



FASTENERS
MANUFACTURING
LEADERS IN MEXICO

www.apisaf.com.mx

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2020

Operations are centralized in Hidalgo, improving service and logistics



2018

APISA FASTENERS,
new branding



2011 - 2012

Greater investment
to satisfy the
AUTOMOTIVE SECTOR

- APISA obtains **MATHREAD** license

2007

APISA acquires
the company
STAHL



2005

APISA obtains
ISO 9001
CERTIFICATE



2004

APISA obtains
license TAPTITE
from REMINC

1991

Construction of the
1st. manufacturing
plant



Mexico City



1981

ALAMBRES PROCESADOS
INDUSTRIALES S.A. de C.V.
(APISA) was founded.



HISTORY

A background image of two industrial workers in a factory setting. They are wearing yellow hard hats, blue face masks, and white gloves with red palms. They are working together on a large metal component. The image has a blue overlay.

APISA FASTENERS is a company that for more than 40 years has been dedicated to the manufacturing of Screws, Bolts, Nuts, Threaded Products, Forgings and similar, under international standards as ISO, ASME, SAE, ASTM, DIN and JIS, with high specifications and standards for the industrial, electrical, construction and automotive markets.



Mexican company located in
the State of Hidalgo with
40,000 m2 built area.

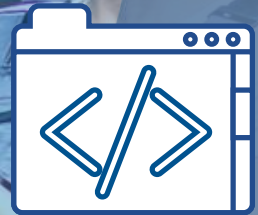
About 220 people make up
our team

40 of them are administrative staff



+40 years of experience

Software (SCEP)
Statistical Process Control System,
with process release on
each batch.



Electronic sorting equipment by
cameras.



CANADA

4 days

U.S.A.

3 to 2
days

1 to 3
days

MEXICO

Location

The geographical location of APISA FASTENERS helps us to have a logistic advantage with our competitors in North America.

**Our main customers are located in
Canada, U.S.A. and Mexico.**

INDUSTRIES

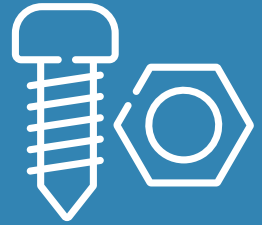
Our main markets are the following:



