

**KONIG METALL GT**

# **KONIG METALL GT**

**Innovation in metal  
components for mobility**

**Technical presentation**

**Reference partner for steel solutions  
for the automotive and industrial sectors**



## What we do

Precision metal components  
for the automotive industry:

- **Perforated tubes**
- **Bent tubes**
- **Shaped tubes**
- **Stamped components**
- **Brackets**
- **Welded assemblies**

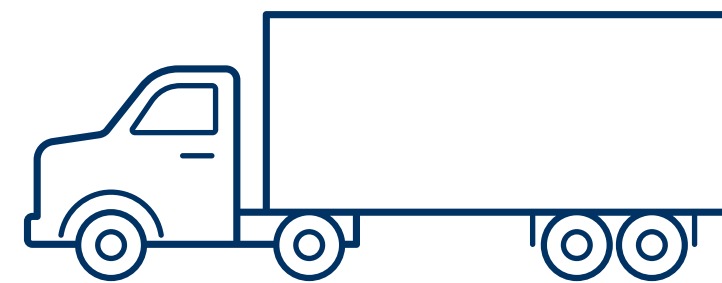
# Sectors and customers

## Components for:

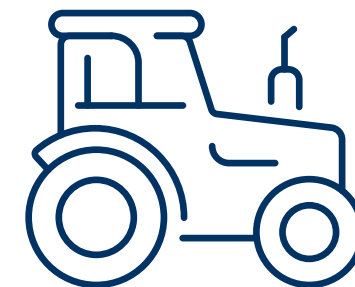
Passenger vehicles



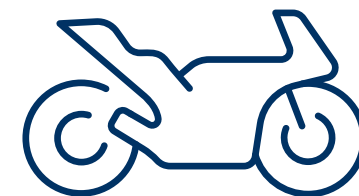
Heavy vehicles



Agricultural sector



Motorcycles



## A strategic partner for Tier1 suppliers and OEMs

FORVIA  
faurecia

MARELLI



TENNECO

PUREM  
by Eberspächer

bosal

Cornaglia  
Group

REMUS  
PERFORMANCE SPORT EXHAUSTS

PROVENTIA

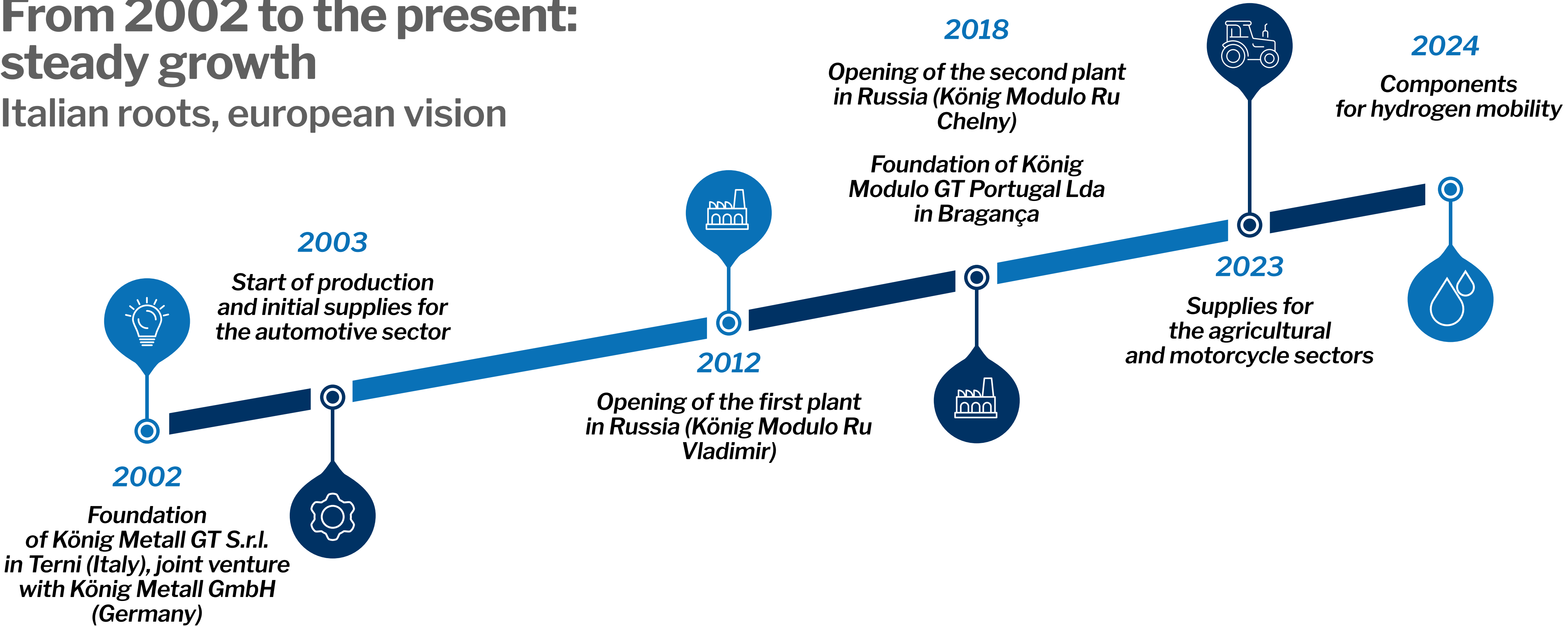
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# Company history

