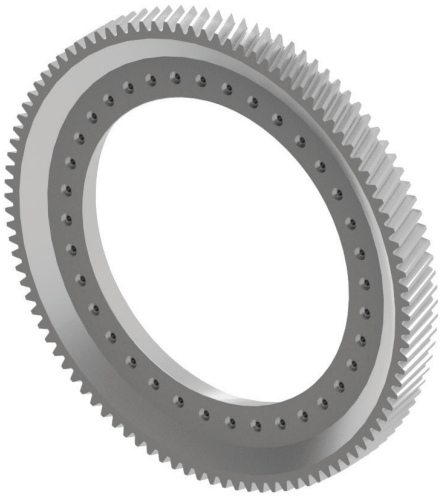
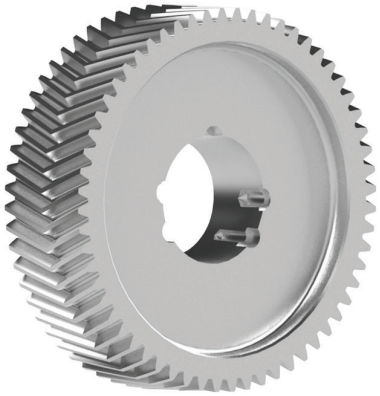
LARGE GEARS

Made to Order



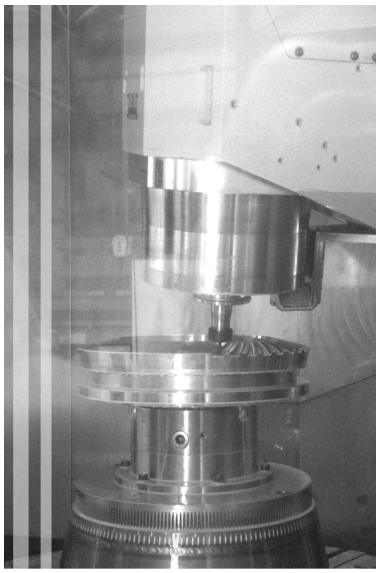


WMH Herion
part of your drive

ANDANTEX
USA Inc.

Made to Order

As gearing specialists, Andantex's partner WMH Herion develops and manufactures customized solutions in the field of drive technology for more than 120 years. We´d like to offer our long experience and the profound, extensive know-how in the field of gear technology and drive elements to our customers - especially when complex gearing parts are required for customized applications.



Highly flexible design and production capabilities

The use of modern CAD/CAM technology allows a fast response to customer requirements and design changes without time-consuming, costly interventions in the production process. The use of end mills allows the 3D milling of various types of gearing and sizes as well as other contours. Therefore, the procurement of special tools is in most cases unnecessary - this reduces both lead times and tool costs.

Applications

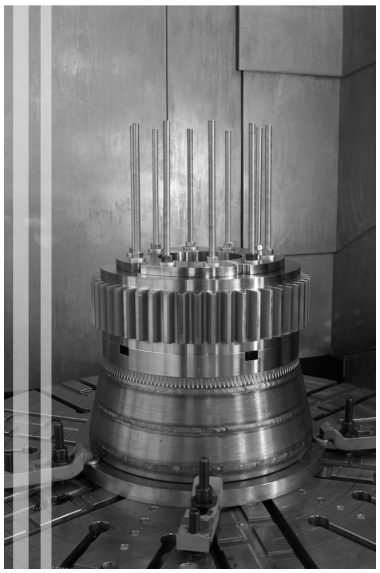
Special and large gears are required in applications where large masses must be moved and high forces arise:

- Large gear units
- Wind turbines
- Shipbuilding
- Heavy engineering
- Construction machinery
- Conveyors
- And many more…

Competence

From design to ready-to-install drive elements - as your competent partner we support you in all phases of product development:

