



Innovative Solutions for the Steel Industry



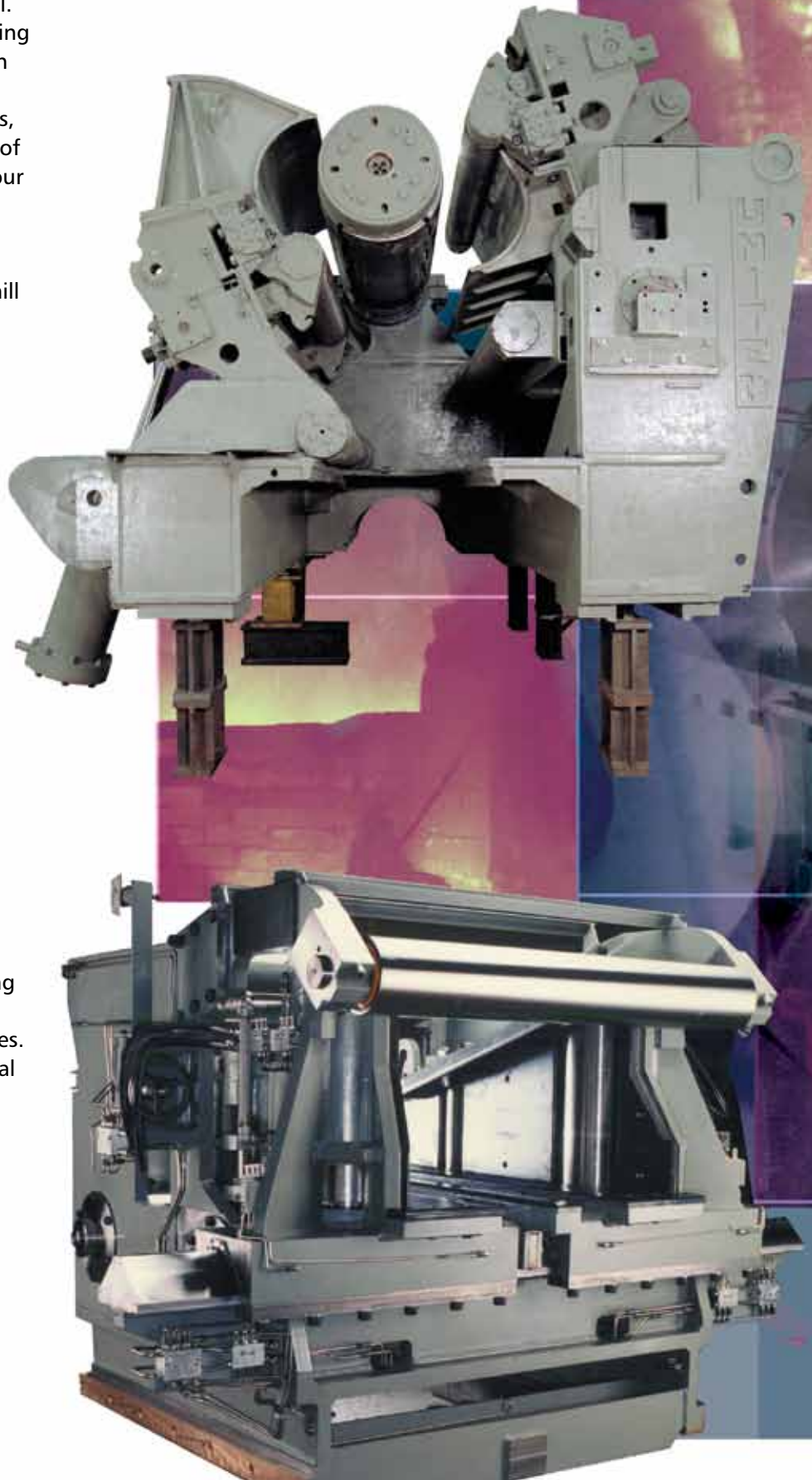
# STEEL. WE'RE IN IT, START TO FINISH.

Enprotech Industrial Technologies, LLC provides a full range of products and services used in manufacturing, shaping and processing steel. Enprotech is a leader in designing steel-making equipment and related repairs. Offering such diverse items as silica brick for metallurgical coke ovens and rolls for the finishing process, we are well known for our extensive variety of parts and services which are sure to meet your full range of steel-making needs.

