

Welcome to



**MAX MOTHES**

SIMPLY

**CONNECTING**

OUR

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# CORE VALUES



**INNOVATION**

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**SUSTAINABILITY**

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**RELIABILITY AND  
COMMITMENT**

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**FAIRNESS AND APPRECIATION**

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**RESPONSIBILITY**

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**CUSTOMER FOCUS**

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# OUR HISTORY

Founded in Düsseldorf



1918

Relocation from Düsseldorf to Neuss



2012

Foundation of MAX MOTHE'S China



2015

Entry into the SUMEKO Industries Co. Ltd. Group



2020

1921



Start of production

2013



Foundation of MAX MOTHE'S Türkiye (Trade Location)

2019



Foundation of MAX MOTHE'S Türkiye (Production)

2024



Foundation of MAX MOTHE'S USA (Production)

OUR

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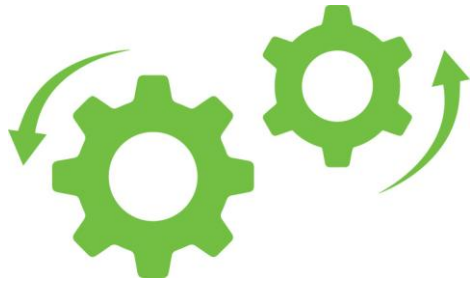
# BRANCHES



OUR

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# PRODUCTION EXPERTISE



**MACHINING/ CUTTING  
TECHNOLOGY**

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**COLD FORGING**

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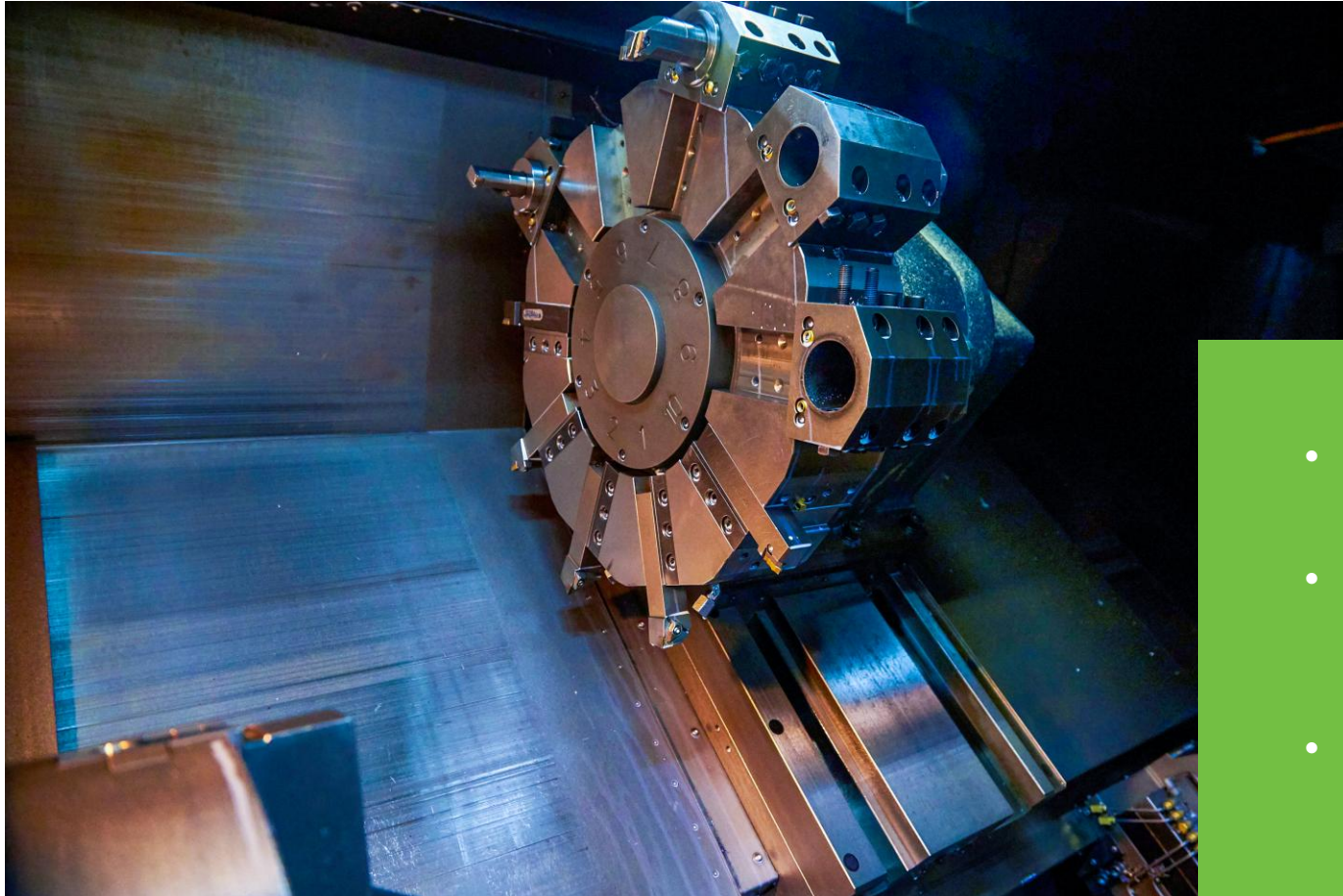