- Support of your engineering department in product design
- Design and optimization with calculation software for machine elements, in particular gear parts
- 3D CAD design
- Production of prototypes / initial samples
- Complete manufacturing of customized special and large gears
- Comprehensive quality control
- Documentation
- Detailed consulting including fast, flexible and straightforward service



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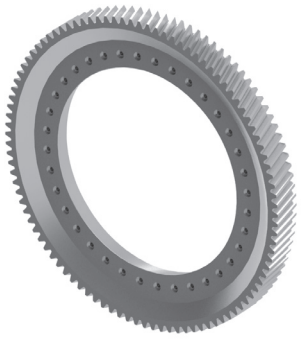
Customized Large Gearing Solutions - General Workpiece Charactrerisitics:

- Workpiece weight max. 5 000 kg (11,000 Lbs.)
- Workpiece Ø max. 2 000 mm (79 in.)
- Workpiece height max. 600 mm (24 in.)

Manufacturing Capabilities

We manufacture customized special and large gears in numerous versions:

1. Ring Gears



- Straight or helical teeth
- Parts in ground quality:
  Pitch Ø up to 2 000 mm (79 in.); teeth in all standard modules plus special pitches
- Parts in milled quality:
  Pitch Ø up to 2 000 mm (79 in.); teeth in all standard modules plus special pitches
- Materials, hardening or surface coating according to customer requirements

2. Gear Segments

For the production of gear segments, different methods can be used:

Conventional production of gear segments:

- Using ring gears as specified above as semi-finished products to be cut into multiple gear segments

Complete production of individual segments:

- With theoretically infinite pitch diameter -
  Gear Segments can be joined together to make a complete ring gear of any diameter
- Teeth module 6 & Higher
- Special designs possible
- Extremely short delivery times are possible

Manufacturing Capabilities

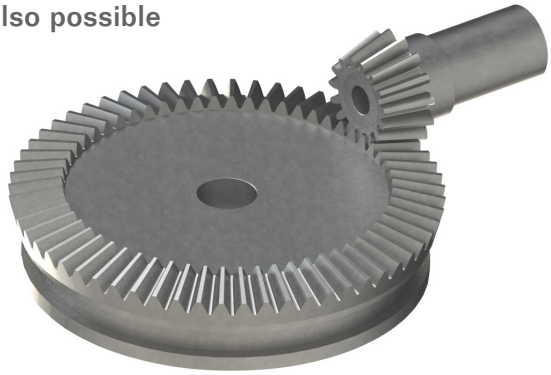
We manufacture customized special and large gears in numerous versions:

3. Spiral Bevel Gears

- Teeth module 6 and higher; special modules also possible
- Ready to be installed
- Dimensions, ratio and heat treatments acc. to customer specifications and drawings

4. Bevel Gears

- Straight and helical teeth, crowned tooth flanks
- Teeth module 6 and higher; special modules also possible
- Ready to be installed
- Dimensions, ratio as well as heat treatments acc. to customer specifications and drawings



Require gears with different specifications? Please send us your production request - our sales and technical team will be glad to assist in the realization of your project.

Manufacturing Capabilities

We manufacture customized special and large gears in numerous versions:

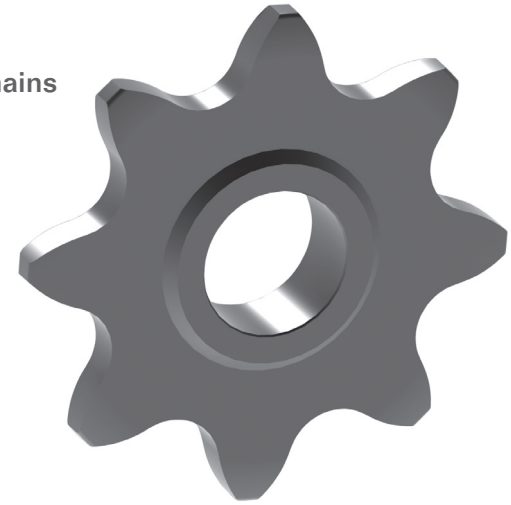
5. Herringbone Gears

With high load capacity, reduced noise levels and the elimination of axial forces, the herringbone gearing combines significant advantages of helical and spur gears.

