

Agitator/Mixer Drives

An agitator - or mixing drive - rotates an impeller and connected shaft in material of varying viscosities at varying speeds. Due to the design of the impeller and how it is mounted and fixed, the forces generated can require extra support of the output. Additionally, because of the proximity and location of the gear unit to the tank, care must be taken to avoid contamination of the product.

These units are available in three tried and tested standard gear unit designs. An optional drywell prevents contamination from oil leakage.

Benefits/Advantages

- High permitted overhung loads
- No additional bearing required for the agitator shaft
- Standard dimensions
- Utilizes standard series gearing
 - RM - Inline with solid shaft
 - FM - Parallel with solid shaft
 - FAM - Parallel with hollow shaft
 - KM - Right angle with solid shaft
 - KAM - Right angle with hollow shaft
- Multiple motor/gear unit options for custom applications
- Global parts and service

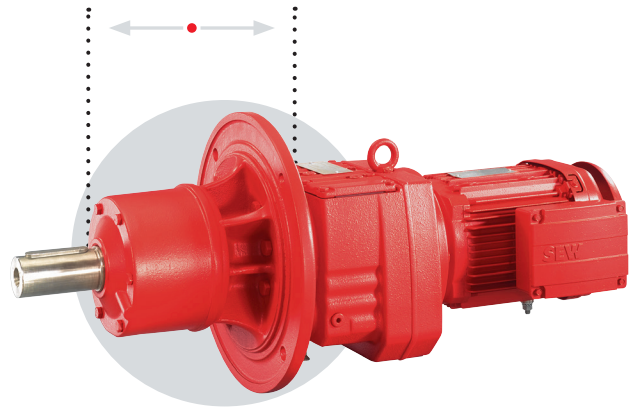
Options for Agitator/Mixer Applications

- Double oil seal on the output side for additional protection against leaks
- Grease nipple for further greasing of output shaft bearings
- Motor power range of 0.25HP through 275HP
- Optional motor adapter for mounting NEMA and IEC motors

Also available on F and K Series

- Reinforced bearings increase permitted overhung load for high output speeds and low gear ratios
- Drywell design with leak sensor prevents contamination

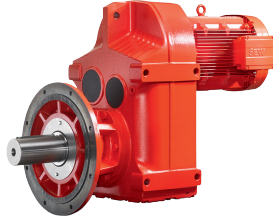
Extended bearing hub for reduced axial load



SEW-EURODRIVE's integral gearmotors designed for agitator/mixer applications are equipped with an extended bearing hub specifically optimized to reduce axial load stress.



Application shown using X series drive



FM../FAM.. Series
Parallel helical gear unit
(solid or hollow shaft)



KM../KAM.. Series
Right-angle helical-bevel gear unit
(solid or hollow shaft)



RM.. Series
inline helical-bevel gear unit
(solid shaft)

Product Overview

Gear Unit	RM.. series helical gear units (two- and three-stage)	FM../FAM.. series parallel-shaft helical gear units (two- and three-stage)	KM../KAM.. series helical-bevel gear units, (three-stage)
		8 sizes	7 sizes
	57 / 67 / 77 / 87 / 97 / 107 / 127 / 137	67 / 77 / 87 / 97 / 107 / 127 / 157	67 / 77 / 87 / 97 / 107 / 127 / 157
Gear unit ratio (i)	4.29 - 289.74	3.87 - 281.71	5.20 - 197.37
Max. output torque (lb-in)	3,980 - 70,800	7,250 - 159,300	7,250 - 159,300

Shaft Dimensions

Size	Solid shaft	Hollow Shaft
	All dimensions in millimeters [mm]	
RM 57	35 x 70	-
FM / KM / RM 67	45 x 90	40 (K/F)
FM / KM / RM 77	55 x 110	50 (K/F)
FM / KM / RM 87	65 x 130	60 (K/F)
FM / KM / RM 97	75 x 140	70 (K/F)
FM / KM / RM 107	90 x 170	90 (K/F)
FM / KM / RM 127	110 x 210	100 (K/F)
RM 137	100 x 210	-
FM / KM 157	140 x 250 / 120 x 210	120

U.S. Operations:

Midwest Region

2001 West Main Street
Troy, OH 45373
Telephone: (937) 335-0036
cstroy@seweurodrive.com

Northeast Region

2107 High Hill Road
Bridgeport, NJ 08014
Telephone: (856) 467-2277
csbridgeport@seweurodrive.com

Southeast Region

220 Finch Road
Wellford, SC 29385
Telephone: (864) 439-7537
cslyman@seweurodrive.com

Southwest Region

202 W. Daniieldale Rd.
Desoto, TX 75115
Telephone: (214) 330-4824
csdallas@seweurodrive.com

Western Region

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