

KONIG METALL GT

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**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**

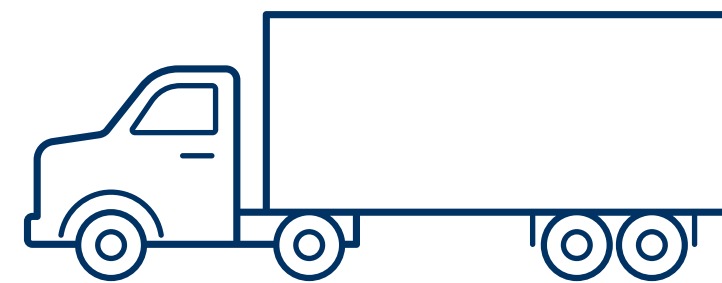
Sectors and customers

Components for:

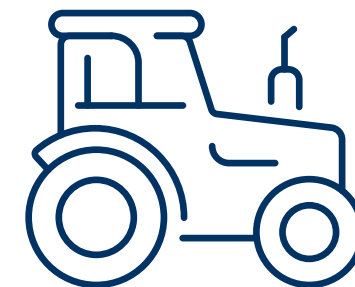
Passenger vehicles



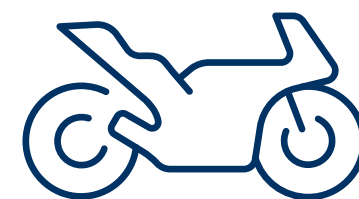
Heavy vehicles



Agricultural sector



Motorcycles



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A strategic partner for Tier1 suppliers and OEMs

FORVIA
faurecia

MARELLI



TENNECO

PUREM
by Eberspächer

bosal

Cornaglia
Group

REMUS
PERFORMANCE SPORT EXHAUSTS

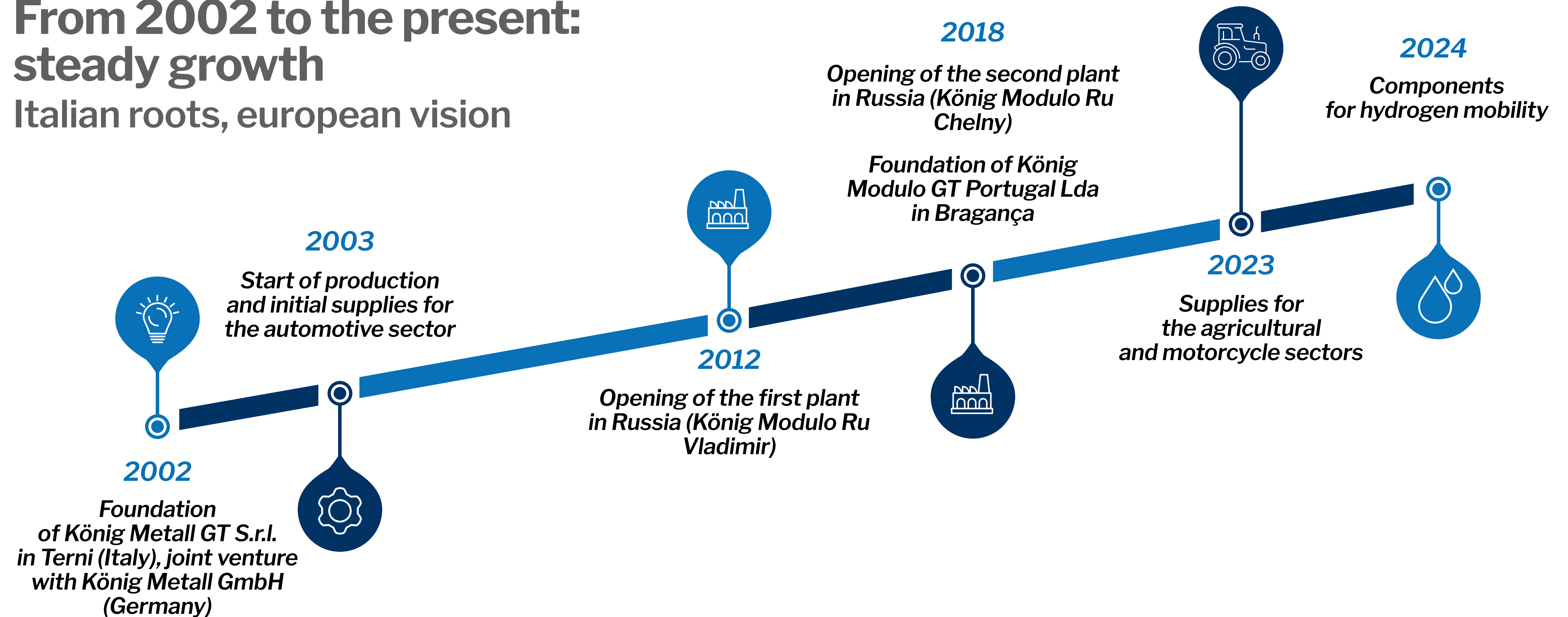
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Company history

