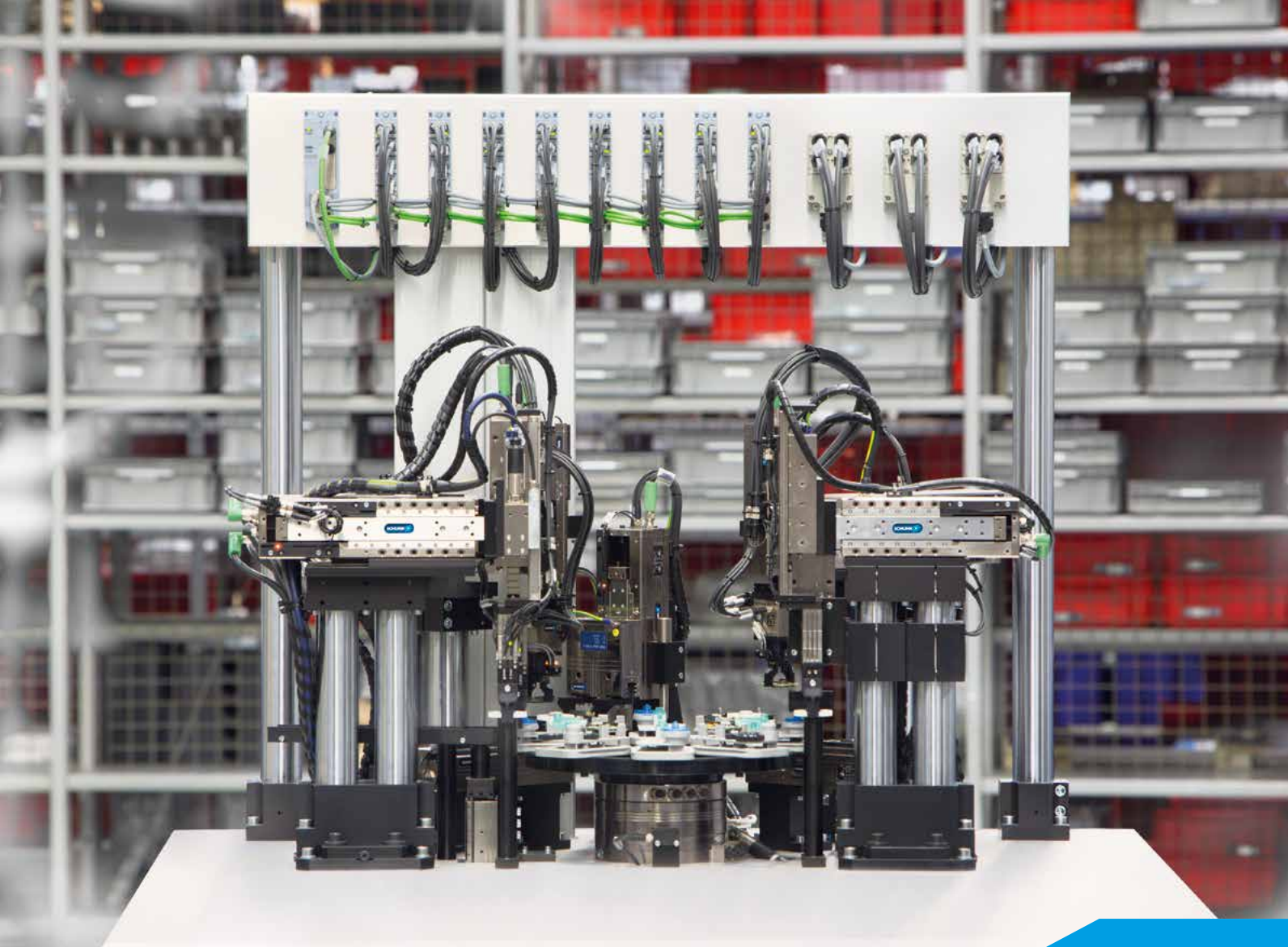




Superior Clamping and Gripping



The new Standard in Assembly Automation

The 24 V Mechatronics Program
from SCHUNK

Easily combined. Consistently implemented.

