



Precision
Behind Every
Innovation

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Website



YOUR RELIABLE GLOBAL PARTNER FOR INNOVATIVE AUTOMOTIVE TUBES AND PARTS

EXHAUST SYSTEM PARTS

HEBEI CBIES AUTOMOTIVE PARTS CO., LTD.



PRECISION BEHIND EVERY INNOVATION

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COMPANY OVERVIEW



COMPANY PROFILE

CBIES: Rooted in China, Serving Global Markets

As a key member of Hebei Sinostar Group, CBIES has evolved from a precision tube manufacturer into a trusted partner with systematic development and delivery expertise since 2005. CBIES supports OEMs and Tier-1 suppliers by reducing total costs, accelerating development cycles, and ensuring a stable global supply through integrated manufacturing and automotive-grade quality systems.

Guided by our CBIES Trust Equation® [$\text{Reliability} \times \text{Expertise} \times \text{Agility} \div \text{Risk}$], we collaborate with innovators to deliver safer, smarter solutions for the new energy era, fueling sustainable growth worldwide.

Reliability

Stable quality and on-time delivery

Agility

Fast response and flexible capacity

Expertise

Automotive engineering and CAE compliance

Risk

Reduced through systems and full traceability

OUR MISSION

Driven by Human and Social Responsibility,
Pioneering Through Innovation



GLOBAL FOOTPRINT

Our offerings span multiple product categories, including Exhaust Systems, Cross Car Beams, Side Impact Beams, Seat Frames, and Battery Pack Brackets, with exports to Europe, North America, Southeast Asia, and beyond.



WHY CBIES

Our Difference

Building ethical, reliable, and long-term partnerships.



Our Partnership

Becoming co-innovation partners in the era of new energy.