We manufacture customized gears with herringbone gearing:

- Module 6 and larger

6. Chain Sprockets & Plate Wheels



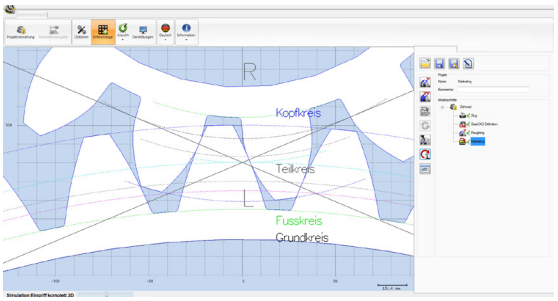
- Tooth form to suit any standard and non-standard chains
- Pitch from 4 mm; special pitches also possible
- Design: Simplex, Duplex, Triplex
- Double sprockets and plate wheels
- Sprockets with lantern gear teeth
- Material: steel, stainless steel and cast iron

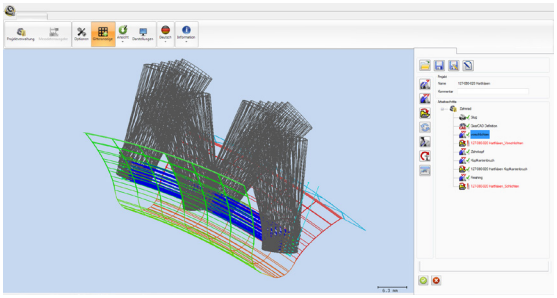
- Dimensions, heat treatment, materials and tooth forms acc. to customer specifications and drawings
- Ready to be installed

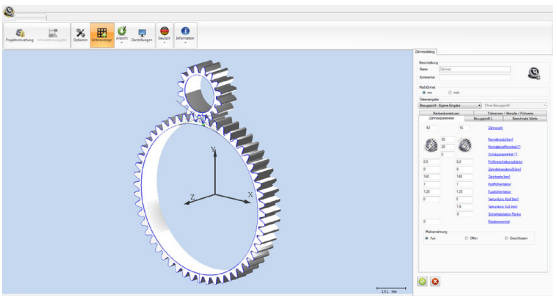
CAD/CAM

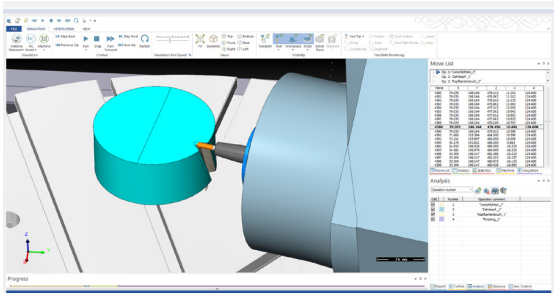
Our highly flexible production systems are linked to an advanced CAD/CAM platform. By integrating the design into production our customers benefit from shorter lead times, rapid implementation of design changes and more efficient production.

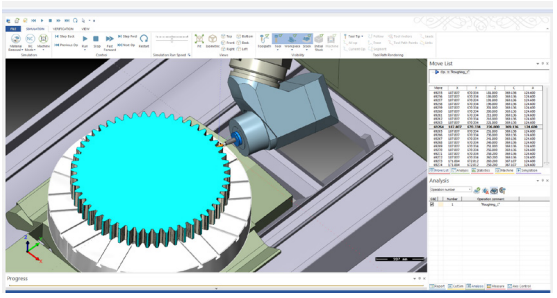
With this combination of design and manufacturing processes, we are also able to offer our customers many possibilities of component production - from single components to volume production parts.











