

METAPEX

COMPANY ABOUT

METAPEX Metal Industry and Trade Inc. is an engineering-oriented industrial metal processing firm situated in the metal processing and coating sector within its 5,000 m² facility in the Çerkezköy Organized Industrial Zone, where it integrates its production capabilities with advanced technology.

We deliver swift, dependable, and quality-oriented production through high-precision services in CNC sheet metal laser cutting, CNC pipe laser cutting, CNC press brake bending, welding, assembly, electrostatic powder coating, and alkaline galvanizing.

Our company integrates cutting-edge machinery, a 170-meter automated conveyor line, an 8-meter capacity box kiln, and fully automated alkali galvanizing facilities, all under one roof. We provide sustainable, efficient, and high-performance solutions that adhere to international production standards.

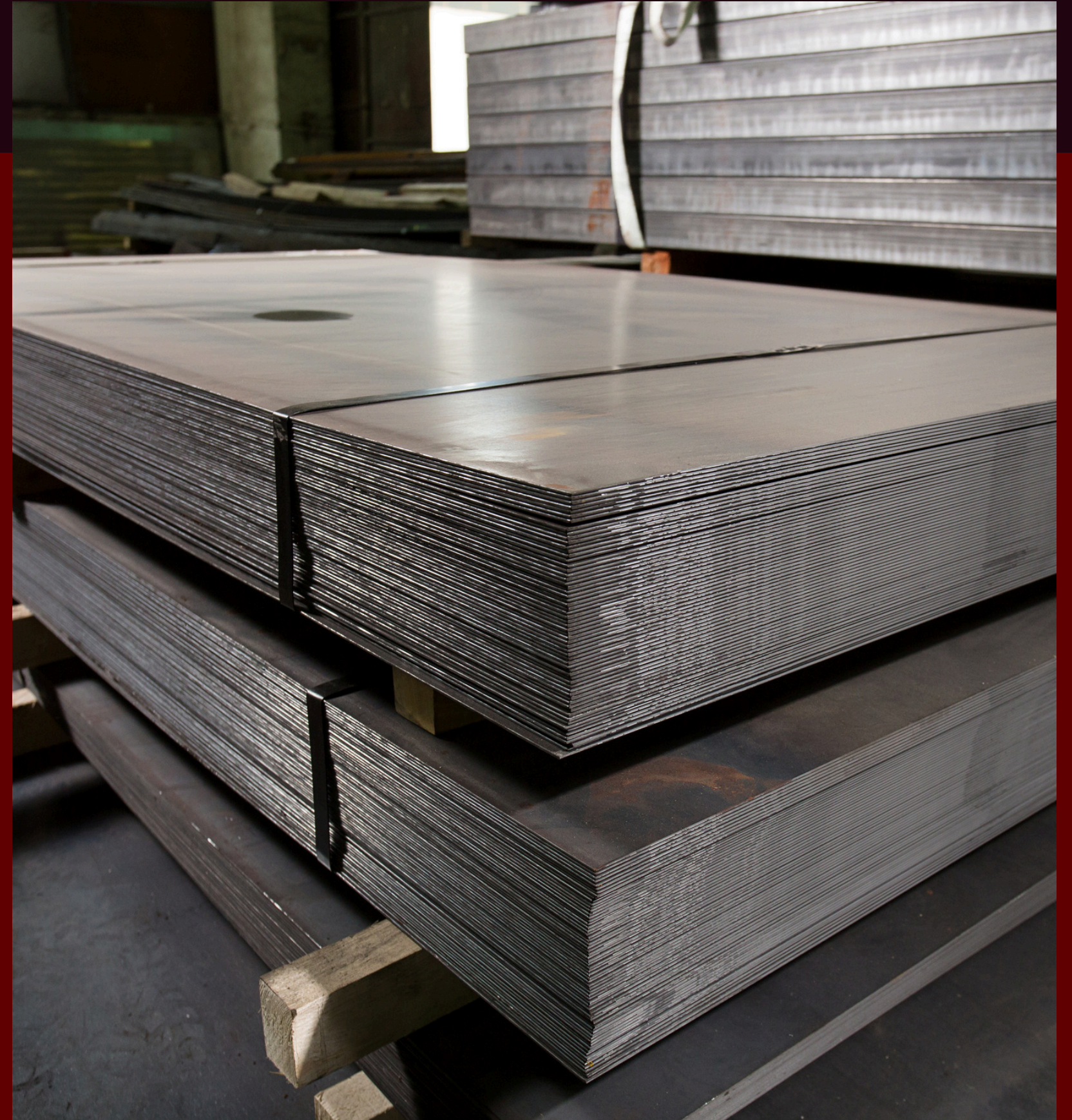


PRODUCTION CHALLENGE COURSE

**Planning, Project Management, and Design - Industrial Metalworking
Coating Technologies - Powder Coating - Assembly and Logistics**

Metapex, engaged in the domains of electrical panels, generator enclosures, metal door products, machine chassis and cabinets, locker rooms, shelving systems, and custom-designed sheet metal processing, is a comprehensive industrial facility that oversees a multi-tiered production flow. This encompasses the design phase of metal, precision machining, advanced surface coating technologies, the final powder coating process, and professional assembly and logistics operations, all adhering to stringent engineering standards.

