

Your

addition

in



PREMIUM STEPHAN



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transmission.

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 addition:

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

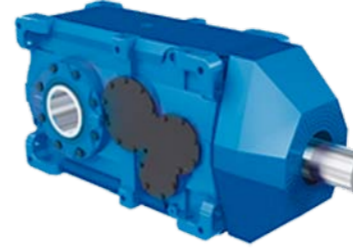
+ Helical/Bevel Helical Gearbox	
Torque range	50,000 to 750,000 Nm
Ratio	up to 650 : 1
Sizes	125 mm to 900 mm centre distance



+ Parallel Shaft Gear Unit	
Torque range	18,000 to 50,000 Nm
Ratio	6.3 to 100 : 1
Sizes	6 sizes; 2 + 3 stages



+ Bevel Gear Unit	
Torque range	18,000 to 50,000 Nm
Ratio	12 to 315 : 1
Sizes	6 sizes; 3 – 5 stages



+ Industrial Gearbox range	
Applications	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

Geared Motors

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

Your addition:

- + 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

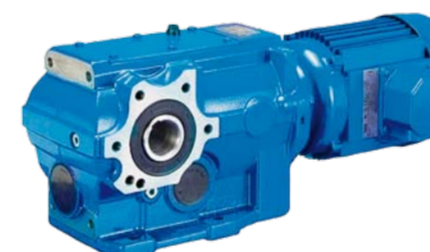
+ Helical Geared Motor	
Torque range	200 to 25,000 Nm
Ratio	3.15 to 315 : 1
Sizes	1–9



+ Parallel Shaft Helical Geared Motor	
Torque range	200 to 15,000 Nm
Ratio	2.8 to 224 : 1
Sizes	1–8



+ Helical Bevel Geared Motor	
Torque range	440 to 20,000 Nm
Ratio	7.1 bis 100 : 1
Sizes	2–9



+ Geared Motors range	
Applications	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.

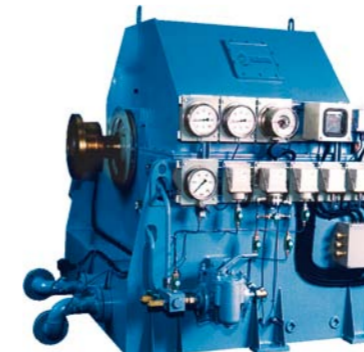
Your addition:

- + 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 solution 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	metable 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



+ Fluid Coupling range	
Applications	Conveyors, fans, ball and roller mills, crushers, pumps, diesel engines, marine applications
Industries	Thermal power plants, steel and cement industry, mining operations, chemical, oil and sugar industry

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	up to 41,000 Nm
Applications	Slewing, winding, mining operations, wheel drives, concrete mixing
Industries	Construction equipment, cranes, materials handling, steel industry

+ Planetary Mill Gearbox	
Torque range	up to 4,000,000 Nm
Applications	Sugar, coal and cement mills
Industries	Sugar and cement industry, power plants



Special Industrial Gearboxes

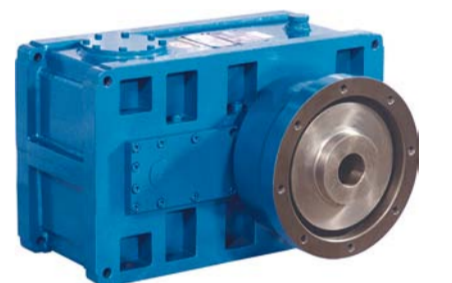
Our professional project managers, application experts and custom design teams ensure that the product supplied is optimised for your requirements and is available in a faster time to market to provide the perfect solution for your individual needs.

Your addition:

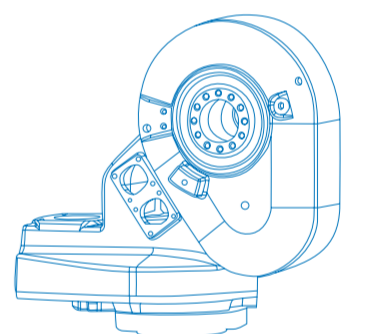
- + Best-Fit of the product offered for your application (optimum price/function relationship)
- + Safety thanks to established and continually improved development, verification and manufacturing processes
- + Reliability as proven by numerous references in diverse fields – repeatedly confirmed
- +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

Design examples:

+ Extruder Gearbox	
Torque range	up to 80,000 Nm
Ratio	up to 25.6 : 1
Sizes	112 mm to 450 mm centre distance
Applications	Plastic and PVC extrusion
Industries	Plastic industry



+ Precision Gear	
Torque range	105 to 4,000 Nm
Ratio	53 : 1 up to 132 : 1
Sizes	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
Applications	Robotics, positioning systems, solar trackers



+ Cooling Tower Gearbox	
Torque range	up to 75,000 Nm
Ratio	up to 20 : 1
Sizes	140 mm to 450 mm centre distance
Applications	Cooling tower and heat exchanger applications
Industries	Plastic and steel industry, power plants, mineral processing

