

Your application: Drives for mixers and agitators

Our solution: E4 Agitator Drives



- Special product line for mixer and agitator applications. (Performance range up to 25,000 Nm (greater torques on request).)
- Scalable functionalities and versions thanks to mixer & agitator modular systems.

Drive requirements

- High system reliability coupled with freedom from leakages
- Long service life – in spite of high load peaks due to the influence of the agitating medium
- Absorption of process-related high axial and radial forces by the gearbox
- Scalable service life, e.g. bearing service life 25,000 hrs or 50,000 hrs
- Optimised ratio of size to performance (power density), no leap up in size (overdimensioning) from load influences and environmental conditions
- Accessibility and ease of use for servicing and maintenance intervals
- “Appropriate” ratios for catering to the required speed and torque ranges
- Catering to the application spectrum (ATEX, standard, stainless steel shafts, special flange, etc.) with one product range

Features product line Mixers & Agitators E4-Agitator Drives

- Rugged housing design (high rigidity thanks to reinforcing ribs and large wall thicknesses)
- High gear teeth quality (carburized shaved gearings)
- Bearing dimensions matched to service loading combination
- Various flange types – adapted to the active forces (up to 380% higher force absorption within a size)
- Reinforced bearing versions – long-life sealing system and relubrication fixtures
- Drywell version with integral oil circuit
- Broad range of options (oil sensor, special shafts/flanges/paint-work, breathers, oil level indicators, built-in cooling systems, etc.)
- All the motor options available for IEC motor and integral versions (e.g. ATEX, brake, protective hoods, etc.)

Premium Stephan E4 solution: Product line Mixers & Agitators E4-Agitator Drives

- Adaptable performance features for helical, helical-bevel and parallel shaft gear drive designs
- Broad range of options for the best fit in the application, for example reinforced bearings, various agitator flange versions, flange/foot-mounted versions, ATEX, ATEX belt drive (certified complete solution!), special seals, customer interfaces (flange, shafts, etc.) as per customer specification
- Version available for attaching standard IEC motors or as an integral solution (geared motor)




Your benefits with Premium Stephan E4-Agitator Drives

- High system availability
- Ruggedness even under the harshest application-conditions
- Optimised product configuration coupled with outstanding performance/size ratio
- Low maintenance requirement – overall system optimised for durability and freedom from leaks
- Reduction of the total cost of ownership, e.g. with the “integrated pump” version, a reduction of 17% coupled with enhanced efficiency
- Flexibility with regard to end-user specifications for make/configuration of motor

**More than 25 years experience in
agitator and mixer applications.**

We ensure that your application is a success!

Performance range of the Premium Stephan gearboxes for mixers and agitators.

Product group	Mounting examples	Nominal ratio range and output torque (Nm) for gearbox size										
		1 - 6	7	8	9							
SI Helical gearbox		200 - 5000 Nm	- 9000 Nm	- 15000 Nm	- 25000 Nm							
		i = 2,8 ... 63 (2 - stage) i = 12,5 ... 224 (3 - stage) i = 125 ... 30000 (with pre-stage)										
SP Shaft-mounted helical gearbox		200 - 5400 Nm	- 6000 Nm	- 8000 Nm	- 11000 Nm	- 15000 Nm	- 18000 Nm	- 22000 Nm	- 25000 Nm	- 31500 Nm	- 40000 Nm	- 50000 Nm
		i = 3,15 ... 200 (2 - stage) i = 35,5 ... 315 (3 - stage) i = 100 ... 30000 (with pre-stage) i = 6,3 ... 100 ... > 2000										
SK Helical bevel gearbox		200 - 4900 Nm	- 6000 Nm	- 8000 Nm	- 11000 Nm	- 15000 Nm	- 18000 Nm	- 22000 Nm	- 25000 Nm	- 31500 Nm	- 40000 Nm	- 50000 Nm
		i = 7,1 ... 315 (3 - stage) i = 100 ... 30000 (with pre-stage) i = 12 ... 315 ... > 2000										

Our world revolves around you



Conveyor Solutions

C4-Gearmotor Series



Environmental Solutions

E4-Gearmotor Series



Customized Solutions

by Premium Stephan

Your benefits

Speed and time to market

- Independent project teams comprising project management, design, order handling and processing
- Pragmatic approach and the elimination of non-productive bureaucracy, coupled with professionalism in project handling

Professional project management

- Many years' experience with customer-specified developments and series production with international logistics requirements
- Clear processes and standards for project management and project milestones combine to ensure reliable processes and efficiency in the customer-supplier relationship

A partner in project engineering

- Years' experience and references to our reputation for project engineering
- Customer and project-specific product and project documentation

Flexibility of range. Speed of implementation. Reliability of partnership.



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