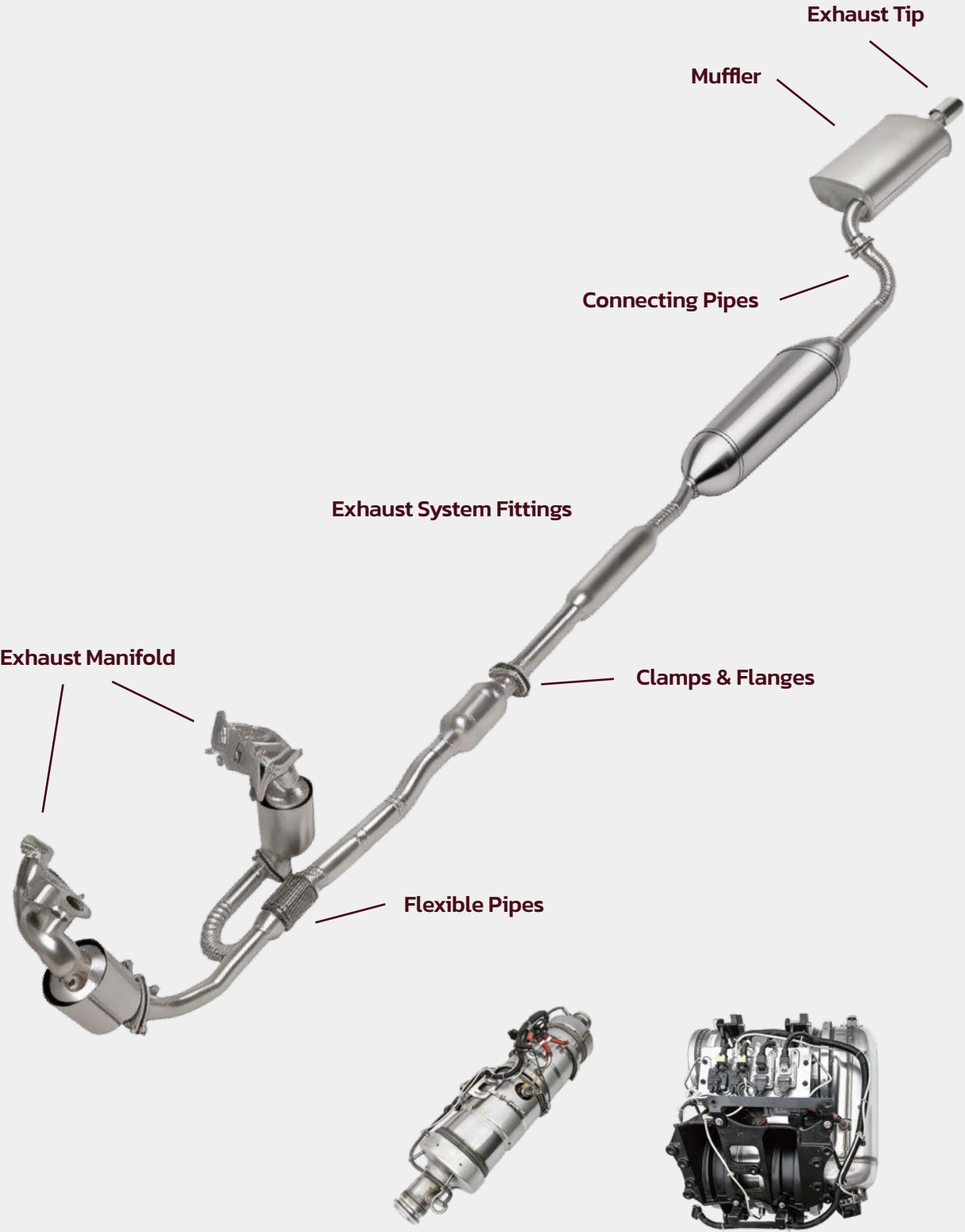
Our Value

Innovating aligned with industry shifts and client needs.



EXHAUST TUBE ASSEMBLY

EXHAUST PARTS



EXHAUST TUBES

Material:

Carbon Steel / Aluminized Steel / Stainless Steel

Process:

Cutting, CNC Bending, Hydroforming, End forming (Expanding / Reducing / Beading)

Technical Information:

Bending radius up to 1D



EXHAUST MANIFOLD

Material:

Stainless Steel / Heat-resistant Steel

Process:

Laser Cutting, Stamping, Welding (Robot / TIG / MIG), Flange Machining

Technical Information:

Flange Flatness ≤ 0.05 mm;
Ra $3.2 \mu\text{m}$ (Standard) / $1.6 \mu\text{m}$



CONNECTING TUBES

Material:

Carbon Steel / Aluminized Steel /
Stainless Steel

Process:

Cutting, Multi-bend CNC Bending,
End Forming, Robotic Welding

Technical Information:

Bend Angle $\pm 0.3^\circ$ (Batch) / $\pm 0.1^\circ$ (Critical);
Ovality $\leq 8\%$;
3D profile verification by CMM / 3D scan



FLEX

Material:

Stainless Steel (SUS304 / SUS321 / SUS316)

Process:

Flexible Joint Fabrication, Welding, End Forming

Technical Information:

Interface Coaxiality ≤ 0.15 mm (Standard) /
 ≤ 0.08 mm (High sealing);
Sealing / Fit-up per drawing



MUFFLER

Material:

Aluminized Steel / Stainless Steel

Process:

Connection Tubes, Hangers / Brackets,
Clamp / Flange Interfaces

Technical Information:

Bracket hole TP ≤ 0.20 mm (Standard) /
 ≤ 0.10 mm (Critical);
Weld distortion control per drawing



EXHAUST TIP

Material:

Stainless Steel / Carbon Steel

Process:

Cutting, Hydroforming, Welding, Surface Finishing

Technical Information:

Edge burr ≤ 0.05 mm;
Appearance / performance per drawing



CLAMPS

Material:
Stainless Steel / Carbon Steel

Process:
Stamping, Forming, Assembly

Technical Information:
Fit consistency + Torque requirement per customer spec



EXHAUST SYSTEM FITTINGS



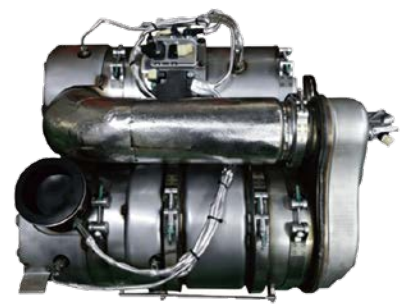
EGP SYSTEM

Scope:
DOC / DPF / SCR Connection Tubes & Interfaces (Interfaces only)