## From 2002 to the present: steady growth

Italian roots, european vision



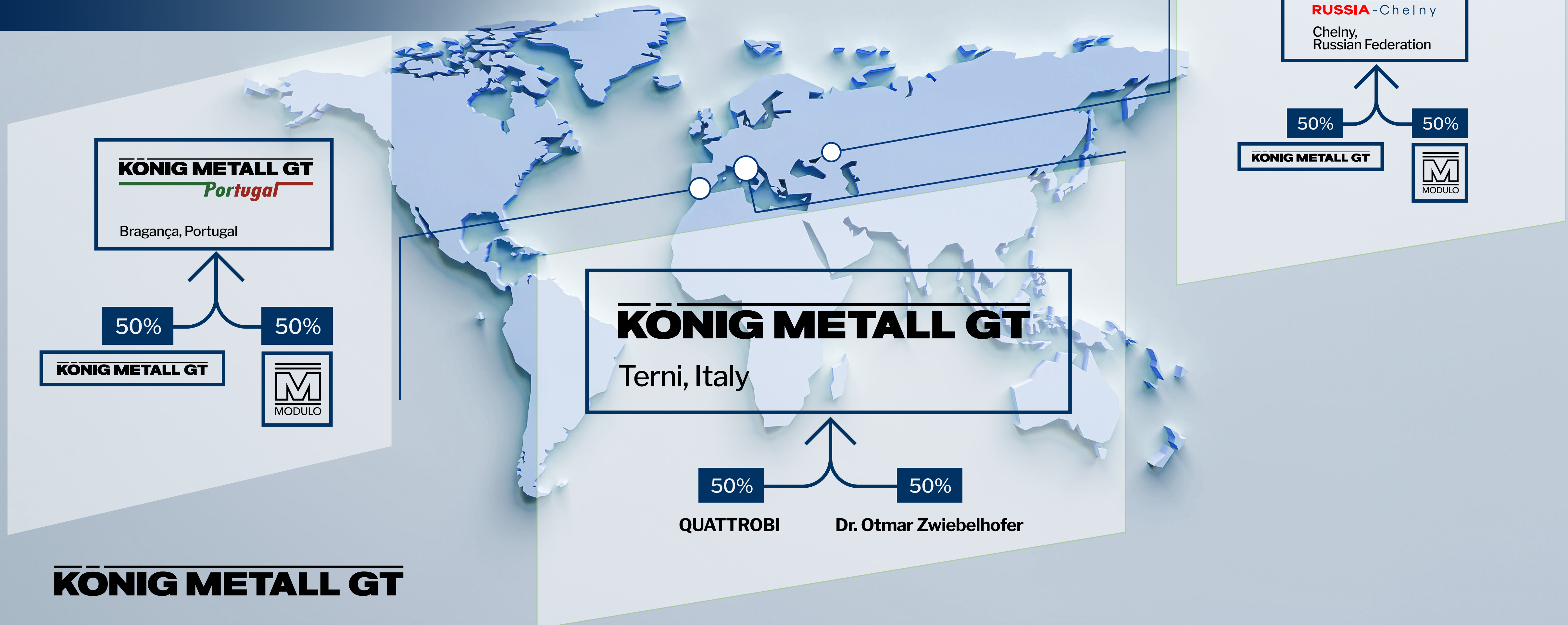
# The König Metall Group

An international industrial network:



# The König Metall Group

An international industrial network:



