

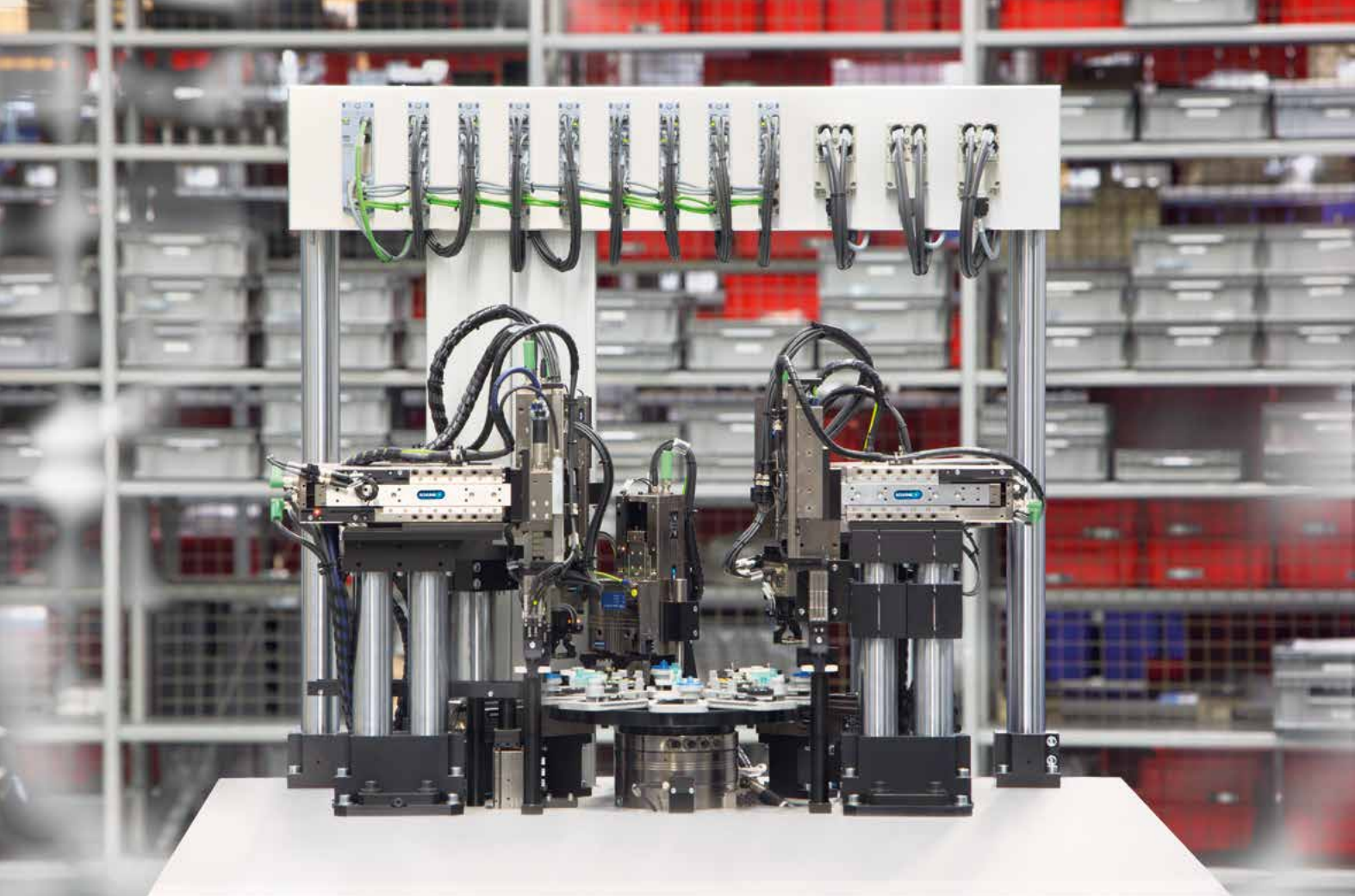


Superior Clamping and Gripping



Linear Module ELP

No other electric Linear Module on the
Market is as easy to adjust



Easily combined. Consistently implemented.

