



19815 MAGELLAN DRIVE, TORRANCE, CA 90502 310 538-5380

EQUIPMENT LIST, AS OF JANUARY 2017

New Capabilities

In February of 2012, a 9 ft. Faro Arm was purchased to allow for portable inspection of form dies, and large assemblies without disrupting production flow. In 2015 it was upgraded to a Blue Light Laser which scans objects at 52,000 measurements per second in 3 dimensions.

Two New Drop Hammers have been installed to address capacity issues at our Metal Forming Facility.

Six New Large Machining Centers were purchased from 2006 to 2012 bringing more in-house control to our Tooling and Machine Shop.

Additionally a 5-Axis Precision Laser Cutter was acquired in 2011.

Welding Department

- 22) Miller Digital (Inverter) Dynasty TIG 350 AMP
 - 1) Lincoln Square Wave TIG 350 Amp
 - 1) Lincoln Precision TIG 375 AMP
 - 2) 1,000 Lb. Ransome Welding Turntables
- 10) Aircrafter Welding Turntables
 - 1) Sciaky Spot Welder 100 KVA
 - 1) Janda Resistance Seam Welder 250 KVA
 - 1) Janda Spot Welder 175 KVA (Inverter)
 - 1) Uniter Precision Spot-Poke-Tack Welder
 - 1) Cress Pro 24" X 36" Pre / Post Heat Oven
- 4) Ton Arbor Press
- 3) Power Expanders
- 4) Band Saws
- 2) Drill Presses
- 3) 48" x 48" Sandblasting Chambers

Sheet Metal Department

- 1) Di-Arco 15-Ton 4' Press Brake
- 1) Chicago 30-Ton 6' Press Brake
- 1) Wysong 90-Ton 12' press Brake
- 1) Amada Vela II Punch Press
- 1) Amada 16' Shear

- 1) Amada Power Notcher
- 3) Manual Rollers 18"- 48"
- 2) Bridgeport Milling Machines

Machine Shop

- 1) YCM 3-Axis Vertical Mill 80" x 40" x 40" 15,000 lb. Capacity
- 1) Okuma MA-650 VB 5-Axis High-Speed Machining Center
- 1) Johnford DMC-2600 SH 102" x 70" x 42" 22,000 lb. Capacity
- 1) Femco BMC 110R2 CNC 4-Axis Boring Mill 78" x 71" x 67"
- 1) OKK HM 1000S Dual Table HS Machining Center 55" x 43" x 40"
- 1) Kafo/Femco VMC-137 CNC 4-Axis Vertical Mill 51" x 27"
- 1) Mazak V-15N CNC 4-Axis Vertical Mill
- 1) Mazak V-15N CNC 3-Axis Vertical Mill
- 1) Mazak H-800 CNC 4-Axis Horizontal Mill
- 1) Acroloc CNC 3-Axis Vertical Mill
- 1) Cincinnati CNC Machining Center 144" x 72" x 36"
- 1) Mazak Slant 50 CNC 2-Axis Horizontal Lathe, 50 HP 26" Cut
- 1) Mazak Quickturn 20N CNC Horizontal Lathe 16" Cut
- 1) Ikegai AX25 CNC Horizontal Lathe 12" Cut
- 1) Kingston Horizontal Lathe 40" Swing
- 1) Mori Seiki Horizontal Lathe 24" Swing
- 1) Mori Seiki Horizontal Lathe 18" Swing
- 9) Bridgeport Vertical Mills
- 2) Flow 5-Axis Waterjets 6' X 10' Bed
- 1) NTC TLM610 3.3K 5-Axis Laser Bed 75"x122" 4,000 lb. Capacity

Inspection/Quality

NDT Pressure Testing Department

Dedicated Dye Penetrant Line

In-House Level III

360 Kv X-Ray Room

180 Kv X-Ray Booth

Mitutoyo CMM 48" x 60"

Mitutoyo CMM 72" x 114"

9 Ft. Faro Arm Portable CMM for In-Place Dimensional Inspection

Drop Hammer / Hydroforming

- 1) 5-Ton Rope Hammer 48" X 84"
- 3) 3-Ton Rope Hammers 48" X 60"
- 2) 2-Ton Rope 48" X 48"
- 2) 1-Ton Rope Hammers 40" X 60"
- 2) 1-Ton Rope Hammers 36" X 34"
- 1) Ceco Stamp 24" X 30"
- 2) Ceco Stamp 36" X 48"
- 3) Ceco Stamp 48" X 48"

- 1) Ceco Stamp 60" X 96"
- 1) Ceco Stamp 66" X 68"
- 1) Ceco Stamp 60" X 100"
- 1) 12", 23", 26" Cincinnati Hydroform Presses
- 1) 400-Ton Lien Chieh Press
- 1) 250-Ton Verson Draw Press 42" X 42"
- 1) 10-Ton Arbor Press
- 5) Metal Spinning Lathes 72" Maximum
- 4) Melting Pots & Furnaces
- 3) 3,500 lb. Bull Ladles
- 2) Air Tamping Hammers
- 1) Steel Casting Platform

Plaster Pattern/Form Tooling Department
 Planishing, Clean Line, Processing, Heat Treat,
 Passivate Tanks, De Greaser, Annealing Ovens

Tube Bending Department

- 2) #4 Pines 4" Benders (1 Modified to 5")
- 3) #2 Pines 2"
- 1) Leonard Model 412 1"
- 1) Leonard Model 62 1 1/2"
- 5) Leonard & Conrac Hand Benders
- 5) Leonard Beading & Flaring Machines
- 2) Peak, Stow & Wilcox Beading Machines
- 1) Fenn Reducer
- 2) Bridgeport Tooling Machines
- 2) Moriellci Conventional Lathes
- 1) Custom Pull-Out Machine

Complete Set of Bend Tooling 1/2" - 5"

Titanium Bend Tools 1/2" - 3"