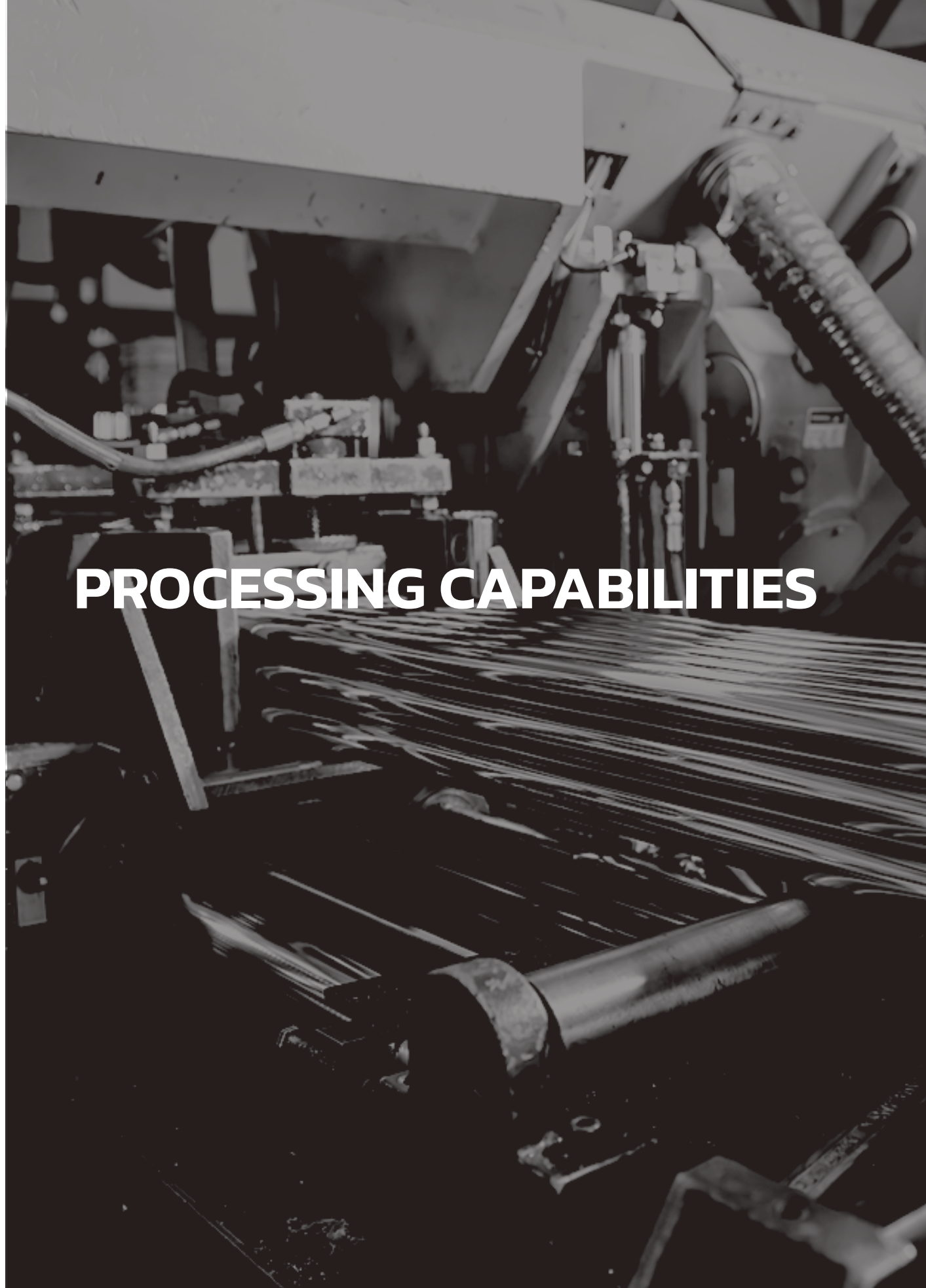
Process:
Aftertreatment Connection Section, End Machining (TP / FLAT / Ra), Robotic Welding

Technical Information:
Multi-interface TP + Sealing Face FLAT / Ra + 3D Routing Verification

