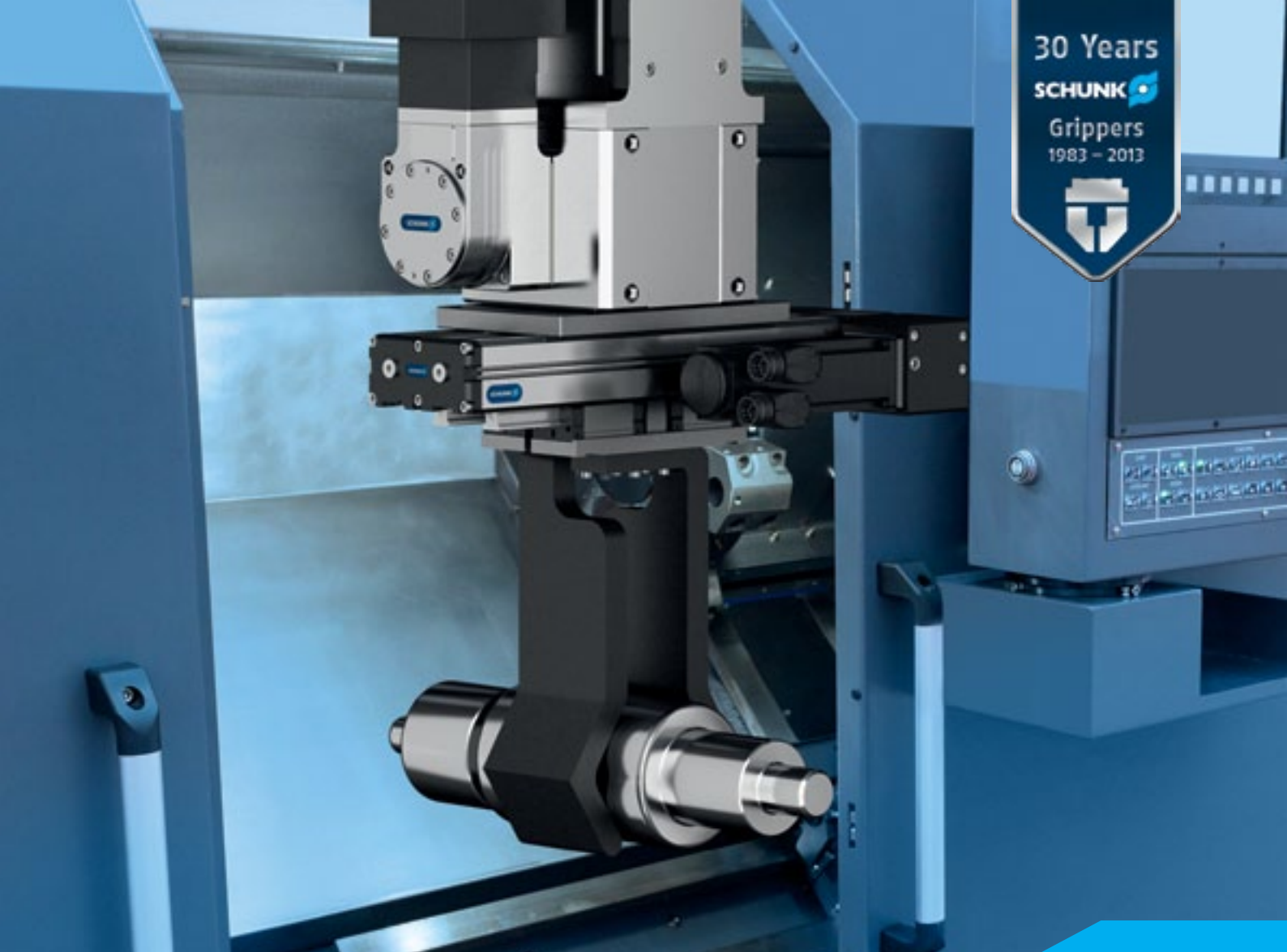


30 Years

SCHUNK

Grippers

1983 – 2013



Superior Clamping and Gripping



Electric Rotary Module ERM

Easily adaptable due to the
90° swivelable drive

Rotary Module ERM

Extremely adaptable. Perfectly integrateable.

