$, $v = 0.25 \text{ m/s}$

Horizontal electric toothed belt axis in X-direction, horizontal electric toothed belt axis in Y-direction and vertical electric spindle axis.



On request
including motors
on all axes!

* Servo drives are optional, cable tracks and sensor technology are integrated, and all the necessary mechanical connecting elements are pre-assembled.

LPP Pneumatic Line Gantries

Ideal for point-to-point handling tasks

SCHUNK LPP line gantries are suitable for a wide range of handling tasks for small components. With the LPP line gantries, two working positions can be approached. The pillar assembly system is available in two heights.

Your advantage:

The defined traverse paths result from shopfloor reality.

You benefit from proven linear modules from SCHUNK. Sensors and shock absorbers are pre-assembled on the units, which

are then ready for operation. Cable tracks are integrated in the range of products for vertical strokes of 125 mm. A separate hose or cable guidance is usually not needed for shorter strokes.

Ideal application examples:

Pick & Place applications, loading and unloading of conveyor belts, pallets and machines, assembly automation, small part handling, simple handling tasks, etc.



Basic data

LPP 050

Defined payload	[kg]	max. 5
Pillar assembly system S	[mm]	400 / 600
Horizontal stroke Y [adjustable up to 50 mm on each side]	[mm]	300 / 400 / 500 / 600 / 700 / 800 / 900 / 1000 / 1100 / 1200 / 1300 / 1400 / 1500
Vertical stroke Z [adjustable up to 25 mm on each side]	[mm]	25 / 50 / 75 / 100 / 125 / 175 / 225

Designation for inquiries or orders – **example: LPP050 – S400 – Y0300 – Z050**

LPE Electric Line Gantries

Can be programmed as desired for complex positioning tasks

The LPE line gantries are the all-rounders for two-dimensional, fast and precise positioning tasks in terms of heavier weights and longer strokes.

Your advantage:

Any positions can be programmed and approached as required.

The electric line gantries are available in two payload categories. They consist of high-quality linear axes with robust toothed belt drive, and a precision profiled rail guidance for optimum running smoothness. High-performance servo drives with absolute-value transducers ensure a high repeat accuracy.

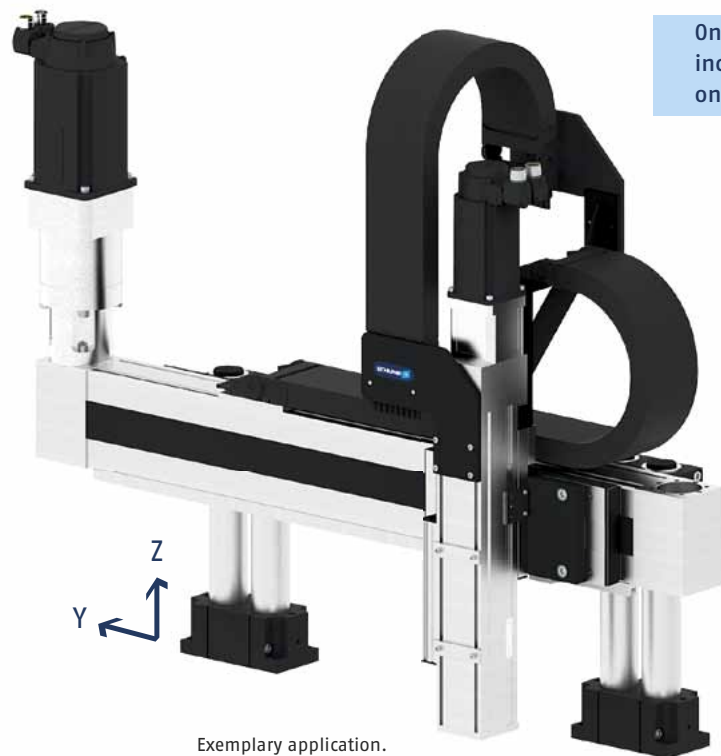
All units are pre-assembled in assembly groups that are ready for use.

Ideal application examples:

Handling and assembly technology, measurement and testing technology, component marking and identification, component assembly and final inspection in microelectronics, medical/surgical equipment etc.

Optional drive package for LPE 100 and LPE 200

- 2 x Bosch Rexroth IndraDrive CS controllers
- Controller interface PROFIBUS, SERCOS III, PROFINET IO, Ethernet/IP and EtherCat [Bosch Rexroth controller, IndraDrive]
- 2 x cable sets – optionally 5 m, 10 m, 15 m, 20 m
- Optionally with start-up software



Exemplary application.
The cover is not included
in the scope of delivery.