Note: Substrate / Coating / ECU Calibration Excluded



PROCESSING CAPABILITIES



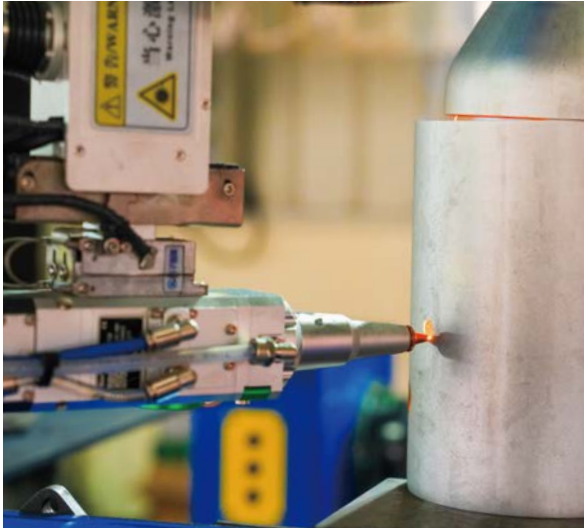
PROCESSING EQUIPMENT



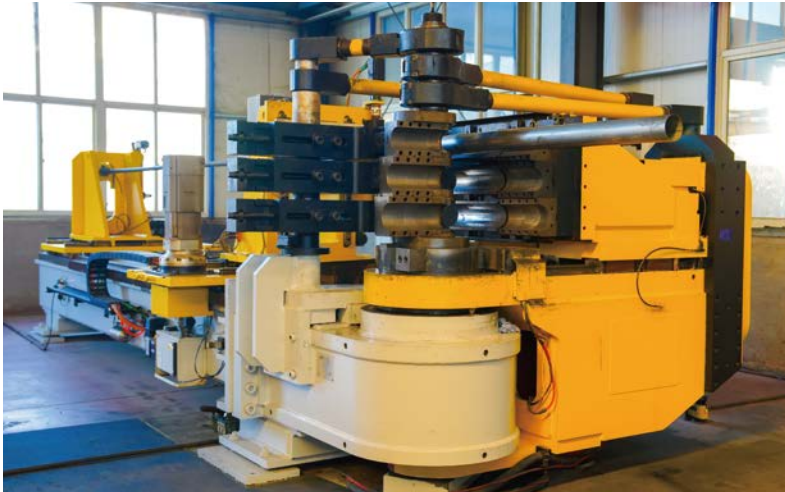
Robotic Welding Machine



End-forming Machine



Lasering Machine



Bending Machine



Stamping Press Machine



Tube Hydroforming Machine



Wecotech Machine

R&D CAPABILITIES & VALUE

- Collaborative Design & Customized Development
- Feasibility Study & Engineering Design
- CAE-based Engineering Validation
- Prototyping & Process Industrialization



- Reduced Development Cycle
- Optimized Total Cost
- First-Time-Right Engineering
- Automotive Standards Compliance

