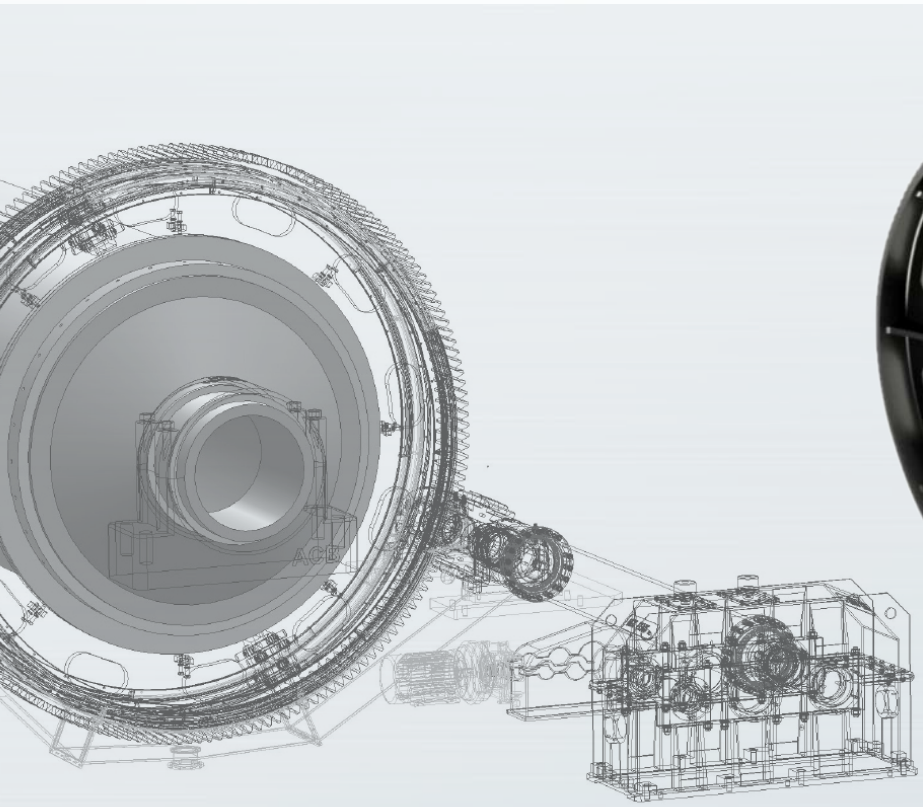
GIRTH GEARS

For the Heavy Industry



MGS Girth Gears drives for rotate drums, kilns and mills on cement and minerals industry

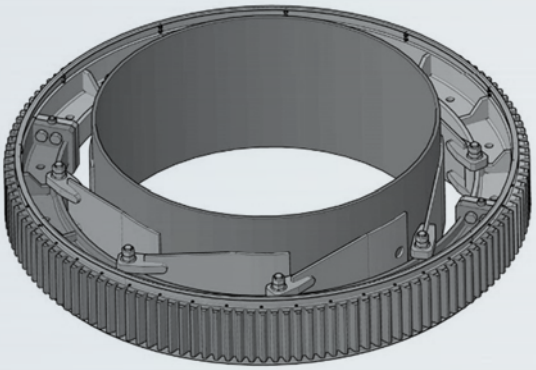
Argentina - Bolivia - Brazil - Canada - Chile - China - Colombia - Costa Rica - Dominican Republic
Ecuador - El Salvador - Guatemala - Honduras - Italy - Mexico - Nicaragua - Panama - Peru - Spain - USA

MGS GEARS

Girth gears for high demanding applications

Girth Gears work in several essential industries around the world, including mining, cement, and minerals. Girth Gears, which are usually mounted on the outside of horizontal mills, rotary mills, and kilns, supply the system's principal rotating drive and must therefore be reliable, efficient, and long-lasting.

Girth Gears are utilized in a variety of mining, cement, and minerals processing applications where downtime is not an option, such as copper, gold, silver, platinum, and iron ore production.



