



HOME OF

PRECISION ENGINEERING

maaggear.com



WHO WE ARE | A Century of Excellence in Precision Gears

Our Mission is Simple

We drive client **productivity** through **reliability** and efficiency of our products.
We combine them with **professional services** for every gear solution.



Our products are known for their long-lasting performance

For over a century, we have engineered solutions that stand the test of time, ensuring undisturbed operations and optimized costs throughout their lifecycle.

Our Heritage, Your Future

MAAG's history isn't just about our company – it's a tale of innovation and progress.

Founded in 1913 by Max Maag in Zürich, **MAAG Gear** began with a radical conviction: precision gears require precision people.

Over more than 100 years, we have transformed from a regional engineering workshop into a **global leader**, trusted by cement, mining, and industrial operations across 6 continents.

Our legacy is defined by **continuous evolution**, from pioneering gear-tooth designs and international expansion, to digital integration and AI-powered predictive maintenance. Each decade has refined our expertise and deepened our commitment to client success.



Over **4,500**
INSTALLATIONS
in **100+** COUNTRIES



INTERNATIONAL
team of
320+ EMPLOYEES



Multiple manufacturing facilities
with

20.000+ SQM
PRODUCTION AREA



1913, Max Maag founds
Maag Zahnrad-AG in Zürich



WHY CHOOSE MAAG | Trusted by Global Industry Leaders

Operational Excellence Through Partnership

We're more than a manufacturer.
We're your strategic partner delivering reliability,
expertise, and progressive solutions at every
stage of your operation.



When you choose MAAG, you're choosing a company that measures success by your success. It's our fundamental belief about how **partnerships** should work. In heavy-duty industries, one-size-fits-all solutions don't exist.

That's why MAAG's approach begins with listening. Then we engineer the solution – not just a product, but a **complete system** optimized for your unique operations.



Technical Quality

MAAG Gear signifies a **competence center** for gear units in industries demanding reliability. We combine a century of **manufacturing expertise** with **continuous innovation**. Every component is designed and manufactured to our exacting standards – not outsourced, not compromised.

- Every gear, bearing, and assembly meets our proven specifications
- Advanced manufacturing processes combining tradition with cutting-edge technology
- Rigorous quality control ensuring consistent, predictable performance

Production & Service Expertise



We don't disappear after installation.
We're your operational partner, providing:

- 24/7 technical support with fast response times
- Regular inspections and advanced diagnostics to identify issues before they become crises
- Digital condition monitoring giving you real-time visibility into your equipment
- Spare parts availability to minimize downtime
- Overhaul and upgrade services extending equipment life and optimizing costs

The Result:

Industry-leading operational efficiency, minimized downtime, and a partner who's invested in your long-term success.

YOUR INDUSTRY CHALLENGES | Our Solutions

Powering Cement Operations with Precision & Reliability

Heavy-duty industries share a common reality: equipment failures aren't inconveniences. Every hour costs thousands and disrupts supply chains.

Whether you're extracting minerals in remote mining operations, grinding cement in 24/7 production facilities, processing materials in steel mills, or handling delicate ceramics, **your equipment operates under extreme conditions.**

Raw Materials Extraction

Raw materials **must be extracted and transported reliably** to your facility. Conveyor systems operate continuously, moving massive volumes under demanding conditions.



Our Solution



MAAG® GEAR KA / KB Bevel Helical Gearboxes

Application: Conveyor belt drives for raw material transport from extraction sites to processing facilities.

Why KA/KB: Specially engineered to handle the demands of continuous material transport – from mine to mill.



YOUR INDUSTRY CHALLENGES | Our Solutions

Gears for Vertical Roller Mills

Our MAAG® gear units are designed for vertical roller mills used in **raw material**, **cement**, and **slag grinding** applications. They deliver high power, compact design, and proven reliability for efficient and continuous operation.

Our Solutions



MAAG® GEAR WPU IRON DRIVE® Gear Unit

Application: Vertical mills for raw material grinding.

Why WPU: Proven performer since 1981, delivering consistent results across standard capacity ranges. Simple, reliable, field-tested engineering.



MAAG® GEAR WPV IRON DRIVE® Gear Unit

Application: Vertical mills (all output ranges and grinding table sizes).

Why WPV: When you need maximum capacity in a compact footprint. Intelligent torque-splitting design delivers full power without requiring additional space.



MAAG



MAAG® GEAR MAX
Drive System
MAAG Gear

Application: Vertical mills (ultra-high capacity applications).

Why MAX Drive: Our most powerful solution, engineered for facilities pushing the limits of production. Delivers up to 15,000 kW of reliable performance.