Change over to ERM now.

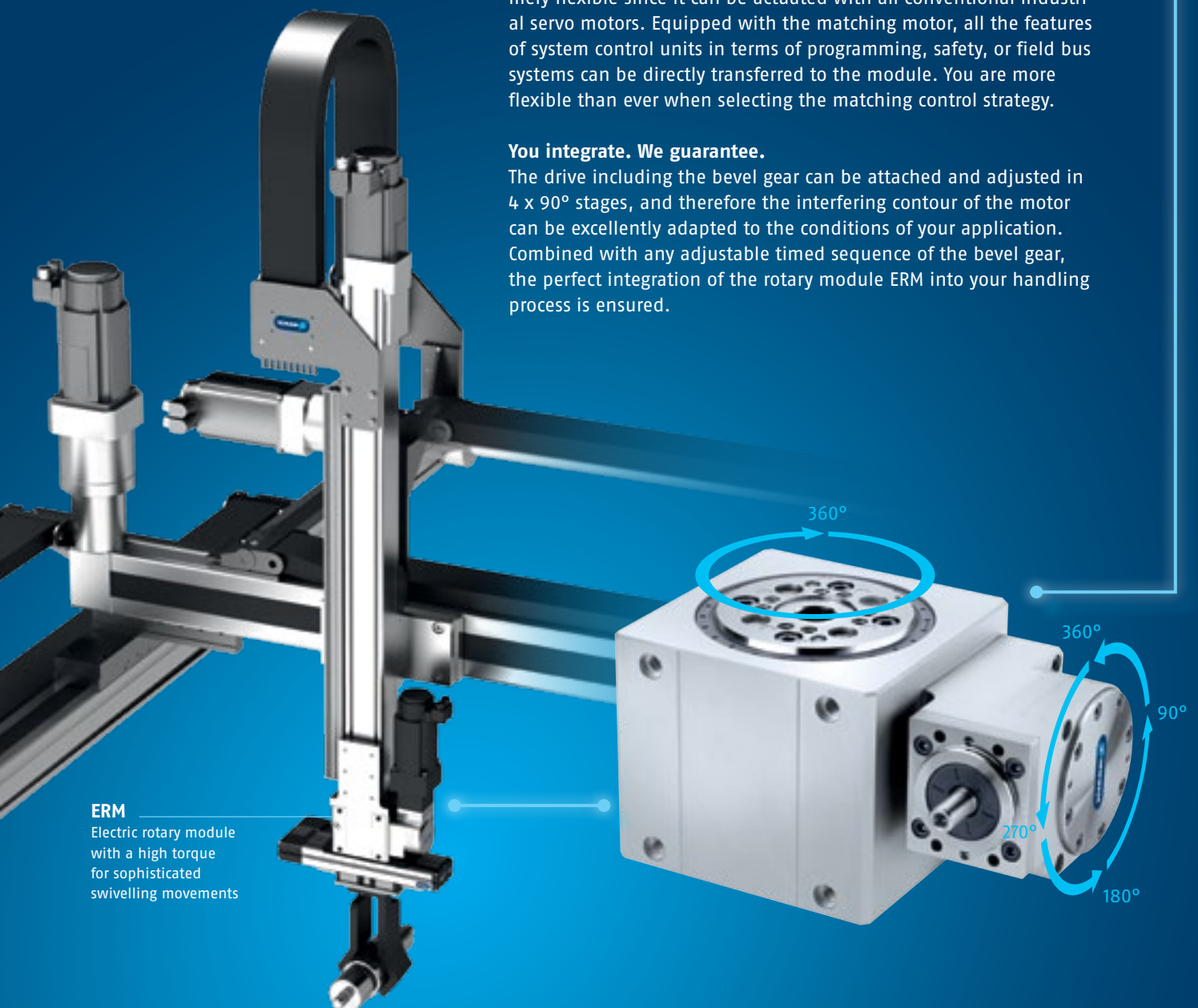
The ERM from SCHUNK is the first rotary module with a swivable and adaptable drive. Due to its universal drive concept, it can do all in one from rotating and swiveling to reorientation of workpieces.

