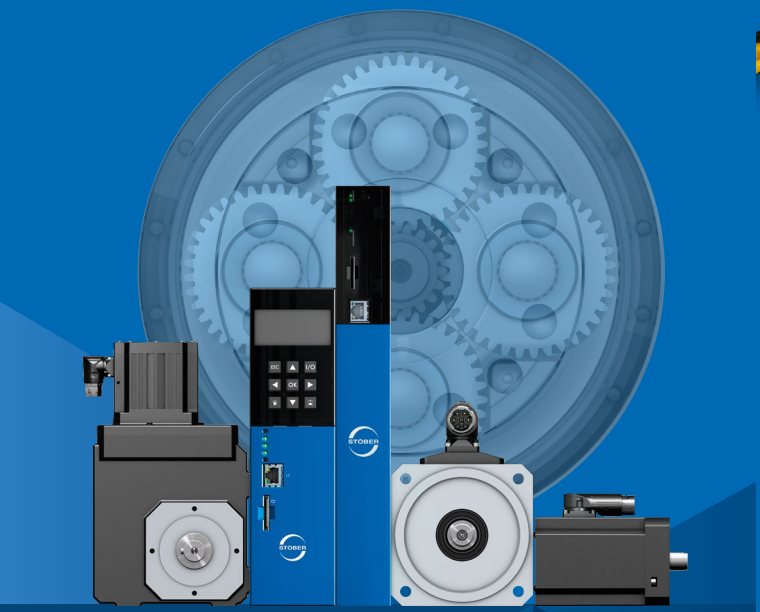


## System Technology for Drive and Automation

**The main components and their possible combinations.**

STÖBER

www.stober.com

# Level up Your Safety!




## SX6 safety module

### The fieldbus-based safety solution for every application.

- FsoE Certified Product.
- Certified stop, limit, monitoring and braking functions.
- SIL 3, PL e, Cat. 4.
- 20 ms reaction time at the highest safety level.
- Free motor and encoder selection.

