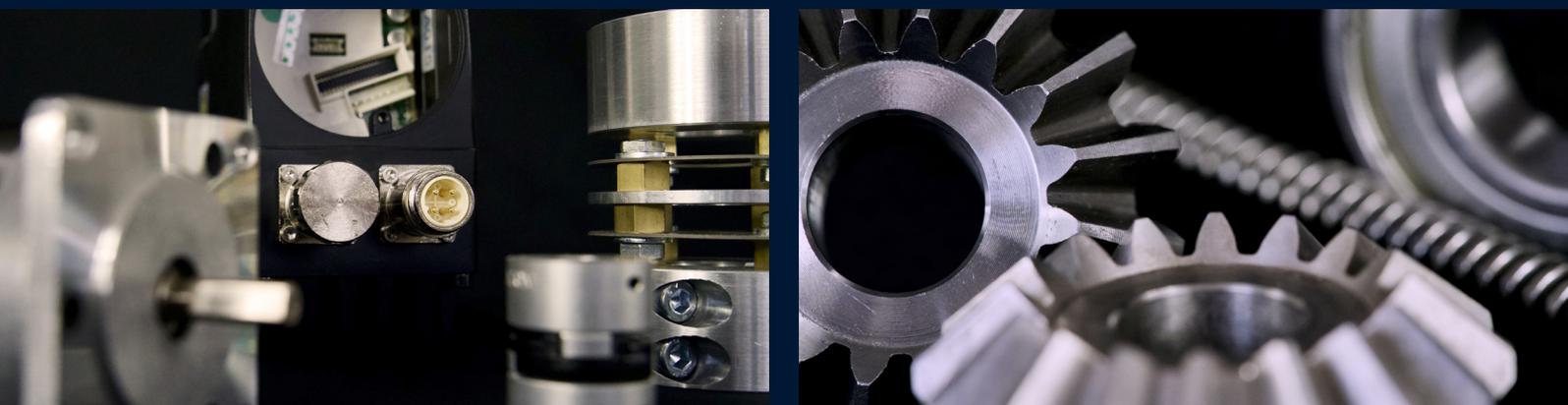
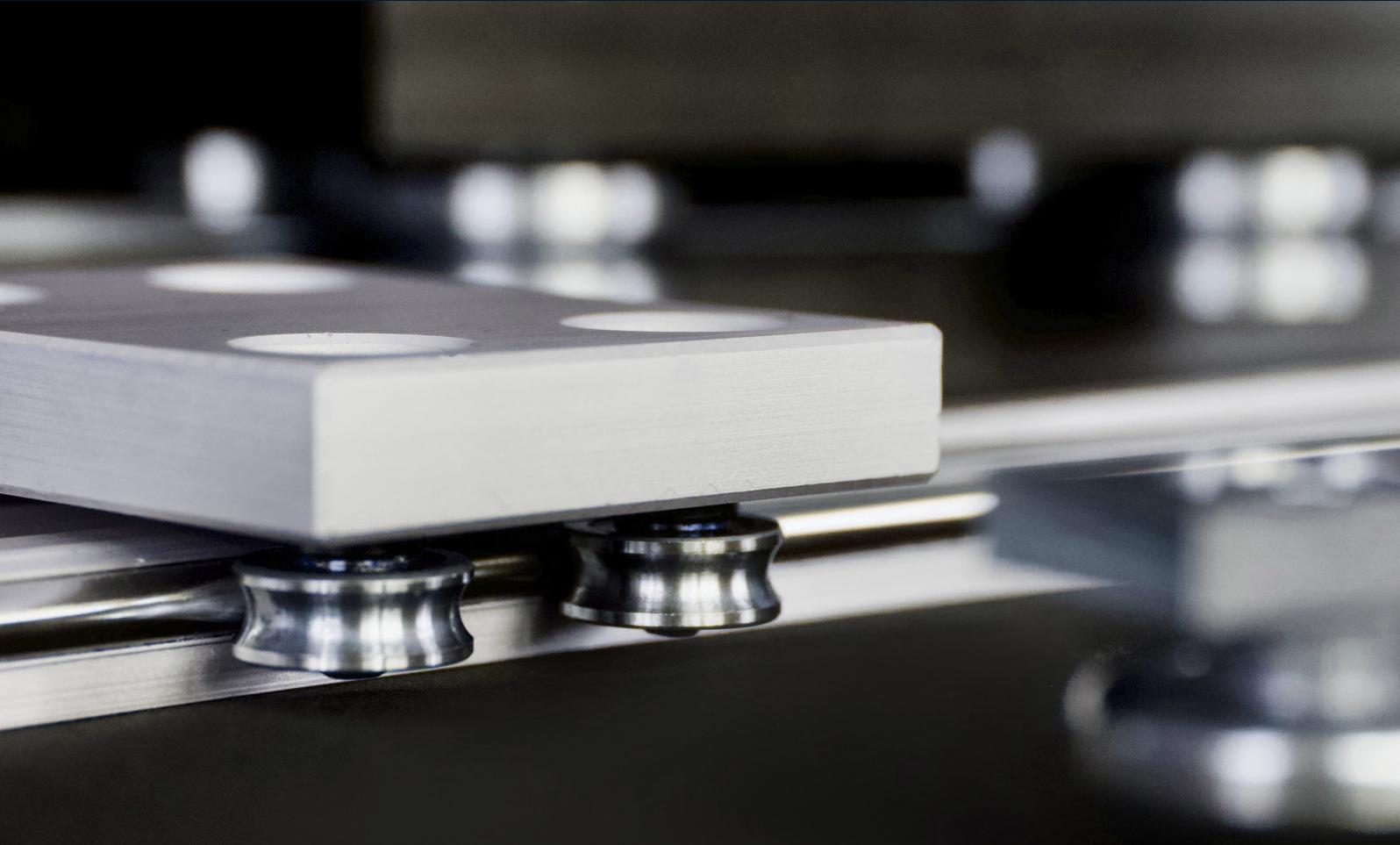