YOUR INDUSTRY CHALLENGES | Our Solutions

Gears for Horizontal Mills

Our MAAG® gear units are engineered for **horizontal mills** used in **cement**, **raw material**, and **slag grinding** applications. They provide high torque transmission, robust design, and long-term reliability to ensure efficient operation under demanding conditions.

Our Solutions



MAAG® GEAR CPU Gear Unit

Application: Central drive systems for horizontal grinding mills.

Why CPU: Engineered specifically for centered mill drives, delivering consistent power and reliability.

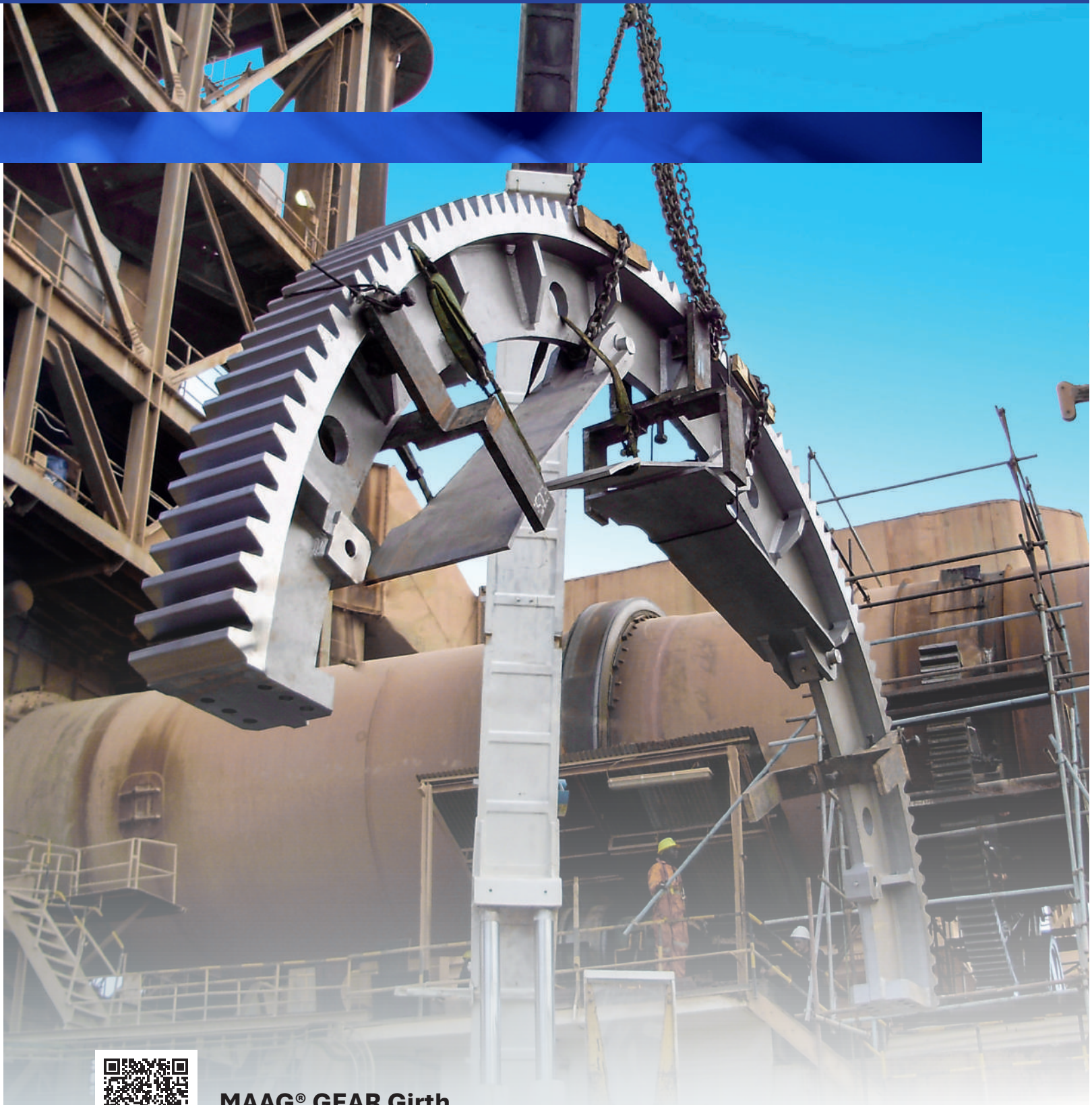


MAAG® GEAR LGDX Lateral Gear Unit



Application: Lateral drive systems for horizontal grinding mills.

Why LGDX: Compact lateral installation allows flexible mill positioning while maintaining full operational power.