# Strategic Territory

## Terni and the Steel Valley

### *Direct access to raw materials:*

proximity to suppliers and steel processing centers

### *Industrial ecosystem:*

high concentration of mechanical, metallurgical, and plant engineering companies

### *Logistic advantages:*

efficient transport, reduced lead times, sustainability

### *Local expertise:*

highly qualified personnel in the metallurgical sector

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Where and how we produce

## Production Site - Terni

- Strategic position near stainless steel suppliers in Terni
- 3 shifts per day
- 60,000 components per day for the automotive sector

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# Raw Materials

## Certified stainless steels quality control from the base

### *Austenitic stainless steels*

AISI  
1.4301  
1.4828  
1.4401  
1.4541  
Inconel

### *Ferritic stainless steels*

AISI  
1.4512  
1.4510  
1.4509  
1.4513

### *Tube diameter*

Perforated tubes:  
from Ø35 mm  
to Ø140 mm  
Bent tubes:  
from Ø30 mm  
to Ø100 mm  
Brackets:  
from Ø4 mm  
to Ø15 mm

### *Tube thickness*

Tubes:  
from 0.4 mm  
to 2.0 mm  
Brackets:  
from 1.5 mm  
to 2.0 mm

### *Rolled products*

Maximum width:  
300 mm  
Maximum thickness:  
1.5 mm

# Tube production flow

## From cutting to perforation:



Legend

Semi-finished product ● Finished product ●

# Bracket production flow

## From flat coils and tubes to finished brackets:



# Product Examples

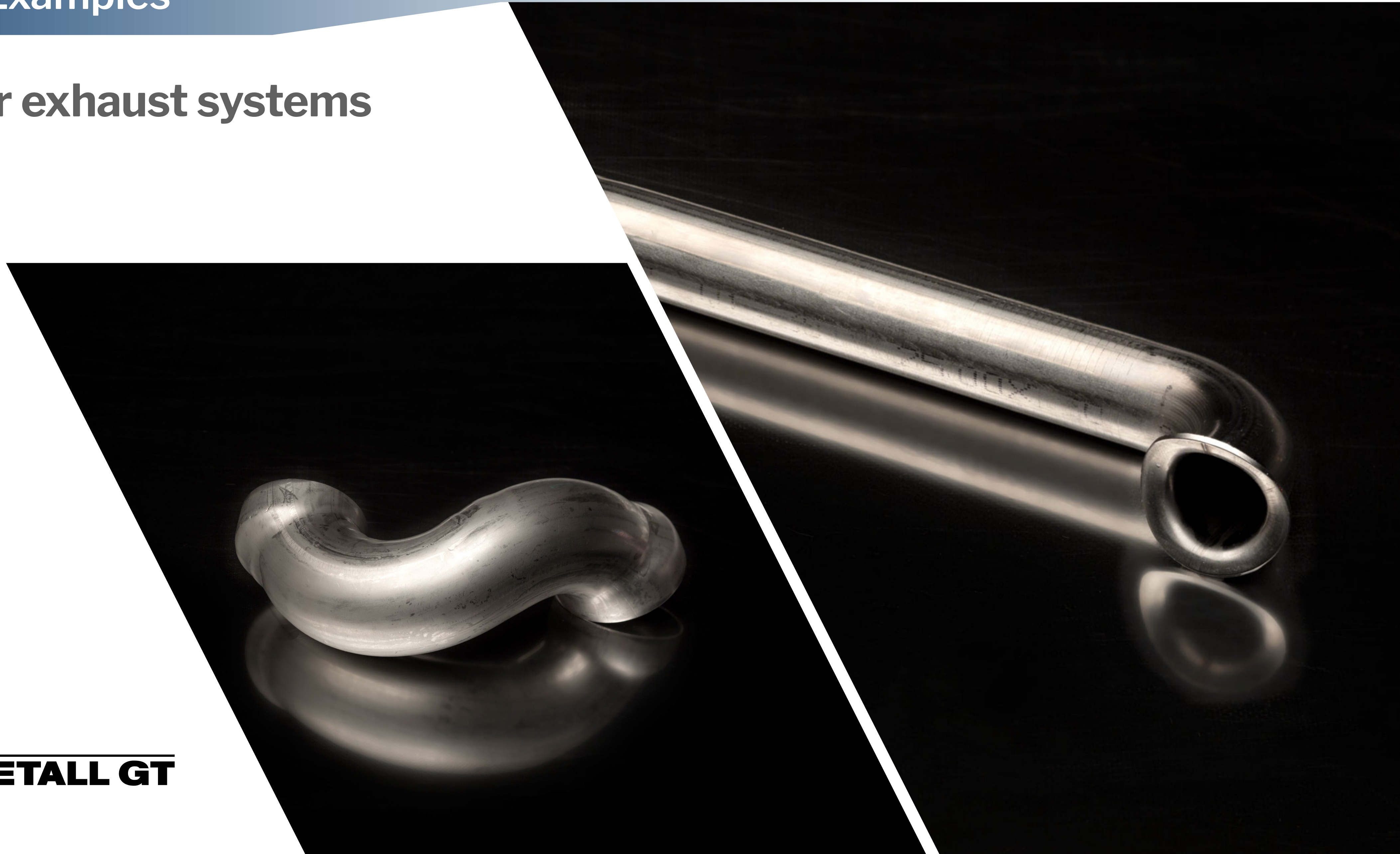
## Tubes for silencers



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# Product Examples

## Tubes for exhaust systems



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## Key Technologies