Technische
Antriebselemente
Driven by eMotion

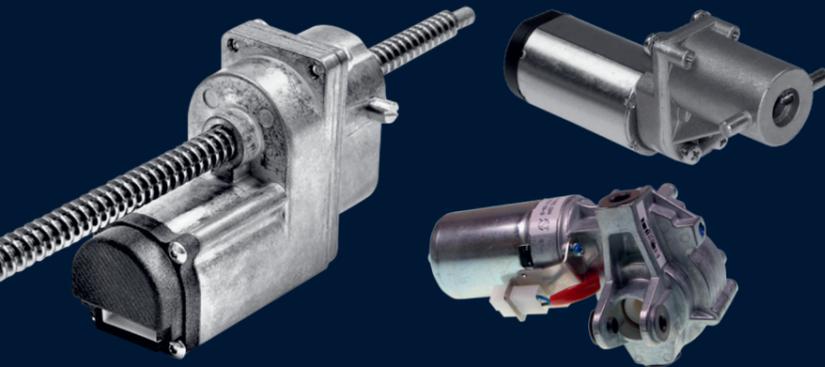


Product overview

LINEAR SYSTEMS ▪ DRIVE TECHNOLOGY

LINEAR ACTUATORS AND SCREW JACKS

ACTUATORS WITH OPEN SCREW



Inexpensive linear actuators, for example for simple feeders, positioning systems or as flap and door drives.

- ⊗ Loads up to 6 kN
- ⊗ Feed rates up to 56 mm/s
- ⊗ Optional encoder

ACTUATORS WITH PUSH ROD

Variable linear actuators for precise positioning, lifting operations or locking even under adverse conditions.

- ⊗ Loads up to 18 kN
- ⊗ Feed rates up to 168 mm/s
- ⊗ Integrated encoders / limit switches
- ⊗ Protection class up to IP67/69K



SCREW JACKS



Screw jacks for controllable motion sequences with millimeter-precise positioning and the movement of heavy loads.

- ⊗ Loads up to 100 kN
- ⊗ Versions with stationary or rotating spindle
- ⊗ Versions for the food industry or seawater suitability possible
- ⊗ Connection to various electric drives or for manual operation

LINEAR GUIDES

ROLLER GUIDES



Linear roller guides in various designs for a wide range of applications:

- ⊗ High loads
- ⊗ High accelerations
- ⊗ High precision
- ⊗ Inexpensive variants

BALL GUIDES



Linear ball bearing guides for fast movements with high precision. Suitable for various applications:

- ⊗ Automation technology, handling systems, packaging systems, assembly machines
- ⊗ Machine tool construction, woodworking
- ⊗ Punching and injection molding machines
- ⊗ Any applications with high torques or forces

SLIDE GUIDES



High-performance slide guides for limitless areas of application:

- ⊗ High loads (up to 264 kN) and torques (Mx up to 10.5 kNm)
- ⊗ High precision, e.g. in medical and laboratory technology
- ⊗ Oil and grease-free operation for clean room applications or in the food industry
- ⊗ High temperatures up to max. +400°C possible

MOTORS

SERVO DRIVES



Modular servomotors with integrated controller for maximum flexibility.

- Power from 50 W to 4,500 W
- 24V DC to 3 x 400V AC
- Plug-in expansion modules for communication via all common fieldbuses

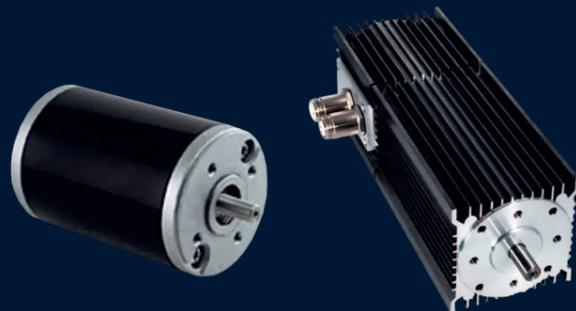
STEPPER MOTORS



Closed-loop stepper motors with integrated electronics.