MAAG® GEAR Girth Gear Drives

Application: Alternative drive system for horizontal mills.

Why Girth Gear: Complete drive system with girth gears, pinions, and auxiliary equipment for mills requiring maximum durability.



YOUR INDUSTRY CHALLENGES | Our Solutions

Powering Mining with Precision & Reliability

Materials Extraction and Handling

If bucket-wheel excavators are used for material extraction followed by conveyor-belt transport, smooth operation is ensured by our gear units. The **MAAG KPB**, a planetary gearbox with a bevel gear stage, was specially developed for driving bucket-wheel excavators in open-pit mining.

The **MAAG KA** and **KB** bevel helical gear units were designed for conveyor belts. For years, both gear unit types have proven their merit in the mining of brown coal and sulfur, as well as in other sectors of the minerals market.





Raw Material Crushing

The aim of raw material crushing is producing a homogeneous raw meal from many variable rocks.

MAAG Gear provides heavy-duty bevel gears for cone crushers of any type, starting from the largest primary geratories to mobile aggregate cone crushers.

Our case-hardened, precise bevel gear sets **drive the largest crushers in the world.** Additionally, we deliver design-to-perform gear reducers for sizers of all sizes and makes. We supply bevel sets for **primary crushers** and **cone crushers.**

YOUR INDUSTRY CHALLENGES | Our Solutions

Material Grinding

Different types of horizontal mills are used in the mining industry – SAG, AG, rod and ball mills. They are usually equipped with girth gear drives. MAAG Gear supplies the complete drive system, consisting of girth gears for single or dual drive pinions, gear units and auxiliary drives.

The mills can also be driven with the compact **MAAG LGD/LGDX** lateral gear drive unit. Built on proven technology, this symmetrical and reversible gearbox features separated lubrication for extended lifespan and flexible rotation in both directions.



Separation of Solids / Thickening / Drying



For extracting certain components, the ground material is broken down in flotation cells with the aid of various additives. **MAAG components and gears are used in the thickening sedimentation process.**

For some mineral extractions, the pyrotechnical drying process.



Special Gear Units

The know-how we have gathered over the course of decades allows us to meet all our customers' special requirements in many different sectors.

STEEL



Custom gear solutions tailored for steel manufacturing requirements, from mill drives to specialized processing equipment.



FOOD PROCESSING



Complete series of split torque gearboxes to drive horizontal twin screw presses to extract juice from sugar beets. **Specialized solutions for food industry applications.**



CERAMIC



Range of gears **customized for ceramic industry needs.** Tailored for ceramic production-specific requirements and equipment.



BEYOND PRODUCTS | Complete Partnership

The Partnership Difference

MAAG doesn't believe in one-time transactions. We measure success by your operational uptime, your equipment longevity, and your total cost of ownership. **Our complete partnership ecosystem ensures you're never alone – from day one through decades of operation.**



Condition Monitoring System (CMS)

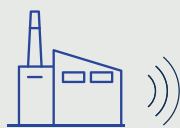
Transform maintenance from reactive to predictive and say goodbye to unexpected shutdowns.

Our online condition monitoring service uses data analysis and continuous surveillance to detect defects at an early stage – giving you more time to schedule maintenance strategically.

MAAG CMS continuously monitors oil particle content, vibration, temperature, and operational parameters.

Real-time data streams to secure cloud platforms and mobile devices, enabling your maintenance team to predict issues months in advance – not react to failures.

EARLY WARNING SYSTEM | REDUCED DOWNTIME | EXTENDED EQUIPMENT LIFE | OPTIMIZED MAINTENANCE COSTS



Machine / Plant



MAAG Gear

24/7 Technical Support & Service

Equipment failures don't follow business hours. **Our global service network operates around the clock**, providing remote and on-site technical support. When issues arise, **certified MAAG technicians respond with deep equipment knowledge** – not generic troubleshooting.

We know your systems because we engineered them.

FAST SPARE PARTS DELIVERY | EMERGENCY REPAIR SERVICES | ON-SITE INSTALLATION SUPPORT



Spare Parts & Components

MAAG maintains global spare parts inventory ensuring fast availability.

Whether you need common components or specialized parts, we minimize your wait time and keep your operations running.

Consulting & Optimization

Our engineers **work directly with your team** to identify efficiency opportunities, predict future capacity needs, and optimize your entire drive system. We suggest design improvements, equipment upgrades, and operational enhancements that **extend equipment life and reduce costs.**

EQUIPMENT UPGRADES | CAPACITY OPTIMIZATION | LIFECYCLE EXTENSION | COST REDUCTION

CLIENT TESTIMONIALS | Customer Stories & Measurable Results

CASE STUDY

Novacim Cement Plant (Morocco)



Challenge:

Minimizing Downtime. Optimizing Reliability.