Quality Assurance & Documentation

Prior to delivery, each product is subjected to extensive quality testing. By using a 3D coordinate measuring machine as well as a wide range of measuring equipment and by carrying out all testing processes in air-conditioned environment, a standardized test procedure is implemented to ensure consistent high quality of all components.

Moreover customer-specific test requirements can be implemented when they are defined at the time of order.

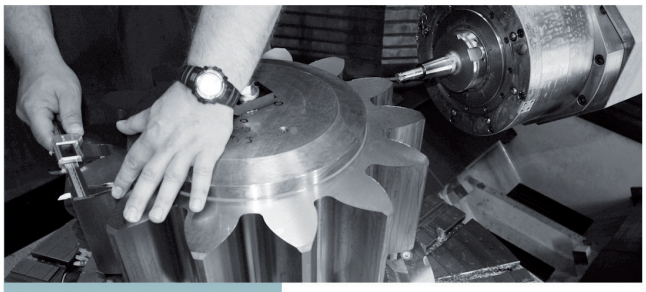
Initial sample test reports, material test certificates, hardness test certificates, measurement reports and more can be provided on request.

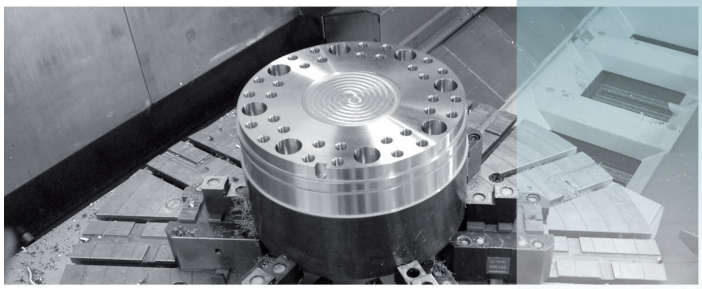
On request, we perform machining operations in the areas of gearing, turning and milling on your workpiece. Moreover, we offer you the opportunity to order large-sized components according to drawings, samples or other specifications.

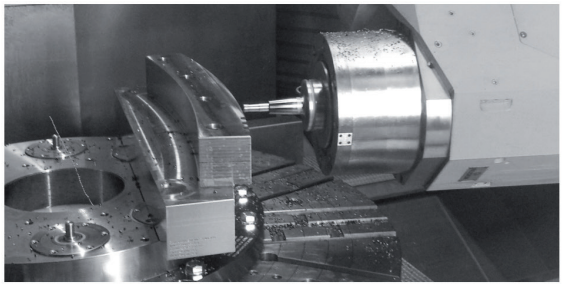
We manufacture complex special parts (e.g. freeform surfaces, among others) and demanding prototypes as well as components with simple geometry - from single parts to medium-sized batch production.

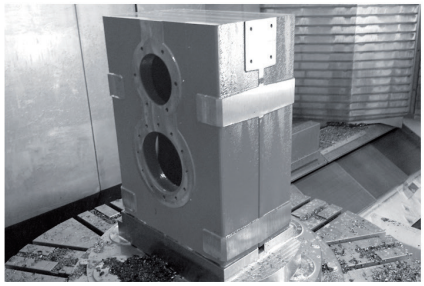
Delivery Includes:

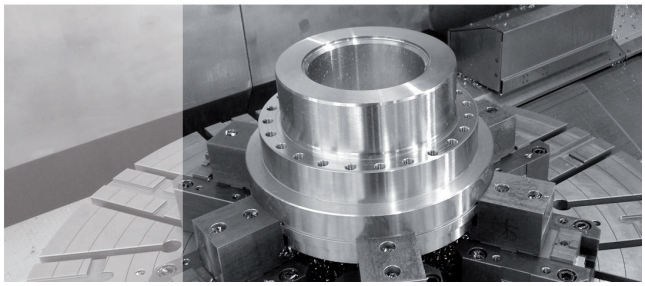
- Complete machining of the workpiece; blank / material provided by the customer
- Optional: complete machining of the workpiece including material











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