From 2002 to the present: steady growth

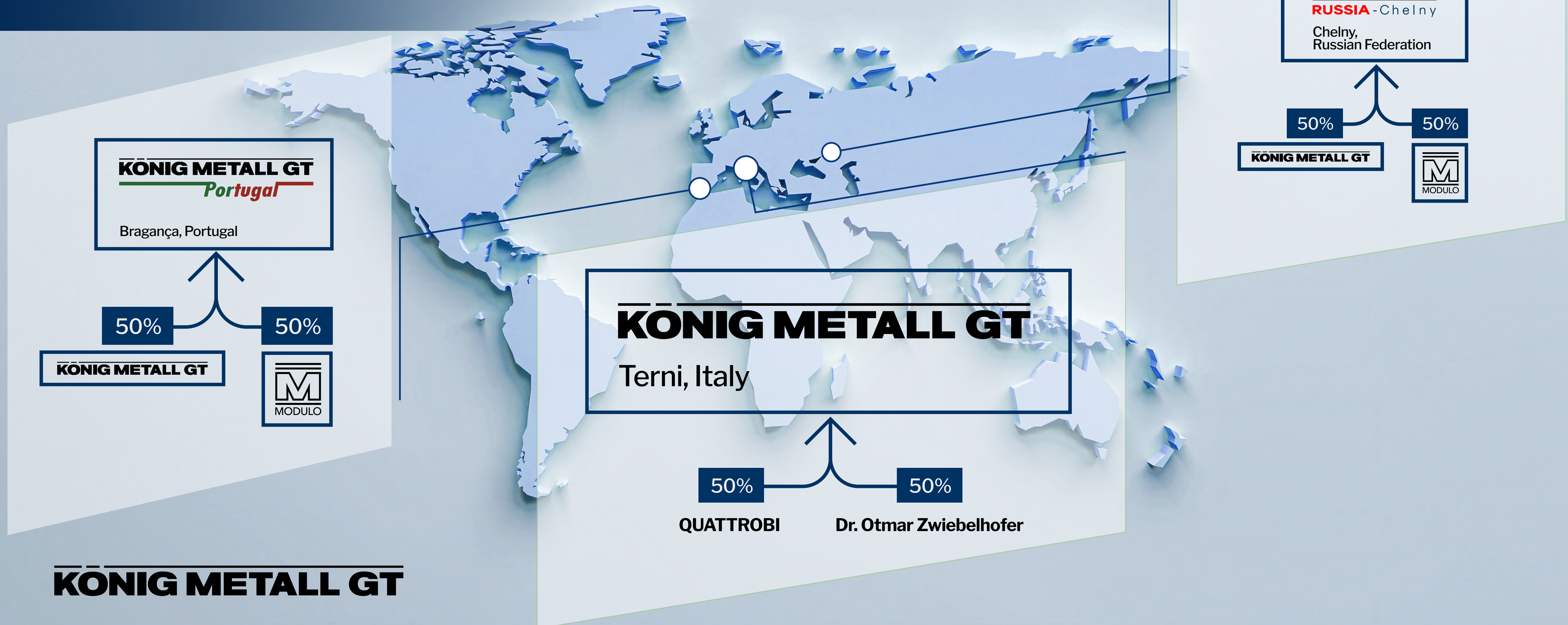
Italian roots, european vision



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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:

