



BISMILLAH
— ENGINEERING WORK —



Precision Engineering Solutions for Industrial Applications



Research &
Development
(R&D)



CAD &
Design



CNC
Machining



Fabrication



Custom
Machinery



Jigs, Fixtures,
Tooling & Dies



Quality
Inspection



Industrial
Solutions

ESTABLISHED 1999
27+ YEARS OF ENGINEERING EXPERIENCE

COMPANY OVERVIEW



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Bismillah Engineering Works is a professionally driven industrial engineering and manufacturing firm focused on transforming complex engineering requirements into performance oriented solutions. We bridge the gap between innovative design and high performance manufacturing by integrating Research & Development (R&D), advanced engineering, precision machining, fabrication, and re-engineering expertise under one integrated platform.



Innovative Design

From concept to complete industrial solutions



High Performance Manufacturing

Precision, quality and reliability



Integrated Expertise

Engineering, fabrication and re-engineering under one platform

OUR CLIENTS

Trusted by leading organizations across engineering, manufacturing, energy, and industrial sectors.

 Heavy Industries Taxila (HIT)	 Air Force Weapon Unit MMF	 OGDCL	 Atlas Battery Limited
 Exide Pakistan Limited	 Hawk Batteries (Pvt.) Ltd.	 Unique Battery (Pvt.) Limited	 Phoenix Batteries
 Atlas Metal Limited	 Atlas Aluminium Limited	 Thal Engineering Limited	 Total Power Industries
 Kaizen Pharma	 GEP Battery Industry — Afghanistan	 G.M. Payman Battery Industry — Afghanistan	 United Chemical Factory — Dammam

Engineering Solutions.
Trusted Partnerships.



BISMILLAH
— ENGINEERING WORK —

COMPANY PROFILE

A B O U T

BISMILLAH ENGINEERING WORKS

Engineering Solutions Built
Around **Your Requirements**



At Bismillah Engineering Works, our role is to understand every production's requirements, engineer a practical solution, and execute it with controlled manufacturing and inspection processes.

We work across the complete engineering lifecycle from initial technical discussions and drawings to fabrication, machining, assembly, inspection, and final delivery.



OUR **MISSION**

To deliver dependable, technically sound, and cost-conscious engineering solutions that improve industrial productivity, equipment functionality, and operational efficiency.



OUR **VISION**

To establish Bismillah Engineering Works as a trusted engineering partner for organizations seeking precision manufacturing, customized industrial equipment, and practical re-engineering solutions.



BISMILLAH
— ENGINEERING WORK —

CORE ENGINEERING CAPABILITIES

Core Areas Of Expertise

Combining advanced engineering, precision manufacturing and innovative R&D to deliver reliable industrial solutions.

01



Precision Manufacturing & Fabrication

We deliver high-accuracy machining and engineered fabrication for critical components, assemblies, structures, and industrial equipment.

Capabilities:



CNC
Machining



Milling



Turning



Drilling



Welding



Structural
Fabrication



Custom
Assemblies

02



Research & Development (R&D)

Our R&D function transforms technical requirements and industrial challenges into practical, manufacturable solutions.

Capabilities:



Concept
Development



Prototyping



Material
Evaluation



Design
Optimization



Process
Development



BISMILLAH
— ENGINEERING WORK —

03

Re-Engineering & Reverse Engineering

We analyze existing, obsolete, or unavailable components to reconstruct their geometry, specifications, and functional requirements for accurate reproduction or performance improvement.

Capabilities:



Component
Analysis



Dimensional
Measurement



CAD
Reconstruction



Replacement
Parts



Design
Improvement



04

Rigorous Quality Inspection

Our quality assurance framework ensures precision, conformity, and workmanship excellence throughout the manufacturing cycle. Calibrated inspection systems verify critical dimensions, tolerances, materials, and performance for consistent, traceable results.

Capabilities:



Dimensional
Inspection



Tolerance
Verification



Material
Testing



Hardness
Testing



NDT



Final
Inspection





OUR LEADERSHIP

Experienced leadership driving our vision, strengthening our capabilities, and building long-term value for our clients and partners.



