

GENERAL SUMMARY AND FABRICATION CAPACITIES



**R-V
INDUSTRIES
INC.**

**INDUSTRIAL DESIGN
AND MANUFACTURING**

INTRODUCTION TO R-V INDUSTRIES

R-V Industries is a uniquely diversified engineering and manufacturing company founded in 1974. We offer complete fabrication, machining, assembly and finishing services.

The company headquarters are located in Honey Brook, PA, with two additional facilities in southeastern PA. In 2009, R-V Industries completed a 26,000 square foot stainless and alloy-only facility to bring total facility space to 161,000 square feet.



Morgantown Manufacturing Facility



Honey Brook Manufacturing and Warehouse Facility

OUR DAILY MISSION

To supply superior products and services, at a competitive price, with integrity.



Honey Brook Manufacturing and Corporate Headquarters



BUILT ON PRODUCT DIVERSITY

PRODUCTS AND MATERIALS

The strength of R-V Industries is our diverse portfolio of products and expertise including:

- Pressure vessels and storage tanks
- Fluid handling equipment
- Jacketed reactors
- Agitators and mixing equipment
- Industrial machinery
- Autoclaves and sterilization equipment
- In-house and on-site engineering

Fabrication and design experience with the following materials:

- All nickel alloys
- Alloy clad
- Specialty and carbon steels

SERVING NUMEROUS INDUSTRIES

- Biomedical / Pharma / Research
- Chemical
- Engineering Services
- Food and Beverage
- Nuclear
- Oil and Gas
- Paper Mill
- Power Generation



OUR COMPANY

(2) Fabrication facilities with 160,000 total square feet

Fully equipped CNC and manual machining department

Over 275 dedicated and skilled employees (non-union)

ENGINEERING SERVICES

Our internal team of cross-trained engineers are experienced across multiple industries and applications. In addition, we provide engineering services to other manufacturers for special projects and high-need seasons.

PREFABRICATION CAPABILITIES

M.C. = Maximum Capacity

Burning

- (3) cutting systems, (3) plasma burners and (1) torch with computerized controls
- (1) high definition plasma burner with beveling capabilities up to +/- 52° and 27.3 feet of effective cut length with +/- 0.015" accuracy in 72" of travel

Forming

- (3) press brakes
 - (1) CNC controlled back gauge and ram
 - (1) CNC controlled back gauge
 - (1) with manual back gaugeM.C.= 400 ton x 12'
- (4) plate rolls. M.C.= 10' x 3/4" c/s
Min.= 4 7/8" diameter
- Angle bending roll. M.C. = 6" x 6" x 1/2"

Sawing

- (5) saws. M.C.= 19" diameter round bar
18" x 20" cube, fully automatic, with mitering capabilities

Punching

- (4) Ironworkers. M.C.= 75 tons

Shearing

- (1) gap type shear with power back gauges
M.C. = 5/8" x 12' c/s, 1/2" x 12' s/s

Rolling

- Ability to roll whole or half-pipe
- Roll 3" x 0.125" thick half pipe down to 45" diameter with most alloys
- For harder alloys (2205 and Inconel), half pipe can be rolled to 72" diameter
- 1" and 1.5" whole pipe can be rolled to 24" diameter
- 2" and 3" whole pipe can be rolled to 32" diameter
- Roundo R6S machine can roll many structural shapes:
 - Angle leg (in or out)
 - T-bar leg (in or out)
 - Pipe
 - Round bar
 - Flat bar (flat or edge)
 - I-beam (flat or edge)
 - H-beam (flat or edge)
 - Box tubing
 - Channel (flat or edge)



Plasma Burner in Operation



FABRICATION, TESTING AND MEASURING

FABRICATION

M.C. = Maximum Capacity

- A.W.S. and A.S.M.E. Code welding: “U, S, and UM” stamps, NQA-1 certification and National Board ‘R’ Stamp
- Weldments to 60 tons with the following materials: aluminum, carbon steel, hastelloys, nickel and stainless steel
- Assorted weld positioners. M.C.= 8 tons.
- Assorted turning and idler rolls
M.C.= 90 tons