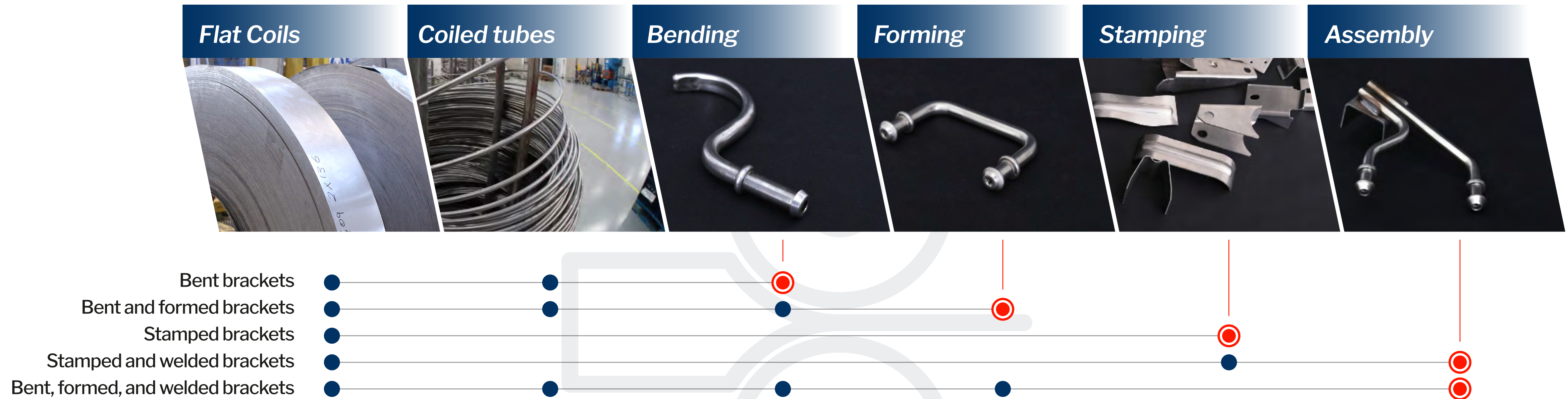


Legend

Semi-finished product ● Finished product ●

Bracket production flow

From flat coils and tubes to finished brackets:



