

cyber motor

cyber[®] force motors linear actuators



Your Applications WITTENSTEIN – Products that know no limits



Joining

Electromechanical cylinder with high accuracy for mating and pressing in processes that require careful monitoring of position and force.



Assembly

Used in manual work stations or in automated production lines with the benefits of a very compact size.



Positioning

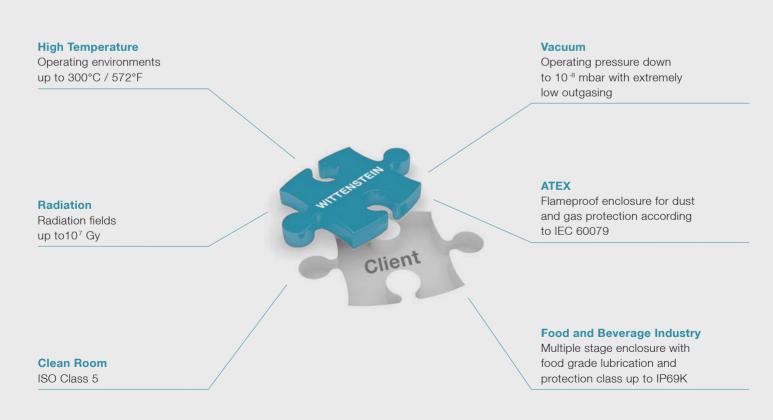
Precise positioning of tools, even in rough environmental conditions.



Adhering and Dispensing

Low maintenance and weight optimized linear actuators with the highest reliability for adhering and dispensing systems.

Quality and Reliability even in rough environmental conditions





Injection Molding

Very compact and energy efficient actuators with a long lifetime for ejector, injector, closing and dispensing axes.



Welding and Riveting

Servo motor controlled welding and riveting tongs allow for shorter cycle times and energy consumption.



Bending and Stamping Variable, force monitored

motion for ambitious bending and stamping tasks.



Deep-Drawing

Tension or compression reshaping of film or sheets via high compact and powerful linear actuators.

Excellent Solutions for complex motion tasks

Compactness

- Fully integrated unit consisting of a motor, ball screw, encoder and brake for minimal space
- Servo motors with high power density and overload capacity

Precision

- Reproducable, monitored processes through precise force, speed and position control

Customization

- Individual calculations and design by our linear motion experts
- Great support during design and development phase
- Support during start up

Reliability

- Only high quality components and materials are used
- Every motor is tested
- (electrical, mechanical and functional)
- Stress tests and customer specific service life tests are available on request

Dynamics

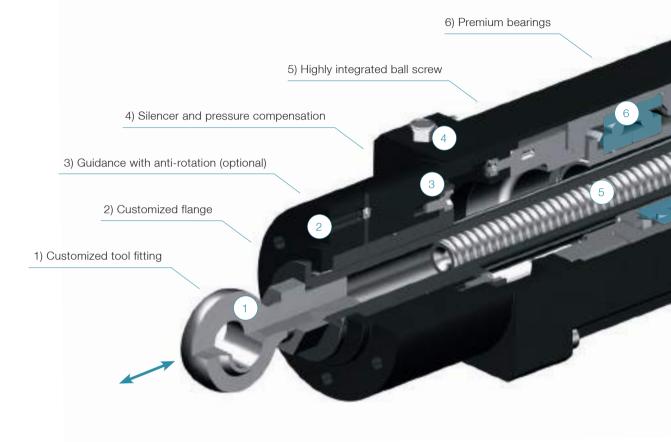
- Reduced cycle times due to very high dynamic performance and careful optimization

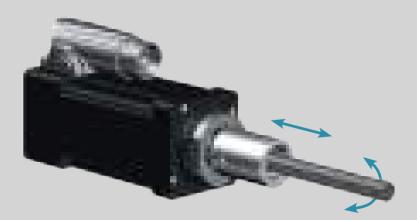
Service

- Development, design and assembly in Germany
- 24h service
- Testing and certification (CE, UL, ATEX,...) from a single source

Highly Compact linear actuators with ...

