

Executive Summary

Company Name: Precision Metal Stamping, S.A. de C.V.

Main Business: Fabrication of progressive dies, plastic injections molds, and manufacturing of stamped parts.

Owners: Private Mexican family company.
Aarón Bustamante, Ana Bustamante, Lorena Bustamante.

Head Count: 60 employees

Certifications: ISO 9001:2015

Facility: 3,800 m2 facility inside of an industrial park

Address:

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Location:

8 minutes from Guadalajara International Airport
3 hours from Port of Manzanillo.
4 hours from San Luis Potosi
4 hours from Queretaro
6 Hours from Mexico City
18 Hours from el Paso Texas

History:

1980 Tromol S.A. was founded by Eduardo Bustamante as a precision toolshop in Guadalajara Jalisco.
1985 First Manual Sink EDM was acquired.
1986 First Cad system was acquired. (Cadkey 4.0)
1986 First CNC milling machine was acquired.
1990 First CAM system was acquired. (Cutting Edge)
1996 Manufacturing of stamped parts area was created.
1997 First Wire EDM was acquired.
2010 First stamped parts production for Automotive Industry.
2012 Precision Metal Stamping, S.A. de C.V. was founded.
2014 PMStamping obtains ISO 9001 certification.
2017 PMStamping moves to a 3,800 m2 facility inside of an industrial park.

Sales: (USD millions)

Year	Toolings	Production	Total
2016	\$ 1.44	\$ 1.38	\$ 2.82
2017	\$ 1.32	\$ 1.68	\$ 3.00
2018	\$ 1.80	\$ 1.56	\$ 3.36
2019	\$ 1.86	\$ 1.08	\$ 2.94
Q3 2020	\$ 1.50	\$ 0.66	\$ 2.16

Market: Home Appliances 38%, Electric/Electronics 32%, Automotive 30%.

Main customers:

Automotive: Bosch, Isi Automotive, ZF, Borg Warner, Efi Automotive, Sumida, Mahle, Donaldson.
Home Appliances: Emerson Climate, Fleximatic, Copreci, EB Técnica,
Electric/Electronics: Molex, Siemens, Flextronics.

Maximum tooling manufacturing capability:

Progressive dies 100" x 40", 4 tons weight.
Plastic injection molds 60" x 40" x 30", 4 tons weight.
Stamped parts: 12" x 8" (in progressive dies)
Average tool lead time: 12 weeks
Simultaneous toolings fabrication: 12 toolings.
Tool delivery rate: 1 tooling per week.
Average tools per year: 48 (two shifts)
Total dies fabricated: > 500

Parts production machinery:

15 mechanical presses: 5 a 250 ton
2 Hydraulic presses: (45 & 200 ton)
2 Horizontal plastic injection machines: 180 & 500 ton
5 CNC turning centers
2 CNC Machining center High Speed with 4th axis

Tooling fabrication machinery:

3 Wire EDMs (Mitsubishi, Charmilles, Makino)
3 Sink EDMs (Chmer, Mitsubishi, Sure First)
1 CNC milling for graphite electrodes (Bridgeport)
1 CNC for hard milling machining (Okuma)
1 CNC for large parts machining 60" x 40" (Haas)
3 CNC for general machining
5 Flat surface grinders
5 Conventional machining equipment.

Measurement equipment:

1 CMM ZEIS CONTURA G2 27.6" X 27.6" X 23.6
1 MITUTOYO PHA-14 W/QM DATA Optical comparator
2 MITUTOYO Linear Height Calipers 600mm
1 Mitutoyo Rockwell C hardness tester
1 Mitutoyo Workshop Microscope

Tooling design capability:

2 Progressive die designers (>5 years' experience)
1 Injection mold designer (>5 years' experience)
2 Draftman for 2D drawing documentation

Software:

CAD: Siemens NX10 with Progressive Die wizard and Mold Wizard modules /Key Creator/SolidWorks
CAM: Surfcam, Fikus Visual Cam, Power Mill
CAE: NX Easy Fill Analysis by Moldex3D, NX One step formability analysis (Stress, strain, thinning, spring back).
Tool shop control software: Jobboss
Project Management: MS Project.
Company ERP: SAI 14