

ArcelorMittal USA



ArcelorMittal

# Solutions in Steel™ for Plate

Company and product overview



# ArcelorMittal

## Who we are

### The world's leading steel company

ArcelorMittal is the world's **leading** steel company with operations in more than **60 countries** and approximately **285,000 employees** around the world. The Health and Safety of our employees is our top priority. We continue to aim toward the **goal of zero accidents**.

As a **steel and mining company**, ArcelorMittal had **revenues of \$78 billion** in 2010 with **shipments of 85 million tons**, representing about 6 percent of the world steel output.

The company has an **industrial presence in 20 countries** across the Americas, Africa, Asia and Europe.

The company holds large captive supplies of raw materials and **leadership positions in all major global customer segments**: automotive, construction, infrastructure, household appliances and energy.

ArcelorMittal is committed to its promise of **“transforming tomorrow”** and the three values that underpin it – **Sustainability, Quality and Leadership**.



# Leadership and competitive advantages in value added products

## Global company

Global reach towards key customers with production facilities in all major markets.

## Knowledgeable team

With thousands of employees around the world, our people bring a breadth of knowledge and extensive expertise to our customers. This includes a dedicated sales team to provide customers the information they need and attention they deserve.

## Research and Development expertise

Leading R&D and product development capability with approximately 1,400 researchers in 14 research centers in Europe and the Americas allowing us to rapidly launch new products and customized solutions.

## Production expertise

Plates are produced using sound metallurgical practices at modern facilities using advanced technologies to produce high-quality products. We have multiple plate production facilities allowing for manufacturing flexibility and geographical coverage to better serve our customers and markets.

## Product diversity

A broad range of value-added products, including flat carbon, tubular and long products. This allows ArcelorMittal to provide a complete offering of advanced solutions and products to meet and exceed customer expectations.



## Products

- Broadest plate product range in the industry.
- Product mix includes As Rolled plate produced from the highest quality slabs or unique ingot configuration as well as the capability to apply TMCP\* technology to achieve superior plate properties without heat treating.
- Possess the largest and most capable plate Heat Treating capacity in the industry including Quench and Temper, Normalized, Anneal and Stress Relieve.
- Our plate products are produced to all major specifying agencies including ASTM, ASME, AISI and API as well as many European requirements and customer designed specifications.

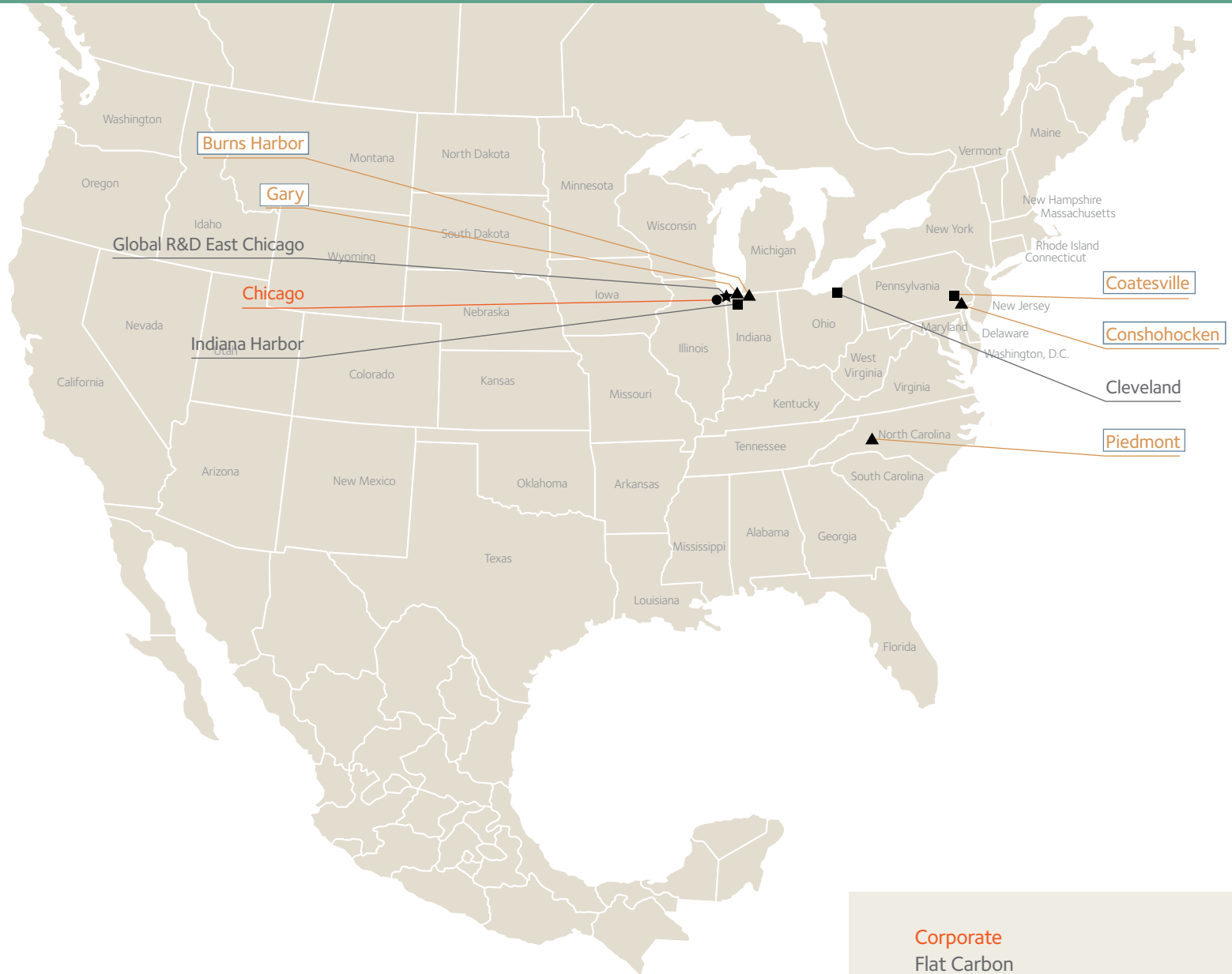
\* Thermal-Mechanical Controlled Processing

