

Industrial Gearboxes

Our Industrial Gearboxes offer a high number of possibilities for meeting application-specific requirements, designed for operation in demanding process related applications and harsh environmental conditions.

Your additional:

- + Housing design optimised for high stiffness and superior thermal performance
- + Innovative all-round concept guarantees „best fit“ and reduced total cost of ownership
- + High efficiency design—reduced power consumption

Helical/Bevel Helical Gearboxes

+	Torque range	50,000 - 750,000 Nm
	Ratio	650:1
	Sizes	125 mm - 900 mm centre distance

Parallel Shaft Gear Unit

+	Torque range	18,000 - 50,000 Nm
	Ratio	6.3 - 100:1
	Sizes	6 Sizes; 2+3 stages

Bevel Gear Unit

+	Torque range	18,000 - 50,000 Nm
	Ratio	12 - 315:1
	Sizes	6 Sizes, 3-5 stages



Application	agitators and mixers, conveyors, crushers, cranes, ball mills, fans, aerators, extruders, cooler drives, kneaders, thickeners
Industries	sugar, cement, paper, rubber, steel and chemical industry, power plants, environmental and process engineering, mines and materials handling

Gear Motors

Our innovative and extensive range of Geared Motors offer not only high reliability and quick availability, but also adaptable performance features for gearbox and motors as well as a high degree of flexibility in customer-specific applications.

Your additional:

- + Powerful thanks to an optimised design and the use of high load-bearing capacity components
- + Low noise level due to high gearing quality and refined tooth engagement
- + Quick and easy installation due to standardisation to dimensions normally found in the market and our EASY-FIT assembly system
- + Long lasting performance even under the toughest working conditions
- + ATEX design also available for hazardous environments



Helical Geared Motor

Torque range 200 - 25,000 Nm
Ratio 3.15 - 315:1
Sizes 1-9



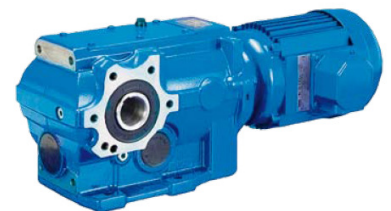
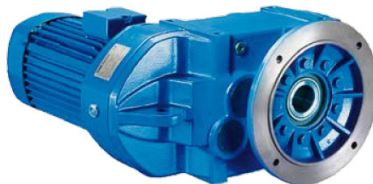
Parallel Shaft Helical Geared Motor

Torque range 200 - 15,000 Nm
Ratio 2.8 - 224:1
Sizes 1-8



Helical Bevel Geared Motor

Torque range 440 - 20,000 Nm
Ratio 7,1 - 100:1
Sizes 2-9



Application packaging, conveying, mixing, cranes, pumps

Industries food industry, agriculture, materials handling, paper, sugar, cement and pharmaceutical industry, amongst many others

Fluid Couplings

We offer a wide product range of Fluid Couplings—from simple starting clutches to Fluid Couplings with variable speed transmission.

Your addition:

- + Protection against continuous overloads and absorbing of heavy shocks
- + Energy saving due to use of smaller motors
- + Soft-start—improves lifetime of equipment
- + Automatic distribution of the load in case of multiple drive by several motors
- + Favourable and highly reliable solutions for most applications
- + Long lasting performance and long maintenance-free periods



Constant Speed Fluid Coupling

Design with and without delayed fill chamber or with steel housing, version with V-belt pulley and with water filling available.

Power range	up to 1,840 kW
Accessory	meltable fuses, disc/drum brakes, flexible couplings



Variable Speed Fluid Coupling

Continuous control of the transmission between input and output at a ratio up to 1:5.

Power range	up to 10,000 kW
Accessory	signal transmitter of the temperature, oil pressure oil, flow and speed, oil cooling, remote control, flexible couplings



Application	conveyors, fans, ball and roller mills, crushers, pumps, diesel engines, marine applications
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Industries	Thermal power plants, steel and cement industry, mining operations, chemical, oil and sugar industry
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Special Industrial Gearboxes

Our professional project managers, application experts and custom design teams ensure that the product supplied is optimised for your requirements and is available in a faster time to market to provide the perfect solution for your individual needs.

Your addition:

- + Best-Fit of the product offered for your application (optimum price/function relationship)
- + Safety thanks to established and continually improved development, verification and manufacturing processes
- + Reliability as proven by numerous references in diverse fields—repeatedly confirmed
- + Speed in project implementation ensures your competitive advantage

Design examples:



Extruder Gearbox

Torque range
Ratio
Sizes

up to 80,000 Nm
up to 25.6:1
112 mm - 450 mm centre distance

Application
Industries

Plastic and PVC extrusion
Plastic industry



Precision Gear

Torque range
Ratio
Sizes

105 - 4,000 Nm
53:1 up to 132:1
customer-specific solution according to your demands and ambient conditions

Special feature

Backlash < 0,1 arc min, hollow shafts up to Ø 95 mm,
Positioning accuracy up to +/-0,03 mm
robotics, positioning systems, solar trackers

Applications



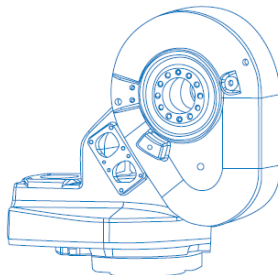
Cooling Tower Gearbox

Torque range
Ratio
Sizes

up to 75,000 Nm
up to 20:1
140 mm to 450 mm centre distance

Application
Industries

cooling tower and heat exchanger applications
plastic and steel industry, power plants, mineral processing



Planetary Gearboxes

Our modular design system with a wide range of ratios and a compact design offers an optimised stiffness of the housing and a high wear resistance with market leading power-to-weight ratio.

Your addition:

- + low noise level due to high gearing quality
- + high efficiency thanks to refined tooth engagement
- + long lasting performance due to high shock load capacity
- + long maintenance-free periods



Planetary Gearbox

Torque range
Application

Industries

up to 41,000 Nm

slewing, winding, mining operations, wheel drives, concrete mixing

construction equipment, cranes, materials handling, steel industry



Planetary Mill Gearbox

Torque range
Application
Industries

up to 4,000,000 Nm

sugar, coal and cement mills

sugar and cement industry, power plants