**HOT FORGING**

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OUR

# MACHINING



- Shaping by NC processes: Milling, Drilling, Grinding, Machining
- Machines: CNC lathes for face or cylindrical turning, thread cutting, and the production of rotationally symmetric parts
- Location: Max Mothes GmbH, Neuss, Deutschland Max Mothes (Suzhou) Co., Ltd., China/ Sumeko Ltd., Taiwan

OUR

# COLD FORMING



- Plastic deformation of metals below the recrystallization temperature
- The resulting increased material stability can be reduced again through subsequent heat treatment
- Location: Max Mothes (Suzhou) Co., Ltd., China/ Sumeeko Ltd., Taiwan Max Mothes Fasteners LLC, Fraser, MI, USA

OUR

# WARM FORMING



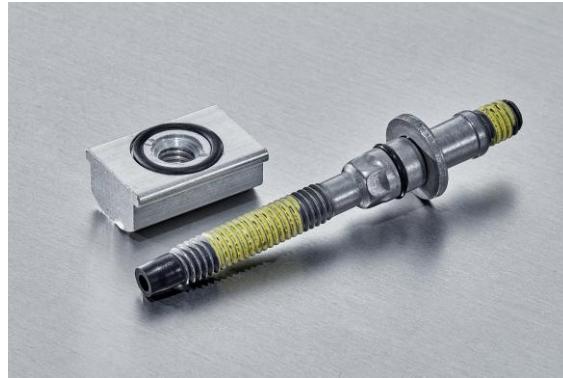
- Forming of metals above the recrystallization temperature (forging)
- Both open-die forging and shape-retaining forging are possible
- Location: Max Mothes Civata Üretim San.ve Tic. Ltd. Sti.

OUR

# PRODUCTS



**BOLTS**



**ASSAMBLIES**



**HEXAGON SCREWS**



**CAPTIVE SCREWS**



**MOTHES FIX**



**SEALING NUTS**



**STUD BOLTS AND BOLTS**

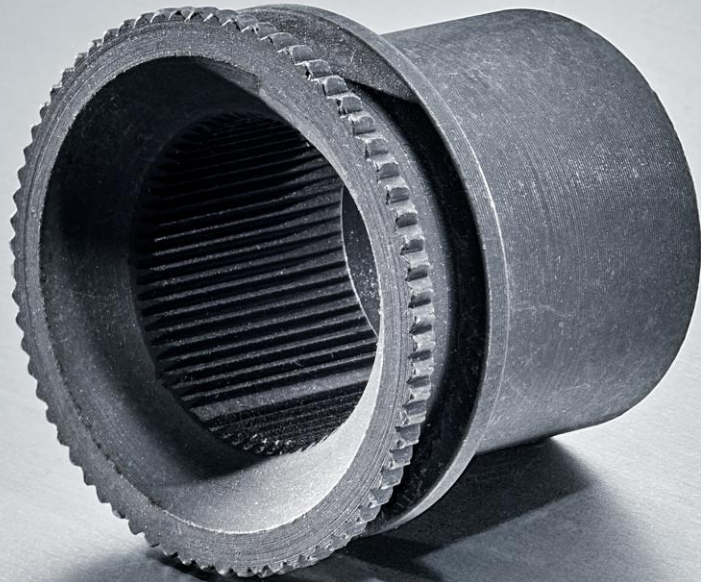


**NUTS**

OUR

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# CUSTOM-MADE PRODUCTS



- Custom elements or kits are developed when standard parts are not sufficient
- Technical teams create corresponding plans
- Custom-made products are produced according to drawing specifications

OUR

# STANDARD PARTS



**Hexagon head bolts**  
DIN 931/933, 960/961, 561ff.  
ISO 4014, 4017, 8765, 8676



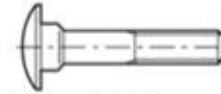
**Hexagon socket head cap**  
DIN 912, 6912, 7984, 7991  
ISO 4762, 10642