... integrated screw





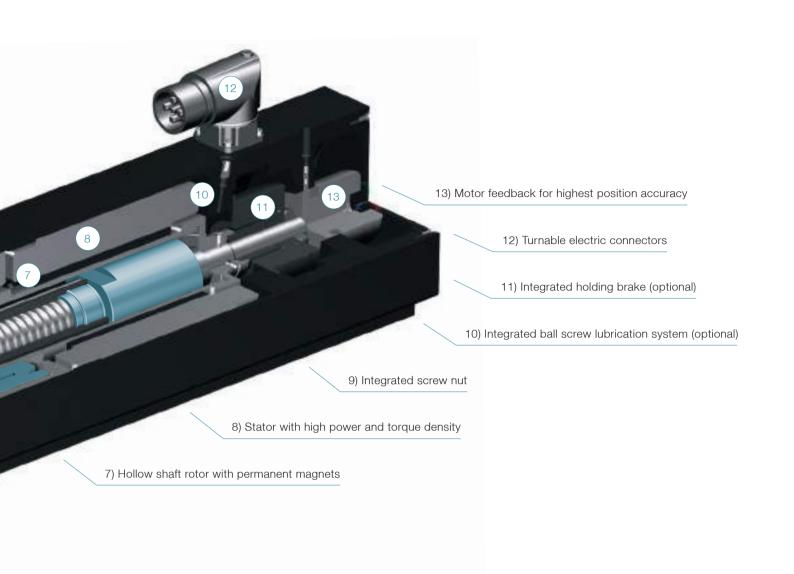
... directly driven screw

Ready-to-mount motor with directly driven ball screw for inexpensive solutions.

The rotor shaft of the high torque servo motor is combined with a ball screw.

Ideal for highly dynamic applications through minimal inertia.

reliable · compact · precise





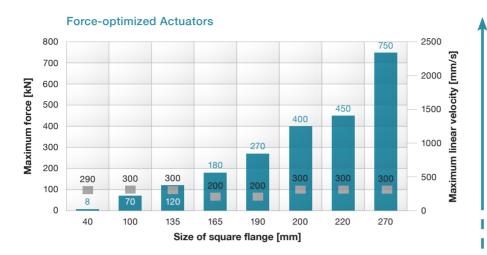
... endless screw

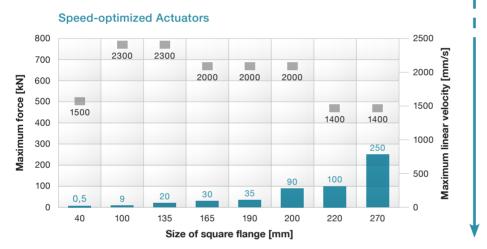
Moving the ball screw through the hollow shaft motor provides an "endless" stroke.

Ideal for highly compact solutions with a long travel range.

reliable · compact · precise

Wide Range of Motors our base for customized solutions





Your Application

Customized design for your duty cycle to find the ideal balance between force and speed.

Options

- All standard feedback systems available
- Integrated holding brake
- Water cooling with filtered or unfiltered water
- Integrated rotation prevention

- Tool Holder
- According to DIN
- Spherical
- · Customized
- Assembly Flange
- Wall mounting
- Flange mounting
- · Spherical mounting

- Customized threaded screw

= Maximum force

= Maximum velocity

Ball screw

- · Planetary roller screw
- · Trapezoid threaded screw
- Patented lubrication system
- \cdot No disassembly needed
- \cdot Service during operation
- \cdot Maintenance free system

Combined Linear Rotary Actuators for independent rotary and linear motion

With one combined piston rod:

High dynamic actuators for long stroke applications

With two mechanically separated piston rods: Compact actuators with high force density for short stroke applications

Typical applications

Injection Molding	Bottle Closer "Capper"	Controlled Welding and Soldering
Plasticizing and injecting of plastic	Screws caps on filled bottles in high speed	Welding and soldering of complex contours with high position accuracy of the welding/ soldering head
Rotation: Drives the plasticizing screw to melt the plastic	Rotation: Torque and position controlled rotation to safely screw the caps on the bottles	Rotation: Turning of the welding/soldering head
Linear Motion: Injecting the plastic into the mould	Linear Motion: Pressing of the preheated caps	Linear Motion: Linear motion of the welding/soldering head

on the bottle threads



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