ABDUL KHALIQ

C E O



Providing strategic leadership and overall business direction for Bismillah Engineering Works, with a strong focus on operational excellence, client satisfaction, sustainable growth, and long-term business development. His leadership supports effective decision making, strengthens client relationships, and drives the company's commitment to reliable engineering solutions and professional service delivery.



DIRECTOR 01

Muhammad Usman

Muhammad Usman oversees the company's administrative and corporate functions, ensuring effective coordination across key support departments. His responsibilities encompass Research & Development, Designing/CAD, Procurement & Accounts, and Quality Management. Through structured planning, technical coordination, and quality-focused oversight, he supports the organization's operational efficiency and continuous development.



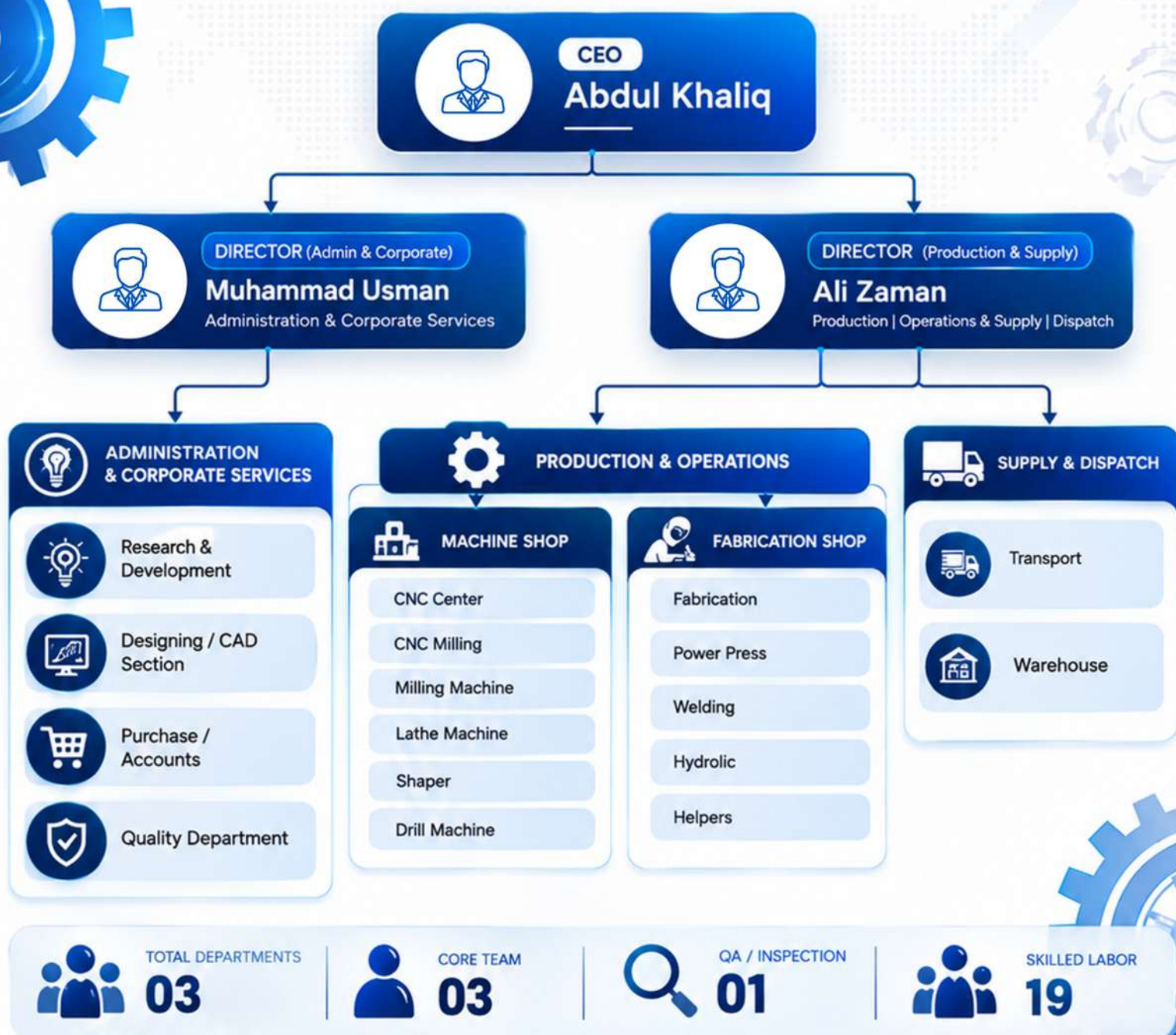
DIRECTOR 02

Ali Zaman

Ali Zaman leads the company's production, operations, supply, and dispatch functions, ensuring smooth coordination from manufacturing to delivery. He oversees the Machine Shop, Fabrication Shop, and Transport operations, with a focus on efficient production, skilled workforce management, timely execution, and reliable supply and dispatch.