**Hexagon fit bolts**  
DIN 609, 610  
ISO 7379



**Wing screws**  
DIN 316  
**capstan screws**  
DIN 404



**Lifting eye bolts**  
DIN 580



**Flat countersunk square neck bolts, with short square**  
DIN 608  
**Anchor bolt**  
DIN 797



**Hexagon socket set screws**  
DIN 417, 427, 438, 551-553,  
913-916, 6332  
ISO 2342, 7434-7436, 4026-  
4029



**Stud bolts**  
DIN 835, 938, 939, 975, 976,  
2510, 2610



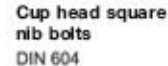
**Slotted and Phillips screws**  
DIN 84, 85, 920-927, 963-  
966, 7985  
ISO 1207, 1580, 2009, 2010,  
7045-7047



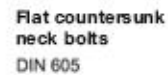
**Weld-on ends**  
DIN 525



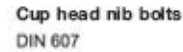
**Masonry bolts**  
DIN 529



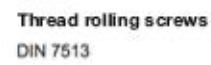
**Cup head square neck bolts**  
DIN 603  
**Cup head square rib bolts**  
DIN 604



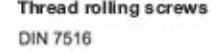
**Flat countersunk neck bolts**  
DIN 605



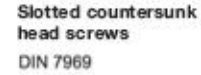
**Cup head rib bolts**  
DIN 607



**Thread rolling screws**  
DIN 7513



**Thread rolling screws**  
DIN 7516



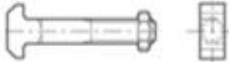
**Slotted countersunk head screws**  
DIN 7969



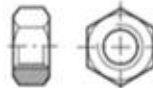
**Drilling screws with tapping screw head**  
DIN 7971-7976, 7981-7983  
ISO 1479-1483, 7049-7051



**Square head bolts**  
DIN 478, 479, 480



**T-head bolts with square neck**  
DIN 186, 188, 261



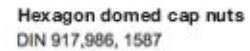
**Hexagon nuts**  
DIN 431, 439, 934, 936,  
2510, 6330, 6331, 6334,  
6915, 6923, 14399  
ISO 4035, 4032, 8673



**Lock nuts**  
DIN 980, 982, 985, 6925,  
7967  
ISO 7042, 7040, 10511  
Work standard  
BN 205107, VARGAL



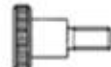
**Square nuts**  
DIN 557, 562



**Hexagon domed cap nuts**  
DIN 917, 986, 1587



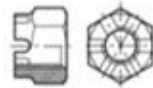
**Lock screws**  
e.g. Tensilock, rib screws



**screws according to drawing**  
Reworked standard parts



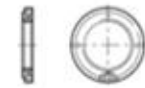
**socket screw plugs**  
DIN 906-910, 7604



**Hexagon slotted and castle nuts**  
DIN 935, 937, 979



**Weld nuts and Wing nuts**



**Two-hole nuts and Round nuts with set pin holes inside**

OUR

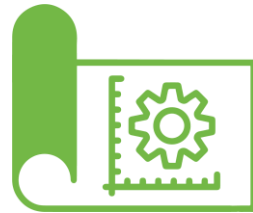
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# COMPETENCIES