The revolutionary 24 V Mechatronics Program from SCHUNK.

With the new 24 V modular system, SCHUNK is defining a new benchmark in assembly automation. For the first time, complete assembly systems with linear axes, rotary modules and grippers can be implemented entirely using 24 V technology. The reduced maintenance costs, easy combination, high process reliability and the lower operating costs are revolutionary.

Pick & Place production cell Simple, compact and swift implementation.



Easy to Create!

Complete Pick & Place applications can be intuitively configured with minimal construction and assembly effort.
[schunk.com/3d-konfigurator](https://www.schunk.com/3d-konfigurator)



Easy to Start Up!

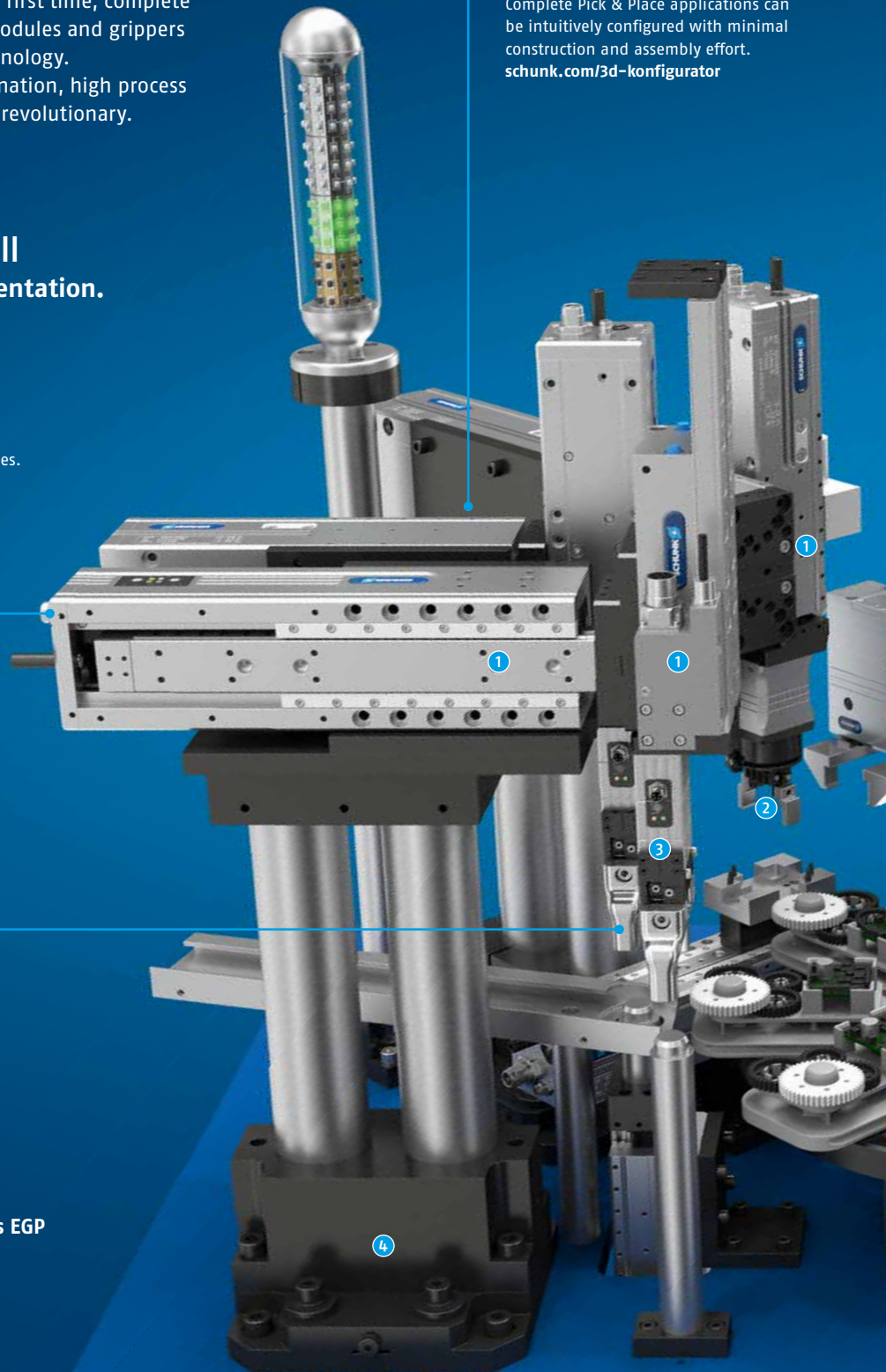
Simple commissioning of the mechatronic modules.
Simpler and more intuitive than pneumatics.