## Markets

- Our broad product capability allows us to serve a diversified portfolio of end plate markets.
- Plate markets served include: Energy (including offshore, pipe, wind and process vessel), Machinery, Rail, Construction, Shipbuilding and Distribution.



# Extensive USA Plate production facilities



## Melting Facilities

### Burns Harbor, IN, Indiana Harbor, IN, and Cleveland, OH

Blast Furnaces/Basic Oxygen Furnaces  
10" Continuous Cast Slabs

### Coatesville, PA

Electric Furnace Melting  
9" Continuous Cast Slabs; Bottom  
Poured Ingot Casting  
Ladle Refining/Low Sulfur Calcium  
Inclusion Shape Control  
Vacuum Degassing  
VOD Unit – Duracorr® Stainless Melting

## Rolling and Heat Treating Capabilities

### Burns Harbor, IN and Gary, IN

Rolling Capability  $\frac{3}{16}$ " to 4"  
Heat Treatment Capability  $\frac{3}{16}$ " to 4"  
Up to 150" wide  
TMCP  
Precise Weight Plate

### Coatesville, PA

Rolling Capability  $\frac{3}{16}$ " to 28"  
Heat Treatment Capability  $\frac{3}{16}$ " to 28"  
Up to 195" wide

### Conshohocken, PA

Rolling Capability  $\frac{1}{8}$ " to 3"  
Heat Treatment Capability  $\frac{1}{8}$ " to 3"  
Up to 100" wide  
Discrete and Coil

Corporate  
Flat Carbon  
Plate

- Corporate Office/District Sales
- Steelmaking and processing facilities
- ▲ Processing facilities
- ★ Research and development
- Key supplier of plate market

*Above is a partial listing of all ArcelorMittal locations within North America.*



# Diverse product range for the Plate market

## Markets

	Burns Harbor, IN/ Gary, IN	Conshohocken, PA	Coatesville, PA
Bridges	■	■	■
Construction & Agricultural Machinery	■	■	■
Industrial Machinery	■	■	■
Mining Machinery	■	■	■
Offshore Platforms	■		■
Oil and Gas Pipelines	■		
Rail Car Industry	■		■
Shipbuilding (Barges, Navy Ships)	■	■	■
Storage Tanks	■	■	■
Transmission Poles	■		■
Wind Towers	■	■	■



## Products

Aircraft Quality Steels		■	■
ASTM Grades	■	■	■
Clad			■
Cryogenic Steels		■	■
Flame Cut Shapes		■	■
Free Machining Steels		■	■
General Purpose Heat Treat Products	■	■	■
General Purpose Structural Grades	■	■	■
High Strength Steels	■	■	■
Military Alloys		■	■
Mold, Tool and Die steels		■	■
Nuclear Grades	■	■	■
Premium Abrasion Steels		■	■
Proprietary Grades	■	■	■
Safety Floor Plate		■	
Weathering Steels	■	■	■



## Special Features

### Plate Types

Carbon & HSLA  
Alloy – Commercial Grades,  
Military Armor, Aircraft  
Quality, Tool Steel  
Roll Bonded Clad Steel  
Duracorr®  
(12% Chromium Stainless)  
Plate Coils  
Floor Plate

### Heat Treatment

Normalizing, Normalize and Temper  
Quench & Temper  
Annealing, Spheroidize Anneal  
Stress Relieving  
Special Non-Standard Cycles

### Melt Practices

Calcium Treated  
Coarse Grain Practice  
Fine Grain Practice

### Special Tolerances

Precise Weight Plate

### Surface Preparation

Oiling  
Blasting  
Priming

### Flame Cutting

Oxy-Fuel & Plasma  
Circles, Rings, Sketches,  
and Strips

### Standardized Testing

Tensile  
CVN Impacts, Drop Weight  
HIC Testing  
Through Thickness Testing  
Through Gauge Testing, Dynamic Tear  
Cleanliness (Aircraft Quality)  
Ultrasonic Testing, Step-Cooled  
Magnetic Particle Testing