More flexible than ever.

Due to the adaptable drive, the rotary module ERM can be perfectly integrated into existing assembly and handling plants. It is extremely flexible since it can be actuated with all conventional industrial servo motors. Equipped with the matching motor, all the features of system control units in terms of programming, safety, or field bus systems can be directly transferred to the module. You are more flexible than ever when selecting the matching control strategy.

You integrate. We guarantee.

The drive including the bevel gear can be attached and adjusted in 4 x 90° stages, and therefore the interfering contour of the motor can be excellently adapted to the conditions of your application. Combined with any adjustable timed sequence of the bevel gear, the perfect integration of the rotary module ERM into your handling process is ensured.



ERM

Electric rotary module
with a high torque
for sophisticated
swivelling movements

360° infinitely rotating

Automated
handling

Automated
handling

Lathe

Automated machine loading

Machining
center

Modular assembly
automation

Mobile
gripping systems

Superior Clamping and Gripping – It is time to make use of your machine's full potential!

With superior components, we awake reserves where you would never expect them. In your machine. SCHUNK Synergy – the perfectly harmonized interplay of clamping technology and gripping systems make our customers a champion in productivity.

Our Promise of Performance. Your benefit.

Depending on the used motor, the rotary module ERM disposes of a torque of maximum 75 Nm, and any intermediate position can be approached. Designed for axial forces up to 4,000 N, and speeds up to 62.5 rpm, the module is suitable as a freely programmable rotary indexing table, as a positioning device, or for reorientation of workpieces. The standard center bore allows constructions of particularly compact plant designs.



We guarantee. You benefit.

Easier	Easy plant integration the customer selects the desired motor after having checked the data of his plant in terms of field bus and safety technology
More agile	360° infinitely rotating for a wide range of possible applications
More flexible	Up to 360° adjustable 4 x 90° stages Use at gantries or robots is possible, since the drives can be flexibly adjusted.
More precise	75 Nm high torque and a 0.06° repeat accuracy for positioning high payloads precisely
More agile	Any intermediate position can be chosen for ensuring highly flexible processes, and optimal adaptation to the individual applications
More compact	Center bore Ø 22 mm, and a 8-fold media feed-through up to 8 bar for compact plant designs, and for the use of pneumatic gripping modules
More quiet	0.05 mm axial run-out for rotary indexing tables
More robust	Protection class IP65 for the use in harsh environmental conditions

Technical Data

Size 160	Dead weight 15 kg	Torque 75 Nm	Air feed troughs 8	Speed 62.5 rpm

Highest Quality. Great Longevity.

The Rotary Module ERM in practice

Task

Loading and unloading a machine tool with raw and finished parts.

Solution

A handling system consisting of a gantry, two SCHUNK 3-finger centric grippers PZN-plus, and a rotary module ERM are taking over the handling of raw and finished parts. In the first step the raw part is removed from a rack with a gripper, and transported to the machine tool. During the swivelling process, the rotary module ERM and both grippers are alternately loading and unloading the raw and finished parts from the machine. The fingers of the finished parts gripper are particularly designed for a gentle and damage-free handling of the work-pieces.

