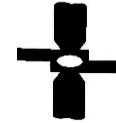




## [ BACKGROUND ]



**MAENA** was founded in 1972 with 100% Mexican capital by a group of entrepreneurs committed to the country and society, MAENA is now a growing company with an competitive business model that is dedicated to excellence.

## [ MISSION ]

Stamping parts for OEM manufacturers and their suppliers

•Offering:

- Excellent customer service
- Flexibility of manufacturing processes
- Competitive prices

•Maintain a profitable level through managed growth that ensures return on investment

## [ VISION ]

- To be an excellent company
  - To exceed our customer's expectation
  - To take care of the environment
  - To provide opportunities for all employees



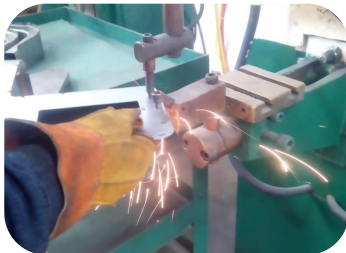
## [ LOCATION ]

Strategically placed at the center of the country, in **Pachuca** city, with efficient communication routes between the main industrial zones of the area and export ports.



We offer a complete solution regarding a stamping part. We define us like a "one stop shop" because of starting from a customer's part design we develop the following:

- Design of the manufacturing process
  - Tooling design
  - Tool fabrication
- Project development according automotive standards
- Part production
- Components assembly and Surface finishing
- Packaging and customer delivery
- After sales service



## [ VALUE PROPOSAL ]

### Competitive advantages:

- High service standards and more competitive prices.
- Certified in ISO/TS:16949 since 2001, updated to IATF 16949
- Over than 40 years experience in automotive industry.
- Slim work team with high commitment level with our customer.

### Our strength:

- Development project cost between **10% to 20%** less than our competitors cost.
- **Flexibility** to our customers requirements
- **Reduced** delivery time
- **Quick response** with engineering changes
- Low and high range production volumes, from prototypes to millions of parts per year.



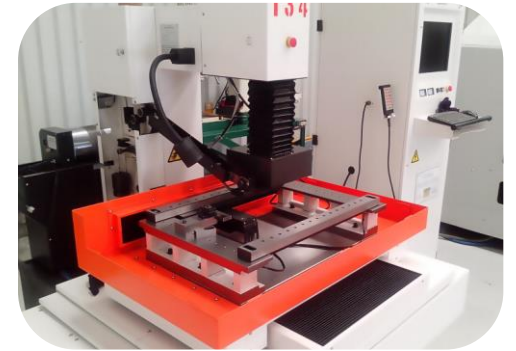


## [ TOOL DESIGN AND MANUFACTURING ]

We have equipment dedicated to our toolings manufacturing and parts production. Also we have the devices to perform a preventive maintenance for our toolings.

This means:

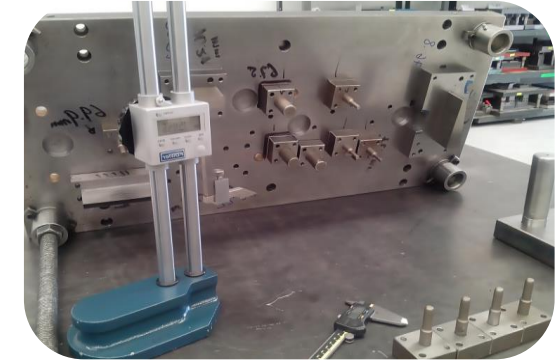
- 6 cnc devices
- 3 cnc machining centers
  - working area of 1.5 m x 0.6 m x 0.61 m
  - 10000 rpm
- 2 CNC lathes
- A wire cutting machine
- A waterjet cutting machine
- A full equipped tool shop with conventional machine tool



## [ DESIGN AND TOOL MANUFACTURING ]

The engineering staff uses to design the tools the following software:

- Catia V5
- Solid Works
- Visi Series
- MasterCam



### 3D printer fast prototyping

- Allows to get a physical sample in a few hours improving our developing time.
- The hardness of the plastic part allows assemblies and test checking fixtures



## [ STAMPING CAPACITIES ]



We have 34 mechanical presses from 40 to 350 tons

Tonelaje	Cantidad de equipos	Capacidad disponible
40-99	12	60%
100-199	10	70%
200-350	12	55%



- 6 presses with automatic coil feeder
- Processing 150 tons of Steel per month
- Raw material thickness from 0.2 mm to 6.0 mm
- Carbon steel, galvanized steel, HSLA, stainless steel, Aluminum, brass, etc.