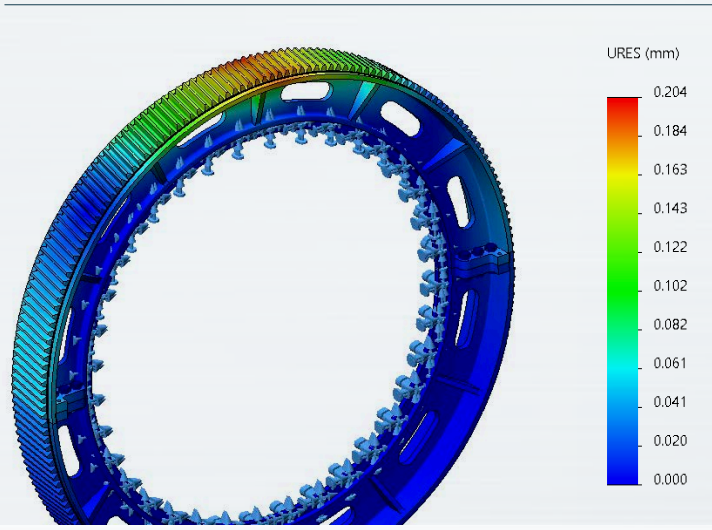
ROBUST AND RELIABLE

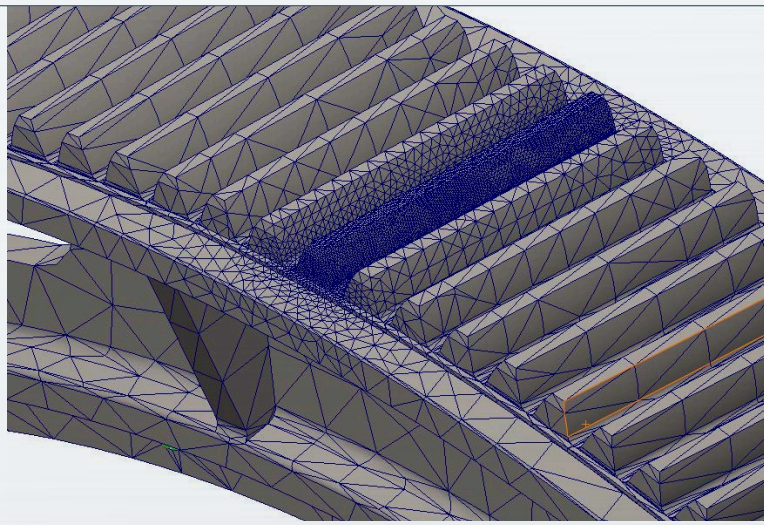
- High integrity girth gears designed for ultimate strength and reliability
- Options for cast steel, SG iron and forged/fabricated gears
- 320BHN hardness can be achieved with cast gears, 340BHN with fabricated options
- Designed and manufactured to major international standards including AGMA
- Proven designs supported by a global reference list
- 3X three year warranty packages available for extra assurance

GLOBAL EXPERTISE DELIVERED LOCALLY

- Extensively field tested and proven
- Access to a global network of service, installation and operation experts
- Global manufacturing capabilities supported by a professional supply chain
- Customer focused approach - when you need us, we will be there
- Capacity up to 14m diameter

Girth Gears Finite Element Analysis





For over 40 years our engineering department has collected data on behavior and performance of the components of dozens of cement mills in the 1000 to 3600 kW range. Vibration readings have been taken on main moving parts and their relevant supporting structures; in addition, the status of analyzed elements and any problem arising have been recorded.

Such readings have been repeatedly taken at preset intervals so as to create a comprehensive data base. Recently, we set up powerful design workstations and installed dedicated software packages for the finite-element method calculation. By using these packages, we can analyze the critical components of machines of our own design as well as other machines.

State of the art manufacturing process

Member of American Gear Manufacturers Association

Girth Gears section designs

T SECTION DESIGN

Y SECTION DESIGN

MULTIPLE SEGMENTS DESIGN

KILN ROTATE FURNACE

MGS GEARS

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