At Novacim, a cement plant in Morocco, operational continuity is everything. Like most cement producers, they faced the constant challenge of balancing production demands with the reality of equipment maintenance. Unplanned downtime costs thousands per hour. Equipment failures cascade through the entire operation.

Traditional reactive maintenance wasn't working. They needed a smarter approach.

Solution:

MAAG Condition Monitoring System (CMS)

Novacim implemented MAAG's advanced Condition Monitoring System to enable predictive maintenance. Rather than waiting for equipment to fail or following rigid maintenance schedules, they could now monitor gear unit health continuously – detecting wear patterns and anomalies before they became critical.

"At Novacim, we implemented a MAAG condition monitoring system to enhance predictive maintenance and reduce unplanned downtime. The service quality from MAAG has been excellent, offering valuable insights and ensuring gearbox reliability."

~ Hicham Safi, Cement Plant Director at Novacim, Morocco



Changes:

- Gearbox reliability improved through early fault detection
- Maintenance team gained actionable insights for smarter decisions
- Unplanned downtime reduced significantly
- Equipment lifespan extended
- Total cost of operation decreased



Benefit:

Novacim transformed from reactive maintenance (**equipment fails → emergency repair**) to predictive maintenance (**early warning → planned service**).

This shift didn't just reduce costs – it gave them operational peace of mind and competitive advantage.

CLIENT TESTIMONIALS | Customer Stories & Measurable Results

CASE STUDY

20 Years of Performance with LGD Gear Unit



Challenge:

Extended Equipment Life. Long-Term Reliability.

A major mining operation required a gear drive solution for their grinding mill operations. The stakes? Equipment failures mean production stops, schedules slip, and costs escalate. They needed not just a gear unit, **but a partner committed to 20+ years of reliable performance.**

Solution:

MAAG LGD - Built for the Long Haul

MAAG engineered the **LGD** specifically for demanding applications where failure isn't an option. The compact lateral design offers **installation flexibility**, separated lubrication systems for extended lifespan, and **superior durability** through wider intermediate teeth and reversible operation.

Two decades later, **MAAG LGD units continue delivering flawless performance** in this customer's mining operations. No premature failures. No surprising downtime. Just consistent, reliable operation year after year.

Results:

- Proven engineering and component quality
- Reliable performance under continuous duty cycles
- Minimal maintenance requirements
- MAAG's responsive support and spare parts availability
- Long-term partnership from MAAG engineers

**Benefit:**

This customer didn't just buy a gear unit in 2004 – they invested in a partnership that has delivered consistent, predictable performance for over two decades.

When a gear unit performs reliably for 20+ years with minimal issues, that's proof of engineering excellence and partnership commitment.



Explore all MAAG customer success stories

A large industrial gear is being manufactured in a factory. The gear is suspended by a yellow crane and is being worked on by a large machine. The factory has a high ceiling with a steel truss structure. In the background, several workers are standing near other industrial equipment.

OUR COMMITMENT | Sustainability, ESG & Certifications

Certifications

MAAG Gear has established and certified an Integrated Management System that complies with **ISO 9001:2015**, **ISO 14001:2015**, and **ISO 45001:2018 standards**. This certification ensures that our manufacturing processes consistently achieve the highest quality while prioritizing safety and environmental sustainability.

Conclusions

Evolving demands in heavy-duty industries are driving the need for more efficient, reliable, and sustainable gear technologies. At MAAG, we are dedicated to providing high-precision solutions that respond to this need and enhance the productivity, sustainability and reliability of our clients' operations in cement, mining, and beyond.

With a rich history of innovation and a robust product portfolio, we stand as **trusted partners**, committed to our mission of driving progress through precision.

Sustainability MAAG Gear

MAAG's commitment extends far beyond gear units.

Our products combine **advanced technologies** and **eco-friendly materials** to maximize efficiency while minimizing environmental impact – delivering high-performance solutions that **reduce consumption and emissions**.

This is how we foster a more responsible and **sustainable future**.



GENDER EQUALITY
Our ambition is to increase equality and diversity.



WORK ENVIRONMENT
We desire an inclusive and safe working environment with a focus on equal opportunities for all.



INNOVATION
We are committed to finding innovative ways to ensure seamless operations in the industry using sustainable and innovated approach.



CLIMATE ACTION
Our ambition is to increase climate awareness in our portfolio and within MAAG Gear.

Begin Your Partnership

Contact Our Expert Team

Discover how MAAG Gear can help you elevate your business
maaggear.com

Follow us on our social media



Download our **product brochures**



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