Basic data		LPE 100	LPE 200
Defined payload	[kg]	max. 10	max. 20
Pillar assembly system S	[mm]	400 / 600 / 800	400 / 600 / 800
Horizontal stroke Y [Dynamics: $a = 5 \text{ m/s}^2$, $v = 1 \text{ m/s}$]	[mm]	500 / 800 / 1000 / 1200 / 1500	500 / 800 / 1000 / 1200 / 1500
Vertical stroke Z [Dynamics: $a = 2 \text{ m/s}^2$, $v = 0.25 \text{ m/s}$]	[mm]	100 / 300 / 500	100 / 300 / 500

Designation for inquiries or orders – **example: LPE100- S600 - Y1200 - Z300**

RPE Electric Room Gantries

Can be programmed as desired in three dimensions

The RPE room gantries are precise standard solutions that can make full use of all degrees of freedom with three axes.

Your advantage:

Maximum flexibility – any positions can be programmed and approached in three dimensions.

The electric line gantries are available in two payload categories. They consist of two high-quality linear axes with robust toothed belt drive and a precision profiled rail guidance for optimum running smoothness. A vertical axis with spindle drive meets the high precision and driving force demands. High-performance servo drives with direct stroke measuring system ensure a high repeat accuracy.

All units are pre-assembled in assembly groups that are ready for use.

Ideal application examples:

Handling and assembly technology, measurement and testing technology, component marking and identification, component assembly and final inspection in microelectronics, medical/surgical equipment etc.

Optional drive package for RPE 100 and RPE 200

- 3 x Bosch Rexroth IndraDrive CS controllers
- Controller interface PROFIBUS, SERCOS III, PROFINET IO, EtherNet/IP and EtherCat [Bosch Rexroth controller, IndraDrive]
- 3 x cable sets – optionally 5 m, 10 m, 15 m, 20 m
- Optionally with start-up software

On request
including motors
on all axes!



Basic data

		RPE 100	RPE 200
Defined payload	[kg]	max. 10	max. 20
Horizontal stroke X [Dynamics: $a = 5 \text{ m/s}^2$, $v = 1 \text{ m/s}$]	[mm]	500 / 800 / 1000 / 1200 / 1500	500 / 800 / 1000 / 1200 / 1500
Horizontal stroke Y [Dynamics: $a = 5 \text{ m/s}^2$, $v = 1 \text{ m/s}$]	[mm]	500 / 800 / 1000 / 1200 / 1500	500 / 800 / 1000 / 1200 / 1500
Vertical stroke Z [Dynamics: $a = 2 \text{ m/s}^2$, $v = 0.25 \text{ m/s}$]	[mm]	100 / 300 / 500	100 / 300 / 500

Designation for inquiries or orders – example: **RPE200 – X1000 – Y0800 – Z100**

Inquiry form

Copy, complete and fax to +49-7133-103-2679

LPP – Pneumatic Line Gantries

Defined payload in kg

☐ max. 5

Horizontal stroke in mm [adjustable up to 50 mm per side]

☐ 300

☐ 400

☐ 500

☐ 600

☐ 700

☐ 800

☐ 900

☐ 1000

☐ 1100

☐ 1200

☐ 1300

☐ 1400

☐ 1500

Vertical stroke in mm [adjustable up to 50 mm per side]

☐ 25

☐ 50

☐ 75

☐ 100

☐ 125

☐ 175

☐ 225

Pillar height in mm

☐ 400

☐ 600

LPE – Electric Line Gantry

Defined payload in kg

☐ max. 10

☐ max. 20

Horizontal stroke Y-axis in mm

☐ 500

☐ 800

☐ 1000

☐ 1200

☐ 1500

Vertical stroke Z-axis in mm

☐ 100

☐ 300

☐ 500

Pillar height in mm

☐ 400

☐ 600

☐ 800

Cable set in m

☐ 5

☐ 10

☐ 15

☐ 20

Interfaces

☐ Profibus

others

RPE – Electric Room Gantries

Defined payload in kg

☐ max. 10

☐ max. 20

Horizontal stroke X-axis in mm

☐ 500

☐ 800

☐ 1000

☐ 1200

☐ 1500

Horizontal stroke Y-axis in mm

☐ 500

☐ 800

☐ 1000

☐ 1200

☐ 1500

Vertical stroke Z-axis in mm

☐ 100

☐ 300

☐ 500

Cable set in m

☐ 5

☐ 10

☐ 15

☐ 20

Interfaces

☐ Profibus

others

CAD data on request

Make use of our CAD data service for your planning work.

If additional modifications are required, SCHUNK will be pleased to develop an individual solution for you. With SCHUNK, you can benefit from the most extensive range

Inquiries: Phone +49-7133-103-2929 or
automationsolution@de.schunk.com

of linear technology components from a single source. Place your trust in our experience and expertise for handling solutions from 1 g to 500 kg. Contact us.

Firma | Company

Name | Name

Abteilung | Department

Straße | Street

PLZ | ZIP

Ort | City

Tel.