OUR TEAM

ORGANIZATIONAL STRUCTURE



PEOPLE
DRIVEN
PRECISION
DELIVERED

A STRONG TEAM
BEHIND EVERY
STRONG SOLUTION

OPERATIONAL WORKFLOW

A Controlled Path from Requirement to Delivery

Our operational workflow is structured to provide clear control at every major stage of a project.



01

Purchase Order / Project Initiation

Project requirements, technical specifications, quantities, and delivery expectations are reviewed.



02

Engineering, R&D & CAD Design

Technical requirements are analyzed and translated into engineered solutions, 2D drawings, 3D models, manufacturing details, and technical documentation.



03

Part Sampling / Prototype

Where required, samples or prototypes are manufactured for evaluation and approval.



04

Raw Material

Materials are sourced according to the applicable project requirements and specifications.



05

Production

Approved designs move into machining, fabrication, forming, welding, assembly, or other required manufacturing processes.



06

Quality Inspection

Finished components undergo dimensional and functional inspection according to applicable requirements.



07

Packaging & Dispatch

Approved products are prepared, packed, documented, and dispatched.

Our Manufacturing Philosophy



Plan



Engineer



Prototype



Manufacture



Inspect



Deliver



Support

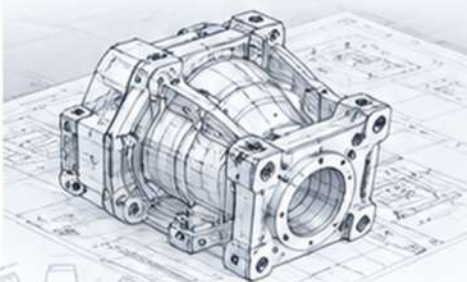
DIGITAL ENGINEERING & HIGH-PERFORMANCE TOOLING

Our manufacturing operations are supported by a digital-first engineering methodology, integrating advanced CAD, precision tooling, and inspection technologies to ensure accuracy from design through production.



DIGITAL ENGINEERING

Using AutoCAD, PTC Creo (Pro/ENGINEER), and SolidWorks, we develop detailed 2D drawings and 3D models, validate geometric tolerances and GD&T requirements, and assess Design for Manufacturability (DFM) before production.



HIGH-PERFORMANCE MACHINING & TOOLING

We utilize application specific cutting tools and advanced machining solutions to achieve consistent accuracy, surface quality, and process efficiency. Our tooling includes carbide cutters, HSS cutters, titanium-tipped tools, and Dormer drills.



CUSTOM JIGS & FIXTURES

Custom-engineered jigs, fixtures, templates, and work-holding solutions provide secure positioning, repeatability, and dimensional consistency throughout the manufacturing process.



TESTING & INSPECTION

Our inspection resources include calibrated gauges, micrometers, digital calipers, custom templates, and precision measuring equipment to verify dimensional conformity and specified tolerances.

Specialized Testing Services

Where required, specialized testing is supported through qualified external facilities, including:



Material Hardness & Composition Testing



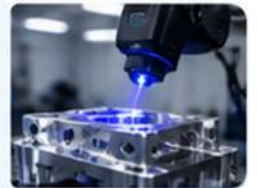
Non-Destructive Testing (NDT)
UT, Dye Penetrant,
Radiography & MPT



Mechanical Testing
Tensile, Bend,
Flattening & Re-Bend



Laser Cutting & Part Scanning



Digital
Engineering



Precision
Tooling



Controlled
Inspection



Verified
Quality



— **CUSTOMIZED INDUSTRIAL MACHINERY & ENGINEERING SOLUTION**



TDO Oven for Pasted Grid Drying

Industrial drying oven designed for controlled drying of pasted grids.