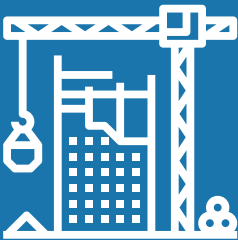
Home appliances



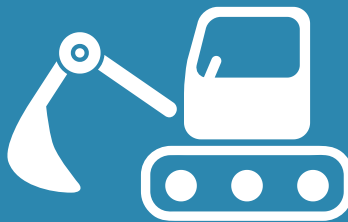
Automotive



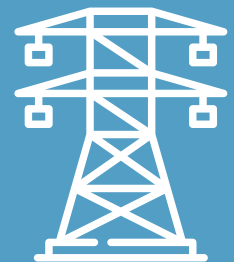
Trade screws
and fasteners



Construction



Heavy Machinery

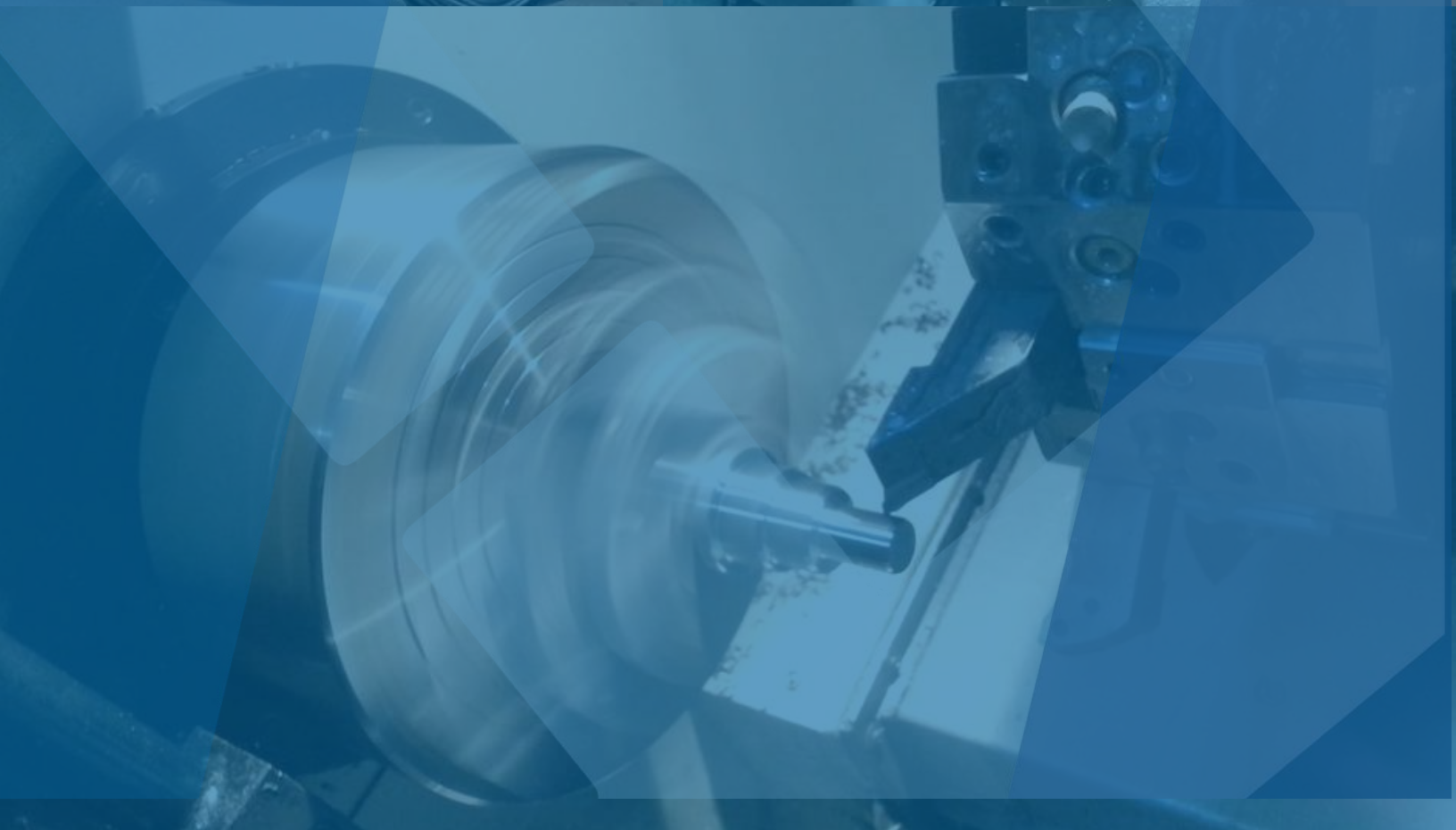


Energy

The background of the slide is a collage of industrial images. On the left, there are large coils of wire. On the right, there is a close-up of a mechanical assembly with various bolts and components. The entire image is overlaid with a semi-transparent blue filter.

F7pisa
fasteners

PROCESSES

The bottom half of the slide features a close-up of a lathe machine. A metal workpiece is being turned on the lathe's spindle, and a cutting tool is visible on the right, shaping the metal. The image is also covered by the same semi-transparent blue filter as the top half.

1



Raw Material



PROCESSES

- Annealing
- Chemical cleaning
- Wire drawing
- Phosphate Coating

2



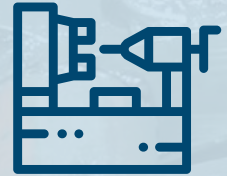
Forging



EQUIPMENT

- Cold forging 2 seasons up to 22 mm.
- Multi-stage cold forging 3, 4, 5 and 6 strokes up to 20 mm.
- Nut forging machines with 5 and 6 stations up to 25 mm.
- Hot forging machines from 1/2" up to 2" diameter.

3



Second options



EQUIPMENT

1. Rollers with washer assembly capability (Sems)
2. Roller rolling
3. Groove machining
4. Drilling
5. Knurling
6. Head machining



SPECIFICATIONS

Carbon steel:

- SAE ASTM Standard
- JIS Standard
- DIN Standard

Mexican raw material



SPECIFICATIONS

Dimensions

4 mm
up to
36 mm

Lenghts

— **MIN.** 15 mm



MAX. 250 mm



SPECIFICATIONS

Ropes

UNC
UNF

Thread Cutting
Thread Rolling
Tap Tite

Mathread

4



Heat Treatments



EQUIPMENT

- Heat treatment and tempering
- Carbonitride
- Hydrogen Embrittlement



SPECIFICATIONS

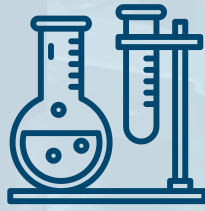
Hardness

Grade 2
Grade 5

Class 8.8
Class 9.8
Class 10.9

A307
A394
A325
A490

5



Adhesive Coatings



EQUIPMENT

- Cr3 Zinc plating (120 to 500 hrs Red Corrosion)
- RoHS compliance
- Trivalent dehydrogenated
- Magni Coating (480 to 1,000 hrs Red Corrosion)
- ND Adhesives for Loc tite, 3M, Pre coat, Nylon ropes.