## [ WELDING AND ASSEMBLIES ]



**We have:**

- 6 Spot welding machines
- MIG welding device
- Welding capacity from 40 kva to 150 kva
- Orbital riveting
- Over than 60% of available capacity



## [ QUALITY ]

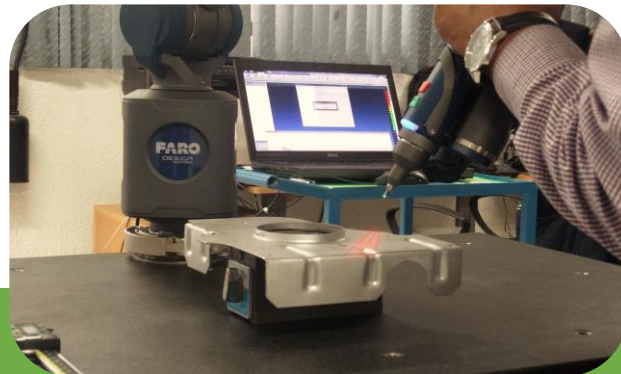


We have the following devices in Quality area:

- CMM ZEISS coordinate measurement machine
- Mitutoyo test hardness machine
- Torquemeter
- Coating thickness measurement
- FARO measurement arm machine
- FARO 3D Scanner



All test equipment is certified by external certified laboratories.



# [ CERTIFICATIONS ]



## CERTIFICATE



This is to certify that

### Maquinados y Estampados Nacionales Automotrices S.A. de C.V.

Calle B, Lote 9  
Fraccionamiento Industrial Canacintra  
C.P. 42186,  
Mineral de la Reforma, Hidalgo  
México

has implemented and maintains a **Quality Management System**.

Scope:  
Manufacture of stamping and welded parts.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

### IATF 16949:2016 (without product design)

Certificate registration no. 066045 IATF16  
Issuing date 2021-05-07  
This certificate is valid until 2024-05-06  
IATF No. 0399267



2-IAO-QMC-01001

For and on behalf of DQS

Nurani S. Venkatachalam  
Director-Corporate Automotive Program, DQS Holding GmbH

Michael Drechsel  
Managing Director, DQS Holding GmbH

## Sistema de calidad IATF 16949

## Sistema ambiental ISO 14001:2015

**bsi.**

## Certificate of Registration



ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

Maquinados y Estampados Nacionales  
Automotrices, S.A. de C.V.  
Calle B, Lote 9, Parque Industrial  
Canacintra  
Pachuca  
Hidalgo  
42186  
Mexico

Holds Certificate No: **EMS 702132**

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

The environmental management system designed to identify and control the environmental risks associated with manufacturing of metallic parts through stamping and welding process.

El sistema de gestión ambiental diseñado para identificar y controlar los riesgos ambientales asociados con la fabricación de partes metálicas mediante los procesos de estampado en frío y soldadura.