## PRODUCTION

Manufacturing with technical excellence and top quality



## PROTOTYPING

Prototype and small batch model development



## SUPPLY CHAIN MANAGEMENT

KANBAN systems ensure continuous material availability



## WORLDWIDE

Global sourcing based on economic, environmental and social criteria



## ENGINEERING

Maximising process efficiency for serial manufacturing



## COATING

Surface coatings for every requirement



## SOURCING

Fast, flexible and cost-effective through strategic resource management



## QUALITY

Top-tier requirements for materials, products, and processes

OUR

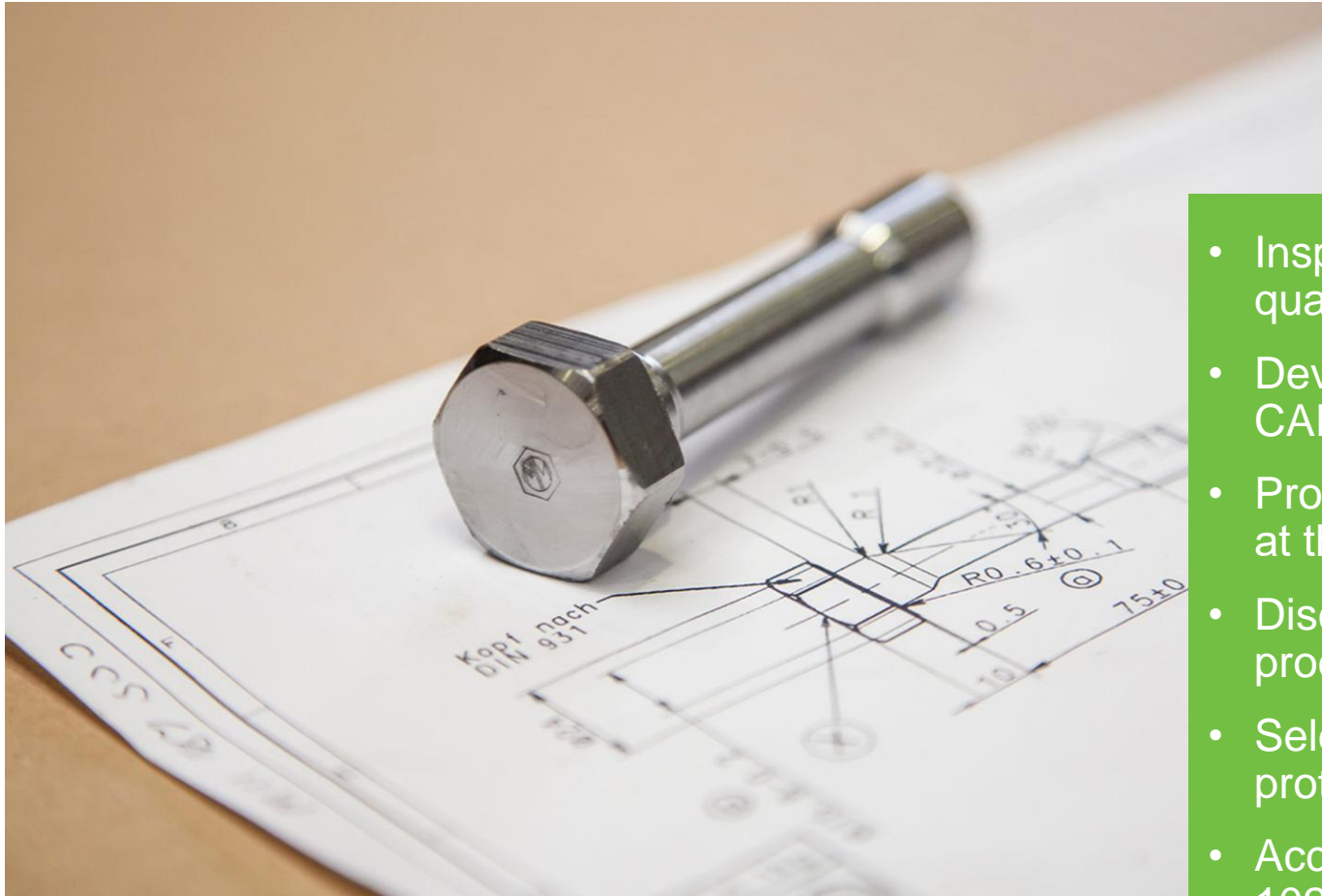
# MANUFACTURING



- Cost efficiency through variable production processes within the Max Mothes Group
- Smooth, quality-assured production of small, medium, and large series for various applications
- Modern machine fleet with continuously increasing automation
- Short lead times due to a large raw material warehouse
- Quality assurance through certified European suppliers and 3.1 certificates

OUR

# PROTOTYPING



- Inspection of certified raw materials according to our quality guidelines
- Development of prototypes or small series based on CAD drawings
- Provision of parts for testing purposes or simulations at the customer's site
- Discussion of all necessary steps towards series production readiness (In-house consulting)
- Selection of the optimal surface treatment for prototypes
- Acceptance inspection according to 3.1 as per EN 10204 or externally by, for example, TÜV

OUR

# SUPPLYCHAINMANAGEMENT



- On-time delivery of required C-parts in the correct quantity
- KANBAN systems for customized, automated material flow
- Stocking of 90,000 standard parts and 100,000 customer-specific items
- Express service for urgent deliveries

WE ARE

# PLAYING GLOBALLY



- MAX MOTHES proactively leverages the opportunities of growing globalization
- We have the best global sourcing options for our raw materials and select products
- Our production sites in Germany, Türkiye, China, the USA, and Taiwan ensure proximity to customers worldwide
- With efficient logistics systems, we deliver quickly and flexibly across the globe

OUR

# ENGINEERING



Our specialized screw engineering experts provide targeted, application-oriented advice in the areas of Product development

- Product development
- Standardization
- Screw fastening methods
- Corrosion protection
- Surface treatment