Plug and Work!

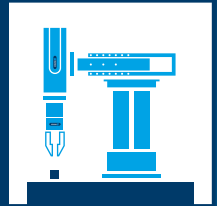
Easily combine, integrate and seamlessly start using mechatronic SCHUNK grippers, rotary and linear modules from the modular system.

- ① Electric Linear Module ELP
- ② Electric Rotary Gripping Unit EGS
- ③ Electrical Gripper for Small Components EGP
- ④ SAS SCHUNK Pillar Assembly System



Equipped
by

SCHUNK



Easy to integrate!

Can be integrated into the system in a variety of energy-efficient ways. Consistent supply concept with standardized connecting plug and control with digital I/O. Using conventional, standardized cables and distributors, systems can be implemented easily and very compactly.



Easy to use!

Low-wear and maintenance-free modules for seamless operation of handling and assembly systems without machine shutdown. Simple setting options can be used to react quickly to process changes, right up to automatically adjusting the modules.



Easy to save money!

Observing the procurement, operating and maintenance costs in direct comparison with purely pneumatic systems, the deployment becomes economical after just a few million cycles.

Further information on the new
standard in assembly automation:
schunk.com/standard-in-assembly-automation

The New Standard in Assembly Automation

The 24 V Mechatronics Program from SCHUNK

Modular Assembly Automation: Equipped by SCHUNK

Flexible. Productive. Efficient.

With its 24 V modular system for assembly automation, SCHUNK is a pioneer for a technology that in the future alongside pneumatic and servo-electrical systems will grow to become a third strong pillar in the area of assembly automation. The 24 V technology satisfies the requirements with respect to flexibility, productivity, efficiency and in practice with respect to reduction of the commissioning outlay and noise level.



Your benefits at a glance

- + Time saving**
Simple and swift commissioning of the modules, compact assembly of the overall system from the modular system
- + Maintenance-free components**
for the highest level of machine availability and part production
- + Practically no wear parts**
Can plan ahead, thereby lowering operating costs
- + Consistent control concept**
for swift and simple integration into the overall system and the superordinate control
- + Process reliable**
Minimal vibrations and noise whilst at the same time high cycle times increases the service life and the throughput of the system
- + 24 V supply concept**
Consistent for the maximum safety requirements
- + Compact systems**
Compared to pneumatics significantly fewer supply lines due to the use of logic and power distributors