We have comprehensive expertise in engineering, manufacturing and repairing mill equipment with the ability to provide innovative solutions to the steel industry.

## MEETING YOU WHERE YOU ARE

With machine shop and welding facilities in Cleveland, Ohio; LaPorte, Indiana; Lansing, Michigan and Elizabethtown, Kentucky, Enprotech goes beyond manufacturing by providing a wide variety of services, including engineering, machining, welding, on-site maintenance management and repair services. We also offer a unique combination of global technologies, experience and industry knowledge.



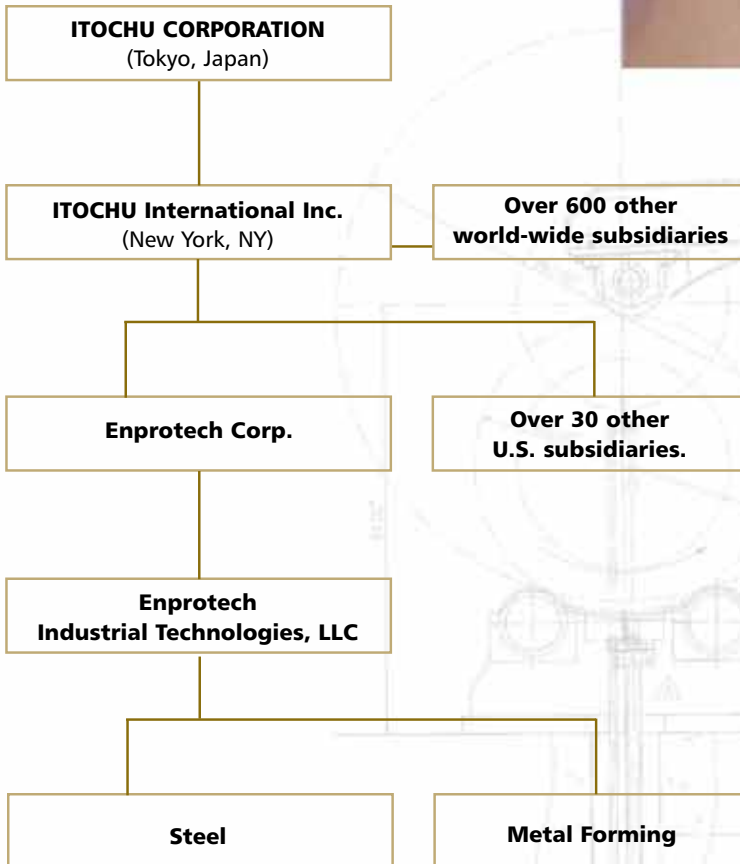
# A COMPLETE MILL RESOURCE

CATEGORY	DESCRIPTION
Coke Ovens	Oven Silica Brick • Doors & Door Repairs
Blast Furnace	Tuyeres • Staves (Copper & Ductile Iron) & Cooling Plates • Cold Blast Valve Repairs • Sintering Plant Breakers
Steelmaking	EAF Vessel Brick & BOF Converter Brick • BOF Lances • Isostatically Pressed Tap Hole Sleeves • Insulator Bricks
Ladle	Wear Lining Brick & Slag Line Brick • Well Blocks & Well Nozzles • Plug Blocks • Gas Purging Plugs & Castables • Ladle Gate System Refractory • Alumina Graphite & Fused Silica Ladle Shrouds
Caster	Gas Purging Nozzles & Zirconia Metering Nozzles • Tundish Gate System Refractory • Alumina Graphite & Fused Silica Products • Thin Slab Alumina Graphite Submerged Nozzles • Segment Repair, Manufacturing & Engineering • Spray Nozzles • Bearings • Bearing Housings • Chocks • Rolls • Full Caster Evaluation, Including Alignments • Frames • Dummy Bars • Molds • Oscillators • Torch Lines • Tables • Comprehensive caster maintenance services including state-of-the-art engineering
Slide Gate Hardware	Ladle Slide Gate Systems • Tundish Slide Gate Systems • Hydraulic Systems (Ladle & Tundish Gates) • Spare Parts
Hot Mill	Reels & Mandrels • Descaling Nozzles • Descaling Hoods • Entry Guides • Chocks • Work Rolls • Backup Rolls • HSS Rolls • Tables • Rolls • Guides - Side & Mill Type • Slab Cars & Transfer Devices • Spindles • Spindle Carriers • Screwdown Screws & Nuts • Shears • Edger Rolls • Drive Shafts • Gearboxes • Pinion Stands • Roll Change Sleds • Pinch Rolls • Outboard Bearings • Coil Cars • Downcoiler Rebuilds • Wrapper Rolls & Aprons • Side Frames • Conveyors • Looper Rolls & Assemblies • Roll Repair
Cold Mill & Finishing Mill	Reels & Mandrels • Reel & Mandrel Repair • Descaling Nozzles • Entry Guides • Chocks • Work Rolls • Coil Cars • Gearboxes • Bridle Roll & Assemblies • Spindle & Carriers • Holddown Rolls • Coil Prep Equipment • Shears • Roll Change Sleds • Aprons • Beltwrappers • Screwdown Screws & Nuts • Roll Repair • Radiant Tubes • Coiling equipment services, including all facets of design, repair and new technology implementation
Lifting Devices	Slab Tongs • Coil Tongs • Rope Drums
Field Services	Machining • On-Site Repairs • Surge Maintenance
Maintenance & Repair Programs	Asset management programs including finance packages • Comprehensive engineering services including design, project management and on-site project evaluation • On-site maintenance services encompassing both technical and management expertise • Flow control valves and engineering for full integration



