

MILITARY-GRADE FABRICATION

Resilience Built In.

Military-Grade Doors&Windows, Louvers & Fan Housings
for Critical and Commercial Infrastructure.

IATF 16949

GJB9001C

ISO 9001:2015

ZENTO trilium
METAL TECH CO., LTD.



Security Door Systems



Louvers & Dampers



Fan Housings & OEM



Hardware & Accessories

WHY CHOOSE Z&T?

Beyond Standard Fabrication.

Integrated factory-to-delivery. One roof.
Zero supply-chain gaps.

60mm

Laser Plate
Capability

30kW

Laser Cutting
Power

100%

In-House
Welding



60mm Heavy Plate Capability

Laser-cut structural plate up to 60mm thick — ideal for blast-rated door leaves and frames. No outsourcing, no compromise.



Certified Welding, In-House

AWS D1.1 & GJB9001C certified welders. Seamless welds on hollow metal frames for superior strength and clean aesthetics.



One-Stop Efficiency

Door leaf, frame, louver, and fan housing — fabricated under one roof. Reduce your supply chain complexity and lead time.



Military & Commercial Grade

Same precision tooling serves both GJB9001C military-grade deliverables and commercial-grade OEM supply programs.



Security & Blast-Rated Door Systems

1

Steel Door Leaf

Heavy plate, blast-rated, up to 60mm thickness.

2

Welded Frame

AWS D1.1 certified. Hollow metal precision fit.

3

Heavy-Duty Hinge

Multi-knuckle thrust hinges. Rated for extreme weight.

4

Multi-Point Latch

3-point locking, cam-latches, panic hardware ready.

Blast Resistant Doors and Windows

Engineered for petrochemical, power generation, and safe rooms. Compliant with GJB9001C standards. We build to your specified PSI/kPa blast rating.

Petrochemical · Power Generation · Safe Rooms

Heavy-Duty Industrial & Commercial Frames

For data centers, factories, and commercial buildings — our hollow metal steel door frames and adjustable frames provide unmatched durability and precision fit.

Data Centers · Factories · Commercial Buildings

Fire-Rated & Specialty Doors

Fire rated steel door frames with certified core materials. Same tooling platform delivers residential, commercial, and blast-proof applications without retooling.

Fire Rated · Residential · Commercial

Airflow Management. Precision Controlled.

Industrial HVAC · Building Facades · Infrastructure Tunnels

Galvanized Steel

Stainless Steel

Aluminum

"Whether it's a warehouse ventilation grill or a tornado damper for a tunnel, Z&T provides the heavy-gauge fabrication that lightweight commercial vendors cannot."

1

Fixed Louvers

Architectural facade & wall applications. Precision-aligned blades, powder coated finish.

2

Adjustable Louvers

Manual or actuator-controlled. Optimized for industrial HVAC airflow regulation.

3

Acoustical Louvers

Studio, server room, and noise-sensitive facility use. Sound attenuating design.

4

Industrial Louvers

Heavy-gauge for factory walls. Corrosion resistant with integrated mesh & bird screen.

5

Backdraft Dampers

Spring-loaded one-way flow control. Prevents reverse airflow in duct systems.

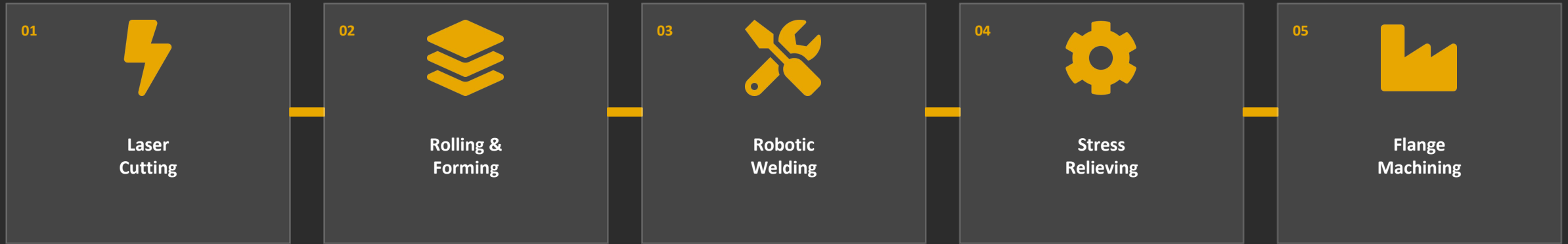
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Tunnel Ventilation Dampers

Bubble-tight isolation dampers for road & rail tunnel infrastructure. High PSI rating.

OEM Fan Housings & Blower Fabrication.

Your Fabrication Partner — We don't sell fans; we build the housing that makes them perform.



±0.05mm

Flange Tolerance

Critical Tolerances

Post-weld machining ensures mounting flanges are perfectly flat. Eliminates vibration and bearing wear in high-speed heavy-duty fans.

100%

Heavy-Lift Ready

Scalability & Range

From small industrial blower fan housings to massive Mine Forcing Fan casings — our Dehong facility has the heavy-lift capacity you need.

30kW

Laser Power

Engineered for Performance

Focus on your motor and aerodynamics. Leave the heavy metal fabrication to us. Stress-relief treatment standard on structural weldments.

Strength Is in the Details.



Heavy-Duty Hinges

- Continuous piano hinges
- Multi-knuckle thrust hinges
- Rated for extreme weight & frequent cycling
- Custom pin sizes available



Latching & Hardware

- Cam-latch systems
- 3-point locking mechanisms
- Panic hardware provisions
- Stainless steel options



Surface Protection

- Abrasive blast preparation
- High-build epoxy primer
- Polyurethane topcoat
- Hot-Dip Galvanized available



Performance Testing

- Salt spray tested to ASTM B117
- Blast pressure certification
- Full inspection reports
- Third-party testing supported

Our Commitment to Precision.

IATF 16949



Automotive Quality System

International standard for automotive production and relevant service parts. Demonstrates manufacturing excellence to Tier-1 and OEM buyers globally.

GJB9001C



Military Quality Standard

Chinese military-grade quality management system certification. Required for blast-rated, defense-grade, and mission-critical supply programs.

ISO 9001:2015



Quality Management System

Foundation of process-based quality management. Ensures repeatable, auditable production processes across all product lines and customer deliveries.

60mm

Max Laser Plate

30,000W

Laser Power

3

Major Certifications

1 Roof

Full Process Integration

READY TO FORTIFY YOUR SUPPLY CHAIN?

Send us your door schedule, louver spec,
or fan housing drawing. Response in 24h.

REQUEST A QUOTE →

1

Share Your Drawing

2

Get DFM Review

3

Confirm Quotation

4

Production Starts

ZENTO TRILIUM METAL TECH CO., LTD.



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Tianjin & Cangzhou, China



Response within 24 hours

IATF 16949 Certified · GJB9001C Certified · ISO 9001:2015 Certified