

PRODUCT FOCUS



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.

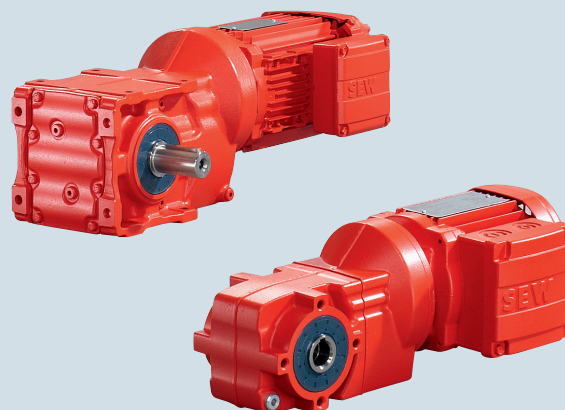
You can now achieve high speed in a right-angle design without having to use an inefficient worm gear unit that wastes energy.

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
- Synthetic oil = standard (Klubersynth GH 6-460)
- 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
- 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 shafts
- Shock capacity meets or exceeds AGMA 6009-A00



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

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

Optional Features

- C-Face or IEC motor adapter
- Torque arm for footless units
- TorqLOC® keyless hollow shaft (KT39/KT49)
- Food grade oil
- FKM outer seal instead of NBR
- OS2, OS4 external protection
- Encapsulated stator for severe 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

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U.S. Operations:

Midwest Region

SEW-Eurodrive, Inc.
2001 West Main Street
Troy, OH 45373
Telephone: (937) 335-0036
Fax: (937) 332-0038
cstroy@seweurodrive.com

Northeast Region

SEW-Eurodrive, Inc.
2107 High Hill Road
Bridgeport, NJ 08014
Telephone: (856) 467-2277
Fax: (856) 845-3179
csbridgeport@seweurodrive.com

Southeast Region

SEW-Eurodrive, Inc.
1295 Old Spartanburg Hwy.
Lyman, SC 29365
Telephone: (864) 439-7537
Fax: (864) 439-7830
cslyman@seweurodrive.com

Southwest Region

SEW-Eurodrive, Inc.
3950 Platinum Way
Dallas, TX 75237
Telephone: (214) 330-4824
Fax: (214) 330-4724
csdallas@seweurodrive.com

Western Region

SEW-Eurodrive, Inc.
30599 San Antonio Street
Hayward, CA 94544
Telephone: (510) 487-3560
Fax: (510) 487-6433
cshayward@seweurodrive.com

www.seweurodrive.com

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)
KH	Footless + shrink disc (K19/29)
KHF	Footless + shrink disc + B5 flange
/T	Torque arm for footless unit
DRS..	IE1 (<1 HP) size 71
DRN..	IE3 (≥1 HP) sizes 80 - 315
/AC../AS../AM../AD../AB../IS	Motor plug Connectors
/A_7Y or /A_7W	SSI or RS-485 absolute encoder
/AL	Aluminum fan (cold environment)
/BE	Electrically-released brake
/C	Canopy on fan guard
/DH	Condensation drain hole
/EI7_	Built-in encoder
/E_7C	Mounted HTL encoder
/E_7R	Mounted TTL (RS-422) encoder
/E_7S	Mounted sin/cos encoder
HF	Brake screw release
HR	Brake hand release
/LF	Air filter
/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
/U	Non-ventilated (with shaft, w/o fan)
/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 for over 85 years.

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

Globally, we have assembly centers in 48 countries, along with 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.

SEW-Eurodrive ... Driving the World