# PART OF A BIGGER PICTURE

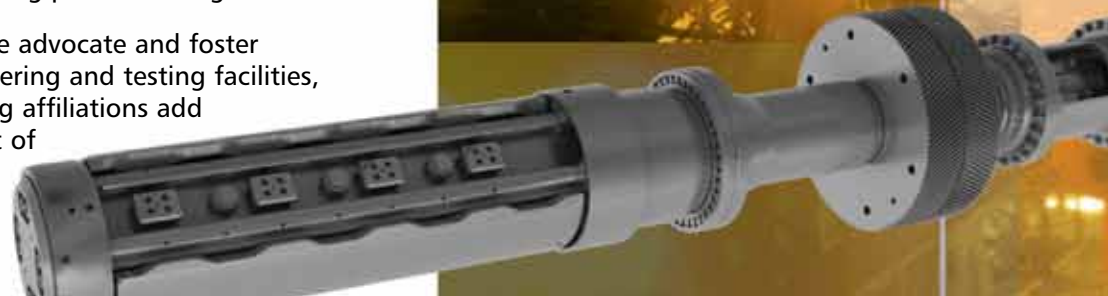
Enprotech, as a part of the Itochu Corporation family of global companies, looks enthusiastically to the future and its role in the steel-making and metal-forming industries. Our worldwide network has offices in over 100 countries.



## ENGINEERING — WHERE IT ALL STARTS

Our in-house engineering department boasts the latest in design and engineering technology and is staffed by industry leading engineers from various disciplines, fully versed in both designing new equipment and modifying your existing equipment. In support of our customers, we maintain an electronic drawing database, allowing for efficient archival and retrieval, streamlined revisions and revision control and easy accessibility to electronic transfer. Our staff can work with your maintenance managers to improve your existing equipment and to ensure that your processing lines are operating per OEM design.

Further, to aid in failure analysis, we advocate and foster relationships with university engineering and testing facilities, while numerous outside engineering affiliations add valuable global resources to our list of assets. Complete engineering services are available for on-site project evaluations.



# WE'RE ALL ABOUT QUALITY SOLUTIONS.

The 21st century has brought dramatic changes to the steel-making industry and Enprotech has evolved in response and in anticipation, so that we can most effectively meet the needs of our customers in a competitive global market.

The result is a "one-stop" resource for innovative steel industry solutions.



