

METSI

Maquinados Especiales de Torno y Soldadura Industrial S. A de C. V

**MAQUINADOS ESPECIALES DE TORNO Y SOLDADURA
INDUSTRIAL S.A DE C.V**

METSI S. A DE C .V

December 2019

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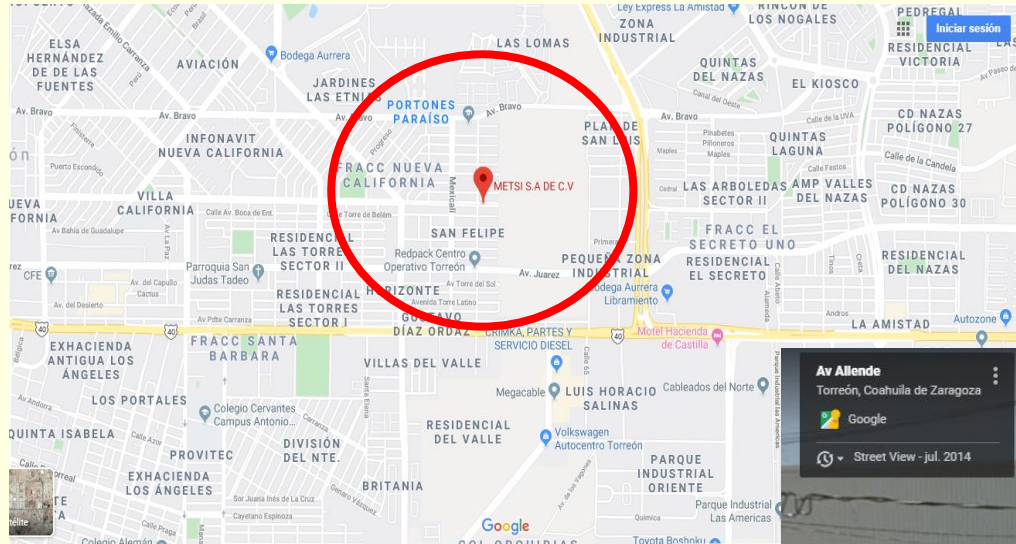
**METSI is a 100% Mexican company
Started operations on May 2002.**

Located at Torreon Coahuila México

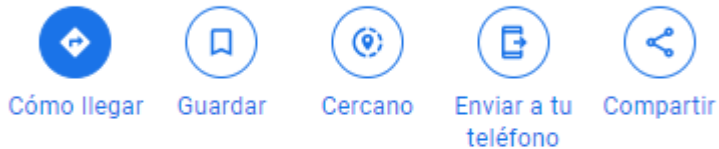


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METSI S.A DE C.V



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GJRC+65 Torreón, Coahuila de Zaragoza

871 732 7441



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METSI Offers following services:

- **Machining processes for productive and non productive parts, prototypes**
- **Spare parts (Wearing parts)**
- **Assemblies and sub assemblies**
- **Safety Guarding repairing**
- **Continues improvement (CI) Projects**
- **Welding Services TIG, MIG , Electric Arc**
- **welder certified by AWS Steels and Aluminum**
- **Wire EDM**
- **CNC machining (milling and turning)**
- **Conventional machining (milling and turning)**

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Customers

Motores John Deere



Sumitomo Wiring Systems



Industrias Niasa



Montiac



Lincoln Electric



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Customers

- **DEACERO Ramos Arizpe, Saltillo and Monterrey (Steel and Wire)**
- **Neapco Saltillo axles manufacturing**
- **Accurate Diamond Tools (New Jersey USA)**
- **Enablence (California USA)**
- **Heart Rate (California USA)**
- **Rhinestahl (Mason Ohio)**
- **Johnson Controls (Torreón – Celaya)**

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METSI Capacity

- **Spare parts**
- **Jigs and fixtures for productive processes**
- **Bushings**
- **Rest pads**
- **Shafts**
- **Threaded shafts**
- **Pins**
- **Special wear parts**
- **Prototypes**
- **Modifications to mechanical equipment**

Materials:

- **Stainless steel series 300 and 400**
- **Plastics (delrin, nylon,acetal, micarta)**
- **Brass**
- **Tool steel 01, D2**
- **Steel Alloy**

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Materials:

- **Bronze**
- **Copper**
- **Aluminum**
- **Cpvc**
- **Noryl**
- **Micarta**
- **Acetal**
- **Nylamid**

Manufacturing productive and non productive parts (spare parts)

