MORE THAN JUST A GEARBOX Planetary gear units from STOBER



System Technology for Drive and Automation

The most important components and their possible combinations



High-performance. Precise. Perfect fit. Planetary gear units from STOBER.

- The most compact planetary geared motors on the market.
- Superior precision and performance.
- Exceptional variety of combinations and options.
- Extreme ruggedness.

MORE

THAN JUST A GEARBO

• Ready-to-install drive solutions for machine tools and packaging machines as well as applications in automation and robotics.

Make it yours!

Excellent Drive Technology for Automation, Systems and Machines

STOBER offers a wide range of product variants with a focus on the details to allow a perfect configuration for any actuator system. And that means no compromises! Excellent technical solutions without unnecessary costs.

STOBER Controller

MC6 Motion Controller

Scalable computing power in the system. It is possible to execute everything from simple synchronous applications to a multi-axis CNC machine. With CODESYS SoftMotion or CODESYS SoftMotion CNC.

Synchronous Servo Geared Motors



PH, PHQ Planetary Geared Motor
PH acceleration torque: 19 – 7500 Nm
PHQ acceleration torque: 45 – 22000 Nm
PH, PHQ backlash: ≤ 1 – 4 arcmin
The ultimate – quattro - servodrive



P Planetary Geared Motor P acceleration torque: 11 – 3450 Nm P backlash: ≤ 1 – 8 arcmin Precision for high positioning accuracy



PE Planetary Geared Motor Acceleration torque: 11 – 310 Nm Backlash: ≤ 8 – 10 arcmin Standard helical geared motor



C Helical Geared Motor Acceleration torque: 9.7 – 6500 Nm Backlash: ≤ 10 – 20 arcmin Compact helical geared motor



PH(Q)K, PHKX

Right-Angle Planetary Geared MotorPHK acceleration torque: 89 - 7500 NmPHQK acceleration torque: 123 - 43000 NmPHKX acceleration torque: 24 - 2300 NmPHK backlash: $\leq 1.5 - 4.5$ arcminPHQK backlash: $\leq 1.5 - 4$ arcminPHKX backlash: $\leq 1 - 6$ arcminHuge potential with low backlash



KS Right-Angle Servo Geared Motor Acceleration torque: 27 – 400 Nm Backlash: ≤ 4 – 6 arcmin The drive typefor high demands



PK, PKX Right-Angle Planetary Geared Motor

PK acceleration torque: 68 – 3105 Nm PKX acceleration torque: 11 – 2000 Nm PK backlash: ≤ 1.5 – 5 arcmin PKX backlash: ≤ 2 – 8.5 arcmin Large transmission-ratio range



KL Helical Bevel Geared Motor Acceleration torque: 11 – 65 Nm Backlash: ≤ 16 – 25 arcmin Super compact drive solution for small servo drives

STOBER Power Electronics

SD6 Drive Controller

Powerful stand-alone drive controller that can be custom configured. Optimized for drive-based applications in synchronous operation with up to 8 axes. Available as a single-axis controller in four sizes with a nominal output current up to 85 A.



SI6 Drive Controller (Multi-Axis Drive System) Compact drive controller for drive control in a multi-axis drive system. Optimized for controller-based multi-axis applications > 4 axes. Available in four sizes (as single or double-axis controller) with a nominal output current up to 50 A.



F Offset Helical Geared Motor Acceleration torque: 21 – 1,100 Nm Backlash: ≤ 5 – 11 arcmin Servo axis with parallel offset





ZTRPH, ZTRPHV Rack and Pinion Drive Module: 2 – 8 Feed force: 5.8 – 67 kN Feed velocity: up to 4.7 m/s Helical gearing



ZVKS Rack and Pinion Drive Module: 2 – 4 Feed force: 4.2 – 12 kN Feed velocity: 0.07 – 3 m/s Compact, no offset Motors



EZS Synchronous Servo Motor for Screw Drives Direct drive of the threaded spindle motor. Shaft as a blind hole hollow shaft. Axial forces (convection cooling): 760 – 31271 N For high axial forces



K Helical Bevel Geared Motor Acceleration torque: 23 – 13200 Nm Backlash: ≤ 1.5 – 12 arcmin Versatile with flange, solid or hollow shaft



ZTRSPH, ZTRSPHQ, ZTRSPHV Rack and Pinion Drive Module: 2 – 10, Feed force: 16 – 159 kN, Feed velocity: up to 4.7 m/s Highest power density thanks to a supporting bearing holder



ZVP Rack and Pinion Drive Module: 2 – 4 Feed force: 2 – 15 kN, Feed velocity: 0.14 – 5.3 m/s Precision for typical servo applications



EZM Synchronous Servo Motor for Screw Drives Direct drive of the threaded nut. Axial forces (convection cooling): 751–21375 N For spindle rods of any length



POSIDRIVE® FDS 5000 Frequency Inverter The asynchronous servo axis designed for function. Optimized for asynchronous geared motors with practice-oriented functionality. Available in two sizes with a nominal output current up to 16 A and a power range up to 7.5 kW.

