

Product Range

Racks and Pinions

Welcome to the world's widest range of high-quality racks and pinions.

As a specialist in the field of high-quality racks we offer more than 350 types of racks. This is most comprehensive rack program that is currently available on the market. Our four gear rack classes **Ultra High Precision Rack**, **High Precision Rack**, **Precision Rack** and **Basic Rack** include the quality 5 to 10, in helical or straight toothed design, milled or hardened as well as hardened and ground and in sizes from module 1.5 to 12. For the realization of complete rack and pinion drives, we also offer a wide range of suitable gears, pinion shafts and lubrication systems.



Total pitch error
 $\leq 0,030 \text{ mm}$



Tooth thickness tolerance
- 15 μm



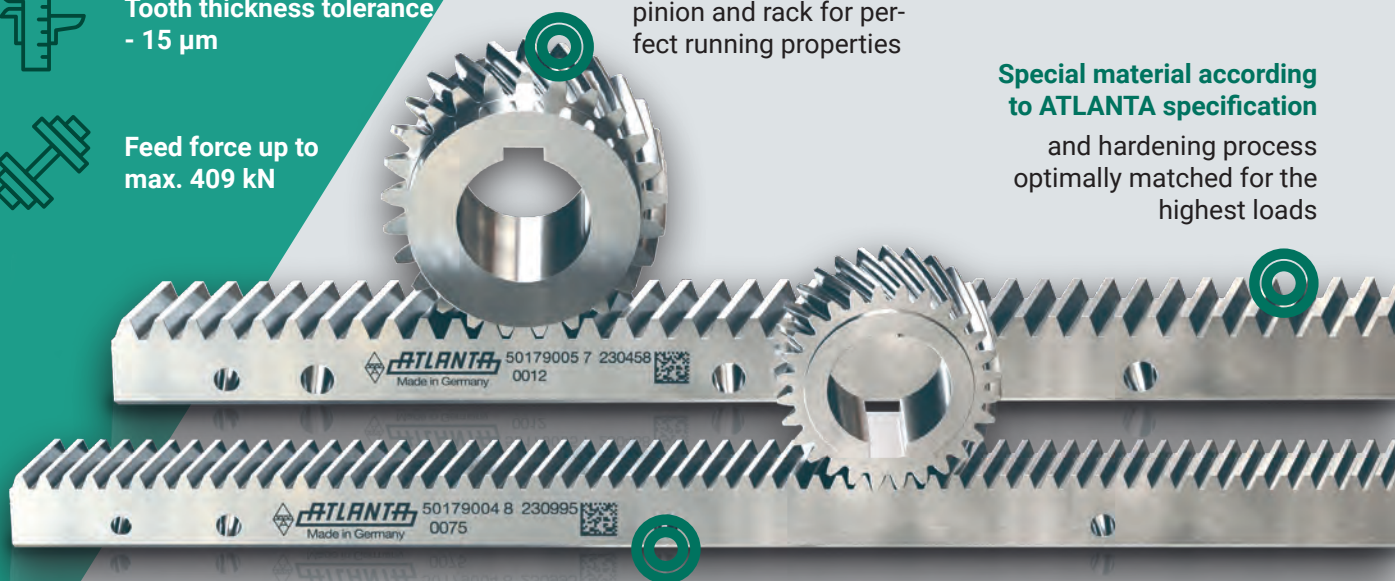
Feed force up to
max. 409 kN

Gear correction

optimally matched to the pinion and rack for perfect running properties

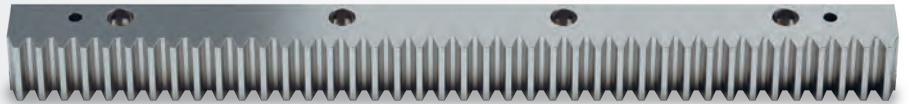
Special material according to ATLANTA specification

and hardening process optimally matched for the highest loads



2D data matrix code

for reading the rack data from the ATLANTA cloud



Features

- ✱ four classes of racks (UHPR, HPR, PR and BR)
- ✱ gearing quality 3 to 10
- ✱ module 1,5 to 12
- ✱ heat-treatable steel or case hardening steel according ATLANTA specification
- ✱ helical & straight toothed
- ✱ hardened & grounded (all sides grounded)
- ✱ length up to 2000 mm
- ✱ for each application the right rack
- ✱ industry related racks
- ✱ racks with 2D data matrix code

Unique Selling Points

- ✱ special material according to ATLANTA specification
- ✱ possibility to read product data by using the 2D matrix code
- ✱ designation with individual customer logo
- ✱ most modern calculation methods for the complete rack and pinion drive
- ✱ 100% quality control
- ✱ digital twin



ATLANTA Service

Start with ATLANTA and the world's first digital rack into the smart drive technology of tomorrow.

With the web-based tool, which requires no installation and can be used with all end devices, you can access the technical product data of ATLANTA racks at any time, as well as other applications such as Rack Mapping or requesting an identical Replacement Rack for your machine.

- ✱ product-specific information by using the 2D data matrix code
- ✱ rack mapping
- ✱ request „Digital Twin“



atlantagmbh.com/atlanta-service