- Very high torque (up to 25 Nm) even at higher speeds
- Encoder with high resolution of 409,600 cpr for high positioning accuracy
- Protection class up to IP65
- Available for all common bus systems

DC-MOTORS



Brushless and brushed DC motors.

- Power up to 562 W
- Compact design
- Various designs

ASYNCHRONOUS MOTORS

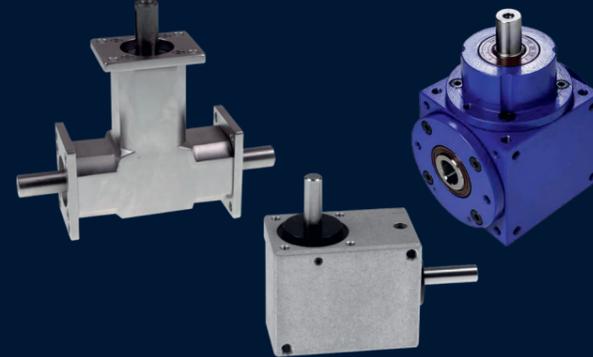


IEC standard motors in various efficiency classes with and without brakes for a wide range of applications:

- Electric pumps and fans
- Machine and special machine construction
- Conveyor and transport belts
- Machine tools

GEAR BOXES, COUPLINGS AND FREE WHEELS

BEVEL GEAR BOXES



Bevel gearboxes from compact to robust.

- Various versions up to 2.7 kNm
- Available with solid or hollow shaft
- Stainless steel version for adverse conditions

WORM GEAR BOXES



Worm gearboxes in various designs for different applications.

- Mechanical engineering
- Handling technology
- Furniture construction
- Intralogistics, etc.

SERVO COUPLINGS



High-precision servo couplings for any connection of driven shafts.

- Torsionally rigid, flexurally flexible shaft couplings
- Backlash-free, angularly synchronous transmission of forces
- High torsional rigidity and minimal restoring forces
- Applications such as in medical technology, industry, wind turbines or robotics

SPECIAL COUPLINGS



Special clutches for highly complex applications.

- Magnetic couplings for contact-free power transmission through housing walls
- Powerful connections between shafts with strong misalignment
- Special solutions for harsh environments

FREE WHEELS



Clamping roller and sprag freewheels for one-sided power transmission for various applications.

- As a backstop (e.g. in conveyor belts)
- As an overrunning clutch (e.g. motor starters)
- As indexing freewheel clutch (e.g. sewing and weaving machines or sorters)

MACHINE COMPONENTS

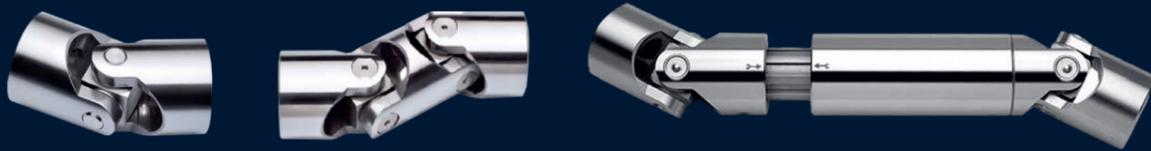
MACHINE ACCESSORIES



Various accessories for machine and plant engineering.

- ⚙ Machine feet in standard or stainless steel design
- ⚙ Rubber-metal buffers in various designs

SHAFTS AND JOINTS



Extendable drive shafts and universal joints for connecting two shafts with high lateral or angular misalignment.

- ⚙ e.g. connection of operating units in inaccessible places
- ⚙ General mechanical engineering
- ⚙ Automation technology
- ⚙ Special machine construction

ABOUT THE COMPANY

Technische Antriebselemente – Member of T.E.A. Worldwide Group

Technische Antriebselemente GmbH was founded in 1964 in Hamburg- Hummelsbüttel and has developed over the years into a specialist for linear and drive technology. Due to market growth and the international orientation the T.E.A. Group, which has further independent locations worldwide was founded.

Thanks to the international partnerships, we are able to act quickly and flexibly worldwide.

Driven by eMotion

We see ourselves as a partner for the solution of your technical challenge. Our claim is to offer the optimal system solution for your project. In addition to our standard products, we develop special solutions based on your technical drawing as well as your application. We support you in the realization of your innovation. Whether drive or linear systems, our product specialists will advise you comprehensively and competently.

Industry solutions

Based on 60 years of experience in drive and linear technology, we supply products to all industries. Our experts have acquired in-depth know-how in order to take into account the requirements in the various sectors of industry. Whether food-grade plastics, explosionproof drives or stainless steel versions of our products, we will be happy to advise you on the optimum product selection for your application.



Your partner for linear systems and drive technology



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