



CASTING AND MACHINING PARTS IN GRAY IRON AND NODULAR IRON

In all its classes from **3.30 lb** to **374 lb**



Images for strictly illustrative purposes to show general characteristics. They are NOT an exact representation of reality.



About us?

We are a **100% company** that has been transformed over the time to offer more and better products through out its 3 divisions (**Hydraulics, Foundry and Machining**).

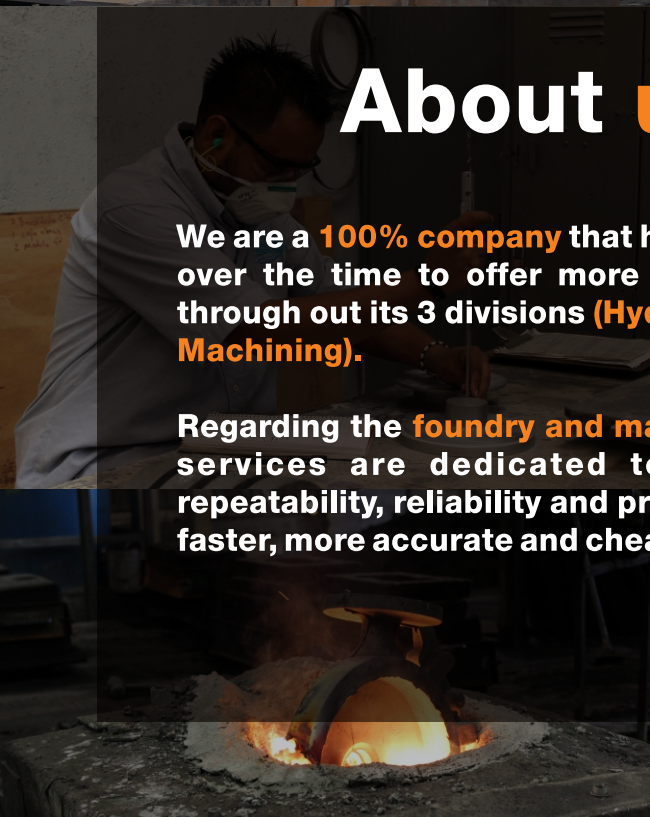
Regarding the **foundry and machining** division, our services are dedicated to offer parts with repeatability, reliability and precision, making work faster, more accurate and cheaper.

What we do?

Our Foundry cast and machine parts in gray and nodular iron in all types from **3.30 lb to 374 lb**, reaching an installed production capacity of 300 tons per year in three shifts.

We specialize in the **manufacture of parts**, with needs for high mix and low volume.

We also offer **CNC machining** that enables repeatability, reliability and precision, making work faster, more accurate and cheaper.





Segments where we offer services

- Sugar industry
- Cement
- Building
- Electric
- Water pumps
- Telecommunication
- Valves
- Electric motors
- Miner
- Stationer
- Petrochemical
- Spare parts
- Railroads
- Thermal treatments
- Port infrastructure



Infrastructure

- We have 2 induction furnaces with a capacity of 250 kilos
- Spectrometer (chemical analysis of 22 elements)
- HB and RC hardness tester
- Carbon and silicon analyzer
- Arena Laboratory
- Molding systems
 - Self-curing
 - Green sand
 - Cores in Shell or cold box
- CNC (numerical control machines)
- Milling machine
- Drill presses
- Grinding machine
- Lathes



Patterns

Since we have top quality **infrastructure**, through our process of **creation models**, we identify and cover a need in the most efficient way. In order that our clients get satisfied with the result, our work in the **creation of models** is inspected under the most used quality standards in the market.

We manufacture models with the following materials:



Wood



Aluminum



Plastic

GRAY IRON

ASTM A 48 AND ASTM A 126 in all its classes

One of the distinctive feature of **Gray** casting is that carbon is generally found as **graphite**, adopting irregular shapes described as "flakes". This graphite is what gives the **gray coloring** to the rupture surfaces of the pieces made with this material.

From **3.30 lb** to **374 lb**



Good machinism



Wear resistant



Economically accessible



A lot of resilience



Easy to weld

NODULAR OR DUCTILE IRON

ASTM A 536 and ASTM 395 in all their classes



Nodular or ductile iron offers the meltability, machinability, and corrosion resistance of **gray iron** adding the high strength, ductility, and hardenability of steel. Our ductile iron castings are well known throughout the industry for their high impact **resistance** and high modulus of elasticity and strength, resulting in increased load capacity with less deflection.

From **3.30 lb** to **374 lb**



Machinability



Ability to molding



**High modulus of
elasticity**



**Abrasion
resistant**



**Tensile
strength**

MACHINING

To obtain the final piece, we have the most current **manufacturing** processes **for gray and nodular** cast iron using numerical control machinery which removes excess material.

There are various **machining operations** and each one of them are capable of generating a certain geometry and surface texture.



CNC



Milling machine



Drill



Grinding machine



Lathes

MACHINE WORKSHOP EQUIPMENT DESCRIPTION



CHEVALIER 40/20

Support: 3306 lb

Axis X 40" (Long)
Axis Y 20" (Width)
Axis Z 25" (Height)



Vf3 HAAS

Support: 3086 lb

Axis X 40" (Long)
Axis Y 20" (Width)
Axis Z 25" (Height)



Vf6 HAAS

Support: 3968 lb

Axis X 64" (Long)
Axis Y 32" (Width)
Axis Z 30" (Height)



VERTICAL LATHE

Support: 3086 lb

42" In full swing



CNC LATHE

Support: 551 lb

Live tools
12" in total swing per 1 m bench



TITANIUM LATHE

Support: 551 lb

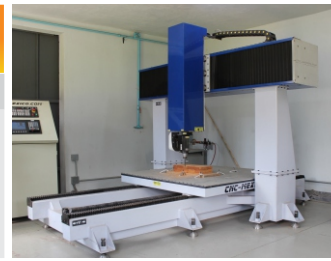
10" swing
1 meter bench



DRILL RADIAL

Support: 2204 lb

Conventional Flag Radial
Winch 1x1 m



MEXICO CNC ROUTER

150 cm in movements
in X, Y, Z



Sn50 CONVENTIONAL TOS LATHE

Support: 881 lb

18" swing x 1 ½ meter bench



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MEJORADA®

¡AT BM FUNDICIÓN WE ARE TO HELP YOU!

**El Salto Plant
Street A 200 Int. 402 BIS
Parque Industrial El Salto
Zip Code. 45680**

Tel. +52 (33) 36 88 18 28

contactofundicion@mejorada.mx



www.bmfundicion.mx