The modular 24 V mechatronics program from SCHUNK.

With the SCHUNK mechatronic modular system under the use of the pillar assembly system SAS, entire assembly plants can be implemented based on 24 V technology.



Electrical Gripper for Small Components EGP

The electric small components gripper with the most compact performance in assembly automation. Speed version, the perfect solution for high-speed assembly. No wearing parts for the same performance as a pneumatic gripper.



Electric Rotary Gripping Unit EGS

The most compact electric rotary gripping unit in the world. Multi-level, simple adjusting option of swivel speed and gripping force using manual rotary switch for maximum flexibility. No end position shock absorber.



Pillar Assembly System SAS

100% flexible. Components and modules can be combined as desired and precisely. Modular systems of standardized pillar profiles, adapter plates, centering and connection elements. Up to 10,000 combination possibilities.

SCHUNK Linear Module ELP

The new benchmark among mechatronic linear modules.
24 V technology and unique integrated auto-learn function.

Easy to Start Up!

The SCHUNK ELP is the **most easy to configure** electrical linear module on the market, and is therefore the new technological benchmark for use in modular assembly.

- **Ready for use in only two work steps!**
Configure end positions mechanically with a screw and the speed of extension and retraction using rotary switches on the side. ... and you're done!
- Automatic adjustment of the speed due to the **revolutionary auto-learn function**.
- No adjustment of the shock absorber is necessary – **the drive automatically regulates the brake process**.
- **Simple control** via digital I/O such as pneumatic valves, meaning no mechatronics expertise is necessary.

Easy to use!

The SCHUNK ELP is **practically wear and maintenance-free** and is therefore robust and long-lasting.

- **No shock absorbers** could be damaged or require replacing.
- **No manufacturing downtimes** of the automated system due to maintenance or repair

Easy to integrate!

The control and power electronics are integrated directly into the module.

- **Less space** required in the control cabinet.
- The ELP module can be controlled decentrally **via a field-bus distributor** or directly via digital signals.

Alternative
Adaptable
Intelligent

MECHATRONIK³



Unique auto-learn function!

Automatic speed adjustment in 2 – 5 cycles.

Further information
on SCHUNK ELP:

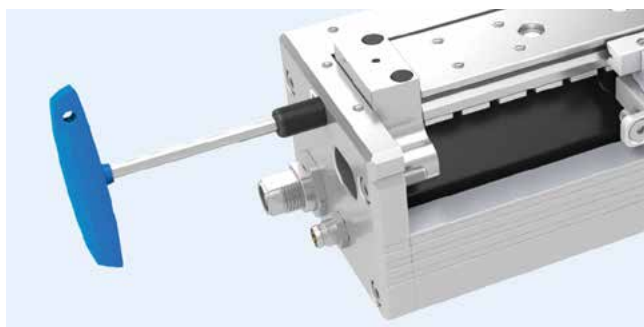
schunk.com/elp

Considered Technology in Detail

Simple, convenient and powerful.

Quick end position configuration!

With the SCHUNK mechatronic linear module ELP, the end positions can be configured very simply using a fitting screw with an Allen key.



Auto-learn function!

The SCHUNK ELP's auto-learn function compensates for incorrect speed configurations. During the teach-in process, the ELP is always automatically adjusted to the maximum possible speed for the current load. After this, the extension and retraction speed of the SCHUNK ELP can be finely adjusted using two rotary switches. The integrated LED display indicates the status of the learning process.



NEW: Electric holding brake

In the event of a power failure, the position of the linear module is reliably held and any unintended fall-off of vertically arranged axes into the working area is prevented. The holding brake allows the STO (Safe Torque Off) safety function to be executed. The holding brake can be retrofitted as an option.



Distribution of payload

The payload of the SCHUNK ELP is dependent on the size and installation position. Vertically between 0.75 up to 4 kg. Horizontally between 1 and 6 kg.