Separator Plant for Glue Pasting & Drying

Integrated equipment for separator processing, glue pasting, and controlled drying operations.



Two-Side Plate Lug Brushing Machine

Specialized machine for controlled brushing and surface preparation of plate lugs.



Plate Cutting & Brushing Machine

Integrated equipment for precise plate cutting and brushing operations.



— CUSTOMIZED INDUSTRIAL MACHINERY & ENGINEERING SOLUTION



Gang Saw Machine

Multi-blade cutting equipment designed for efficient and consistent production cutting.



MS Drum Paste Mixer — 500 kg Capacity

Heavy-duty mild-steel paste mixer engineered for batch preparation with a capacity of up to 500 kg.



Automatic Grid Casting Machine with Pot

Automated grid casting equipment designed for efficient and consistent grid production.



Grid Feeder for Grid Drying

Specialized feeding equipment for controlled transfer of grids into the drying process.



— INDUSTRIAL CONVEYOR SYSTEMS & MATERIAL HANDLING



Automatic Chain Conveyor for AMB

High-efficiency chain conveyor designed for controlled material movement within AMB production lines.



Automatic Belt Conveyor for AMB

Automated belt conveying system engineered for smooth and continuous production-line handling.



Over Head Conveyor Systems

Versatile mild-steel roller conveyor systems designed for diverse industrial material-handling applications.



MS Manual Round Roller Conveyor

Mild-steel curved roller conveyor designed for flexible manual material handling and transfer.



— CUSTOMIZE BATTERY EQUIPMENT & PROCESS MACHINERY



2V Group Burning Machine

Dedicated group-burning equipment designed for battery assembly applications.



Group Burning Machine for Tubular Battery

Specialized group-burning machine developed for tubular battery manufacturing applications.



Group Burning Machine for Regular Battery

Dedicated group-burning equipment designed for regular battery production applications.



Battery Seal Breaking Machine

Specialized equipment designed for controlled battery seal-breaking operations.



2V GB Conveyor for Assembly Line

Dedicated conveyor system for efficient material transfer within 2V battery assembly operations.



— SPECIALIZED TOOLING & EQUIPMENT FOR BATTERY MANUFACTURING LINES



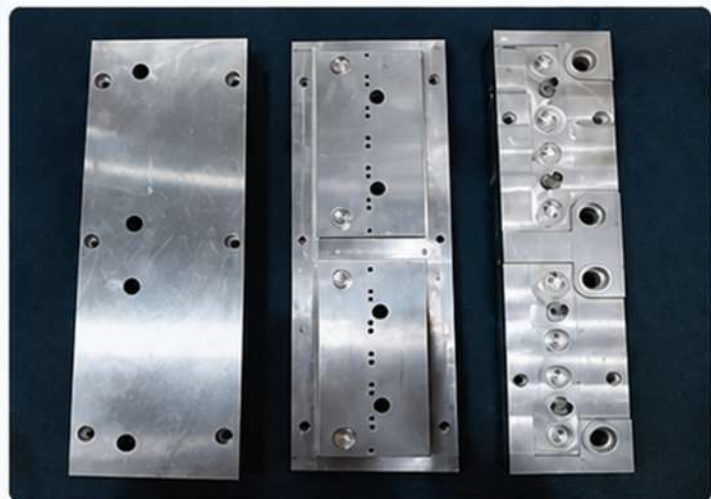
**Adjustable Grid Casting
Plate Cutter**

Adjustable cutting equipment designed for accurate and repeatable grid plate processing.



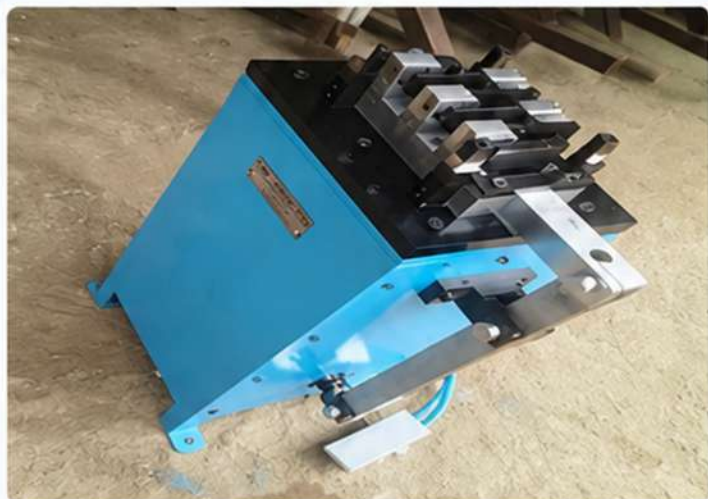
**Shear Tester for
Battery Breaking**

Specialized testing equipment designed for controlled shear testing and battery-breaking applications.