For and on behalf of BSI:

  
Carlos Pitanga, Chief Operating Officer Assurance – Americas

Original Registration Date: 2019-08-02  
Latest Revision Date: 2019-08-02

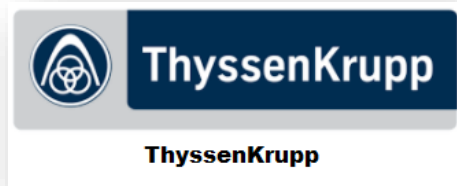
Effective Date: 2019-08-02  
Expiry Date: 2022-08-01



[ CUSTOMERS ]



**A&P Solutions**





## [ PRODUCTS ]



<b>Description:</b>	CRS holder clip with PVC cover
<b>Customer:</b>	Pick up, Nissan
<b>Function:</b>	Bracket line holder clip



<b>Description:</b>	CRS crossmember assembly with e-coat
<b>Customer:</b>	NY Taxi, Nissan
<b>Function:</b>	Support of sunroof system



<b>Description:</b>	CRS Bracket with crimping nuts and e-coat
<b>Customer:</b>	Escalade, Ford
<b>Function:</b>	Support of plastic mouldings



<b>Description:</b>	Aluminum foil
<b>Customer:</b>	Jetta, Volkswagen
<b>Function:</b>	Heat deflector



<b>Description:</b>	Galvanized steel baffle
<b>Customer:</b>	Tsuru, Nissan
<b>Function:</b>	Engine oil pan



<b>Description:</b>	CRS steel bracket with black zinc finishing
<b>Customer:</b>	Titan, Nissan
<b>Function:</b>	Air conditioning tube holder

## [ PRODUCTS ]



<b>Description:</b>	Bracket, CRS with welded bolt and ecoat
<b>Customer:</b>	Volkswagen New beetle
<b>Function:</b>	Fixing bracket air conditioning



<b>Description:</b>	Spoiler bracket with welding nut and ecoat
<b>Customer:</b>	Volkswagen, New beetle
<b>Function:</b>	Spoiler supporting bracket



<b>Description:</b>	Stainless steel with spot welding cover
<b>Customer:</b>	Volkswagen Jetta
<b>Function:</b>	Horn cover



<b>Description:</b>	Wire MIG welded to bracket, zinc finishing
<b>Customer:</b>	Volkswagen, New beetle
<b>Function:</b>	Holder bracket