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Software

- Solid work
- Acad 2000
- Bobcad
- Sprite

Machines

- Ceruti Boring machine A751 Machine
- Milling machine Bridgeport4 Machines
- Turning machine2 Machines
- Electric welding machine.....2 Machines
- CNC Machining center Haas VF3.....1 Machine
- CNC Turning machine with bar feeder SL10.....1 machine
- CNC Machining center Haas VF4.....1 Machine

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Sawing machine BMT 712

Hardness tester Phase II

Granite table to measure pieces

Machining capacity

Turning

24" Diameter

60" Length

Milling capacity

20" X 44" X 12"



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Boring and heavy machining

Milling 48" X 32" X 40"

Boring

Max. boring diameter 14"
Max. boring depth 22"
Max. load table 2 Tons.
Rotative table 360 degrees



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Machining center haas VF-3

Capacity

40" X 20" X 25"

Table size 18" X 48"

Magazine 24 tools



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SL-10 CNC TURNING



ACCURACY	S.A.E.	Metric
Positioning ($\pm$)	0.0002 "	0.005 mm
Repeatability	0.0001 "	0.003 mm

SPINDLE	S.A.E.	Metric
Spindle Nose	A2-5	
Max Rating	15 hp	11.2 kW
Max Speed	6000 rpm	6000 rpm
Max Torque	75 ft-lb @ 1300 rpm	102 Nm @ 1300 rpm
Spindle Bore $\varnothing$	2.31 "	58.7 mm
Draw Tube Bore $\varnothing$	1.81 "	46.0 mm

CAPACITIES	S.A.E.	Metric
Chuck Size	6.5 "	165 mm
Max Cutting Diameter	11.0 "	279 mm
Max Cutting Length	14.0 "	356 mm
Max Cutting Length w/Std Workholding	13.0 "	330 mm
Bar Capacity	1.75 "	44.5 mm
Between Centers	16.5 "	419 mm

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Photos



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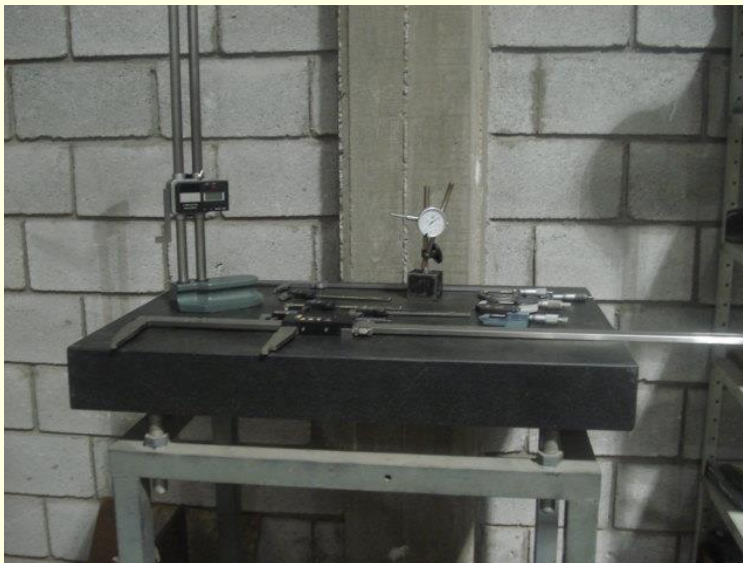
Machining Center Haas VF 4



Vertical Machining Center; 50" x 20" x 25"
(1270 x 508 x 635 mm), 40 taper, 30 hp
(22.4 kW) vector drive, 8100 rpm, inline
direct-drive, 20-station carousel tool
changer, 1000 ipm (25.4 m/min) rapids

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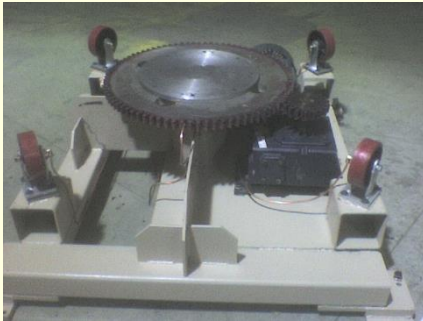
Measurement equipment
calibrated by SIA Calibration
external laboratory.