### Automation at the core of production

- 8 automatic tube perforation lines
- 8 tube bending cells
- 1 3D laser cutting station
- 5 automatic forming and bending lines for brackets
- 3 robotized welding islands
- 1 press for sheet metal stamping

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# Tube Perforation

**8 automatic lines ensuring precision, speed, and flexibility**

- 6 lines for tubes up to 1100 mm
- 2 lines for tubes up to 1500 mm
- 2 manual machines for prototypes and small batches
- Electronic feed, quick tool change, control sensors
- 1 line for tubes up to Ø 140 mm diameter

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# Tube bending cells

**8 bending cells  
for diameters Ø40–Ø100 mm**

- 4 BLM + 4 Schwarze Robitec machines
- 3D CNC-controlled bending
- Integrated drilling center
- Tube forming area

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# 3D Laser Cutting Station

## 3D laser cutting

Geometrical precision  
and maximum design freedom

- Laser cutting on curved and angular surfaces
- Ideal for shaped tubes and complex brackets
- Integrated 3D CAD system
- Reduced tooling time for small series

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# Robotized welding

## 3 robotic welding cells

Consistent reliability in every production cycle

- 2 Panasonic V-type robots
- 1 Motoman 6-axis robot with 2000 mm H/H table
- High-speed MIG welding with SKS system
- “Poka Yoke” system for safety and traceability



# Sheet metal stamping press

## Precision stamping on stainless steel coils

- 130-ton press, up to 90 strokes/min
- Automatic coil feeding (max width 300 mm)
- Feeding accuracy:  $\pm 0.05$  mm