Product Examples

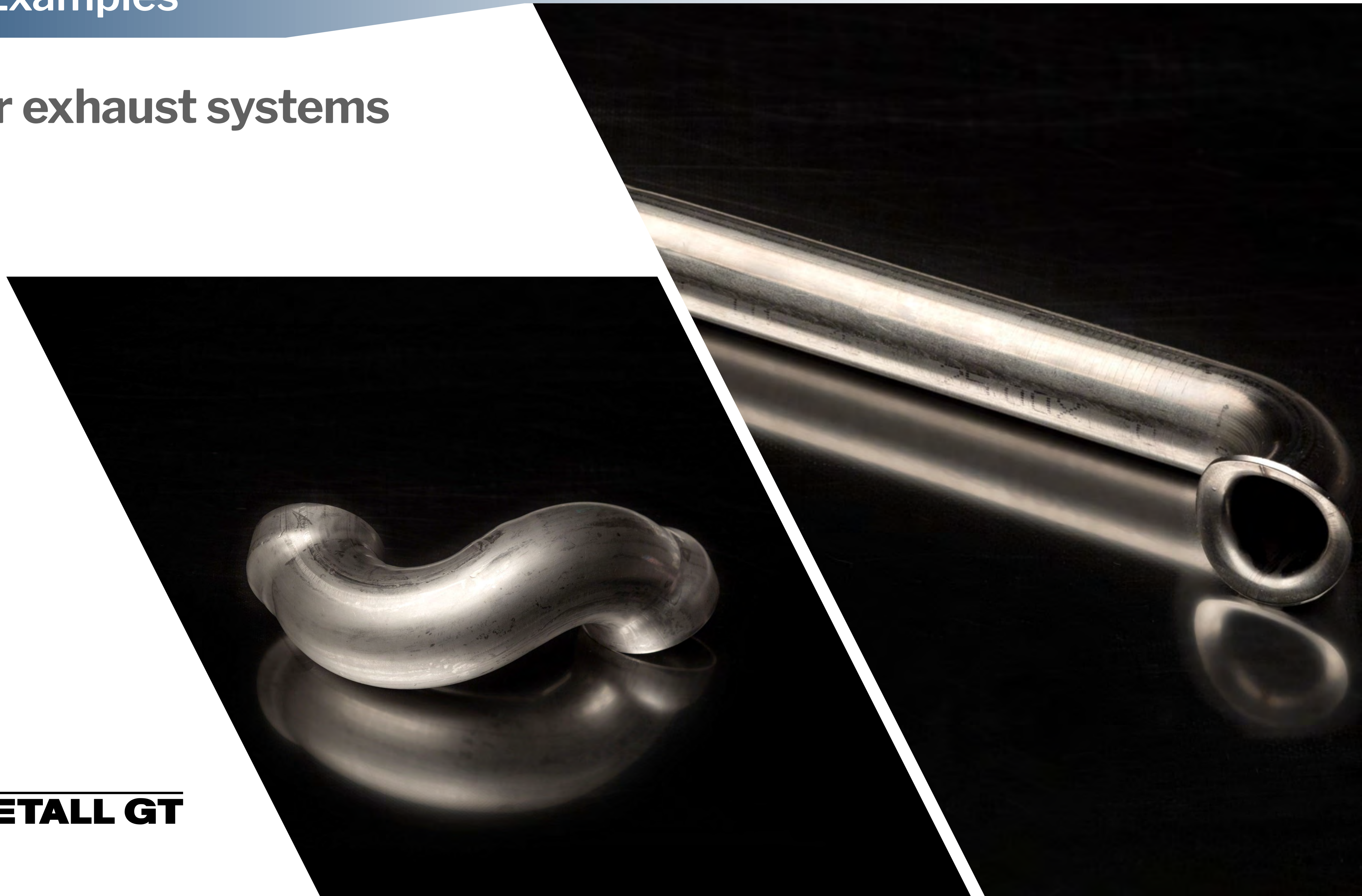
Tubes for silencers



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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

