M. HANIF & SONS

Industrial gearboxes, gearmotors and vacuum pumps

TECHNICAL DATASHEET

Ref: MHS-RF-FLANGE-MO

HELICAL, BEVEL & WORM GEARMOTORS IN PAKISTAN

SEW Type RF Series Flange-Mounted Helical Gearmotor

High-efficiency (>95%) inline B5 flange-mounted helical geared motor built to SEW-Eurodrive RF footprint for vertical mixers, chemical reactors, and agitators.

LAYOUT	MOUNTING	EFFICIENCY
Inline coaxial	**B5 Flange mount**	**>95% (50 Hz VFD ready)**

TECHNICAL SPECIFICATIONS

Series	**RF (B5 flange mount inline helical; R foot-mount available)**
Power & speed range	**0.37 kW to 45 kW (50 Hz 3-phase / VFD compatible)**
Layout & Output	**Inline coaxial with heavy-duty solid output shaft**
Gear material	**Carburized & precision-ground alloy helical gears (58–62 HRC)**
Housing	**High-strength cast iron**
Mechanical efficiency	**Above 95% (2-stage ~96%, 3-stage ~94%)**

* Matched to SEW RF37–RF147 / Bonfiglioli / Flender flange dimensions upon enquiry.

KEY DESIGN HIGHLIGHTS

- Direct B5 flange mounting for mixer & tank alignment
- Mechanical efficiency above 95% (2-stage or 3-stage helical)
- Dimensional footprint compatible with SEW-Eurodrive RF series
- Supports 3-phase 50 Hz 380V/415V & VFD speed control
- Reinforced bearings (RM option available for heavy agitator loads)

TYPICAL INDUSTRIAL APPLICATIONS

- Chemical & pharmaceutical reactor agitators
- Food, dairy & beverage tank mixers and blenders
- Water treatment flocculators, thickeners & dosing drives
- Sugar mill mud mixers & inline screw conveyor drives

ENGINEERING OVERVIEW

The SEW-type RF series flange-mounted inline helical gearmotor delivers over 95% mechanical efficiency and low operating noise for vertical and horizontal face-mounted drives. Direct flange mounting eliminates base-frame misalignment on chemical reactors, pharma mixing tanks, sugar crystallizers, and water treatment clarifiers.

Engineered with hardened precision helical gears (58–62 HRC) inside a rigid cast-iron housing and coupled to 50 Hz 3-phase 380V/415V electric motors (VFD inverter compatible), RF units provide drop-in dimensional compatibility for SEW RF37 through RF147 and European flange drives across Pakistan.