Asynchronous Geared Motors



C Helical Geared Motor Motor rating: 0.12 – 45 kW Backlash: ≤ 10 – 20 arcmin Versatile thanks to housing variants



K Helical Bevel Geared Motor Motor rating: 0.12 – 45 kW Backlash: ≤ 10 – 12 arcmin Highly rigid geared motor

SC6 Drive Controller

Compact stand-alone drive controller for sensorless control of STOBER LeanMotors of the LM series. Optimized for drive-based applications with 2 to 4 axes. Available in three sizes (as single or double-axis controller) with a nominal output current up to 19 A.



Servo inverter with high dynamics for fully digital servo axes. Offers an isochronic system bus (IGB) for communication between up to 32 servo inverters. Available in four sizes with a nominal output current up to 85 A and a power range up to 45 kW.

VIES VIES

LM LeanMotor

Electric drive without encoder with just one standard power cable. Fanless. Speed accuracy ± 1 %, η up to 96 %, Positioning accuracy ± 1 °, Stall torque: 2.48 – 29.9 Nm Precise and compact, robust and strong



HIPERFACE DSL One Cable Solution (OCS) High system accuracy with up to 20 bit resolution (single-turn encoder). Electronic nameplate for fast and reliable commissioning. Multi-turn encoder with 12 bit resolution



EZ Synchronous Servo Motor Highest volume output. High torque. High dynamics. Stall torque: 1.0 – 66.1 Nm Extremely compact



EZHD Synchronous Servo Motor with Hollow Shaft Super compact with extremely high power density. Stall torque: 2.6 – 31.1 Nm For high axial forces





14 selection parameters (standard). Motor rating: 0.75 – 45 kW Optional: brake, forced ventilation unit, incremental encoder or multi-turn absolute encoder

Applications and Solutions



Every drive solution has its own unique character.

During the design phase, it is helpful to talk to a drive professional with experience implementing similar projects. Ask for a STOBER expert that is well-versed in your industry or who already has experience with your specific situation.

- Electronic cam disk
- Winding
- Positioning
- Synchronous run
- Conveying and moving
- CNC
- Coordinate transformation
- Flying shear
- Flying saws
- Rotating shear
- Pick and place

The STOBER System

STOBER has its roots in the development and construction of geared motors. For more than 30 years, we have been developing and producing suitable drive controllers for these applications. Connected through plug and play, these STOBER components form reliable drive systems.



STOBER Industrial Automation as a Complete Motion-Control Solution

Melding drive control and drive technology

The STOBER MC6 Motion Controller enables convenient, efficient engineering in the design of drive technology. It results in lean, economical complete solutions.

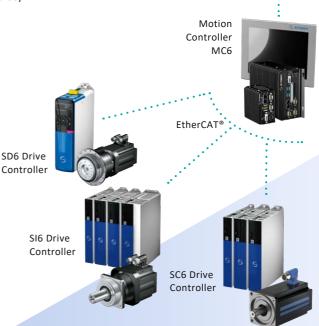
Motion Control makes some things easier and makes many things possible

All control-related drive functions are gathered into a central program sequence (embedded systems). In many cases, this makes programming multiple axes easier.

The STOBER motion controller is practically a necessity when working with complex, interrelated automation functions with high positioning accuracy.

Field bus ••••

PLC



You Can Trust in STOBER



Productive teamwork Grounded innovative power Dynamics

Reliability

Dedication Technical qualification Friendly, clear communication

STOBER in motion

STOBER has been building excellent drive technology for over 80 years. As a medium-sized, owner-operated company, STOBER understands the needs of its customers. Our customers can find certified experts in every area, whether in research and development, production, technical consultation or design support. We revel in innovation while bearing radition in mind. We continue to push ourselves forward and to refine our products further. We do this by implementing suggestions from real-world use, giving due consideration to customer requests and constantly seeking out even better solutions. This is all made possible by the competitive spirit with which we face every exciting challenge.

www.stober.com

STOBER Service

The STOBER service network includes 38 trusted partners in Germany. They guide you through commissioning, available on-site in case of faults and offer expert technical advice.

Service Hotline +49 7231 582-3000

The STOBER service specialists can be reached around the clock and if needed, they can be on-site quickly. Thanks to their experience, they are often able to guide your employees through suitable immediate measures over the phone. What's more, STOBER drive controllers allow for maintenance via remote access.

STOBER Service Network

The STOBER INTERNATIONAL SERVICE NETWORK offers worldwide support and service.

It includes over 80 top-performing service partners in 39 countries.



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