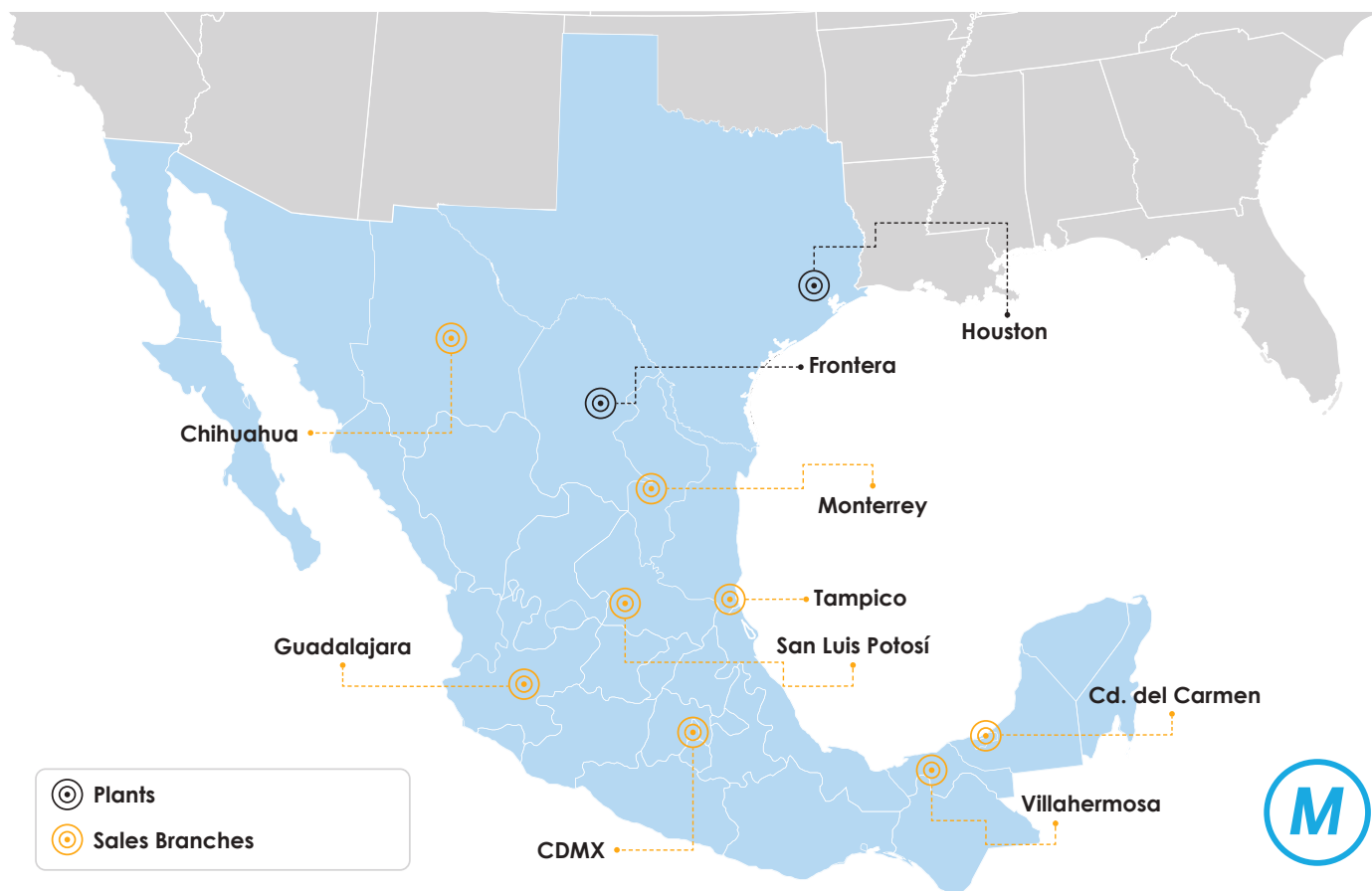




Industrial
Structural Steel Catalog



METELMEX

We have successfully provided services to different industries worldwide. By offering high quality products at competitive prices, we have gained prestige as one of the most important Mexican companies in its field on a national and international level.