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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: ± 0.05 mm

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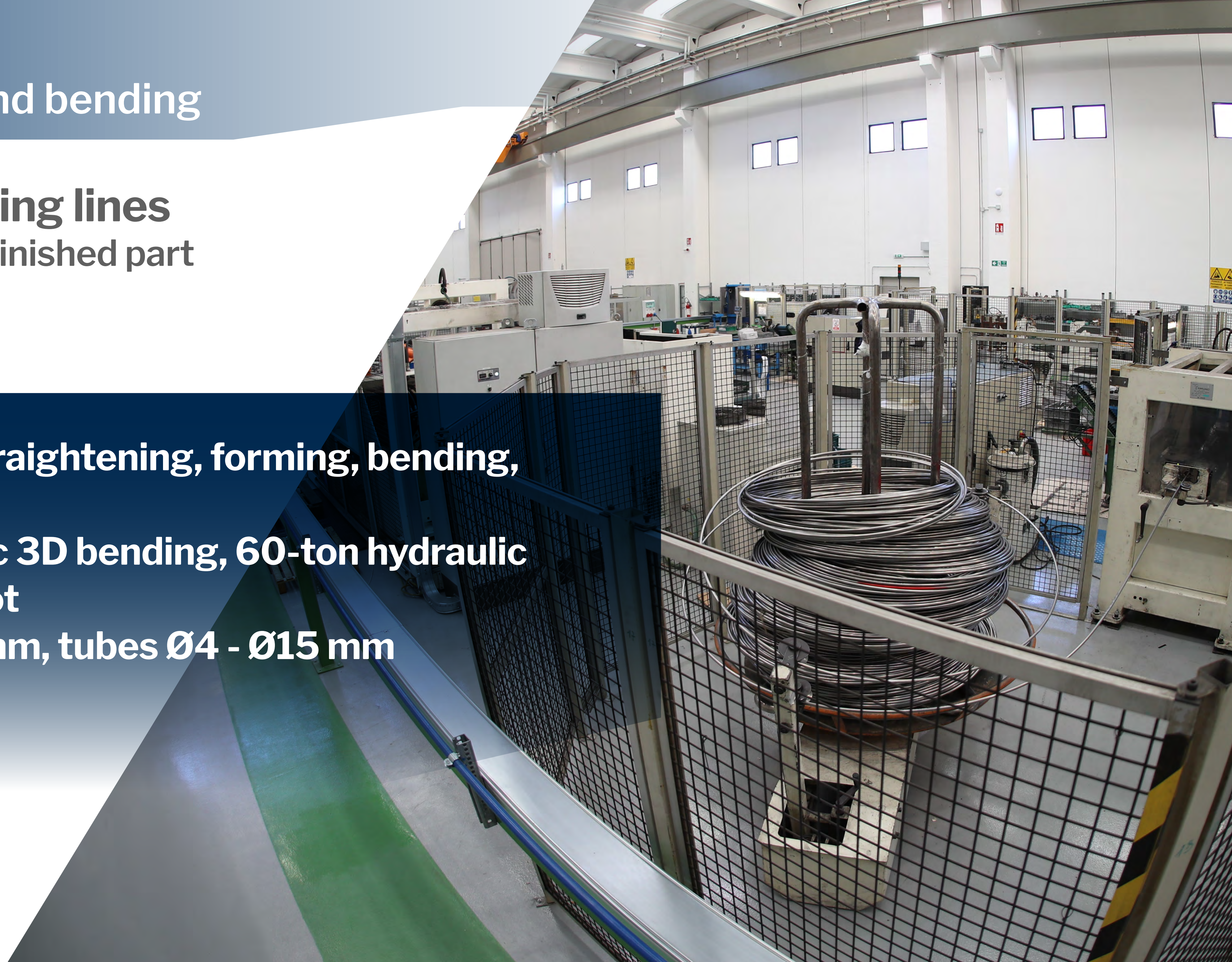