SPECIFICATIONS

In-house finishes

- Trivalent Zinc (Cr+3)
- RoHS: Blue, White, Yellow, Black
- Organic phosphate + seal
- Nickel
- Magni Coating
- Hot-dip galvanizing

6



Quality Inspection

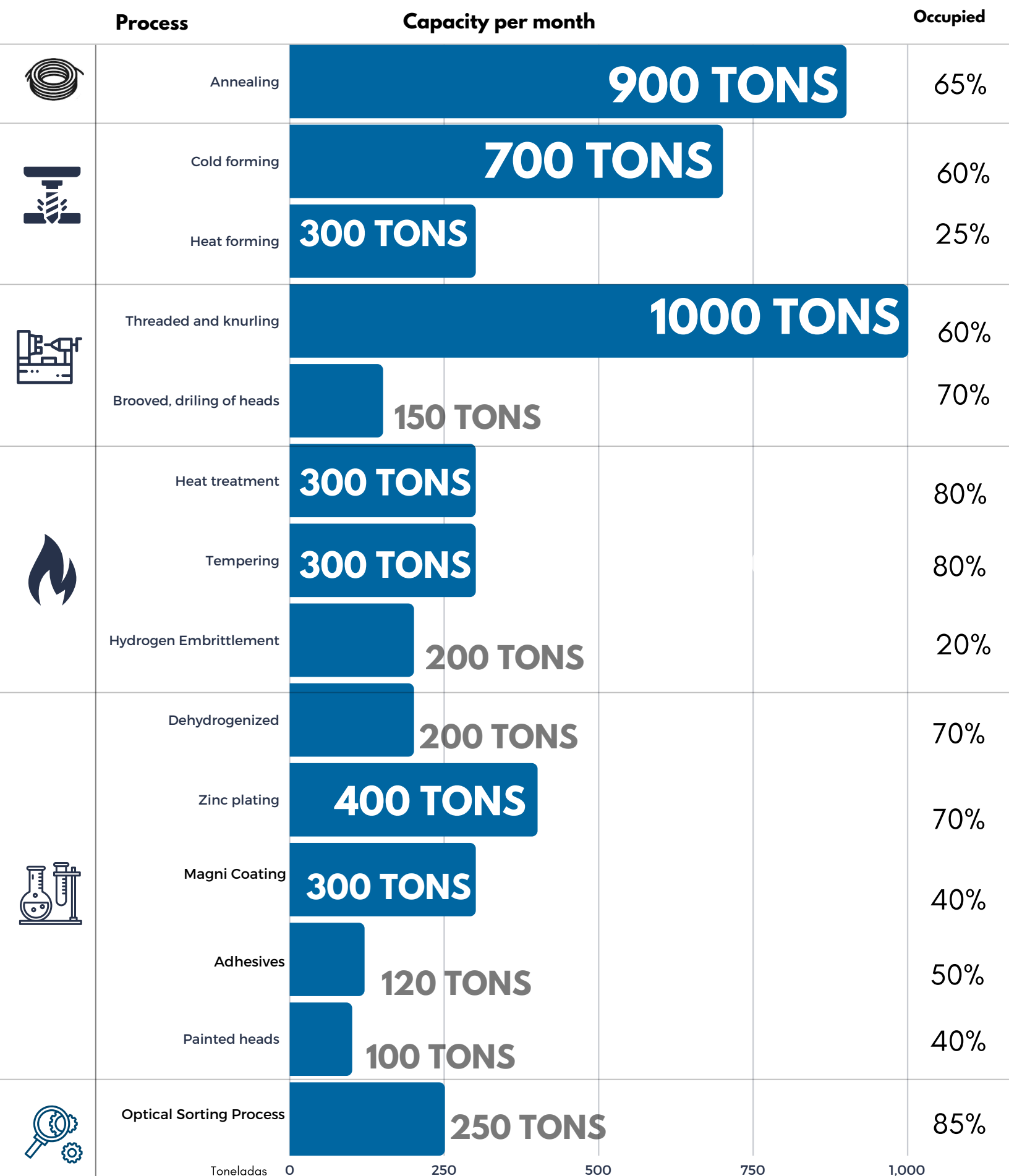


EQUIPMENT

- In-house metrology laboratory
- Microstructure Hardness and Microhardness
- Optical Comparator
- Universal Machine
- Tension, torque and elongation
- Coefficient of friction
- Salt spray chamber

MECHANICAL TESTING LABORATORY:

- Tension
- Proof load
- Torque
- Microstructure Analysis
- Hardness and Microhardness
- Friction Coefficient
- Corrosion Testing
- Hydrogen Free
- Torque in Adhesives
- Automated optical selection
- Visual selection
- Qualified team with more than 10 years of experience





All our processes are
IN-HOUSE.

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Apisaf
fasteners



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