

PRESS INFORMATION

AUTOMATICA, Munich 2014

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1. Press release AUTOMATICA 2014

Superior precision, lifetime and efficiency: MELIOR MOTION series

High performance solutions in drive technology come from Hamelin / Germany: with almost 30 years experience in the development and production of highly precise, backlash-free customised gearboxes, Premium Stephan is a well-known supplier to leading robotic manufacturers.

Today, this specialist in precision gearboxes is pleased to announce the launch of another innovation to the market. The new MELIOR MOTION series offers a unique level of precision, lifetime and energy efficiency.

The design of the gear assembly, which will also be available as a fully enclosed gear-head, is based on a planetary gearbox with a unique patented gear profile, which remains almost backlash-free. The standard backlash of only <math><0,6</math> arcmin will remain constant throughout the whole lifetime of the gearbox. This results in exact positioning in robots, turntables, automation equipment, tool changers and many other applications.

Multiple simultaneous tooth contact (sun gear, planet gears and hollow gear) allow a particularly high performance of the gearbox. An efficiency of >95% and a very low breaking moment provide outstanding energy efficiency and long lifetime. Due to the high efficiency of the gearbox, heat generation is on a very low level. This allows the use and extended life of standard mineral oil, whilst also ensuring the radial shaft seals show less wear. The result is an impressive full-load lifetime of 20.000 hours. This is much higher than for conventional precision gearboxes in the market and has been verified in several tests.

The MELIOR MOTION precision gears are available in 7 sizes and various ratios up to $i=180$, each size in hollow shaft version (for example to feed-through supply lines) or full shaft version. All gearboxes have a very high tilting and torsional stiffness capability and operate with low noise levels. Although the design is very compact, superior output, acceleration and emergency stop torques are possible.

This combination of features sets the performance of this product above anything else previously available in the market.

The latest, high precise compact gear series from Premium Stephan will be presented for the first time at the AUTOMATICA fair in Munich from June 3rd until June 6th, 2014.

June 2014



2. Company data Premium Stephan Hamelin

The foundations were laid over 100 years ago: In the small mill belonging to the Stephan family in the 1890s, everything already centered around the perfect drive system. And that is how it has remained – though we have of course grown in the meantime.

Premium Stephan: Innovative and reliable

Today we offer a wide range of products in the area of gear units and geared motors. This enables us to offer our customers tailored solutions at any time, from the standard gear unit, through products adapted for specific applications.

Internationally networked thanks to Premium Transmission Ltd.

We have been part of Premium Transmission Ltd since 2011. The long-established Indian company has been a leading provider in the field of mechanical power transmission for over four decades.

The comprehensive resources in the product range and the impressive know-how of the Indian market leader are now also enriching our product plant in Hamelin/Germany. And at the same time helping us to continue to offer our customers the best products and optimum service in the future. After all, we know that real added value is only derived from excellent quality.

Facts & Figures

Employees Premium Stephan Hamelin: 130
Production area Hamelin: 17,500 m²
Turnover Premium Stephan Hamelin: 22 million Euro (BY 2013/2014)

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3. Product overview

- + Precision Gearboxes**
550 – 4,000 Nm
Sub-assemblies and enclosed gearboxes as hollow shaft or full shaft version in 7 sizes
- + Customised precision gearboxes**
105 – 6,500 Nm
As per customer specification
- + Geared motors**
200 – 18,000 Nm
As foot and shaft-mounted helical, parallel shaft helical and helical bevel geared motor in 13 sizes
- + Industrial gearboxes**
6,500 – 175,000 Nm
As foot- and shaft-mounted helical or helical bevel gearbox in 13 sizes
- + Cooling tower gearboxes**
Up to 75,000 Nm in 18 sizes
- + Extruder gearboxes**
2,000 – 75,000 Nm in 11 sizes
- + Planetary gearboxes**
17,000 – 3,600,000 Nm in 16 sizes
As planetary mill gearbox up to 4,000,000 Nm
- + Fluid couplings**
Constant and variable speed fluid couplings
- + Special industrial gearboxes**
According to customers' requests and specifications



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