

Product Name: Tube Bending Fixture Machine

Product Description: Dedicated Pneumatic Bending Machine used to bend part complete without additional operations.

Part Description: IHX Tubing assembly
 IHX tube: 4 bends
 5/8 diameter tube: 1 bend
 8mm diameter tube: 2 bends

Overall machine Size: 56 x 99

Cycle Times: Tooling Operation (1st Stage): 14 Seconds
 Tooling Operation (2nd Stage): 13 Seconds
 1st and 2nd stage cycle concurrently
 Operator Duties: 10 Seconds
 Part to Part: Every 24 Seconds

Bending Tolerances: ± 1.5mm

Machine Controls: Operator interface: Allen Bradley Programmable Interface
 PLC: Allen Bradley
 Pneumatic Valves: Parker Hannifin

Engineering & Fabrication

Process Applied:

<p>Primary: Engineering/Design Product Development Fabrication CNC Milling Welding Grinding</p>	<p>Secondary: Priming Painting Assembly Hardening</p>
--	--

Equipment Used to Manufacture Machine:

<p>CNC Mill Manual Mills Manual Drills Manual Grinders Automatic Grinders Manual Lathe Hand Tools Inspection Tools</p>	<p>Gage Pins Gage Blocks Height Gages Micrometers Dial Caliper</p>
---	--

Material Used:

<p>Machine Base Square Tubing 3" x 3" x 1/4 wall</p>	<p>Hot Rolled Steel Base Plate Thickness: 5/8"</p>
--	--

Tooling: made from a combination of material

<p>Hot rolled steel 1018 steel</p>	<p>A2 Tool steel S7 Tool steel</p>
---	---

All tooling subject to wear is heat treated for longevity

Guarding

Sheet Metal: 16 GA
 Outside Panels: 16 GA Expanded Metal framed with C-Channel

Material Finish:

Machine Base: Primed and Painted
Guarding: Painted Black & Blue

Inspections / In Process testing:

Dimensional Inspection, Functionality Tests

Standards Met:

Customer Specifications, CAD Drawing

Industry for Use:

Automotive Industry
Appliance Industry
Agricultural Industry

Aerospace Industry
Medical Industry
HVAC Industry

Delivery Location:

Monterrey, Mexico