

## S-Series Helical-Worm Gearmotors

SEW-Eurodrive's S-Series right angle gearmotors offer helical-worm gearing that combines durability with exceptional performance in a compact design. Its helical input stage provides greater efficiency than a single stage worm unit. An additional helical gear unit added to the input enables very large ratios.

### Product Range

- Power ratings from 0.05 to 46 HP
- Ratios from 3.97 to 33,818
- Output torques to 35,400 lb-in

### Reducer

- Efficiency up to 94%, depending on ratio
- Worm shaft and helical gears manufactured from certified steel, heat treated to a case hardness of 58-62 Rockwell C for infinite fatigue strength
- Gears are milled, hardened and ground to assure minimum noise, minimum heat, and maximum efficiency
- Torque rating based upon mechanical capacity under continuous duty operation
- Gearcases made of high strength gray cast iron, SAE Class 30 or equivalent (GG20)
- Anti-friction bearings for optimum load capacity and long life
- Captured keys on input and output shafts
- O-ring on flange to prevent oil leakage when mounted on a surface that is not totally flat
- High cross-section modulus design, rugged monobloc design for maximum rigidity
- Center tapped holes on output shafts to aid the installation of shaft components
- Exclusive interlocking 2-piece seal design consisting of a patented bi-helix FKM inner seal and a double-lip Nitrile (Buna N) outer seal – provides three sealing surfaces against contaminants
- Metric or Inch dimension output shaft
- Removable inspection cover
- Shock capacity meets or exceeds AGMA 6009-A00



### Motor

- Inverter duty
- Connection terminals
- Low rotor inertia for high cycling and tight control
- EISA (IE3) "Premium" available
- 50Hz, 60Hz, or 50/60Hz global motor
- **CE** for shipment into Europe

### Mounting

- Torque arm for shaft mounting
- B14 or B5 flange with centering tenon
- Foot mounting
- Can be ordered for any mounting orientation

### Optional Features

- C-Face or IEC motor adapter
- TorqLOC® taper hollow shaft
- Corrosion and/or long term storage protection
- FKM seals instead of NBR
- High cycling fail-safe brake
- Forced cooling fan for low frequency operation
- Thermostat or thermistor protection
- Plug connectors for quick motor replacement
- Two-speed motor
- Motor encoder - built-in or externally mounted
- CSA hazardous location and ATEX rated motors
- Servo Motor



## U.S. Operations:

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## About SEW-Eurodrive

Our product is motion. Our focus is solutions. As a worldwide supplier of innovative gearing, motor, and electronic drive technology, we have been solving problems in large and small applications within virtually every industry for over 80 years.

We also specialize in reducing the total cost of ownership with our customer-specific energy saving solutions.

Globally, we have assembly centers in 44 countries, along with 15 production plants. Therefore, we are able to provide uniform quality standards and international application experience.

Locally, we provide final assembly and custom modifications plus assistance with project planning, startup, and training. All products are backed by our industry-leading 24/7 support program.

## SEW-Eurodrive ... Driving the World