COLLABORATIVE DESIGN & CUSTOMIZED DEVELOPMENT

Core Module

Product & Process design

Tooling & Fixture design

Co-design

Equipment design & Development

R&D CAPABILITIES



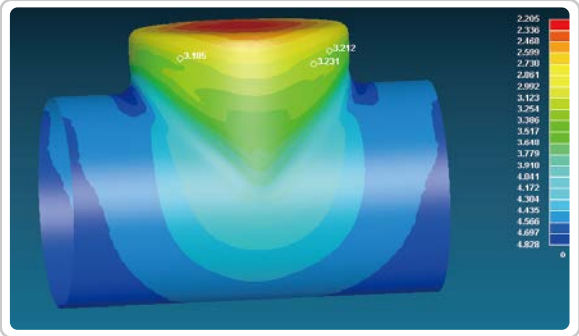
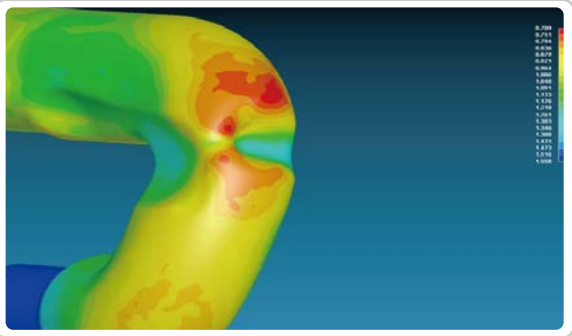
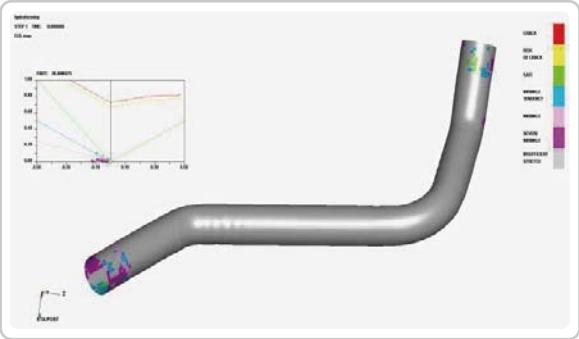
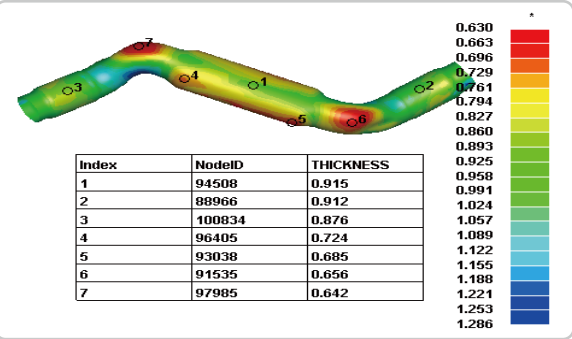
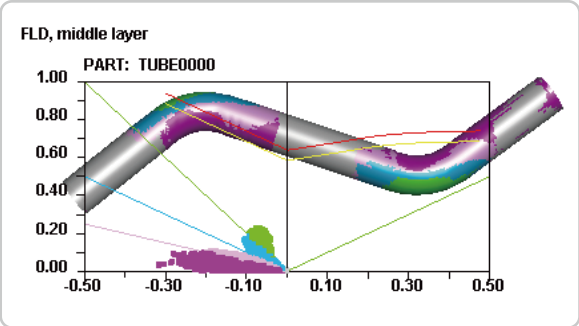
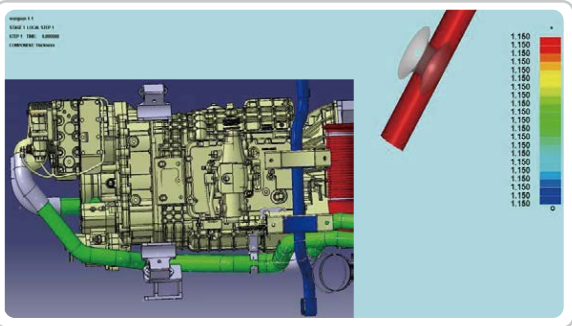
Example: Tube Laser Cutting Equipment

CAE ANALYSES

CAE-Driven Engineering Validation & Multi-Physics Optimization

By leveraging early-stage CAE simulations combined with advanced multi-physics analysis, structural designs and process parameters are systematically optimized to validate critical forming processes.

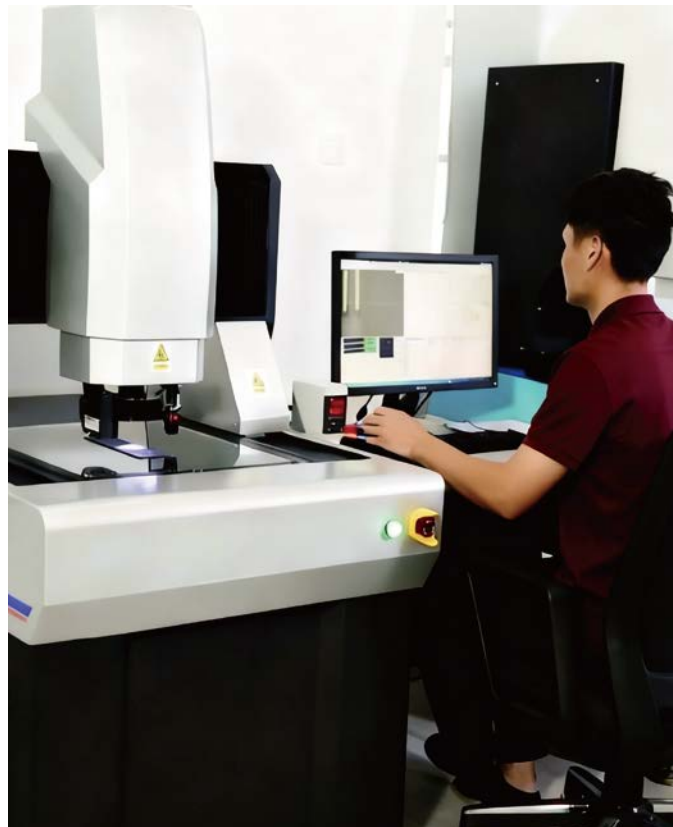
This approach ensures consistent performance in strength, flow behavior, and thermal stability.