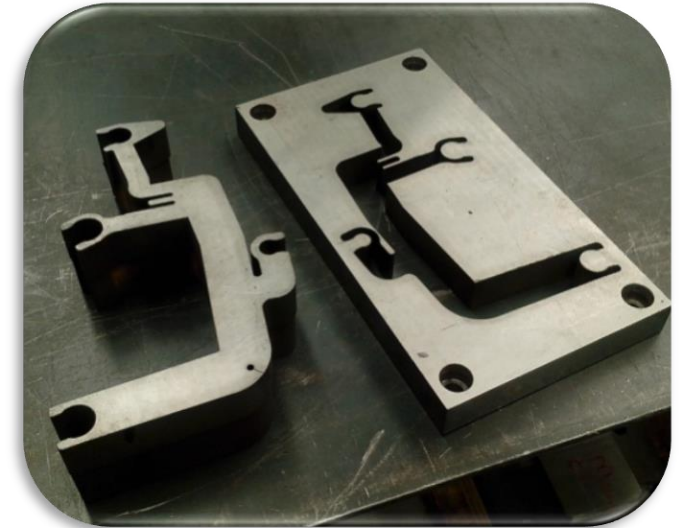
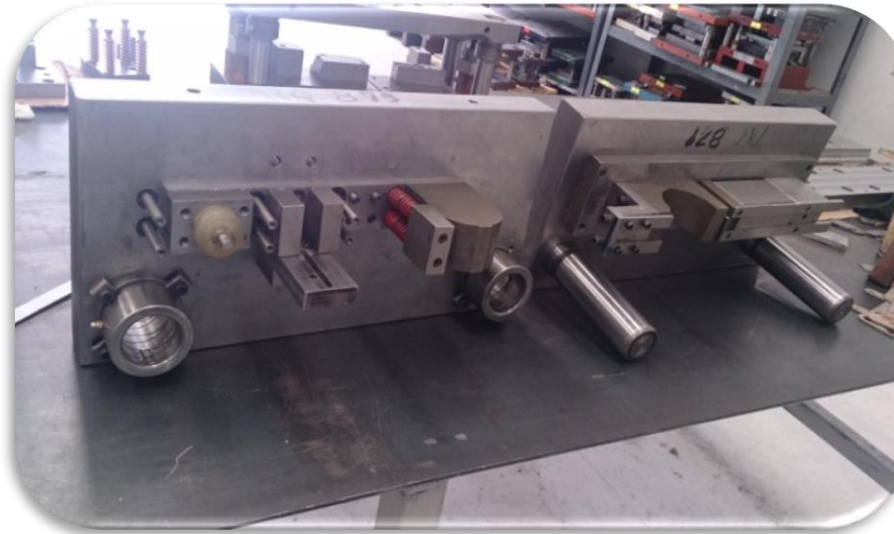
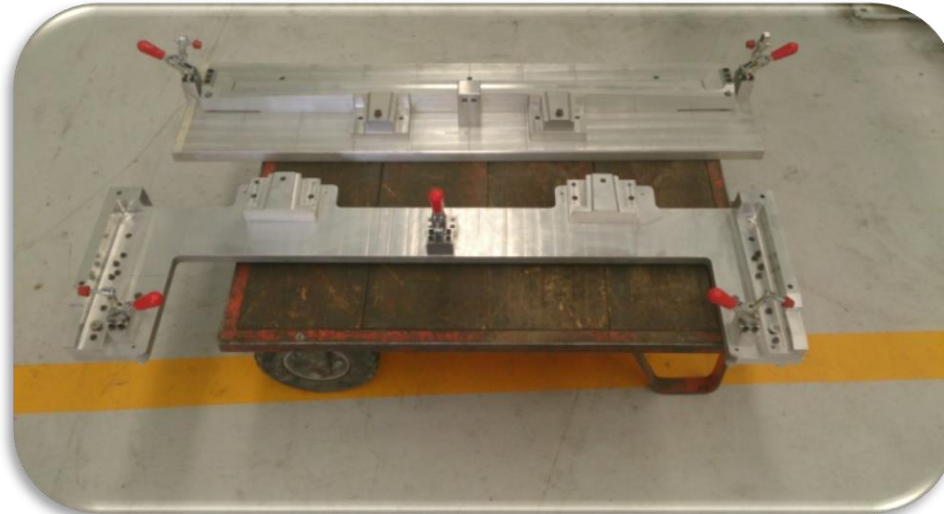
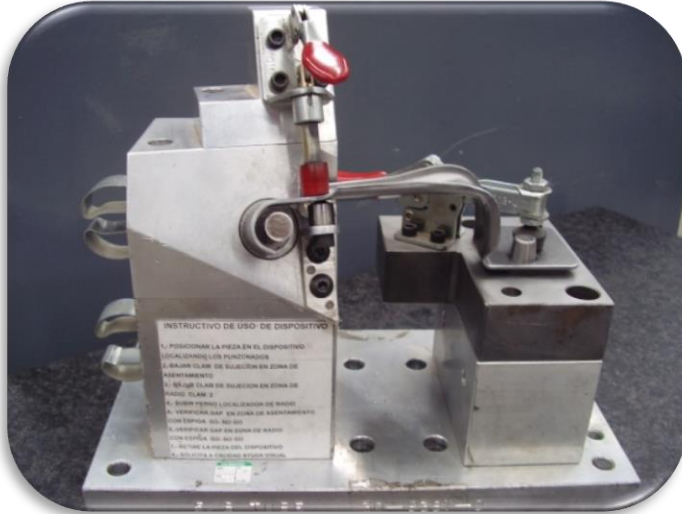


<b>Description:</b>	CRS steel bracket, welding nut and ecoat
<b>Customer:</b>	Volkswagen, New beetle
<b>Function:</b>	Horn support



<b>Description:</b>	HSLA steel, roof rail bracket
<b>Customer:</b>	Volkswagen, Bora variant
<b>Function:</b>	Supporting of roof rail

# [ PRODUCTS ]





## [ CONCLUSION ]

**Experience and development, effort and commitment, high quality standards and up to date technological resources, this is MAENA; a company whose mission is focused on satisfying stamping parts demand for the automotive and home-appliance industries.**





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