

STEINLEN Manufacturing program

- Geared motor series MOTOX / MOTOX[®]-N

MOTOX geared motors are characterized by the large number of possible combinations, which means they can be adapted to many drive situations. All geared motors can be delivered with a built-in brake. In addition, all common attachments and variants are possible. Individual solutions for the diverse tasks of drive technology are achieved with the various types of gear units (helical, flat, bevel helical, helical worms).

The selection ranges from robust geared motors in compact, single-stage versions, suitable for high temperatures, in ATEX, underwater or submersible versions (spur geared motors) and the option of design-to-order (DTO) production according to customer requirements.

The following SIEMENS geared motors of the MOTOX-N series are available in the Steinlen production program:



- **MOTOX Helical Geared Motors D/Z/E**
(also available as an agitator / cooling tower version)

The Conventional Solution for Your Drive Application

- **Typical Applications**
Helical geared motors are, for instance, used in roller conveyors, agitators, roller table drives, woodworking machines, Cooling tower fans...
- Helical geared motors are the conventional solution for your drive application. Helical gear units are coaxial units where the gear unit output shaft is in-line with the motor shaft. A solid shaft is always used as output shaft. Additional components – e.g. gear wheels or chain wheels – to transfer the force to the driven load are therefore required. Solutions utilizing helical geared motors are capable of an extreme variable speed range.
- In many cases, helical geared motors represent the most cost-effective solution for your drive task.



- MOTOX helical geared motors are available for the power range up to 200 kW and rated gear unit torques up to 20,000 Nm.
- These geared motors are available in the following versions:
 - Foot and flange-mounting versions
 - Solid shaft

- **MOTOX Parallel Shaft Geared Motors FD/FZ (also as mixer and extruder version)**

- **Typical Applications**

Parallel shaft geared motors are, for instance, used in agitators.

- Parallel shaft geared motors are the modern version of coaxial geared motors. As a result of their compact and short design, they take up less space than helical geared motors.
- Parallel shaft geared motors can either have a solid shaft - or alternatively a hollow shaft as so-called plug-on gear unit. This means that the geared motor is optimally integrated into the driven machine. Additional components - e.g. such as gear wheels or chain wheels - to transmit the force to the driven machine are eliminated.
- Parallel shaft geared motors represent the space and weight-saving solution within the range of coaxial geared motors.



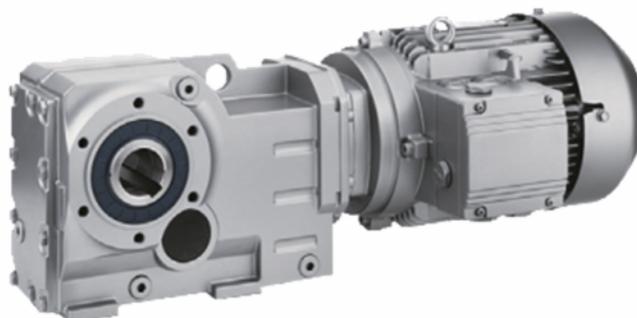
- MOTOX parallel shaft geared motors can be supplied for the power range up to 200 kW and rated gear unit torques up to 30.000 Nm.
- Geared motors are available in the following versions:
 - Foot or flange-mounting versions
 - Version with torque bracket
 - Solid or hollow shaft
 - Hollow shaft with key connection, shrunk-on disk, splines

- **MOTOX Helical Bevel Geared Motors K/B**
(also as mixer and extruder version)

The Angular Geared Motor with a High Power Density

- **Typical Applications**

Helical bevel geared motors are, for example, used as travel drives, mixer drives and cable drum drives.



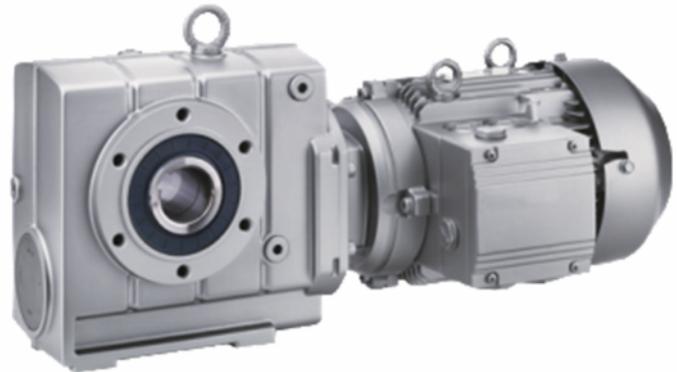
- Helical bevel geared motors are angular geared motors where the gear unit output shaft is rotated through 90° to the motor shaft. Helical bevel geared units can either have a solid or a hollow shaft.
- Helical bevel geared motors represent the ideal solution for drive tasks where an angular geared motor with high power density is required with continuously high output torques.
- MOTOX helical bevel geared motors are available in the power range up to 200 kW and rated gear unit torques up to 20,000 Nm.
- The geared motors are available in the following versions:
 - Foot or flange-mounting versions
 - Version with torque bracket
 - Solid or hollow shaft
 - Hollow shaft with key connection, shrunk-on disk, splines

- **MOTOX Helical Worm Geared Motors C**

The Cost-effective Angular Geared Motor

- **Typical Applications**

Helical worm geared motors are, for example, used in wastewater systems and in theaters.



- Helical worm geared motors are the favorably-priced solution for drives with angular geared motors. The efficiency is significantly better than that of pure worm geared motors due to the implementation as helical-worm geared motors. Due to the worm gear stage, high ratios can be implemented within small envelope dimensions.
- Further, helical worm geared motors represent an extremely quiet drive solution. Helical worm geared motors represent the most cost-effective solution for angular geared motors in the lower torque range.

- MOTOX helical worm geared motors are available in the power range up to 11 kW and rated gear unit torques up to 1,590 Nm.
- The geared motors are available in the following versions:
 - Foot or flange-mounting versions
 - Version with torque bracket
 - Solid or hollow shaft
 - Hollow shaft with key connection, shrunk-on disk, splines