**Sealing Tools for
Tubular & Regular Batteries**

Specialized sealing tools designed to support controlled and repeatable battery sealing operations.

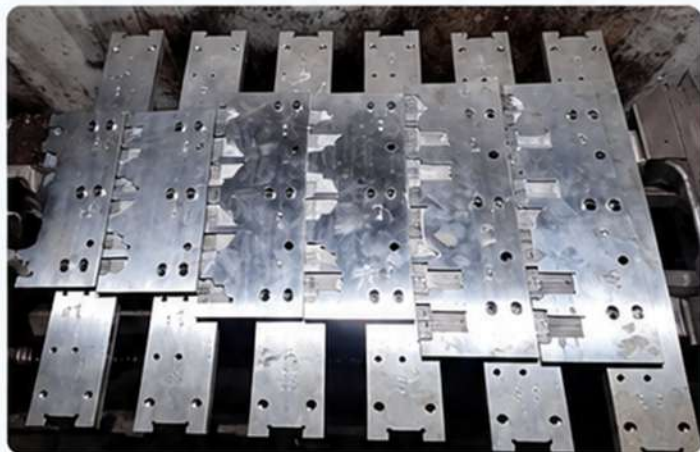


**Punching Machine
for Regular Battery**

Purpose-built punching equipment designed for accurate and repeatable battery component processing.



— **SPECIALIZED TOOLING & EQUIPMENT FOR BATTERY MANUFACTURING LINES**



**Comb & Dam for Tubular /
Regular Battery**

Specialized battery tooling designed for controlled assembly and formation applications.



**Stacking Box for Tubular /
Regular Battery**

Purpose-designed stacking boxes for organized battery component handling and production operations.



**Manual L-Terminal Die
for Tubular Battery**

Precision manual die designed for forming L-terminal components used in tubular battery applications.



**Charging Connector Die
for Tubular Battery**

Precision die developed for forming and manufacturing charging connector components for tubular batteries.

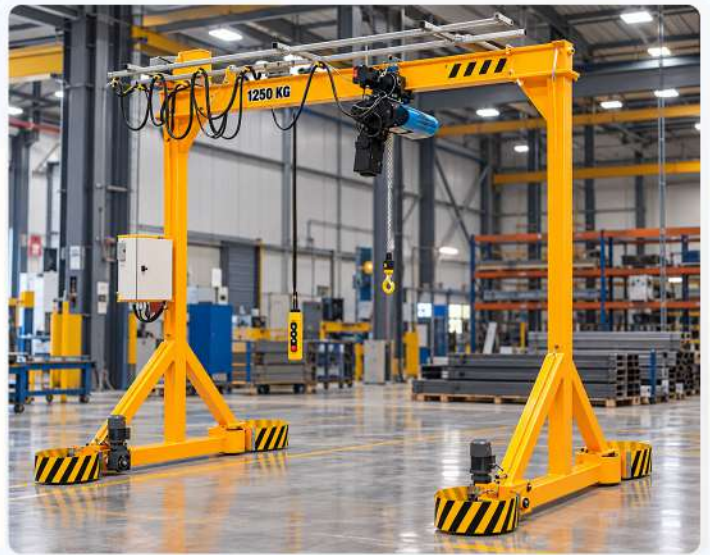


— INDUSTRIAL LIFTING EQUIPMENT & STRUCTURAL SOLUTIONS



Jib Crane — Pillar-Mounted Structure

Pillar-mounted jib crane structure designed for localized lifting and material-handling operations.



Gantry Crane — Structure

Pillar-mounted jib crane structure designed for localized lifting and material-handling operations.



Hoist Fitting & Installation at Site

On-site hoist fitting and installation services for industrial lifting and handling applications.



