

K19 - K49 Helical-Hypoid Gearmotors

The K19, K29, K39 and K49 compact helical-hypoid gearmotors from SEW-EURODRIVE contain high torque density, high speed, and high efficiency in a right-angle configuration. Their unique 2-stage design combines one stage of helical gearing with one stage of hypoid gearing. The result is a combination of rolling friction and sliding friction that yields minimal loss with an overall efficiency from 90% to 96%, depending on the ratio.

You can now achieve high speed in a right-angle design without having to use an inefficient worm gear unit that wastes energy.

Product Range

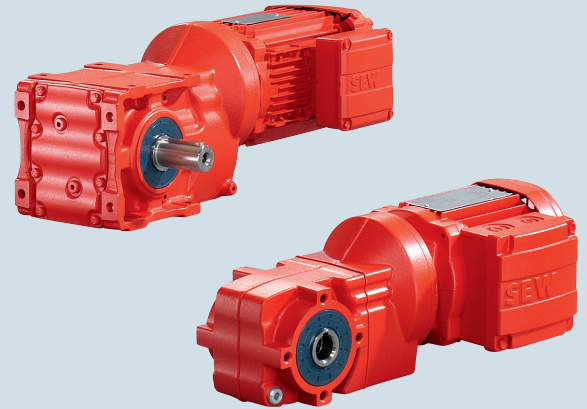
- Power ratings from 0.16 to 10 HP
- Ratios from 2.81 to 75.20
- Output torques to 4430 lb-in

Reducer

- Efficiency = 90-96%, depending on ratio
- Feet available on three sides for maximum mounting flexibility
- Gears manufactured from certified steel, heat treated to a case hardness of 58-62 Rockwell C for infinite fatigue strength
- Finished ground or shaved gear teeth to assure minimum noise, minimum heat, and maximum mechanical efficiency
- Anti-friction bearings for optimum load capacity and long life
- Standard oil = synthetic (polyglycol)
- Captured keys on input and output shafts
- Single-piece die-cast aluminum housing (K..19/K..29)
- Single-piece gray cast iron housing (K..39/K..49)
- Center tapped holes on output shafts to aid the installation of shaft components
- Shock capacity meets or exceeds AGMA 6009-A00

Mounting

- Foot mounted - with hollow shaft or solid shaft
- Footless - with hollow shaft and torque arm
- B5 flange and centering tenon - with solid or hollow shaft



Motor

- Inverter duty
- Connection terminals (not pigtail)
- Lower rotor inertia (than typical NEMA equivalent) to provide high cycling and tight control
- 50Hz, 60Hz, or 50/60Hz global motor
- **CE** for shipment into Europe

Optional Features

- Metric or inch output shaft diameter
- C-Face or IEC motor adapter
- Torque arm for footless units
- TorqLOC® keyless hollow shaft (KT39/KT49)
- Food grade oil
- FKM seal instead of NBR on motor and gear unit
- 3-lip seal instead of 2-lip (K19, K29)
- Two-piece interlocking seal design (3-lips on K39, K49)
- OS2, OS4 external protection
- Encapsulated stator for extreme washdown
- High cycling, electrically-released brake
- Forced cooling fan for low frequency operation
- Thermostat or thermistor protection
- Plug connectors for quick motor replacement
- Motor encoder - built-in or externally mounted
- HazLoc-NA® for hazardous environment

U.S. Operations:

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Nomenclature / Options

| | |
|-------------------------------------|--|
| K | Foot mounted |
| KF | Footless + B5 flange |
| KA | Footless + hollow shaft |
| KA..B | Foot mounted + hollow shaft |
| KAF | Footless + hollow shaft + B5 flange |
| KT | Footless + TorqLOC® keyless hollow shaft (K39/49) |
| KTF | TorqLOC® keyless hollow shaft + B5 flange (K39/49) |
| KH | Footless + shrink disc (K19/29) |
| KHF | Footless + shrink disc + B5 flange |
| /T | Torque arm for footless unit |
| DR2S, DRS.. | IE1 (0.16 - 0.75 HP) |
| DRN.. | IE3 (0.16 - 10 HP) |
| /AC../AS../AM../AD../AB../IS | Motor plug Connectors |
| /AK8Y | Sin/cos + SSI absolute encoder |
| /AK8W | Sin/cos + RS485 absolute encoder |
| /AL | Aluminum fan (cold environment) |
| /BE | Electrically-released brake |
| /C | Canopy on fan guard |
| /DH | Condensation drain hole |
| /EI7_ | Built-in encoder (low resolution) |
| /EI8_ | Built-in encoder (high resolution) |
| /EK8C | Mounted HTL incremental encoder |
| /EK8R | Mounted TTL (RS422) encoder |
| /EK8S | Mounted sin/cos (RS485) encoder |
| HF | Brake screw release |
| HR | Brake hand release |
| /LN | Low noise fan guard |
| /MM..D | MOVIMOT® inverter |
| /OL | Non-ventilated (w/o shaft, w/seal) |
| /RS | Backstop on motor |
| /TF | Thermistor (PTC) thermal protection |
| /TH | Thermostat thermal protection |
| /V | Separately wired cooling fan |
| /Z | High inertia flywheel fan (cast iron) |
| /2W | Extended shaft @ end of motor |

OS Surface Protection

| | | |
|------------|---|--|
| OSG | Dip Primer Acrylic Primer | Not a finish coat. User should apply additional coating |
| STD | Dip Primer Acrylic Top Coat | Indoors - clean atmosphere, heated buildings Ex: automobile industry, shops, airports |
| OS2 | Dip Primer Acrylic Primer Acrylic Top Coat+UV | Outdoors - low pollution, rain Indoors - unheated with humidity, condensation, splashing water Ex: water treatment facility, amusement parks |
| OS4 | Dip Primer Epoxy Primer Polyurethane Top Coat Polyurethane Clear Coat+UV | Outdoors - high pollution or salinity Indoors - pressure spray, chemical wash, brine Ex: breweries, food processing, chemical plants, dairies, outdoor coastal areas |

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 since 1931.

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

Globally, we have over 79 Drive Technology Centers and 15 manufacturing 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 and a 2-year warranty from date of delivery.

SEW-EURODRIVE ... Driving the World