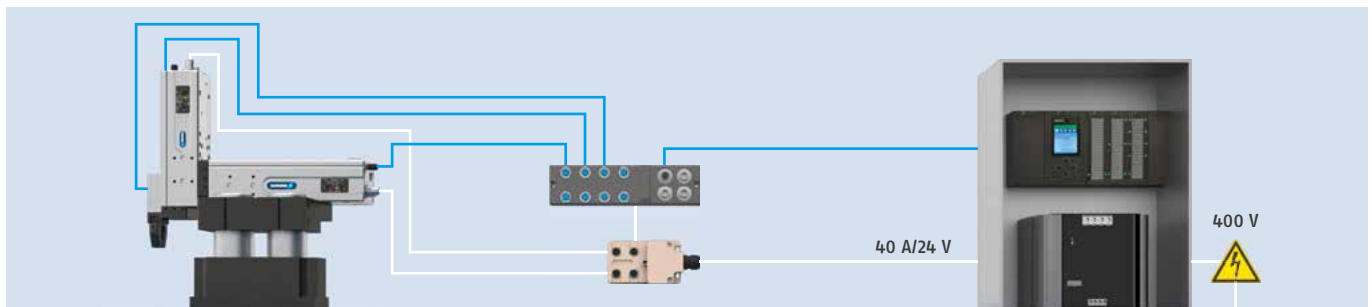
The Control and Supply Concept in Comparison

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



Complex pneumatics



Combine easily and flexibly from the modular system

1-axis application in assembly automation



2-axis pick & place system in assembly automation



2-axis pick & place system in the area of handling and assembly automation



The New Standard in Assembly Automation

The 24 V Mechatronics Program from SCHUNK

Electrical Gripper for Small Components EGP

The electric small components gripper with the most compact performance in assembly automation

No wearing parts for the same performance as a pneumatic gripper. Speed version, the perfect solution for high-speed assembly.

Your Advantages:

- **24 V voltage supply** and control via digital I/O with just one cable connection
- **Setting as simple** as with pneumatic components
- **Virtually no wearing parts** and the simplest integration into existing electrical systems
- **Speed version** for the highest level of performance
- **4 sizes** cover a large range of gripper parts
- **Fully compatible** in the 24 V mechatronic modular system



Electric Rotary Gripping Unit EGS

The most compact electric rotary gripping unit in the world

No end position shock absorber. Consequently low-maintenance and easy to commission. Multi-level, simple adjusting option of swivel speed and gripping force using manual rotary switch for maximum flexibility.

Your Advantages:

- **24 V power supply** and control via digital I/O, one supply cable for turning and one for swiveling
- **Virtually maintenance-free**, no shock absorbers are fitted
- **Simple adjustments**, unlike pneumatics no shock absorbers or throttles must be adjusted
- **Simple combination** of the modules from the modular system
- Compact gripper swivel module with **minimal interference contour**
- **Maximum performance** due to fast swiveling time



Electric Linear Module ELP

No other electric linear module on the market is as user-friendly to adjust.

Automatic adjustment of the optimum speed due to revolutionary auto-learn function. Virtually maintenance-free as no wearing parts (no shock absorbers or seals).



Your Advantages:

- **Auto-learn function** for automatic speed adjustment
- Commissioning in **just two steps**:
 - Mechanical end position adjustment
 - Fine tuning the speed
- **24 V voltage supply** and control via digital I/O
- **Virtually maintenance and wear-free**, as there are no shock absorbers or seals
- **3 sizes with graded stroke variants** – the right solution for every application
- **Simple combination** with the SCHUNK gripper EGP and rotary gripping unit EGS due to perfectly attuned mechanical connectors
- Optional **with holding brake**

Pillar Assembly System SAS

100% flexible. Components and modules can be combined precisely as desired

Discover the extensive modular system of standardized pillar profiles, adapter plates, centering and connecting elements with the possibility of directly fitting standard elements for media feed-throughs.