**Safety technology in cooperation with Pilz GmbH & Co. KG.**

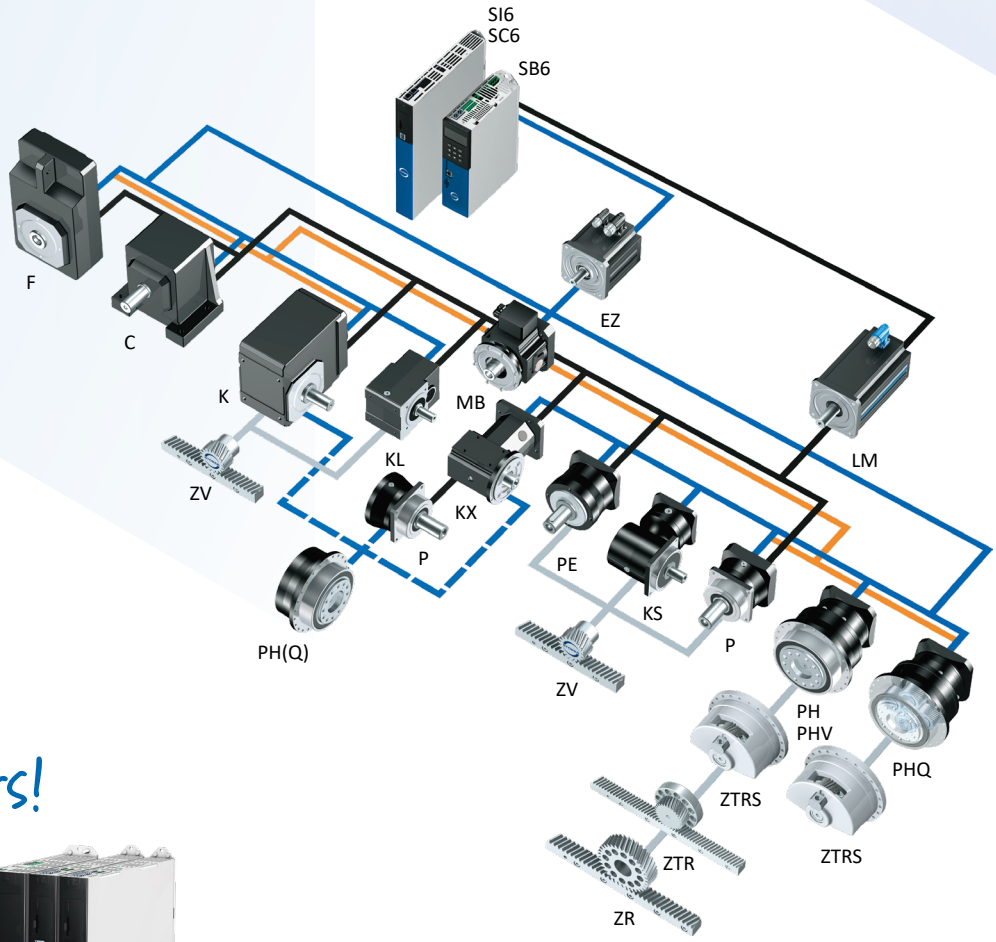
STÖBER

## Everything from a single source.

**The STOBER drive system consisting of gearboxes, motors, cables and drive controllers** has a modular design and is freely scalable – for precise, compact and powerful machine concepts.

**Our experts – for your specific needs**!
Take advantage of our **cross-industry expertise**.
We're glad to provide you support for your specific application!

With our intuitive **product configurator**, you can easily filter, compare, save, and share suitable drive solutions.




## Make it yours!

configurator.stober.com





**„Versatile products, countless possibilities. Your perfect motion is what drives us!"**

– Markus Graf,
Chief Sales Officer, STOBER.

STÖBER

## One partner. All the possibilities.



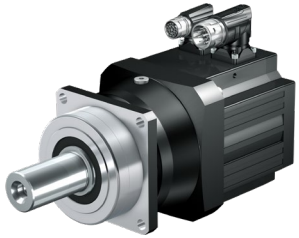
„Together with our customers, we achieve perfect motion in a wide variety of applications with our precisely coordinated system.
Whenever precision, dynamics and quality are required, we are at your side as a reliable partner.“

– **Rainer Wegener,**
**Chief Executive Officer, STOBER.**

## Need special solutions?

Numerous one-of-a-kind product highlights and project-related adjustments make it possible. With a holistic approach to your specific task, we work together on individualized solutions that are optimally coordinated to your requirements. Dedicated and solution-oriented in the support of your visions and projects.

**Contact us: +49 7231 582-3060 | systemsupport@stoeber.de**



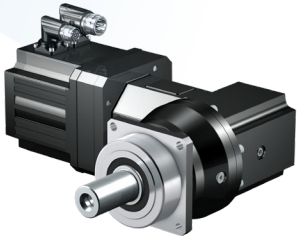
**P Planetary Geared Motor**
Acceleration torque: 10 – 3450 Nm
Backlash: 1 – 8 arcmin
**For high precision and smooth operation.**



**PH, PHQ, PHV Planetary Geared Motors**
Acceleration torque: 24 – 22000 Nm
Backlash: 1 – 4 arcmin
**Quattro power for maximum power density.**



**PHKX, PHK, PHQK Right-Angle Planetary Geared Motors**
Acceleration torque: 26 – 43000 Nm
Backlash: 1 – 6 arcmin
**Quattro power for small installation spaces.**



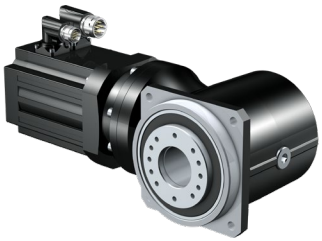
**PKX, PK Right-Angle Planetary Geared Motors**
Acceleration torque: 11 – 3300 Nm
Backlash: 1.5 – 8.5 arcmin
**High precision for small installation spaces.**



**PE Planetary Geared Motor**
Acceleration torque: 5.7 – 250 Nm
Backlash: 8 – 13 arcmin
**The helical economy variant.**

## Low-backlash planetary gearboxes.

For µm-precise positioning and maximum torsional stiffness. The excellent housing and gearing quality ensures high acceleration torques and also the highest running accuracy. All planetary gearboxes and right-angle planetary gearboxes can be combined with motors of the EZ and LM series.