OUR

# COATING



- Corrosion Protection: Phosphating, Zinc Plating, Zinc-Iron Coating, Zinc-Nickel Coating
- Thread Locking: Adhesive Thread Locking, Clamping Seals
- Heat Treatment: Hardening, Bluing, Nitriding, Carburizing, Annealing
- Fine Processing of Precious Workpieces: Grinding, Honing, Lapping, Etching, Electropolishing
- Plastic Coatings: High-performance, Heavy-duty Corrosion Protection
- Coloring: Powder Coating, Cathodic Dip Coating, Painting

OUR

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# SOURCING



- We prioritize sourcing from partners within our network and primarily purchase fasteners locally near production sites.
- Max Mothes is open to global suppliers, provided they meet quality, economic, and logistical criteria.
- Certification according to ISO 9001 and IATF 16949 is a fundamental requirement for this.

OUR

# QUALITY



- All units are regularly certified.
- We ensure the efficiency and quality of our processes using CASQ-it software.
- In production, we test the materials used and manufacture products with our own fixtures or through accredited testing laboratories.
- Our extensive in-house testing capabilities include 1,400 different test and measuring instruments for dimensional and gauge durability checks, a 2D profile projector, hardness testers, tensile testing machines, spectral analysis devices for alloy verification, contour measuring devices, roundness testers, and salt spray testing equipment.

OUR

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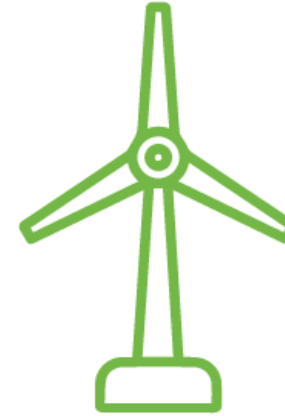
# INDUSTRIES



**AUTOMOTIVE**



**MECHANICAL AND  
PLANT ENGINEERING**



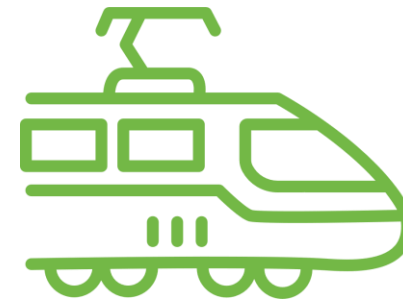
**ENERGY TECHNOLOGY**



**CONSTRUCTION AND  
AGRICULTURAL MACHINERY**



**COMMERCIAL  
VEHICLES**



**RAILWAY TECHNOLOGY**

SECTOR

# AUTOMOTIVE



- In-house prototype manufacturing
- Large and small series production in all manufacturing processes
- Global sourcing through our strong and reliable partner network
- Global supply chain



SECTOR

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# MECHANICAL AND PLANT ENGINEERING



- Parts up to M150 always available from stock
- Process and component optimization through in-house consulting with out application engineers
- Flexible KANBAN systems
- Large and small series production



SECTOR

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# ENERGY TECHNOLOGY



- Large dimensions available
- Customized kit packaging for direct delivery to the job site
- Large and small series production
- Stud bolts, bushings, nuts





SECTOR

# CONSTRUCTION AND AGRICULTURAL MACHINERY



- In-house prototype manufacturing
- Large and small series production in all manufacturing processes
- Process and component optimization through in-house consulting with our application engineers



SECTOR

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# COMMERCIAL VEHICLES



- Coatings and strength classes for secure connections in high-load applications
- C-parts management
- Efficient systems for thread locking



SECTOR

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# RAILWAY TECHNOLOGY



- High-security parts
- Process and component optimization through in-house consulting with our application engineers
- Coatings and strength classes for secure mechanical connections in high-load applications
- All common acceptance procedures



OUR

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# SUSTAINABILITY STRATEGY



**ENVIRONMENTAL  
PROTECTION**

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**SOCIAL RESPONSIBILITY**

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**VALUE CREATION**

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OUR

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# ENVIRONMENTAL PROTECTION



- Investments in energy-efficient technologies and processes
- Reduced our energy consumption by 20% in 2023
- Hazardous waste has been minimized
- 100% ecological, climate-friendly energie
- Water reuse system preserves local resources

OUR

# SOCIAL RESPONSIBILITY



- Flexible working hours
- Enhanced opportunities for working from home
- Training to raise awareness for mindful and thoughtful actions
- Commitment for local community projects and organizations that focus on education, health and social initiatives

OUR

# ADDED VALUE



- Increase efficiency in production and logistics. This reduces our costs and enhances our competitiveness.
- Increased revenue by entering new markets and developing new products
- Long-term investments in research and development



# MAX MOTHES

einfach verbinden

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