	Vertical 0.75 – 4 kg	Horizontal 1 – 6 kg
ELP 25		
ELP 50		
ELP 100		

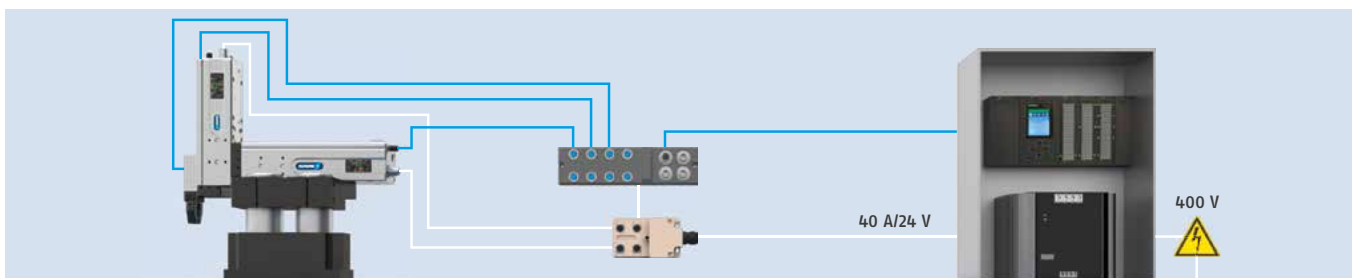
The Control- and Supply Concept in Comparison

The benefits at a glance.

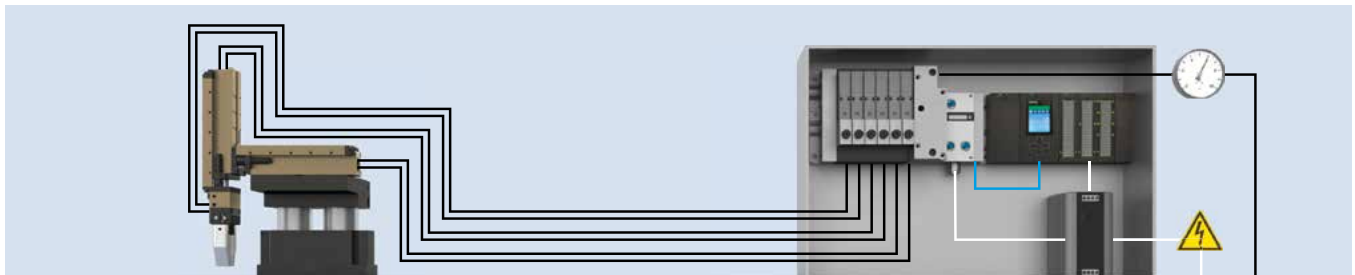
With the new standard in assembly automation, SCHUNK provides you with a consistent control and supply concept via digital signals I/O and 24 V operating voltage.

- + Decentralized supply**
is possible due to the conventional power and sensor distributors
- + Industry standard**
Electrical connections for simple commissioning with standard cables
- + More space**
in the electrical cabinet and reduced wiring costs

Electrical, digital easy and space-saving



Costly pneumatics



The benefits at a glance.

Alternative	Simply replace pneumatic module 1:1 with a mechatronic one
More precise	±0.01 mm repeat accuracy
More compact	Control and auto-learn function completely integrated into module
Longer service life	No shock absorber , meaning fewer wearing parts and longer maintenance intervals
More consistent	Junction roller guides free from clearance guarantee high load handling and end position precision in all assembly positions
More convenient	Convenient configuration without external controller and additional programming
More energy efficient	Can be controlled using a fieldbus distributor due to low current input

Technical Data

Sizes 25 .. 100	Weight 1.8 .. 8.2 kg	Stroke 30 .. 200 mm	Rated force 17 .. 104 N	Repeat accuracy ±0.01 mm

SCHUNK MECHATRONIK³ – more than 300 electrical Standard Components for individual Customer Gripping System Solutions.