**KS Right-Angle Servo Geared Motor**
Acceleration torque: 9.7 – 400 Nm
Backlash: 3 – 7 arcmin
**Strong. Stable. With highest possible power density.**

## Compact geared motors that are directly attached.

Save costs and benefit from a lower mass inertia, higher dynamics and increased efficiency at the same time.

**Gearboxes**

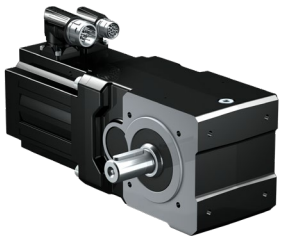
**Geared Motors**

**Motors**

**Cables and Drive Controllers**

## Rack and pinion drives with synchronous servo motors.

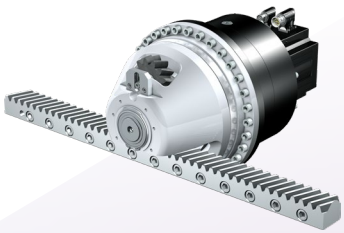
The complete solution from a single source – our newly developed gear racks with twice the bores are perfectly coordinated with STOBER drives.
Benefit from extremely compact, highly dynamic drive solutions.



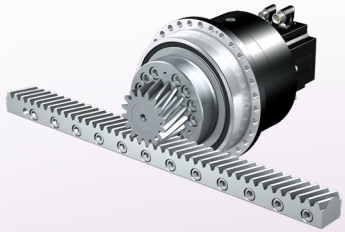
**KL Helical Bevel Geared Motor**
Acceleration torque: 10 – 65 Nm
Backlash: 16 – 25 arcmin
**Elegant. Dynamic.**
**Completely without offset.**



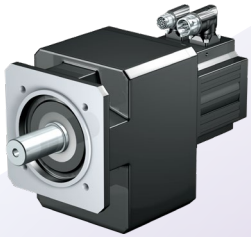
**K Helical Bevel Geared Motor**
Acceleration torque: 23 – 12750 Nm
Backlash: 1.5 – 12 arcmin
**Versatile. Compact. For exceptional backlash stability.**



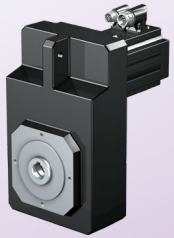
**ZTRSPH, ZTRSPHQ, ZTRSPHV Rack and Pinion Drives with Synchronous Servo Motors**
Module: 3 – 8 mm
Feed force: 5 – 124 kN
Feed velocity: 0.11 – 3.6 m/s
**High force for maximum power density.**



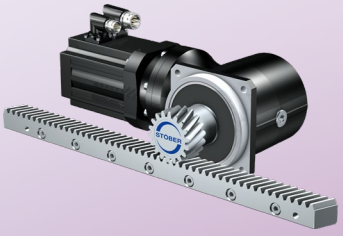
**ZTRPH, ZTRPHV Rack and Pinion Drives with Synchronous Servo Motors**
Module: 2 – 6 mm
Feed force: 1.9 – 67 kN
Feed velocity: 0.11 – 4.3 m/s
**High performance for demanding drive concepts.**



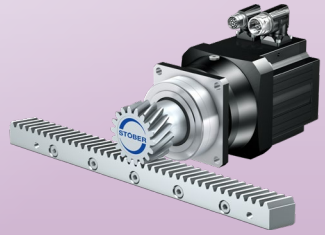
**C Helical Geared Motor**
Acceleration torque: 9.7 – 6500 Nm
Backlash: 10 – 20 arcmin
**The classic with helical gearing.**