CMM service subcontracted
locally

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Some pieces manufactured by METSI



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Samples of jobs in different kind of materials



Cpvc



Steel



Aluminum



Stainless Steel



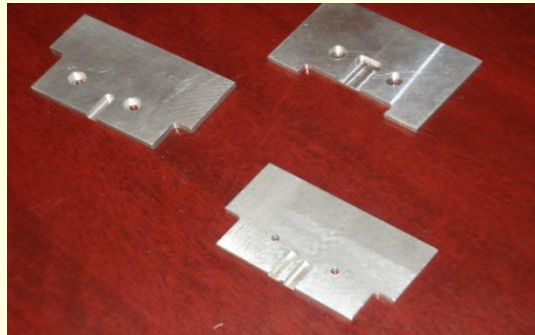
Brass



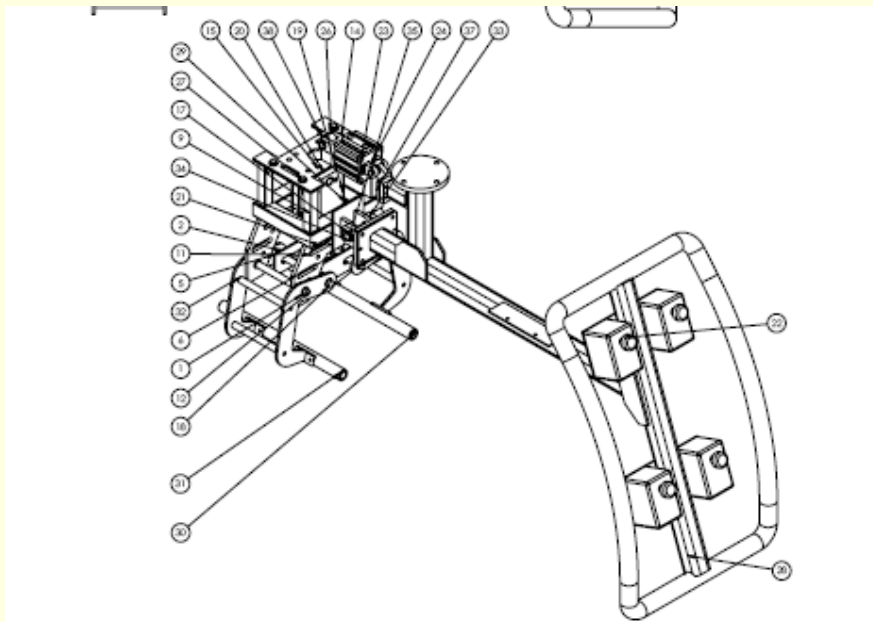
Acetal

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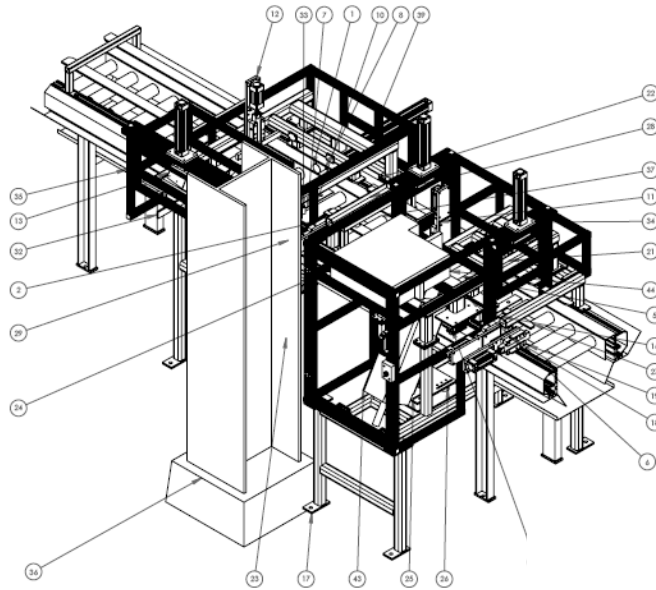
Aluminum Pieces



Gripper

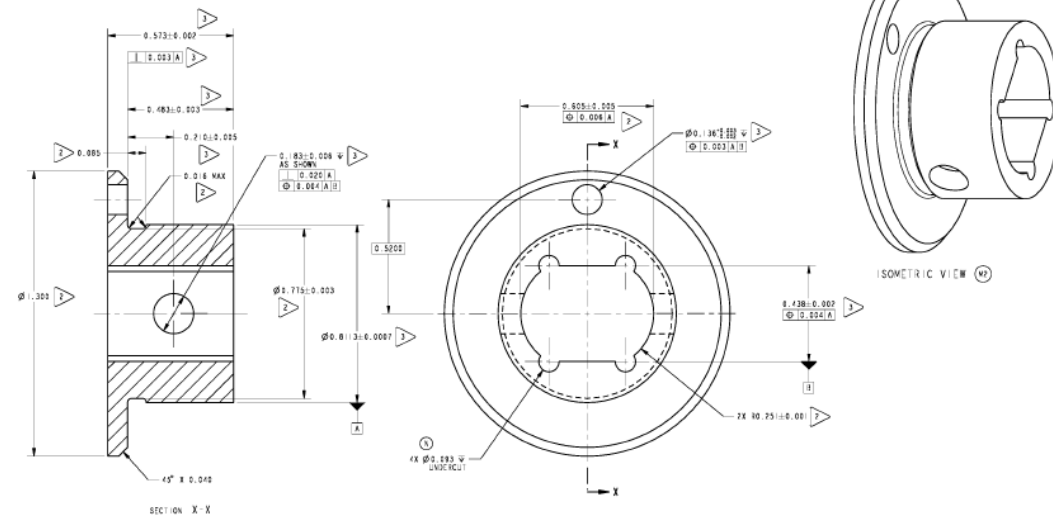
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Marking station