Our production infrastructure is founded on an automated architecture that reduces human error, employs robotic applications to guarantee consistent quality, features high-capacity lines designed for large-scale operations, and provides comprehensive end-to-end traceability and process control.



01 PLANNING, PROJECT MANAGEMENT, AND DESIGN

Metapex's engineering team assesses customer requirements, evaluating technical feasibility, material selection, and process suitability. The manufacturability (DFM) of the products is confirmed, and alternative solutions are proposed when necessary. Processes:

- CAD/CAM-based technical drawing
- Three-dimensional modeling and simulation
- Material-process compatibility assessment
- Prototype enhancement
- Production route optimization

Objective: To attain zero deviations, zero defects, and the highest level of accuracy in process design throughout production.



02 METALWORKING DIVISION

At the core of Metapex's production facility lies metal processing. We do not manufacture raw materials; rather, we process metal to produce high-precision, functional industrial components. This unit encompasses a comprehensive metal processing cycle, including cutting, bending, welding, and pre-assembly preparation.

Operational Competencies:

Laser Cutting: Rapid, precise, low-tolerance cuts.

Press Brake Bending: Consistent bending angles, substantial tonnage capacity.

All metal joints necessitating technical precision.

Metal Forming and Shaping: Manufacturing in accordance with precise geometric specifications.

Complementary processes include riveting, drilling, and edge finishing.

The most compelling feature of this unit is:

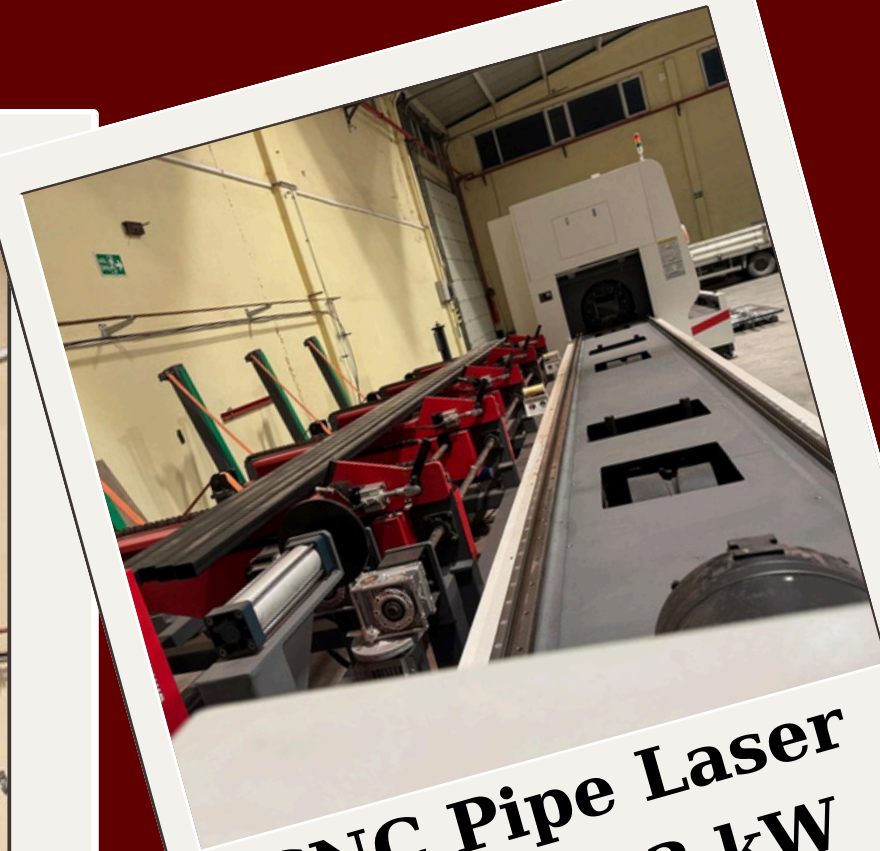
All operations are conducted by skilled technicians, integrated with quality assurance processes.