Fax

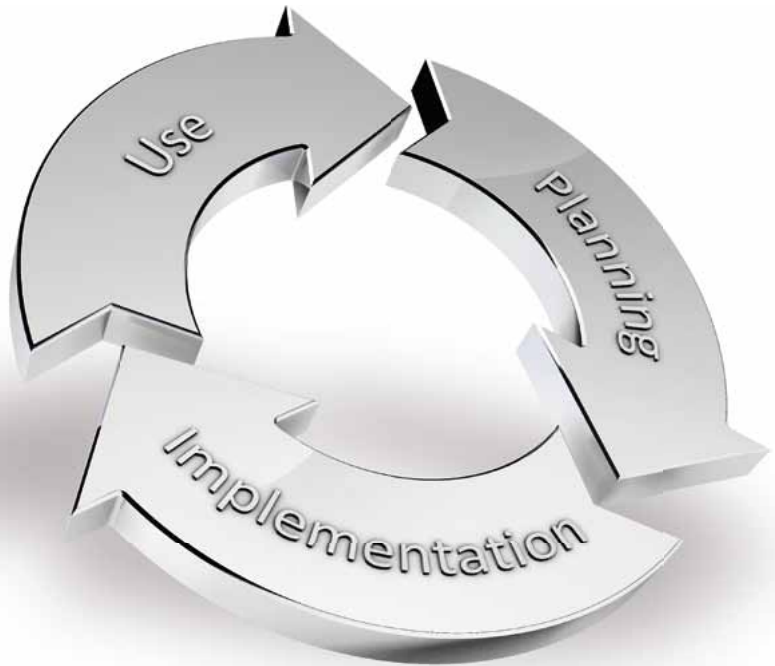
E-Mail

SCHUNK Service Gripping Systems

Reliable and efficient for the whole product life cycle

Service means that we ensure the optimum availability of all our products. This is the reason why we concentrate on the essentials for SCHUNK Gripping Systems: on the competent support from the project planning, delivery, commissioning, and the maintenance over the entire product life cycle.

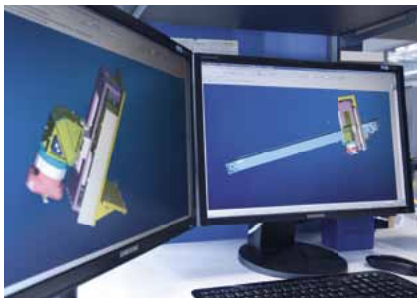
This service philosophy ensures you satisfaction in the fields of **planning, implementation** and **use**.



SCHUNK Service – Your benefits at a glance:

Planning

Greater individuality due to customized solutions. Greater planning certainty in quality, time and costs.



- Cost-free CAD data
- Configuration software
- Trail order
- Feasibility study
- Customizing
- Order-related development service

Implementation

Faster start-up due to a more effective implementation. More cost-efficiency right from the start.



- Preliminary start-up
- Implementation assistance on-site
- Customer-specific documentation
- Rapid prototyping

Use

Targeted support for the entire product life cycle. More economic efficiency and reliability in the production process.



- Spare part service
- Repair service
- Maintenance service
- Customer trainings
- Product optimization

Katalogbestellung | Catalog Order

Kopieren, ausfüllen, faxen an +49-7133-103-2779 | Copy, complete, fax to +49-7133-103-2779

Greifsysteme | Gripping Systems

☐ Gesamtprogramm Greifsysteme
Complete program Gripping Systems



☐ Greifmodule
Gripping Modules



☐ Drehmodule
Rotary Modules



☐ Linearmodule
Linear Modules



☐ Roboterzubehör
Robot Accessories



☐ Modulare Montagetechnik
Modular Assembly Technology



☐ Produktübersicht
Product Overview



☐ Highlights
Neuheiten | New Products



☐ Sonderkomponenten
Special Components



☐ Mechatronik
Mechatronics



☐ Linien-/Raumportale
Modular Line/Room Gentries

Spanntechnik | Toolholding and Workholding

☐ Gesamtprogramm Spanntechnik
Complete program Toolholding and Workholding



☐ Werkzeughaltersysteme
Toolholding Systems



☐ Stationäre Spannsysteme
Stationary Workholding



☐ Drehfutter
Lathe Chucks



☐ Spannbacken
Chuck Jaws



☐ Magnetspanntechnik
Magnetic Clamping Technology



☐ Produktübersicht
Product Overview



☐ Hydro-Dehnspanntechnik
Sonderlösungen | Hydraulic
Expansion Technology
Special Solutions



☐ Highlights
Neuheiten | New Products

Firma | Company

Name | Name

Abteilung | Department

Straße | Street

PLZ | ZIP

Ort | City

Tel.

Fax

E-Mail

09/2012

Superior Precision from the competence leader for clamping technology and gripping systems.

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www.facebook.com/SCHUNK.HQ



J. Lehmann

Jens Lehmann,
Brand ambassador for SCHUNK since 2012
www.gb.schunk.com/Lehmann