Bracket forming and bending

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



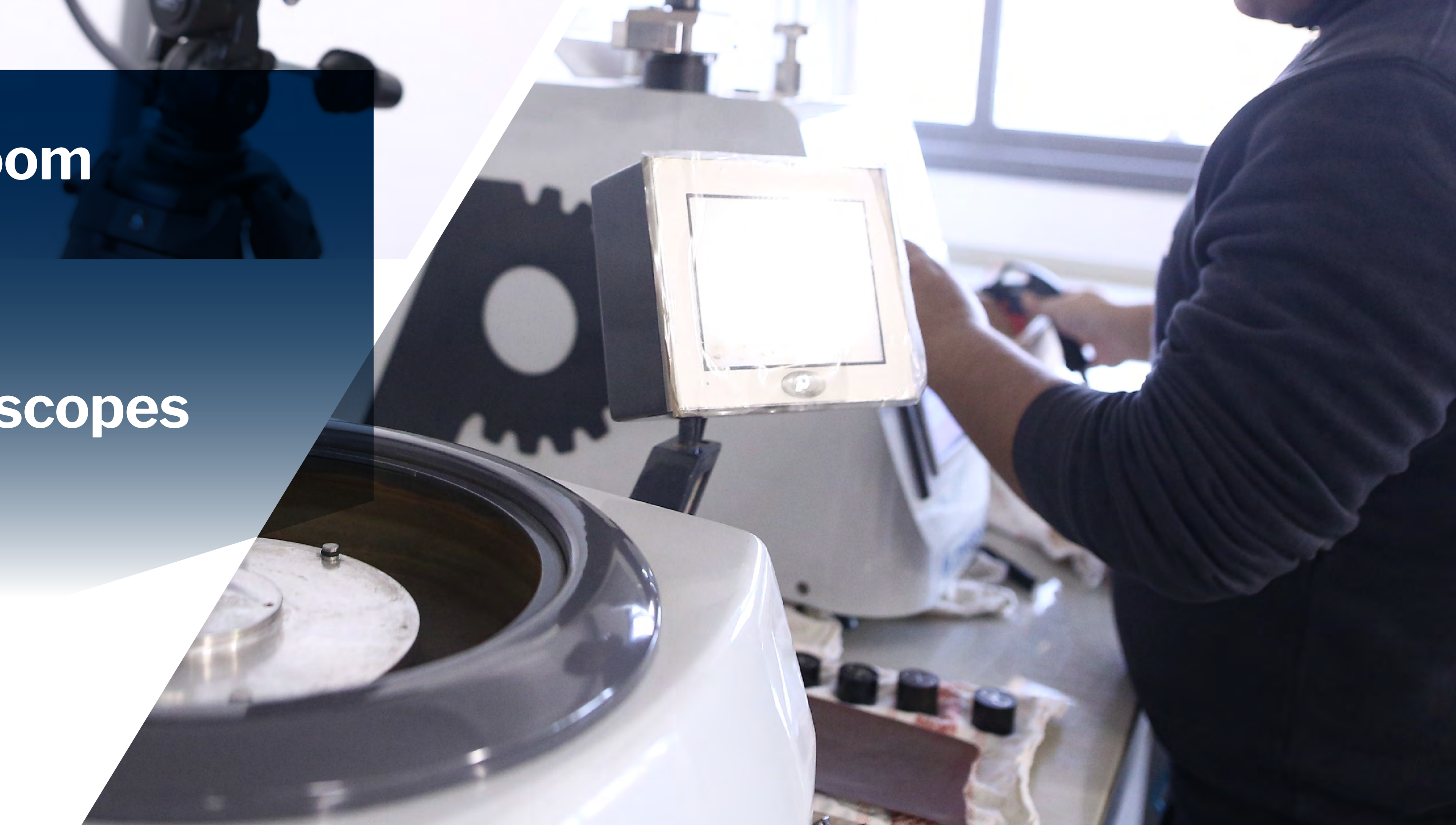
Laboratory & quality

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 Romersl
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 

IGQ

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 - info@igq.it

 **ACCREDITED**

 **MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT**

 **SGA N° 015D**
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

 **CISQ**
www.cisq.com

CISQ è la Federazione Italiana di Organismi di Certificazione per sistemi di gestione aziendale. CISQ è la Federazione Italiana di Organismi di Certificazione per sistemi di gestione aziendale. CISQ è la Federazione Italiana di Organismi di Certificazione per sistemi di gestione aziendale.



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

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


IGQ
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20099 Sesto San Giovanni (MI)
www.igq.it


CISQ AUTOMOTIVE
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www.cisqautomotive.it

Per informazioni sulla validità del Certificato, visitare il sito www.iatfglobaloversight.org
For information concerning the validity of the certificate, you can visit the site www.iatfglobaloversight.org

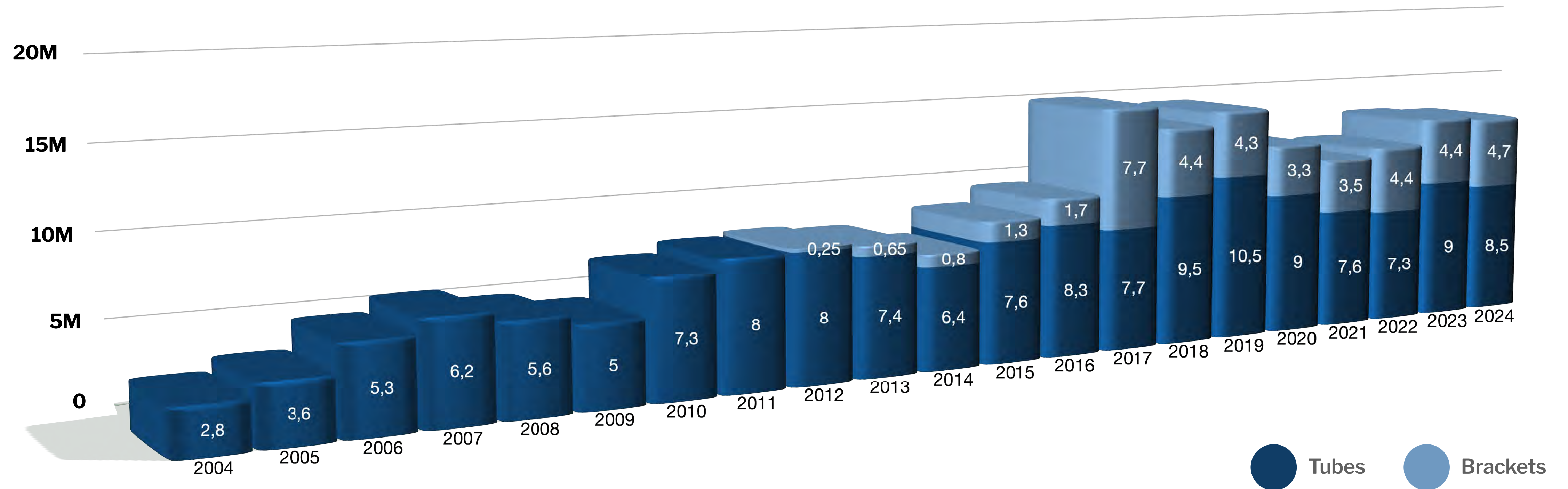


Certificato IATF N° 0517172
IATF Certificate N°

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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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