



ENDLESS CAPABILITIES AT ACEMCO

At Diversified Products we service our customers in various market sectors. Our customers are found in nearly every market segment including Automotive, Transportation, Alternative Energy, Appliance, Military, Construction, Monorail, Agriculture, Recreation Equipment, and Office Furniture, as well as many other target markets. Our customers require difficult tight tolerances and processes that are common phrases within our organization.



TUBE BENDING METHODS & TECHNOLOGIES

At Diversified Products we use several bending methods and unique technologies that achieve various levels of precision bending. Our Diversified Group can assist in specialty processes and assembly variations. With our roots well established in short run, short lead-time orders, we make it a point to continue to offer short run and prototype work together with high volume, continuous manufacturing. We can handle virtually any round tube - in nearly any metal - steel, stainless, copper, aluminum, and galvanized.

END FORMING

In addition to tube bending, Diversified Products offers single or multiple stroke end forms. Our highly qualified team works to detail, quality, and precision. Our teams' expertise will help you evaluate the application that will fit your design fit and function. Process and production end forming include:

- Flaring
- Beading
- Swaging
- Reduction
- Expansion
- Double Flaring
- Chamfering
- Flattening

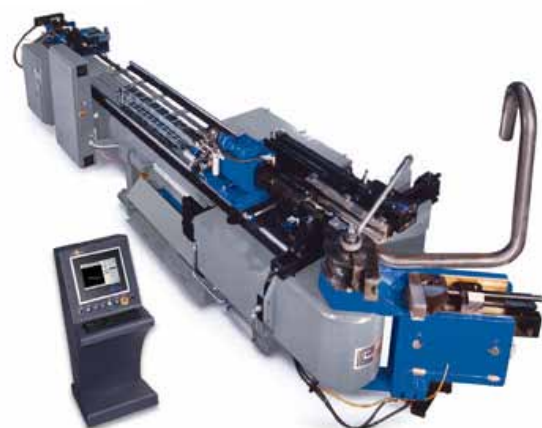


TUBE FORMING AUTOMATION



1-3" Tube Bending

- Continuous, trouble-free production of high-strength tubes up to 42 mm (1.50") capacity.
- Interface to Vector 1 tube vision data center.
- Electric, servomotor-driven bend head provides fast axis speed, rapid acceleration, and high torque.
- Clockwise and counterclockwise bend arm rotation feature for additional bending application flexibility.



3-6" Tube Bending

- Tubing up to 152mm (6.0") diameter and pipe up to 4" schedule 80 specifications.
- Easy machine setup and tooling changeover, high accuracy and repeatability are maintained through the use of closed-loop servo feedback systems.
- Position-controlled pressure die assist matches the velocity of the bend arm, with superior control during the bending process, resulting in excellent bend quality and reduced scrap.
- High-torque bend arm easily forms high strength alloy tubing and heavy pipe.



Laser Scanning Arm & Software

- Non-contact measurement of tube geometry.
- Compares tube shape to CAD model.
- Provides feedback directly to tube bender control to adjust bend movements to correct Part.
- Highly accurate tube, pipe and wire measurement and inspection.
- Equipment is unique in tube measurement since the entire inspection process is performed optically using visible spectrum lasers.



End Forming Equipment

- Reducing
- Expanding
- Sizing
- Flanging
- Doming
- Beading
- Notching/Slotting
- Flaring
- Neck/Grove/Reduce





Sheet Rotary Laser

FOM2RI 3015 NT 4 kW
5' x 10' Rack and Pinion
laser cutting machine with
Rotary Index.

- Nozzle Changers
- High Speed Shuttle Tables
- Chiller



CNC Brake Press

HDS 1303 NT
130 Metric ton 3 meter bed.

- One touch strong punch holders
- 2V Die Hold



Welding and Assembly

- Mig
- Tig
- Resistance
- Robotic
- Class A Surface



CORPORATE CAMPUS AND TECHNICAL CENTER

7297 Enterprise Drive | Spring Lake, MI 49456 | Toll Free (888) 807-6517 | Ph (231) 799-8612 | Fx (231) 799-9904 | www.acemco.com