Ensuring dimensional consistency even in high-volume production.





**SMART PRO
6025 Double Table Sheet
Metal Laser**



**CNC Pipe Laser
TubePro 3 kW**



**Laser, Gas Metal Arc Welding,
and Other Welding Techniques**



**CNC BENDING COMPONENTS
4000 mm 250 tons
3200 mm 175 tons**

03 ALKALINE - ZINC - GALVANIZED COATING SYSTEM

Metapex distinguishes itself in the industry through its sophisticated infrastructure that integrates quality, efficiency, and sustainability in surface coating technologies. Our latest investment, a fully automated alkaline zinc coating line, exceeds industry standards with its superior coating quality, optimal production capacity, and complete elimination of human contact.

Metapex's state-of-the-art facility boasts a fully automated line comprising 30 boilers, functioning through a multi-stage and meticulously controlled process. All operational steps are overseen and regulated by a central automation system, guaranteeing that each component is processed to exacting standards with uniform coating quality.

Our facility is equipped with two robotic handling systems that execute all handling operations, from the introduction of workpieces into the process to their exit, without human intervention. This enables us to:

A hygienic and flawless process is guaranteed without any human intervention.

Workplace safety is optimized.

Labor productivity has increased.

Time and cost efficiencies are realized.





**Fully Automated
Coating in Compliance
with EU Standards**



**30 Dual
Robot
Boiler Unit**

04 ELECTROSTATIC POWDER COATING SYSTEM

Metapex showcases its expertise in surface treatments through state-of-the-art powder coating facilities. Our infrastructure, designed to provide tailored solutions for production requirements of diverse scales, is distinguished by its high efficiency, exceptional surface quality, and environmentally sustainable processes.

Fully Automated Wagner Paint Booth and Spray Gun System

The Wagner paint booth and spray gun system in our facility functions with minimal dust loss and optimal coating efficiency. This system, which facilitates rapid color changes, ensures consistency and upholds quality standards in production.

Spray and Baking System featuring a 170-meter conveyor line.

Specifically engineered for high-volume production, the 170-meter conveyor line oversees the complete painting process (pre-treatment, painting, drying) in a cohesive manner. It possesses the capability to paint components up to 6 meters in length effortlessly.

Box Oven Specifically Engineered for High-Volume Products

Our facility provides a tailored solution for heavy and oversized components that exceed standard dimensions, equipped with a box oven measuring 8 meters in length, 3 meters in height, and 3 meters in width. This space is ideal for painting large parts utilizing manual or semi-automatic systems.





**Completely Automated Spray Line
170m Rail, Elevated Conveyor
System**



**Powder Coating Unit for
High-Volume Products,
measuring 8m x 3m x 3m.**

05 ASSEMBLY AND TRANSFER OVERSIGHT

Metapex additionally offers in-house assembly, joining, packaging, and effective logistical management of all manufactured or processed components.