Even though our main area of expertise is the fabrication of Steel Bar Grating, due to our client's requirements and the highly demanded standards by the market, we have grown our range of products. Thus, we can offer integrated projects that include Steel Fabrication, Grating and Hot Dip Galvanizing. Since we offer 3 products as one supplier, we are the most attractive commercial partner in the market always delivering the highest quality products and in shorter periods of time.

We have been working under strict quality standards such as ASTM, following regulations of the associations to which we belong, such as NAAMM and AMEGAC. Through this behavior, we have achieved CFE-LAPEM certifications in the power industry; ISO-9001 certification by BICERT for export projects; and AAR M-1003, which has allowed us to successfully provide our services to the railcar industry.





STEEL STRUCTURES

We are determined to serve our clients by offering solutions for their projects. Therefore, today we manufacture **Steel, Stainless Steel and Aluminium Structures**.

Our products can be manufactured with any of client's construction material specifications, always following the rigid international quality standards, and supervised by our CWI Certified Welding Inspector.

CWI (CERTIFIED WELDING INSPECTOR)

– A CWI's (CERTIFIED WELDING INSPECTOR) role is to show meticulous attention to details, requirements, knowledge, and other skills related to welding. They are commonly considered a secure network, responsible for identifying errors that could cause great product damage.





MANUFACTURING PLANTS

We have manufacturing plants in Monclova, Coahuila, Tampico, Tamaulipas and Houston, Texas.

Monclova Plant 4

53,000 sqft

Houston Shop

18,000 sqft

Tampico Yards

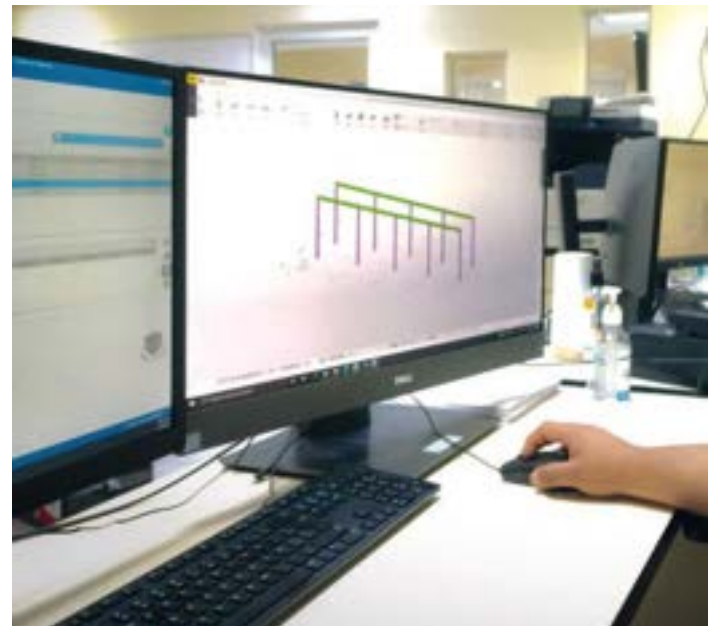
60,000 sqft

ENGINEERING

We have an engineering team updated in the most advanced softwares used in the industry, including AutoCAD, Tekla, Fast Cam, Lantek Expert, Boyser Nest and Steel-Project PLM.

Our Engineering services are:

- Integrated Systems for the generation of CNC instructions
- Structural Design to advise and reduce costs
- Workshop drawings to model, detail, generate material lists and CNC data



ex lantek expert

BOYSER

Tekla Structures

AUTOCAD

FastCAM

Steel Project PLM Drive your production

PRODUCTION

We have a variety of Welding Procedure Specifications (WPS) to weld different types of materials, as well as a vast staff of qualified welders who operate under international welding codes such as AWS D1.1, D15.1 and ASME Section IX; All this documentation endorsed and certified by a Certified Welding Inspector (CWI).

Moreover, we have paint operators trained to work under SSPC standards.

QUALITY

All our raw materials, as well as our suppliers, are selected and inspected by our Quality department made up of more than 10 inspectors.