### Certifications

ISO9001:2000, ABS

# Supporting the Plate market



Employ certified manufacturing processes and laboratory testing to ensure consistent product quality



Introduce new or enhanced products developed by our Global R&D to meet or exceed customer expectations

Offer metallurgical, welding, R&D, and advanced engineering support to improve integrity of Plate products



In 2011, introducing state-of-the-art Heat Treating, Blasting, and Priming capabilities at our Burns Harbor, IN operation

Provide products from multiple locations through one company

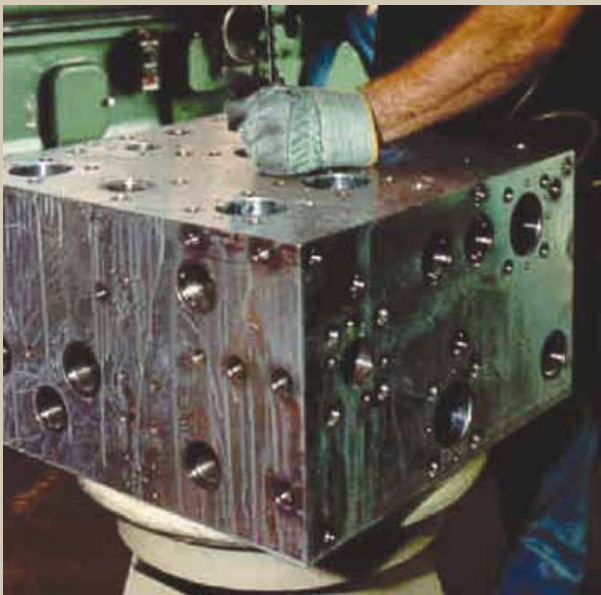


Continue to develop and produce plate grades that can be incorporated into an expanding array of end uses



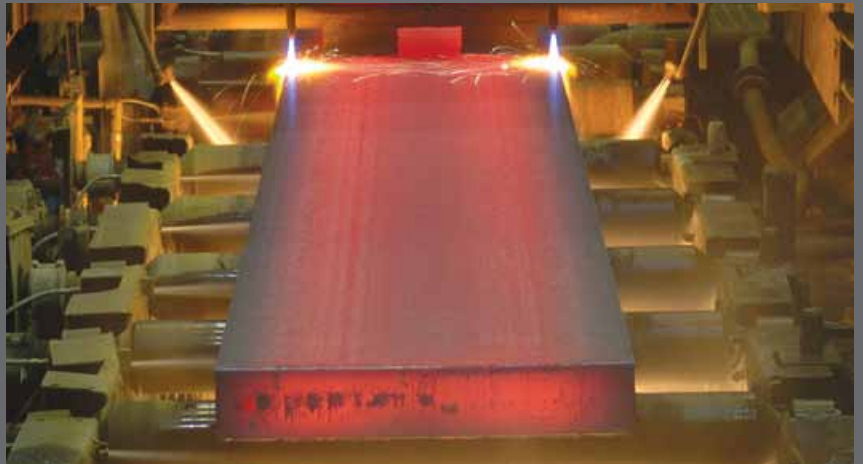
ArcelorMittal USA products meet the "Buy American" provisions of both the *Surface Transportation Assistance Act of 1982* and the *American Recovery and Reinvestment Act of 2009*.





# Key facts

- Steel is the world's most recycled material, and in North America alone over 80 million tons of steel are recycled or exported for recycling annually
- Recycling steel saves energy and natural resources, with an energy savings equivalent to the energy required to power 20 million households per year
- As a result of the inherent nature of steelmaking and scrap usage, ArcelorMittal has become one of the largest recycled steel consumers in North America
- Through its core values of Sustainability, Quality and Leadership, ArcelorMittal commits to operating in a responsible manner with respect to the health, safety and wellbeing of its employees, contractors and the communities in which it operates. It is also committed to the sustainable management of the environment and its finite resources
- ArcelorMittal recognizes that it has a significant responsibility to tackle the global climate change challenge: it takes a leading role in the industry's efforts to develop breakthrough steelmaking technologies and is actively researching and developing steel-based technologies and solutions that contribute to combat climate change



## transforming tomorrow

### United States

#### ArcelorMittal USA

Corporate Office  
1 South Dearborn Street  
18th Floor  
Chicago, IL 60603-9888  
USA

T +1 800 422 9422

#### ArcelorMittal USA

Plate  
ARC Building  
139 Modena Road  
Coatesville, PA 19320-0911  
USA

T +1 800 966 5352

#### ArcelorMittal USA

Plate  
250 West U.S. Highway 12  
Burns Harbor, IN 46304-9745  
USA

T +1 800 422 9422

E [usaplateinquiries@arcelormittal.com](mailto:usaplateinquiries@arcelormittal.com)

[www.arcelormittal.com](http://www.arcelormittal.com)

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