Benefit from the 3 main features of our leading modular system:

Alternative

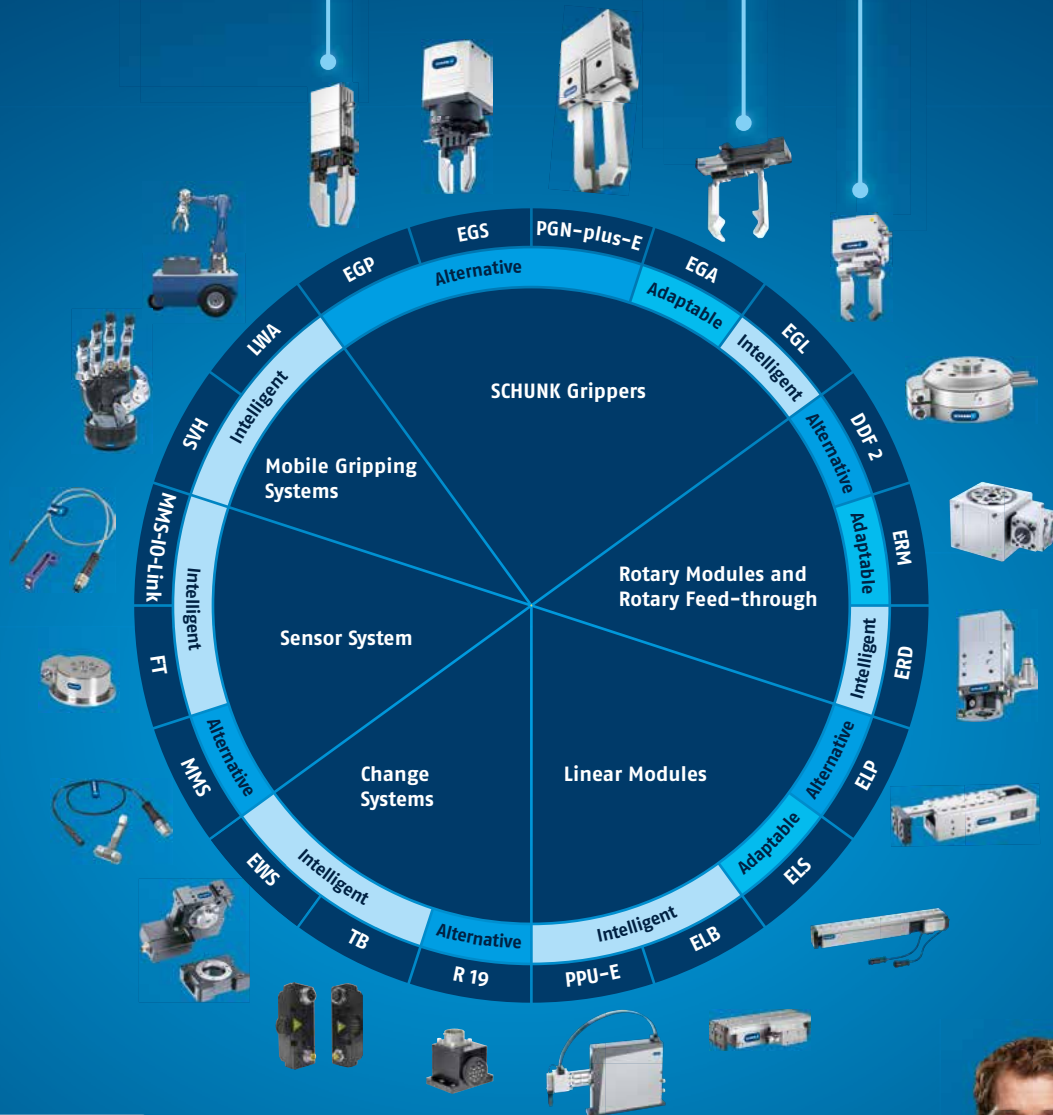
Like-for-like pneumatic replacements with no change in power.

Adaptable

Driven by conventional servo motors.

Intelligent

Fully integrated motor and control technology.



Further information
on SCHUNK MECHATRONIK³
schunk.com/mechatronic

J. Lehmann

Jens Lehmann, German goalkeeper legend,
SCHUNK brand ambassador since 2012
for safe, precise gripping and holding.
schunk.com/lehmann