Customer benefits

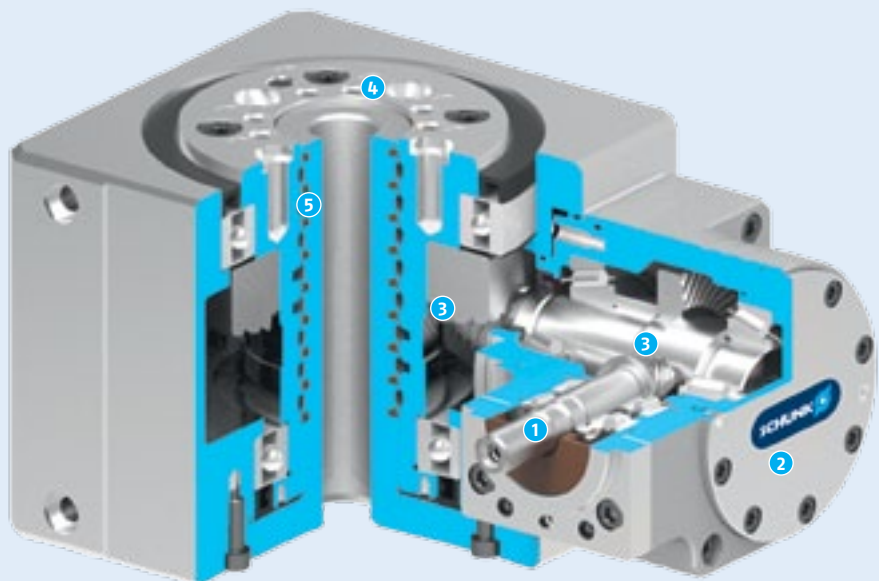
- Very efficient loading and unloading of the machine tool is possible.
- The travel times of the handling axes and the downtime of the machine tool are minimized.



The rotary module ERM can be flexibly used for various application tasks.

Sectional diagram

- 1 Motor shaft**
for motor connection
- 2 Bevel gear**
variably attachable.
Therefore the motor can be
swivelled 4 x by 90° stages
- 3 2-fold hypoid gear stages**
for gear reduction of the
rotation
- 4 Drive flange**
to adapt the application
for rotation
- 5 Integrated air feed through
with connection borehole**
for hose-free feed-through
of the compressed air



MECHATRONIK³

The SCHUNK mechatronic Modular System offers 100% Compatibility

SCHUNK is the first manufacturer who bundles a variety of mechatronic modules in one single program. The spectrum ranges from simple gripping modules as a pneumatic alternative to gripping and rotary modules with integrated intelligence up to adaptable, mechatronic gripping and rotary modules. The latter ones can be equipped with different motors and functionalities.

SCHUNK Grippers

Electric 2-Finger Small Parts Gripper EGP

The EGP scores with a 180% better gripping force-mass-ratio towards comparable small parts grippers. By using the EGP, the change from pneumatic to mechatronic gripping modules is child's play. Gripper size 40 disposes of a gripping force which can be manually adjusted in 4 stages. The new gripper size 25 is the smallest electric gripper worldwide. The EGP is the ideal electric alternative to the pneumatic SCHUNK 2-Finger Parallel Gripper MPG-plus. A change is quickly and easily possible.

SCHUNK Rotary Modules

Electric Rotary Module ERS with rotary feed-through

The ERS is a new option, and is equipped with a pneumatic or electric rotary feed-through DDF. The standard DDF module disposes of eight signal feed-throughs, and a pneumatic air channel. In order to ensure highest flexibility of the control strategy, the rotary module ERS can be actuated with the external SCHUNK controller for 48 V, or with an external standard controller (e.g. Bosch or Siemens) for the 560 V version. Depending on the requirement and case of application, the ERS is available with a pneumatic holding brake, or as an IP 54 protection class version.

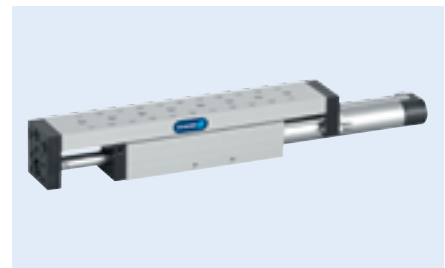
SCHUNK Linear Modules

ELM with direct drive

Particularly used for flexible and highly dynamic positioning tasks, which cannot be solved with pneumatic drives any more. A measuring system for position recognition and control of temperature, and a precision ball-bearing are directly integrated.



**Order the
brochure now!**



**„360° – fully flexible.
Efficient in all directions.“**

J. Lehmann

Jens Lehmann
German goalkeeper legend,
brand ambassador of SCHUNK,
the family-owned company
since 2012



**For further information
visit our website:
www.gb.schunk.com/qr/erm**

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