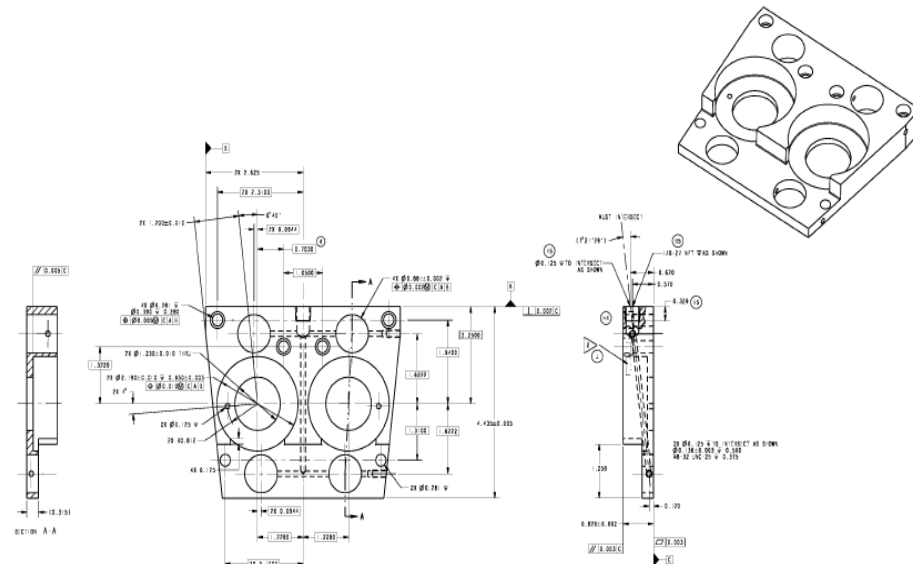
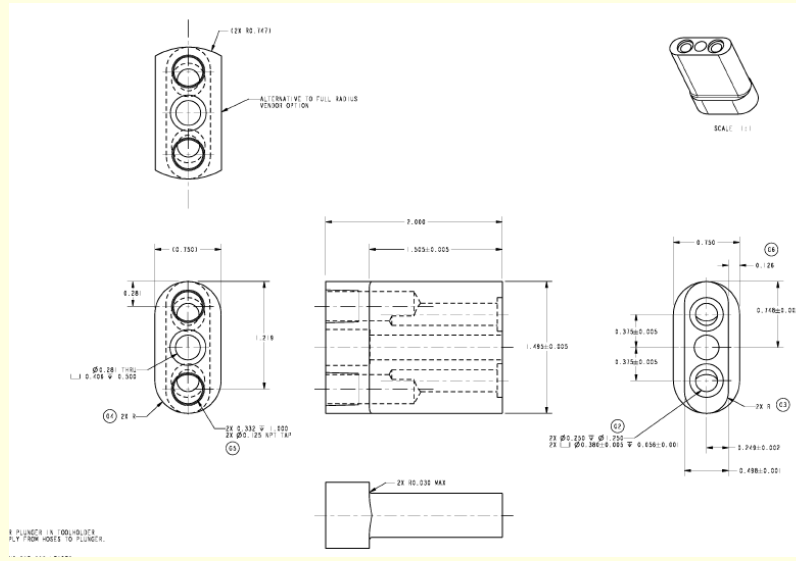
Bushing