Repairing & Modification Work at Site

On-site engineering services for equipment repair, modification, maintenance, and operational restoration.



— STAINLESS STEEL TANKS & INDUSTRIAL TROLLEYS



SS Tank for Heating Treatment Lab

Stainless-steel processing tank designed for controlled heating and treatment applications in laboratory and industrial environments.



SS 316L Washing Tank for Formation

Stainless-steel 316L tank designed for washing and cleaning applications within formation processes.



SS 316L Grid Formation Tank

Corrosion-resistant stainless-steel tank engineered for grid formation applications.



SS Trolley for Formation

Stainless-steel trolley designed for safe and efficient material handling during battery formation operations.



— INDUSTRIAL FABRICATION & MATERIAL HANDLING SOLUTIONS



MS Industrial Rack

Heavy-duty industrial storage rack designed for organized material and component handling.



MS Battery Cage

Purpose-built battery storage and handling cage designed for organized industrial operations.



MS Cabinet Rack for Departments

Industrial cabinet and rack system designed for structured departmental storage and organization.



MS Trolley with Bins for Production Line

Mobile material-handling trolley equipped with bins for organized line-side component supply.

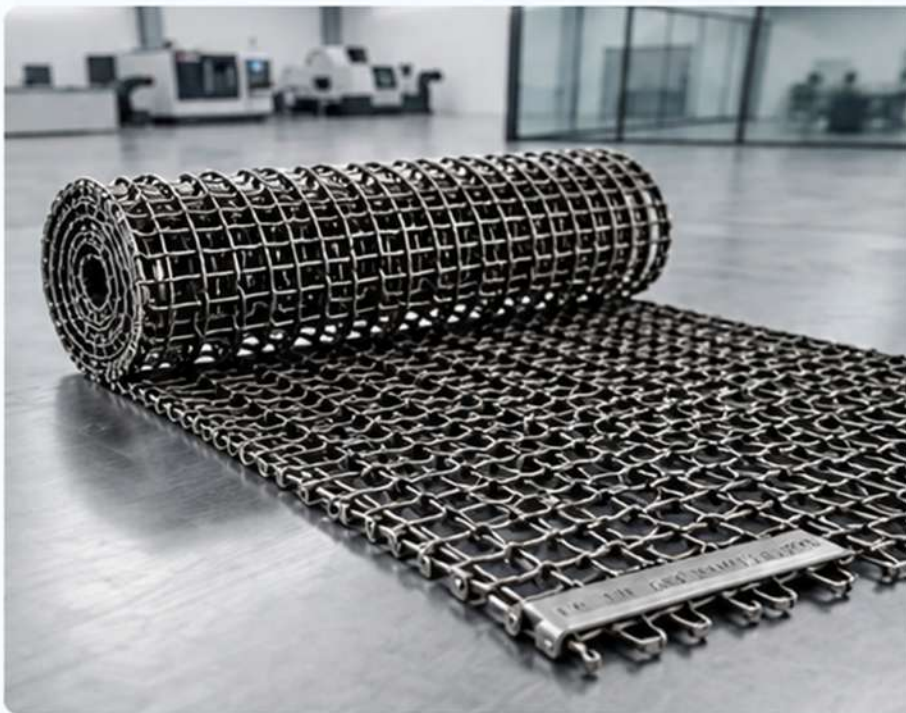


— INDUSTRIAL FABRICATION & MATERIAL HANDLING SOLUTIONS



Industrial Tables for Inspection

Ergonomically designed industrial worktables for organized inspection and quality-control activities.



SS 316L Chain Belt for Pasting Machine

Corrosion-resistant stainless-steel chain belt designed for continuous-duty pasting-machine applications.



— INDUSTRIAL FURNACES & CUSTOM FABRICATION



MS Rotary Furnace

Industrial rotary furnace designed for controlled thermal processing and material treatment.



Furnace Pot for Accessory Casting

Heavy-duty furnace pot designed for controlled melting and casting of industrial accessories.



MS Furnace Pot for GCM

Mild-steel furnace pot specifically designed for Grid Casting Machine (GCM) applications.

CONTACT US

We are here to support your requirements, answer your queries and provide customized engineering solutions for your business.



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Engineering Precision.
Manufacturing Excellence.



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