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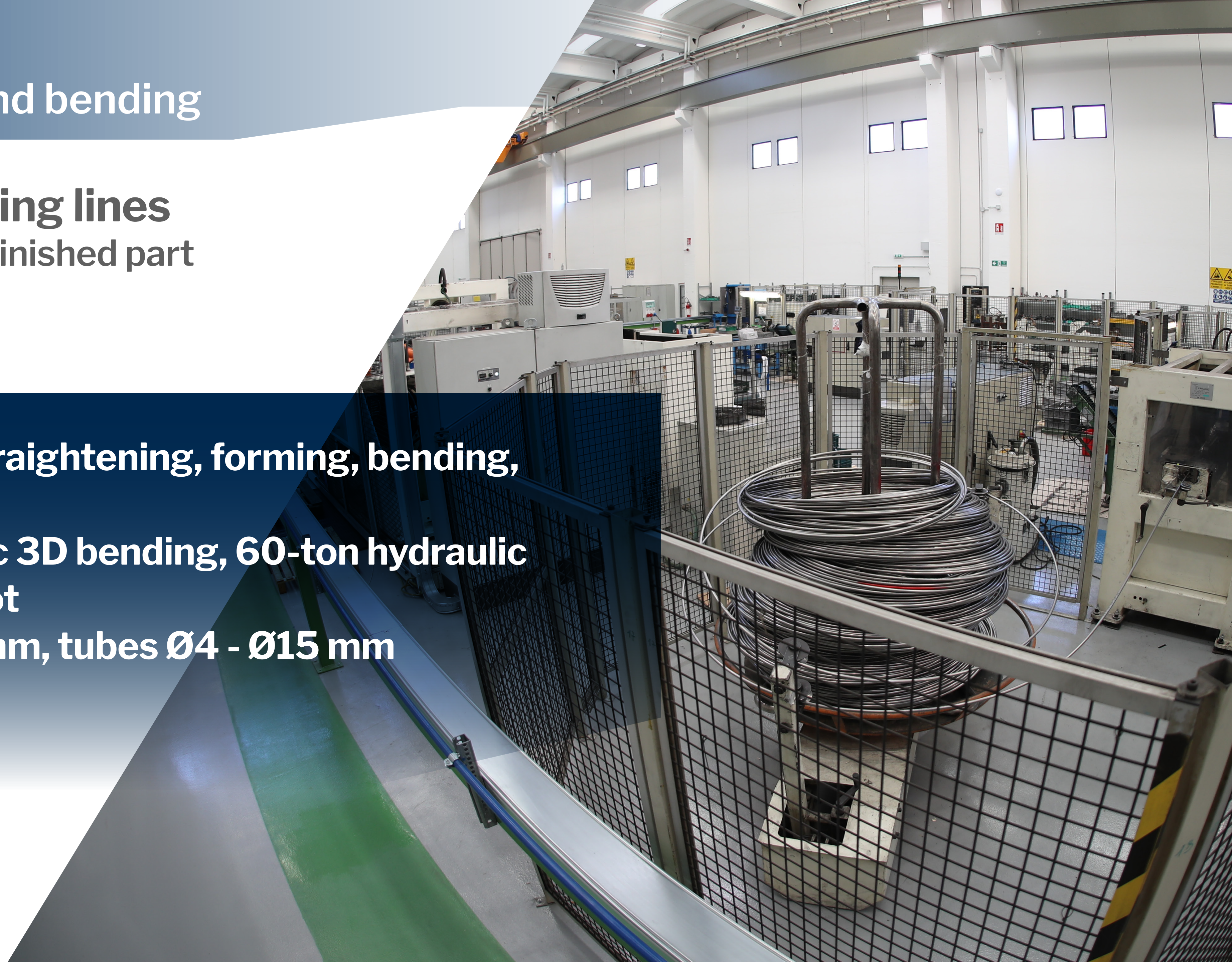


# Bracket forming and bending

## 5 automatic forming lines

From raw material to finished part  
in a single process

- Wire or tube: straightening, forming, bending, cutting, drilling
- Includes electric 3D bending, 60-ton hydraulic press, ABB robot
- Wire  $\text{\O}4$  -  $\text{\O}12$  mm, tubes  $\text{\O}4$  -  $\text{\O}15$  mm



## Integrated Raw Material Partnership

5 production lines for stainless steel tubes with laser welding.