In this way we ensure that the materials used, and the finishes of the final products meet our client's requirements as well as international standards.

Our quality inspectors have the following certifications:

- Welding Inspectors Specialist (WIS)
- Penetrating Liquids Level II, according to ASNT TC-1
- Magnetic Particles Level II, according to ASNT TC-1
- Visual inspection Level I and II.





EXPORT

In addition to providing our products to our national clients, we are exporting. Our manufactured products are mainly shipped to the United States and Canada.

However, we have participated in projects in other countries complying with all quality standards and legal aspects so that the product reaches our clients in a timely manner.

TRACEABILITY

All our manufactured products have labels, symbols and punch numbers that allow us to have control over our products.

Traceability is carried out every day allowing us to have a file on each project that allows us to review historical information that clients may require, as well as part and element locations for their installation.





LIGHT STRUCTURES

We categorize as Light Structures products Marine Ladders, Angle and Pipe Railings, Rectangular or Circular Platforms with Angles less than 4".

When the project includes grating, we always use Metelmex Grating to ensure the best quality and delivery time.



MEDIUM STRUCTURES

Fabrication of structural profiles with mooring angles, or bracing bigger than 4", are categorized as Medium Structures.

The most common products fabricated include Channel or Beam Platforms, as well as Stairs designed with channel rafters and Metelmex grating steps, these are mainly used to create pedestrian accesses to platforms or elevated accesses.

In these stairs the support is developed based on beams ranging from 6" to 12" in depth, which serve as columns, beams and/or moorings.

HEAVY STRUCTURES

We have vast experience in the category of Heavy Structures.

We have manufactured products such as Casings, Industrial Chimneys, Gas Inlet / Outlet Ducts, as well as large parts of structures for marine platforms, such as Piers, Rail Beams, Stanchions, Process Piping, among others.

The manufacture of Special 3-Plate Beams is also part of this manufacturing category.

COATINGS AND FINISHES

Depending on client's specifications, we can sandblast too. Afterwards, the products go to the Coatings and Finishing area.





HOT DIP GALVANIZING

Our company has its own galvanizing plant which allows us to ensure the required quality, improve delivery times and give our client the ease of having a single supplier.

The main coating we offer is our Hot Dip Galvanizing. This process offers the maximum anticorrosive protection for any product made of steel, and it is a coating used in industrial, civil, commercial, and urban projects.

This process is achieved through immersing steel products in a bath of molten zinc, allowing a coating that does not deposit itself on the surface, but forms a zinc-iron alloy with high resistance to the different corrosion agents in the atmosphere, water or soil.

The process is carried out following ASTM-123, ISO-1461 and NMX-H-004 standards.

PAINT

Separately we offer the application of Primary Paints and depending on the needs of our clients we can apply complete coating systems based on epoxies and polyurethanes.





ENABLED PROCESSES

TECOI PANTOGRAPH PLASMA

We have plasmas with a waterbed and an anti-collision system.

The equipment is designed to transform the way of cutting and marking flat materials at an unsurpassed speed and quality.

Cutting Capacity:

- 2" carbon steel
- 2" stainless steel

Dimensions:

- 11.5 x 47.5 ft



BOYSER PANTOGRAPH PLASMA

It controls several fuel cutting peaks at the same time, it has an automatic height control and an anti-collision sensor.

It can cut steel, iron, aluminium, galvanized steel, titanium, among others.

Cutting Capacity:

- 3/4" carbon steel
- 5/8" stainless steel

Dimensions:

- 5 x 20 ft

ROLLER

Our rolling machine capacities are up to 1" thick on a 10 ft curtain. The radius or diameter is not limited.

FICEP CNC CUTTING AND DRILLING

Within our equipment we have high-tech machinery such as the FICEP VANGUARD Model 1003 DDVB, which facilitates the fitting of 20" depth and 39" width beams, as well as channels and angles greater than 3" depth.

Vanguard is a CNC controlled three head automatic profile drilling line that is equipped with automatic tool changers and a four-side scribing function.





Quality Performance Every Step you Take

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