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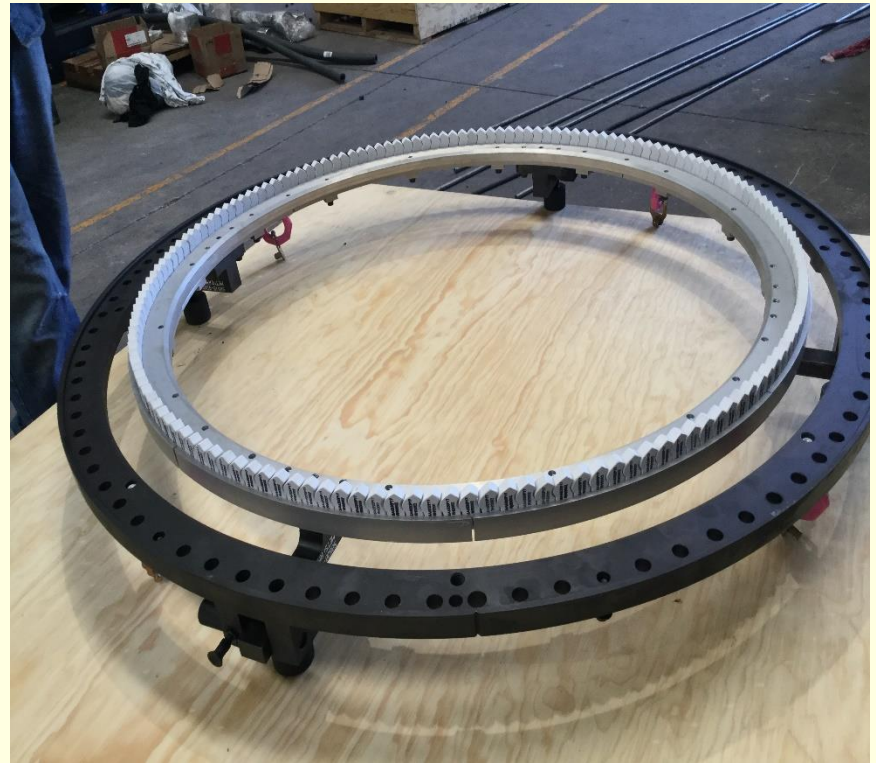
Spare parts



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Fixtures



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Fixtures



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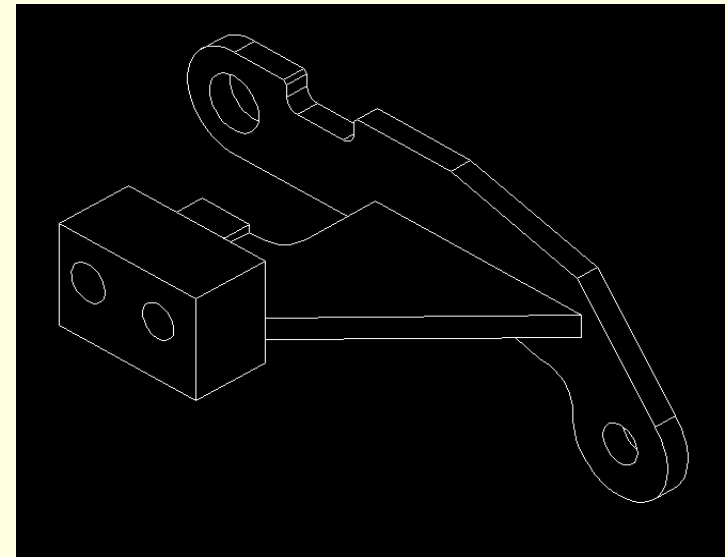
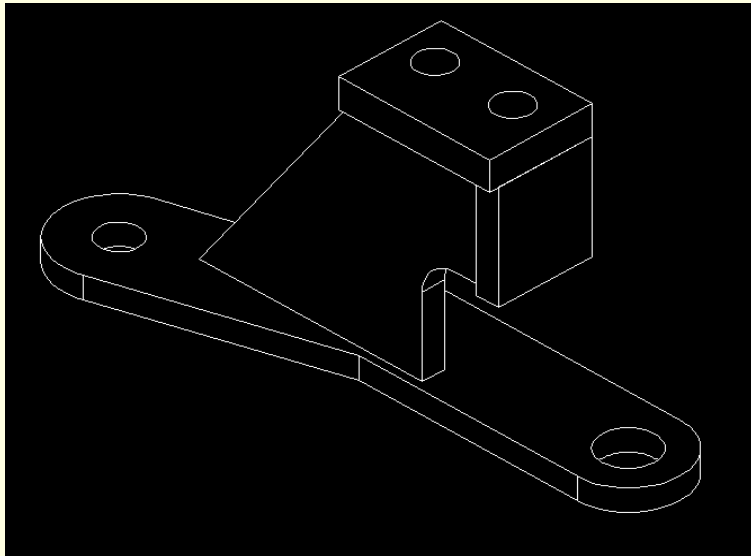
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Fixtures



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Cad Drawings

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