Flexible production for small and large diameters

- Diameters Ø8 - Ø80 mm
- Thickness 0.4 - 2 mm



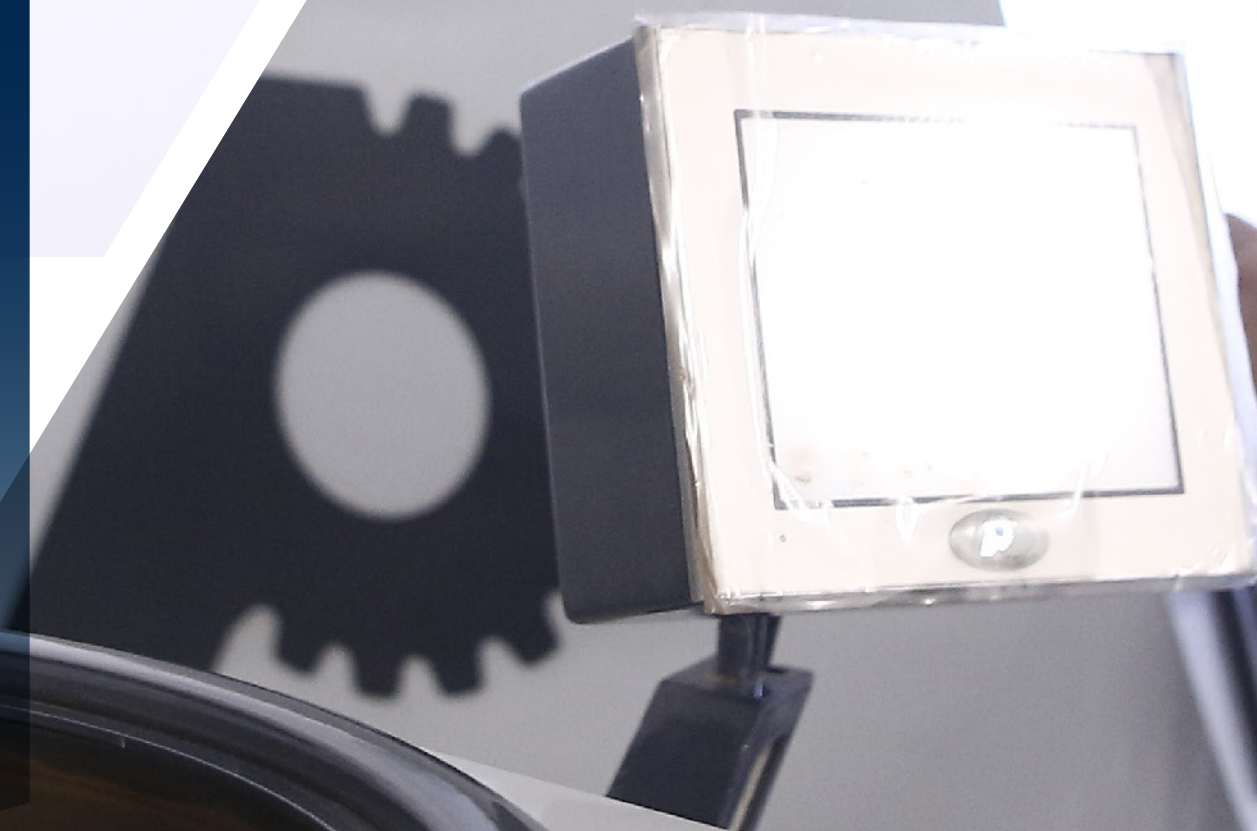
Laboratory & quality

## Metrological control and welding tests

IATF, ISO, and VDA standards

- 3D measurement room
- LED scanners
- Profilometers
- Micrographic microscopes

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# Certifications

## International reference standards Quality and Environment under control





Building trust together.

### Certificate

CISQ/IGQ has issued an IQNET recognized certificate that the organization:

**Koenig Metall GT Srl**

Via Luigi Casale, 6  
05100 Terni TR - IT

has implemented and maintains a Quality Management System for the following scope:  
Production of steel components for automotive (Light Personal Vehicles) and truck (Heavy & Medium Commercial Vehicles)

which fulfils the requirements of the following standard:  
**ISO 9001:2015**

Issued on: 2024-05-16  
First issued on: 2004-03-31  
Expires on: 2027-05-15  
Registration Number:  
IT - 20909 IGQ 2E12

  
**Alex Stoichitoiu**  
President of IQNET

  
**Mario Romersi**  
President of CISQ



This attestation is directly linked to the IQNET Member's original certificate and shall not be used as a stand-alone document.

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CISQ is a member of



### CERTIFICATO CERTIFICATE IGQ A2H05

Si certifica che il sistema di gestione ambientale di:  
*We hereby certify that the environmental management system operated by:*

**Koenig Metall GT Srl**

Via Luigi Casale, 6 e 10  
05100 Terni TR - IT

è conforme alla norma:  
*is in compliance with the standard:*

**UNI EN ISO 14001:2015**

per le seguenti attività:  
*for the following activities:*

IAF: 17

Produzione di componenti in acciaio, inossidabile e non per il settore automotive, realizzati mediante i processi di perforazione taglio, piegatura, sagomatura e deformazione, stampaggio, saldatura e lavaggio

Production of steel components, stainless and not for the automotive sector, realized through the processes of drilling, cutting, bending, shaping and deformation, molding, welding and washing

prima emissione: 2007-12-20

emissione corrente: 2022-12-31

data di scadenza: 2025-12-31

valid until: 2025-12-31

Data ultima revisione: / Last revision date: 2022-12-31

  
 Il Direttore  
**Roberto Pieroncini**

Certificazione rilasciata in conformità al Regolamento Tecnico ACCREDIA RT-09

IGQ - Via Giosuè Carducci 125/A - 20099 Sesto San Giovanni (MI) - Italy  
[www.igq.it](http://www.igq.it) - [info@igq.it](mailto:info@igq.it)








CISQ AUTOMOTIVE  
Consorzio di Organismi di Certificazione Italiani dei sistemi di gestione aziendale accreditato IATF

### CERTIFICATO CERTIFICATE IGQ 2E12

Si certifica che il sistema di gestione qualità di:  
*We hereby certify that the quality management system operated by:*