Your Advantages:

- Up to **10,000** reproducible combination possibilities
- **Direct connection** of a multitude of SCHUNK components
- **Hard chrome-plated steel pillars** in various diameters and lengths for flexible applications and high rigidity
- **Robust and highly accurate** due to precise geometric tolerances
- **Media feeding** for pneumatic and electrical supply can be mounted directly



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

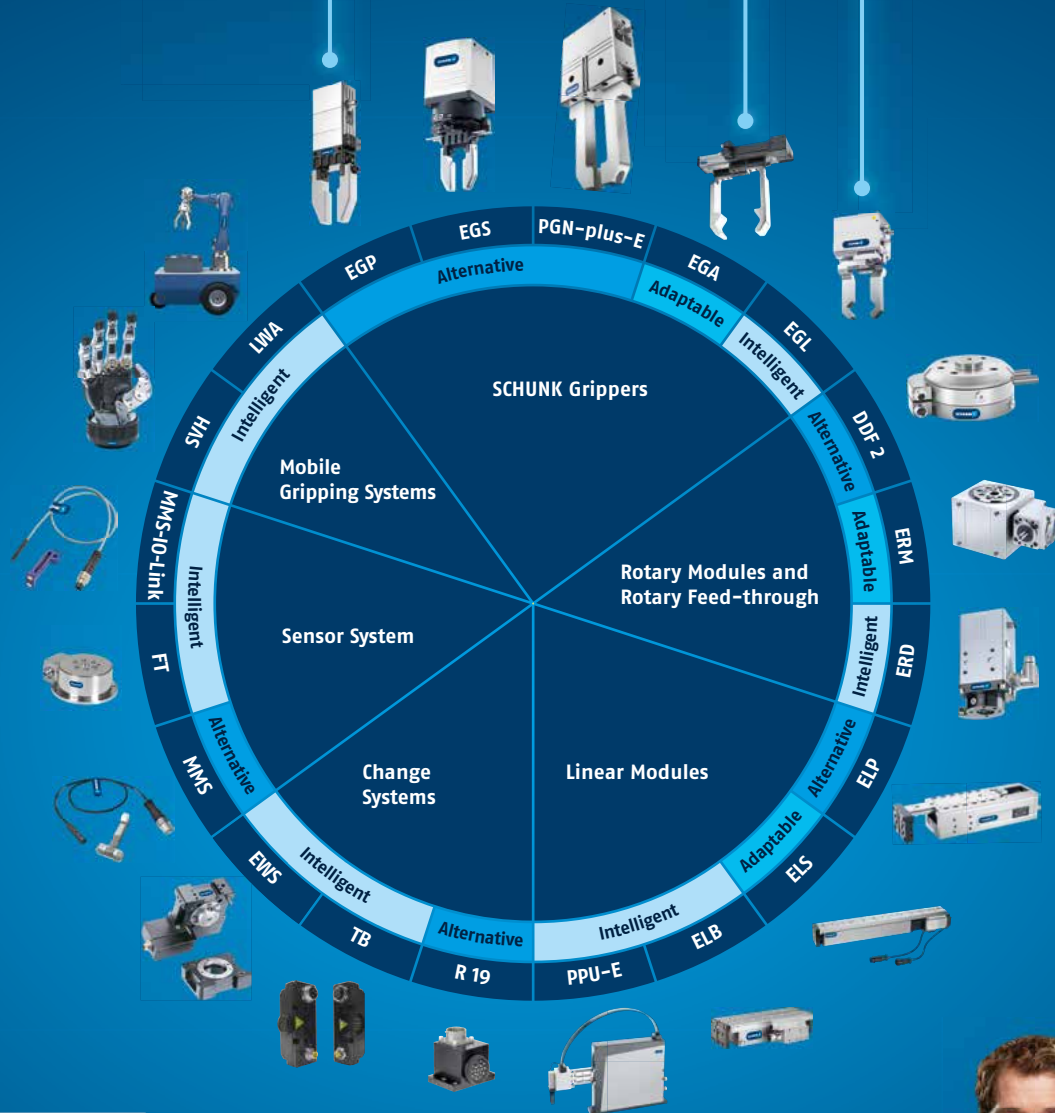
Like-for-like pneumatic replacements with no change in power.

Adaptable

Driven by conventional servo motors.

Intelligent

Fully integrated motor and control technology.



Alternative
Adaptable
Intelligent
MECHATRONIK³

Would you like additional 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

