Markgröningen, 12.02.2019

The light alternative: With plastic toothing

norelem expands its spur gear, gear rack and bevel gear range

**Low weight, rust-proof, very quiet, minimal maintenance due to self-lubrication and, last but not least a good price/performance ratio. In comparison to the steel versions, plastic gear wheels offer many advantages. norelem has now added many versions to its range that, thanks to high quality materials can be employed in diverse industrial sectors.**

Gear wheels, gear racks and bevel gears from norelem can be reliably used for power transmission and positioning tasks in machine construction and automation technology. **Spur gears** ensure a positive and non-slip transmission of forces with alternating direction of rotation, such as for raising and lowering machine elements or loads. Straight toothed plastic spur gears with 12 to 150 teeth are available from norelem in modules 0.5 to 3.

The combination of **rack and spur gear** turns a rotating movement into a linear movement or visa-versa. The norelem range includes plastic rack modules 0.5 to 3 with a standard length of 250 mm.

There are plastic **bevel gears** in the norelem range in modules 1 to 3.5 and ratios 1:1 to 1:5 as standard versions. They are mostly used in angular gear drives that are required for applications with high reduction ratios, high torques and high speeds.

All toothed parts are available made from the standard material polyacetal or from the premium material polyketone. While polyacetal guarantees high hardness and a low coefficient of friction, polyketone offers a much longer service life and optimum power transmission. Due to the exceptionally high abrasion resistance and very good tribological properties of this material, the susceptibility to tooth fracture is also significantly reduced.

Under normal conditions, both plastics can be used within a temperature range of -40° C to +140° C.

Characters including spaces: 1,883

Brief profile of norelem Normelemente KG

Every success begins with an idea. This is why norelem supports you in achieving your targets in machine and plant construction with an unrivalled selection of standard parts and components. THE BIG GREEN BOOK offers designers and technicians an extensive and clearly arranged assortment of quality components.

We support your project right from the start - with expert advice, a complete CAD database and fast delivery. For the last 60 years norelem has been dynamically evolving, consistently amending our portfolio and continuously optimising the logistics.

From our headquarters in Markgröningen, Germany and over our international locations, we are active in youth developement with schooling and workshops.

Characters including spaces: 710