

## F-Series (the Snuggler®) Parallel Helical Gearmotors

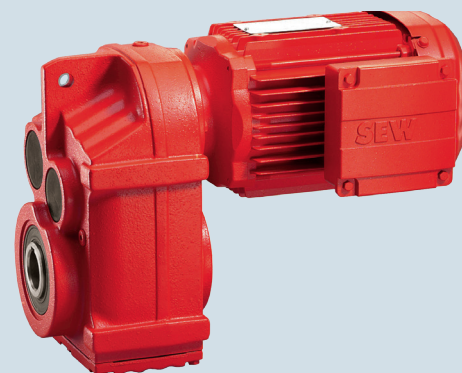
SEW-EURODRIVE's F-Series parallel helical gearmotor is the ideal drive for tight spaces. This compact drive, with its multiple mounting configurations and shaft designs, is a rugged alternative to right-angle gearmotors.

### Product Range

- Power ratings from 0.05 to 336 HP
- Ratios from 3.77 to 29,211
- Output torques to 159,300 lb-in

### Reducer

- Efficiency = 97% (2-stage) or 95.5% (3-stage)
- 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 (approximately 1.5% loss/stage)
- Anti-friction bearings for optimum load capacity and long life
- Captured keys on input and output shafts
- F37-F157 gear housing contains high strength cast iron, SAE Class 30 or equivalent (GG20)
- F27 housing contains high strength pressure-cast aluminum
- O-ring between flange and housing to prevent oil leakage when flange is mounted on a surface that is not totally flat
- High cross-section modulus design, rugged monobloc design for maximum rigidity
- Center tapped holes on solid output shaft 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
- Removable inspection cover
- Shock capacity meets or exceeds AGMA 6009-A00



### Motor

- Inverter duty
- Connection terminals
- Lower rotor inertia than NEMA motors for higher cycling and tighter control
- 50Hz, 60Hz, or 50/60Hz global motor

### Mounting Options

- Built-in torque arm for shaft mounting (std)
- B14 or B5 flange with centering tenon
- Tapped rail holes for foot mounting

### Optional Features

- C-Face or IEC motor adapter (up to 20 HP)
- TorqLOC® keyless hollow shaft with tapered bushing
- Heavy-duty taper roller bearings (FA57-FA127)
- FKM seals instead of NBR
- Corrosion and/or long term storage protection
- High cycling brake that engages during power failure
- 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
- HazLoc-NA® – for hazardous locations

# PRODUCT FOCUS



## U.S. Operations:

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## Nomenclature / Options

F	Tapped mounting holes
FF	Tapped mounting holes + B5 flange
FA	Hollow shaft with key
FA..B	Hollow shaft w/key + tapped holes
FAF	Hollow shaft w/key + B5 flange
FT	TorqLOC® keyless hollow shaft
FH	Shrink disc keyless hollow shaft
FHF	Shrink disc + B5 flange
FTF	TorqLOC® + B5 flange
/G	Rubber buffer for built-in torque arm
DRS..	IE1 (<1 HP) size 71
DRN.. /EDRN..	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

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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 85 years.

We also specialize in reducing the total cost of ownership with our customer-specific energy-saving solutions and our Complete Drive Maintenance programs.

Globally, we have 79 Drive Technology Centers and 14 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**