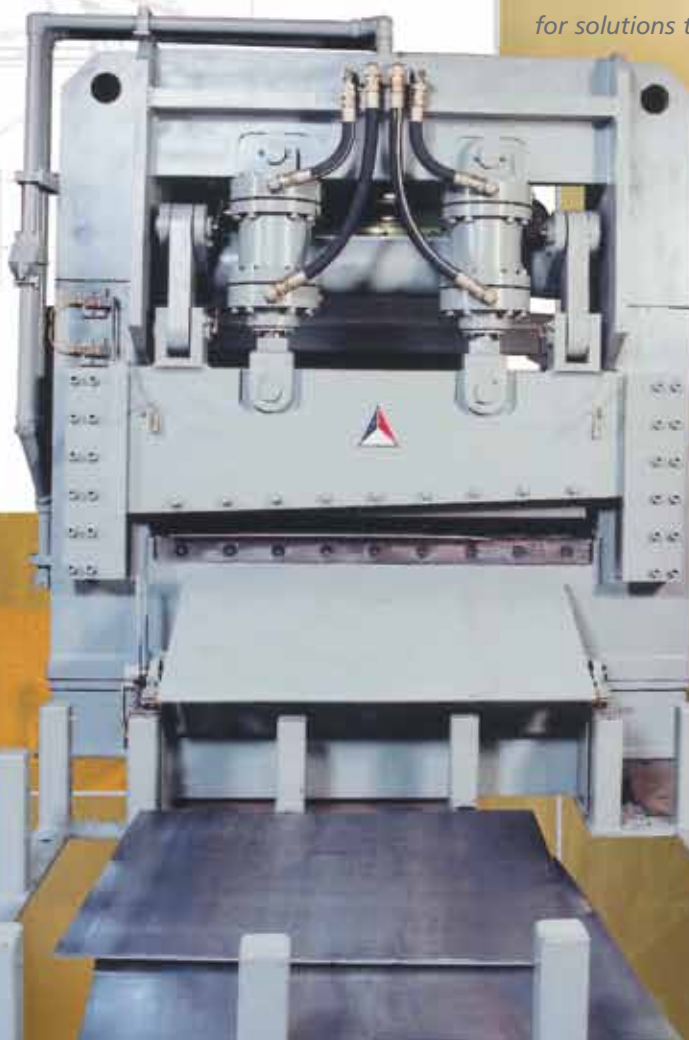
*INNOVATION*

*CREATIVITY*

*CHANGE*

*These are the building blocks  
for solutions that work.*

ENPROTECH IS  
ISO 9001:2008  
AND  
ISO/14001  
CERTIFIED.



# EQUIPMENT LIST

## Enprotech Machining Highlights

- 7 Large Floor Mills
  - Load capacity range of 50,000# to 400,000#
  - Travels ranging from 240" x 76" to 349" x 156"
  - Rotary table with 160,000 lb capacity
- 9 CNC Table Mills
  - Table capacity of up to 44,000#
  - Travel up to 140" x 96"
- 7 CNC Lathes
  - Capable of handling shafts in length of 236" and up to 53" diameter
- Conventional Lathes
  - Capable of turning up to 480" in length and 97" in diameter
- VTLs
  - Capable of turning a part up to 139" in diameter
- 7 Sub- Arc Welding Stations
  - Capable of welding shafts up to 384" long and 72" in diameter

BOF PRECIPITATOR BREACHING FABRICATION



FULL CNC CAPABILITIES



DOWNCOILER FRAMES -  
NEW OR REFURBISHED



# PLANT SPECS

## Cleveland, Ohio

### PLANT 1

Size: Office = 30,000 sq. ft.  
Mfg. = 120,000 sq. ft.  
Cranes: (2) 25 Ton  
(2) 15 Ton  
(2) 10 Ton

### PLANT 2

Size: 30,000 sq. ft.  
Cranes: (2) 50 Ton  
(3) 25 Ton  
(2) 15 Ton  
(2) 10 Ton

## Lansing, Michigan

### PLANT 1

Size: 50,000 sq. ft.  
Cranes: (1) 30 Ton

### PLANT 2

Size: 35,000 sq. ft.  
Cranes: (2) 20 Ton

## LaPorte, Indiana

Size: Office = 2,000 sq. ft.  
Mfg. = 43,000 sq. ft.  
Cranes: (2) 25 Ton  
(1) 10 Ton

## Elizabethtown, Kentucky

Size: 60,000 sq. ft.  
Cranes: (1) 50 Ton



## INNOVATIVE SOLUTIONS FOR THE STEEL INDUSTRY

Thank you for your interest in Enprotech. As a leader in providing consumables, engineering, manufacturing and equipment repair to the steel and metal forming industries, Enprotech is on the forefront of technological solutions for the global market. All employees are dedicated to delivering products that meet our high standards of quality. We continue to work with our customers to improve manufacturing cost, product, quality and overall employee safety.



**ENPROTECH INDUSTRIAL TECHNOLOGIES**  
[www.enprosteel.com](http://www.enprosteel.com)

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