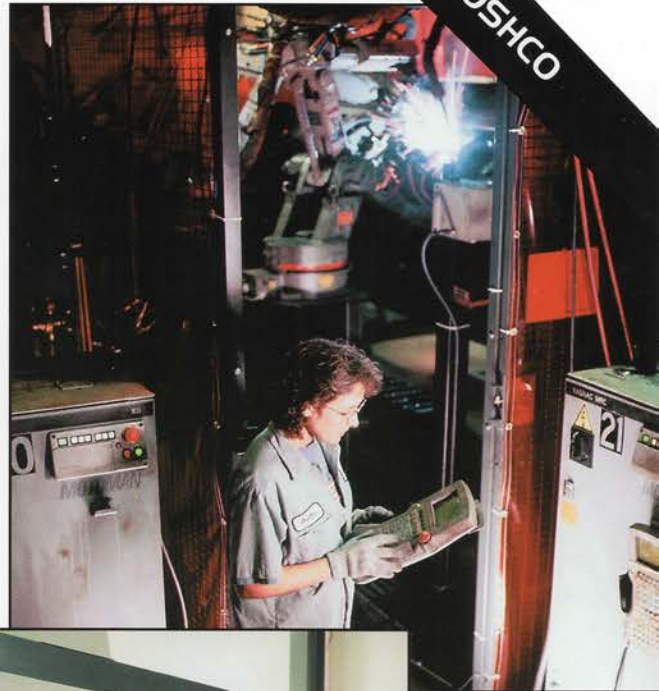


Brosheco FABRICATED PRODUCTS
Div. of Jay Industries Corp.

1595 W. Longview Avenue
Mansfield, OH 44906
419-747-4161



This robotic welding cell is typical of the over 30 computer controlled MIG welding installations. Each robotic cell is monitored to operate within consistent sequential performance parameters with precise control of all variables.



BROSHCO

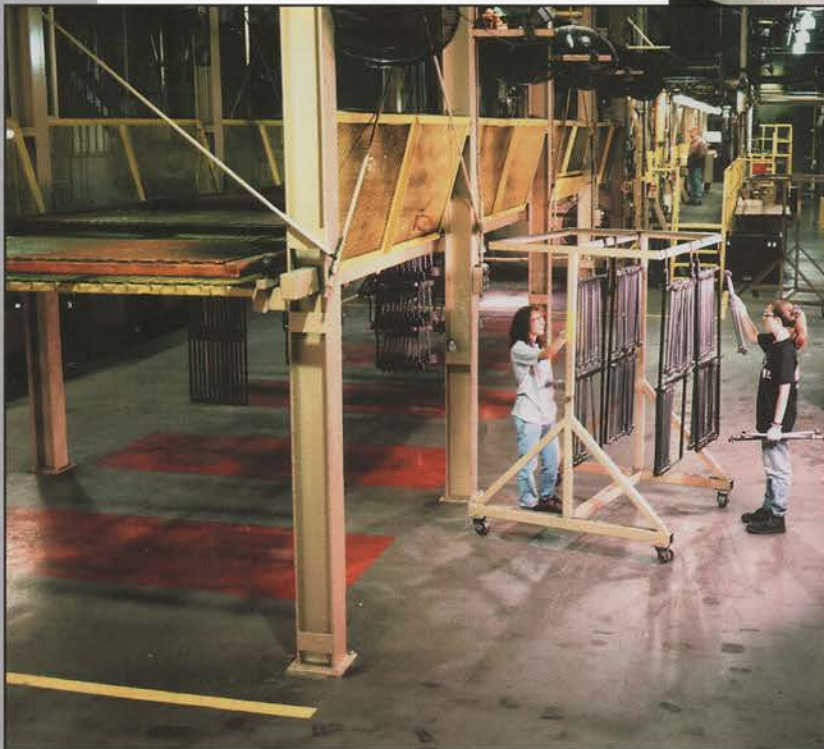
A fabricator of ferrous metal involving modern stamping, metal tube fabrication and welding production equipment. This facility specializes in projects which involve multiple complex stampings and the welding assembly of multiple components to produce a single finished product. Press capacity ranges to 600 tons with progressive and transfer dies. Tube bending is performed on a self loading five axis CNC system and a fully automated nine axis CNC system capable of four radius over mandrel bending. Maximum dimensional capacity is 3" in diameter.

Single and multiple task assembly cells include both manual and robot controlled shuttles and turntable welding systems. Capabilities include MIG, resistance, projection, TIG and spot production welding. A 21 stage cathodic electrodeposition (E-coat) paint coating line with a high temperature curing oven is on site for the painting of metal parts.

Product conformity is monitored by a well trained quality assurance staff. Weld strengths are tested to performance standards. Integrated SPC variance controls include calibrated testing by CMM and variable data and attribute check fixtures.



This Zeiss Coordinate Measuring Machine (CMM) provides accurate dimensional analysis for complete geometric inspections. This CMM has a measuring envelope of 46" (x-axis) x 78" (y-axis) x 24" (z-axis).



The cathodic epoxy electrodeposition paint line features multiple cleaning and rinsing stages, a zinc phosphate coating and paint tank capacity of 2,400 gallons. The indexing carrier system transports custom designed racks with a weight capacity of 900 pounds and maximum dimensions of 84" wide x 60" high x 30" deep. Conductivity monitoring automatically measures and adjusts solution concentrations to maintain consistent composition and quality. A dedicated testing laboratory ensures strict processing controls and uniform coating thickness and curing.