

PRODUCT FOCUS

SEW EURODRIVE

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



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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