**Koenig Metall GT Srl**

USI: YHN5Y3 - Via Luigi Casale, 6  
05100 Terni TR - IT

è conforme alla norma e ai requisiti dello schema:  
*is in compliance with the standard and the scheme requirements:*

**IATF 16949:2016**

per le seguenti attività:  
*for the following activities:*

IAF: 17

Produzione di componenti in acciaio per il settore automotive (Light Personal Vehicles) e truck (Heavy & Medium Commercial Vehicles)

Production of steel components for automotive (Light Personal Vehicles) and truck (Heavy & Medium Commercial Vehicles)

Essendo stato valutato in accordo alle "Regole per lo schema di certificazione IATF 16949 - Quinta edizione"  
Having been assessed in accordance with "IATF 16949 certification scheme rules - Fifth edition"  
Esclusioni ammesse/permitted exclusions per 8.3 Product Design

emissione corrente:  
last issued on: 2024-05-16

data di scadenza:  
valid until: 2027-05-15

  
 IGQ  
 Via Giosuè Carducci 125/A  
 20099 Sesto San Giovanni (MI)  
[www.igq.it](http://www.igq.it)




Per informazioni sulla validità del Certificato, visitare il sito [www.iatfglobaloversight.org](http://www.iatfglobaloversight.org)  
For information concerning the validity of the certificate, you can visit the site [www.iatfglobaloversight.org](http://www.iatfglobaloversight.org)

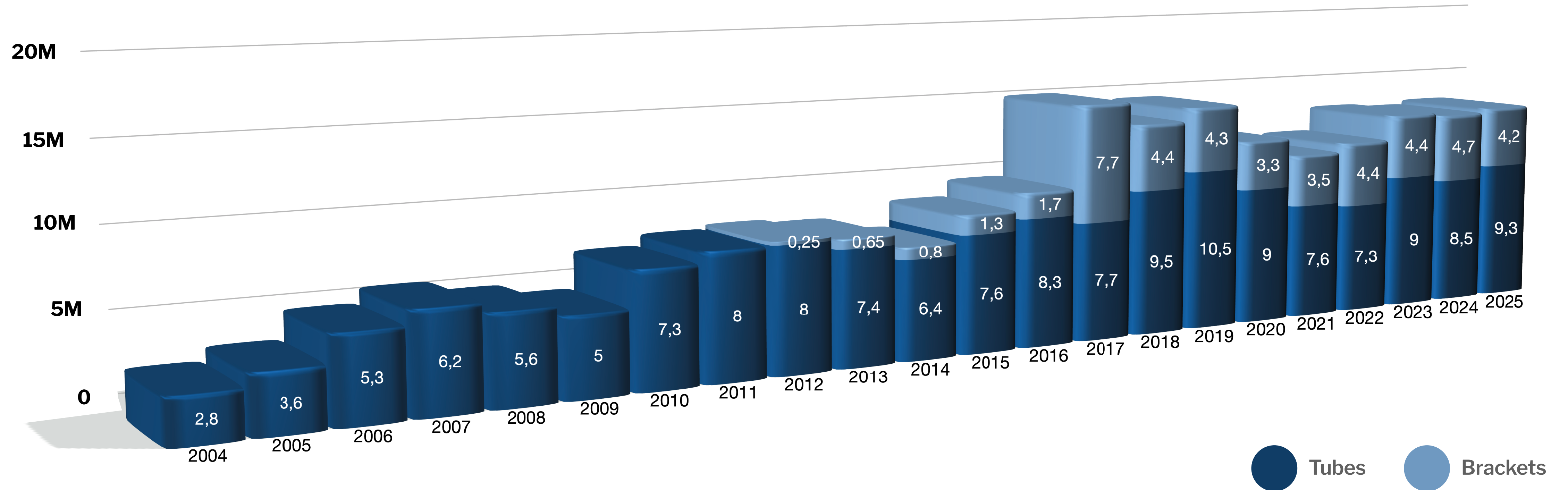


Certificato IATF N° **0517172**  
IATF Certificate N°

# KÖNIG METALL GT

# Production volumes

**Constantly growing output**  
60,000 pieces/day shipped  
over 15 million per year



## Why choose us

### Our competitive advantages: Competence, flexibility, technology

- German know-how, Italian creativity
- Customized solutions
- Full process control
- Coordinated and skilled team

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