PLANT LAB AND INSPECTION

LAB MATERIAL CHARACTERIZATION TESTING

- Metallographic microscope
- Metallographic specimen grinder
- Universal testing machine
- Hardness tester
- Roughness tester
- Eddy current tester (ECT)
- Spectrometer (OES)



PRODUCT COMPLIANCE CONFORMANCE TESTING

- CMM (Coordinate Measuring Machine)
- 3D Scanning Machine
- Coating Thickness Tester
- Digital Acidity Meter
- Salt Spray Test Chamber
- Heat Resistance Chamber
- Torque Comprehensive Test Bench



CERTIFICATES AND MANAGEMENT SYSTEMS

CERTIFICATIONS & STANDARDS

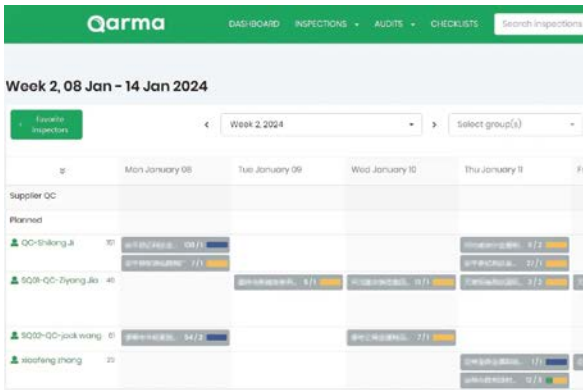
CBIES has established a comprehensive quality management system that includes a series of quality certifications, a variety of testing equipment with corresponding test methods, and the digital quality-inspection tool QARMA.

CBIES is certified to IATF 16949:2016, ISO 9001:2015, ISO 45001:2018, ISO 14001:2015, ISO 14067:2018, ISO 14064-1:2018, and can provide EN 10204:2004 Type 3.1 certificates upon request.

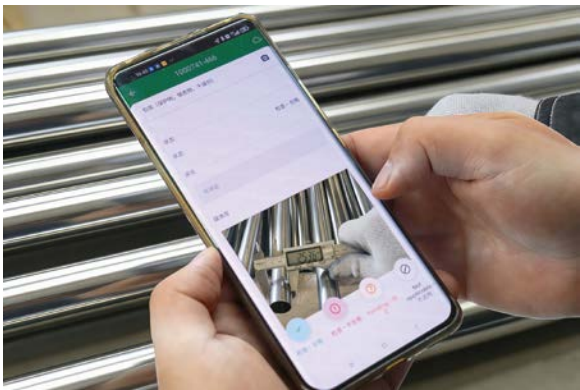


Quality Management System

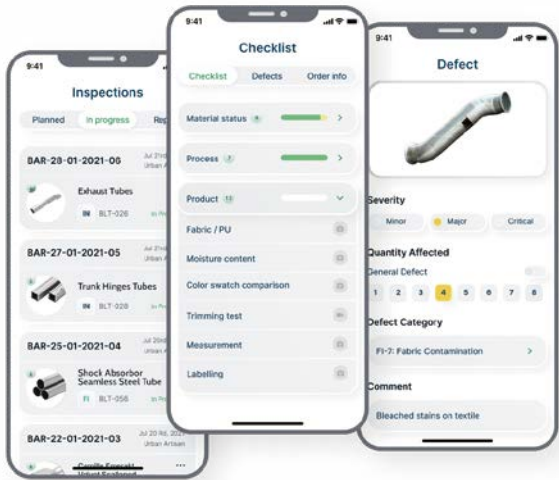
The digital quality inspection tool QARMA, adopted by CBIES, enhances its ability to maintain and uphold the highest standards across all stages of production.



Planning & scheduling for inspector



Generating reports, analytics, and insights



Covering every step of the inspection process

GLOBAL SUPPORT
CAPABILITIES

GLOBAL SUPPORT CAPABILITIES

