

# **Aceros Forjados Estampados de Monclova, S.A. de C.V.**

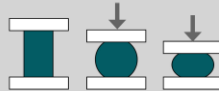
**Av. Industrial No. 900  
Col. Braulio Fdz. A.  
Monclova, Coahuila. México.  
C.P. 25767**

# About Forging

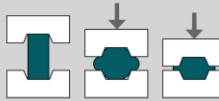


## Open and Closed Die Forging Processes

(1) OPEN-DIE FORGING

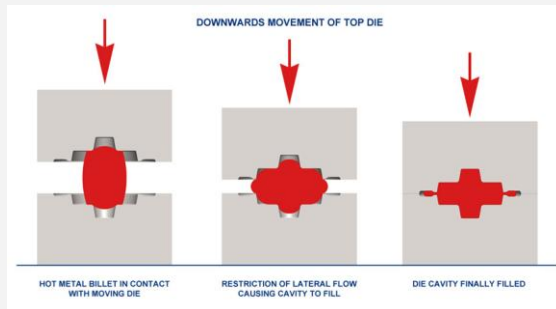


(2) CLOSED-DIE FORGING



steelavailable.com

Original Source: Suranaree University of Technology



There are several forging processes. Most known are the open die and the close die. AFEMSA makes close die forgings in two different equipment, Hammers and Forging Press.

Forgings have many applications. This is a better way to have pieces with a better performance and better strenght depending what the design needs to comply with

# About us and capabilities



Located in Monclova, Coahuila State, we produced forged and hot stamped parts for the automotive, oil, agriculture, mining, machinery, and other manufacturing industries.

Our capabilities are hot forged parts from 0.50 kg up to 25 kgs, up to 14" x 14" close die, larger pieces need feasibility checking. We can make complex shapes. Our total capacity is 1.5 million pcs a year in 1 piece per hit, more increasing pieces per each hit when part size allow it. For all projects we make a detail planning to comply with all customer's requirements.

For machined forged parts we have certified outsourcing of several machining shops when finished pieces are required.



# Facilities: Forging Shops



Hammer 1,600lbs



Upsetter 3" diameter



Press 1,300tons



Hammer 2,000lbs



Hammer 5,000lbs



Hammer 6,000 lbs



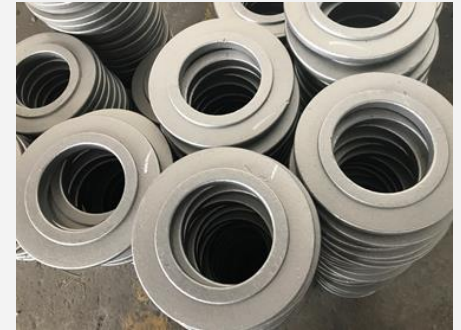
Hammer 10,000lbs

**We have 3 forging Shops with Furnaces, Hammers and Trimming Presses.**

**Our process is to cut the raw material with saws, after the mults are sent to the addecuated furnance and hammer or press to be forged, then the pieces go to the trimming press to take out the flash. Our forging is 100% close die.**

**After cooling, we shot blast the parts, go to final inspection, and we do packaging following the customer's specs.**

# Facilities: Forging Shops, finishing, quality and packaging



2500 tons Forging Press and 250 tons Trimming Press

Finishing with shot blasters, inspection, packaging as needed



# Facilities: Tooling & Machinning



Lathes



Vertical CNC

**Tooling and General  
Maintenance Shop**

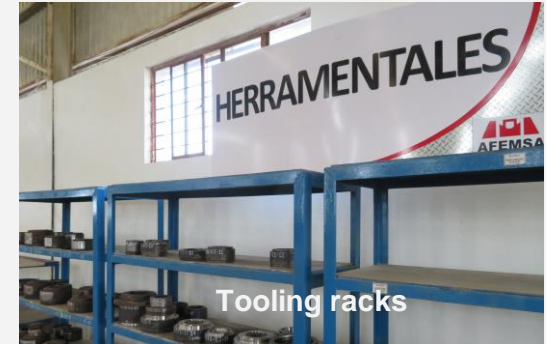
**We design, make and maintain  
our own tooling**



Milling and Boring Machines

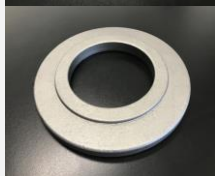


Erosion Machines



Tooling racks

# Products



**Flanges**



**Forged  
Cams**



**Forged  
Pulleys**



**Forged  
Arms**



**Shafts**



**Cross Piece**



**Pipe  
Flange**



**Forged  
Cones**



**Drilling  
Head**



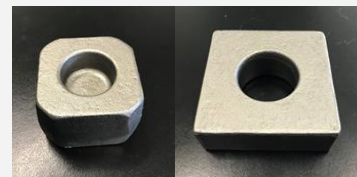
**Forged Rings**



**Forgings for gears**



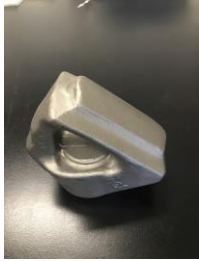
**Forged Bar**



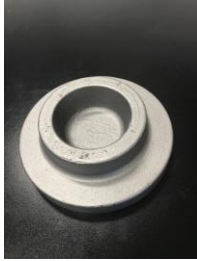
**Forged Nuts**

**Forged Hammers for corn mills**

# Industrial Products



**Special shapes**



**Forged crane  
bearing top**



**Forged shafts**



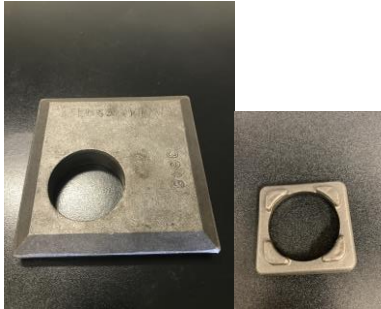
**Forged caps for racks**



**Forged  
bushings**



**Forged shafts**



**Forged rack plates**



**Hot stamped clevis**



**Forged rings**



**Forged balls**



# Industrial Products



**Forged connectors**



**Forged caps for cylinders**



**Forged pinions**



**Forged special shapes**



**Forged joints**



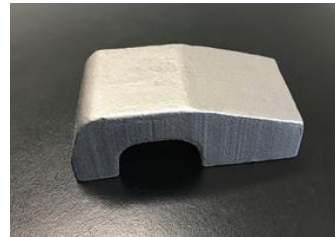
**Forged bolts**



**Forged bushings**



**Shackles**



**Special shapes**

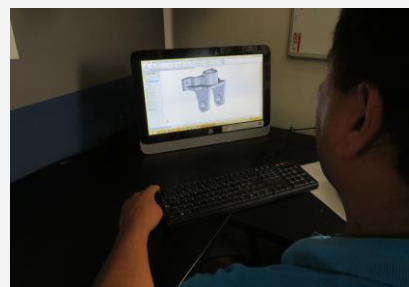


**Forged slip on, Forged welding necks**

# Certificates



**AFEMSA is certified in IATF 16949-2016 and “Industria Limpia”. We keep the highest quality and follow all customer’s specs and we keep our facility organized and clean following all regulations. We have a continuous improvement policy in all areas, we train our people constantly and look to have the best standards.**



# Our Main Customers



FLEXILINE





**Please contact us, we are ready to be  
your solution in forged parts.**

**lucero.bernal@afemsa.mx  
alejandro.loya@afemsa.mx**

**Thank You**