**F Offset Helical Geared Motor**
Acceleration torque: 21 – 1100 Nm
Backlash: 5 – 11 arcmin
**High positioning accuracy and backlash stability.**



**ZVKS Rack and Pinion Drive with Synchronous Servo Motor**
Module: 2 – 4 mm
Feed force: 1.3 – 11 kN,
Feed velocity: 0.08 – 6.8 m/s
**Highest possible power density for automation and robotics.**



**ZVP Rack and Pinion Drive with Synchronous Servo Motor**
Module: 2 – 4 mm
Feed force: 0.8 – 11 kN,
Feed velocity: 0.1– 5.3 m/s
**High precision for typical servo applications.**

## High-performance drive controllers.

Tailor-made for any kind of drive task and with multiple certified safety functions – for the reliable protection of operator and machine.



**SB6 Drive Controller**
Flexibility meets functionality - the drive controller for your stand-alone application.
With excellent control performance.
Nominal output current: up to 32 A
**The universal solution for design freedom.**



**SI6 Drive Controller**
Compact drive controller for controller-based multi-axis applications. Connected to a central supply module – no need for additional wiring for each individual axis. Nominal output current: up to 50 A
**The slim one for multi-axis drive systems.**



**SC6 Drive Controller**
Stand-alone drive controller with integrated power supply. Optimized for 2 to 4 axes.
Nominal output current: up to 19 A
**The innovative one for economical application concepts.**



**EZ Synchronous Servo Motor**
Highest volume output. High torque. High dynamics.
Stall torque: 0.44 – 100 Nm
**The extremely compact, highly dynamic powerhouse.**



**EZ synchronous servo motor with OCS**
The EZ motor in combination with the new STOBER hybrid cable. Reliably connects the motor and drive controller up to 100 meters. For maximum transmission quality.
**With future-proof HEIDENHAIN EnDat® 3.**

## Industrial communication? We speak your language.

Rely on both our mechatronics expertise and the openness of our systems.
We offer interfaces for the connection of fieldbuses such as EtherCAT® and PROFINET®. This naturally includes the associated FSoE® and PROFIsafe® safety protocols.

## Bridge the Gap.

The encoderless Lean motor is a compact solution that is lighter, smaller and – with IE5 classification – more energy-efficient than an asynchronous motor while delivering the same power. And it is also cheaper and more rugged than a standard synchronous servo motor.



**LM Lean Motor**
Synchronous drive without encoder with only one standard power cable. Fanless.
Speed deviation: < 1%, η: up to 96%
Positioning accuracy: ± 1°
Stall torque: 2.43– 29.8 Nm
**Compact. Rugged. Strong. The new motor class.**

Safety over EtherCAT®

EtherCAT®

PROFINET

PROFIdrive

PROFIsafe

# At home in the world of demanding motion.

STOBER has developed and produced excellent drive technology since 1934 and is active internationally with around 1,000 employees at 14 locations.

We put ideas in motion with passion and a great deal of dedication. In doing so, we draw on a broad range of various products. Benefit from precise, practical system solutions with uncompromising quality and expert individual consultation.

With STOBER, you gain a partner who helps you achieve your goals:

- Cost-effectiveness and productivity.
- Energy efficiency and sustainability.
- Flexibility in design.
- Reduced manufacturing costs.
- Standard-compliant machine safety.
- Fail-safe operation and consistent machine availability.





**Service Network**

You can rely on our strong partners when it comes to service. They guide you through commissioning, are available on-site in case of faults and offer expert technical advice.

Service Hotline
**+49 7231 582-3000**

Our service hotline is available around the clock. Instructions for immediate actions can often be given by telephone – and if required, we can of course be on site quickly.

**International Service Network**

Thanks to our large and long-standing international network, we offer worldwide service and continuous support. In over 40 countries. Put your trust in our expertise.

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