The subsequent actions were undertaken at this stage:

Component assembly

High assembly / final assembly

- Post-operative quality assurance

Product packaging

Internal logistics administration

Pre-shipment loading strategy



PRODUCT OUR TEAMS



1. PANEL, HOUSING, AND CABINET SYSTEMS

These are products designed for body and external protection utilized across various sectors.

Example products:

Mechanical structures

Industrial cabinets

Electrical panel enclosures

Enclosures and protective casings

Modular metallic panels

We produce robust housing, enclosures, and panel components designed to safeguard machinery, electronics, and industrial equipment. We provide premium coatings for large-scale manufacturing.

2. SHELVING, TRANSPORTATION, AND STORAGE SOLUTIONS

Metapex represents an exemplary product line for metalworking applications that demand high strength, owing to its durable design.

Example products:

Industrial shelving systems

- Intermediate storage metallic solutions
- Metal containers on pallets

Transport carts and metal platforms

We produce durable, high-load-bearing racking and storage solutions essential for industrial logistics. Our offerings include specialized coatings that provide resistance to scratches and corrosion.



PRODUCT OUR TEAMS



3. INDUSTRIAL FASTENERS AND METAL COMPONENTS

This group comprises high-strength metal components that fulfill the mechanical requirements of various industries.

Example products:

Connectors

Brackets and supporting elements

Officers, secure hives

Construction of connecting components

Bespoke load-bearing metal modules

We produce all fasteners that necessitate load-bearing capacity, assembly, and mechanical strength in industrial systems with exceptional precision. We deliver functional and durable metal components.

4. METAL COMPONENTS IN CONSTRUCTION AND BUILDING

Ideal for sectors necessitating resilience.

Example products:

Anchor plates

- Connection plates

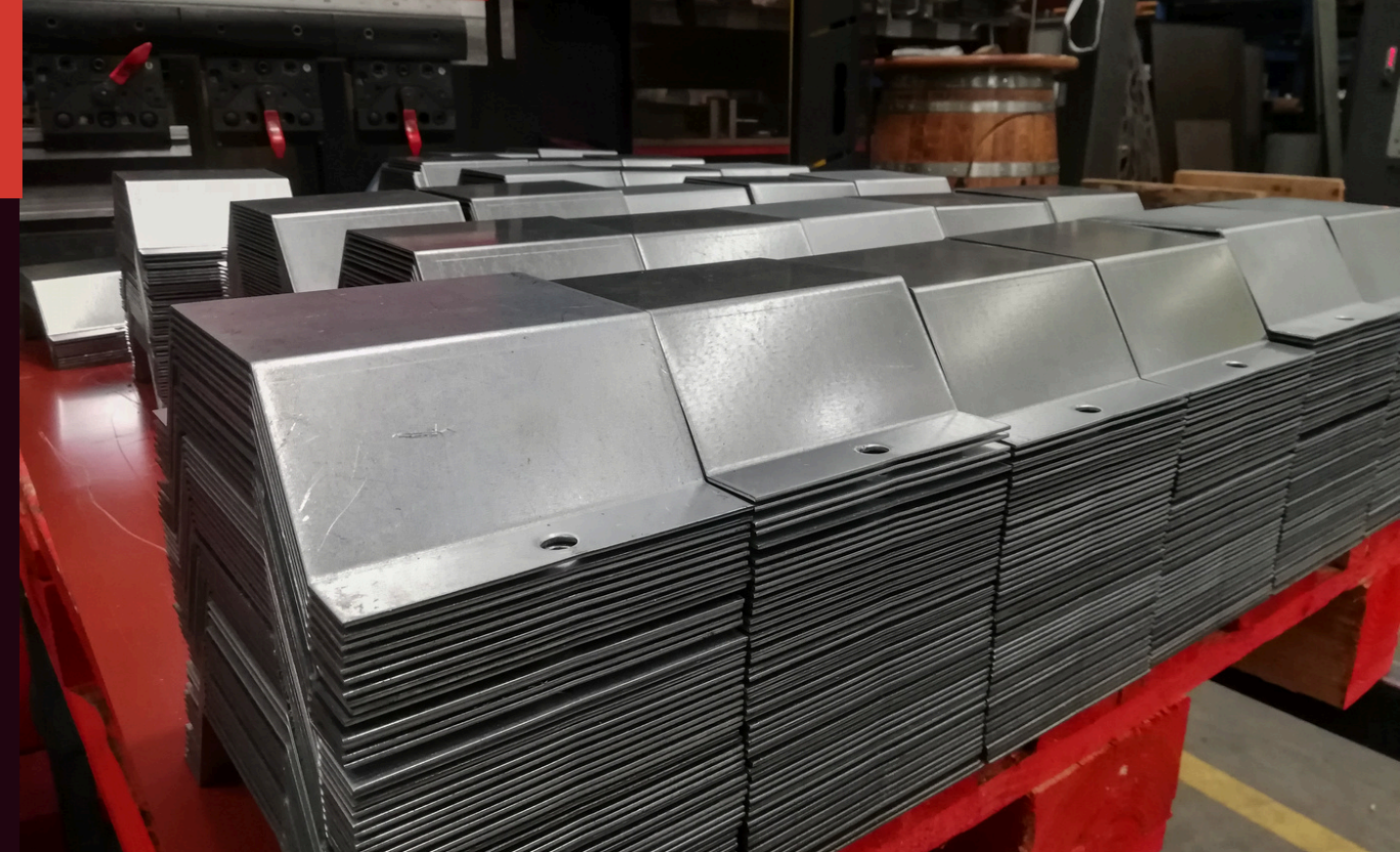
Steel structure components

- Pergola –metallic shading systems
- Exterior substructure elements

We produce load-bearing, connecting, and construction components essential for the building industry through advanced high-strength metal processing techniques. The galvanized coating guarantees an extended service life.



PRODUCT OUR TEAMS



5. COMPONENTS OF MACHINERY AND EQUIPMENT

Specialized metallic components.

Example products:

Machine connectors

- Bearings and consoles
- Legs, support structures

Bespoke machinery and equipment components.

- We produce load-bearing, connecting, and construction components essential for the building industry through advanced high-strength metal processing techniques. The galvanized coating guarantees an extended service life.

6. AUTOMOTIVE – AGRICULTURE – DEFENSE SUBSECTOR METAL COMPONENTS

Metapex's metalworking quality standard is sufficiently advanced to meet the needs of these sectors.

Example products:

Chassis connectivity modules

- Metallic appendages, supports
- Bespoke geometric metal components
- Protective enclosures
- Assembly subcomponents

- We produce metal components with precise tolerances, designed for rigorous working environments. By employing project-specific designs and tailored manufacturing processes, we fulfill the technical specifications of diverse industries.



PRODUCT OUR TEAMS



7. ARCHITECTURAL AND ORNAMENTAL METAL PRODUCTS

Metapex's superior paint offers a distinct advantage in this domain.

Example products:

Metal balustrades

Bespoke decorative metal products

- Facade frameworks
- Interior metal utilizations
- Design-centric metal embellishments

We manufacture decorative metal products that emphasize aesthetics and exhibit superior surface quality. Through the use of powder coating and specialized coating techniques, we provide premium solutions that are ideal for both indoor and outdoor applications.

8. TAILORED DESIGN & PROJECT-SPECIFIC METAL PRODUCTS

This group represents Metapex's most valuable asset.

All custom metal components produced from the ground up to meet the customer's specifications are included in this category.

Example products:

Bespoke metal components crafted according to client specifications.

- Application-focused prototype manufacturing.
- Project-based modular metallic systems
- Engineering products that demand high strength.

We manufacture decorative metal products that emphasize aesthetics and exhibit superior surface quality. Through the use of powder coating and specialized coating techniques, we provide premium solutions that are ideal for both indoor and outdoor applications.

THANKS WE PERFORM

Thank you for taking the time to review our company profile.

At METAPEX Metal Industry and Trade Inc., we remain dedicated to delivering high-precision, dependable, and engineering-focused industrial metalworking solutions.

We anticipate establishing robust, enduring partnerships founded on quality, trust, and performance.

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