Positioning

- (6) Manipulators. M.C.= 12’ vertical, 13’6” horizontal

Welding

- (4) sub arc units. M.C.= 1500 amp
- (1) lot of GMAW units with auto feeders, carts and booms. M.C.= 650 amps
- (15) GTAW units
- (8) Stick units
- (2) Nelson stud guns
- (11) MIG (GMAW) pulse units

Welding Types

- FCAW
- GMAW
- GTAW
- SAW
- SMAW



Manufacturing Facility in Morgantown, PA

TESTING AND MEASURING

M.C. = Maximum Capacity

- Vacuum pump
- Vibratory stress relief machines
- Halogen leak detector
- Hardness testers
- Liquid penetrant testing
- Mass spectrometer - helium
- Micrometers
- Moly detection kit
- Optical level and alignment
- Paint gauges
- Surface profile gauges
- UT thickness gauge
- X-ray film viewers
- Sling psychrometer
- Vernier calipers
- Hydrostatic testing to 10,000 psi
- Calibrated pressure gauges
- Logging pressure gauges
- Coordinate measuring machine
- Infrared thermometers
- Bore scope
- Light meters
- Ultrasonic thickness testing
- Calibrated torque wrenches
- Calibrated thread gauges
- Coating inspection including:
 - DFT
 - Surface preparation profile
 - Temperature and humidity
 - Adhesion
 - Holiday (spark) testing
- Outside NDE services utilized:
 - RT
 - MT
 - UT flaw detection
 - Helium leak testing

MACHINING, ASSEMBLY AND INSPECTION

MACHINING

M.C. = Maximum Capacity

Lathes

- (1) CNC, 24/40" diameter x 120" cc.
- (1) CNC mill/turn 16/22" diameter, 60" cc., 12" chuck with a 3" thru spindle capacity
- (1) Engine lathe with 25/30" diameter by 108" cc.

Horizontal Boring Mills

- (1) CNC with a 6" spindle, 104" x-travel, 83" y-travel, 35" z-travel, 60" w-travel
- (1) CNC with a 5" spindle, 118" x-travel, 70" y-travel, 23" z-travel, 51" w-travel
- (1) Manual type with a 5" spindle, 83" x-travel, 62" y-travel
- (1) Manual type with a 4" spindle, 60" x-travel, 36" y-travel

Vertical Turret Lathe

- (1) 70" swing, 76" height

Vertical Machining Center

- (1) CNC, 32" x 60" table, 60" x-travel, 31" y-travel, 31" z-travel

Drill Press

- (1) Radial arm, 3" arm, 36" x 8" radial



Vertical Machining Center

ASSEMBLY

M.C. = Maximum Capacity

- Complete assembly services
M.C. = 25 tons
- Control panel manufacturing
- Field service and assembly crews



Sterilizer Final Assembly

INSPECTION

- CWI Inspectors
- Level I LPT Inspectors
- Level II LPT Inspectors
- Level II VT Inspectors
- Level II RT Interpretation
- Quality Control Inspectors

A.S.M.E. Inspection: The Hartford Steam Boiler Inspection and Insurance Company



Horizontal Mill



MATERIAL HANDLING AND FINISHING

MATERIAL HANDLING

M.C. = Maximum Capacity

Lifting

- (26) overhead cranes M.C.= 40 tons with 24' lift
- (16) Forklifts M.C.= 15 tons
- (4) Scissor lifts M.C.= 1 ton, 31' high
- (1) Vacuum lifter M.C.= 500 lbs.
- (1) Telescoping lift M.C.= 500 lbs., 40' high

Hauling

- Capable of hauling up to maximum legal limits
- Oversize hauling

Company Fleet

- Diesel tractors
- 42' Trailers
- 6 Ton flatbed
- Miscellaneous others



Overhead Cranes Lifting 20' Fabricated Ring



Oversized Load With Police Escort

FINISHING

M.C. = Maximum Capacity

Compressors

- (6) Air compressors M.C.= 100 H.P.

Polishing

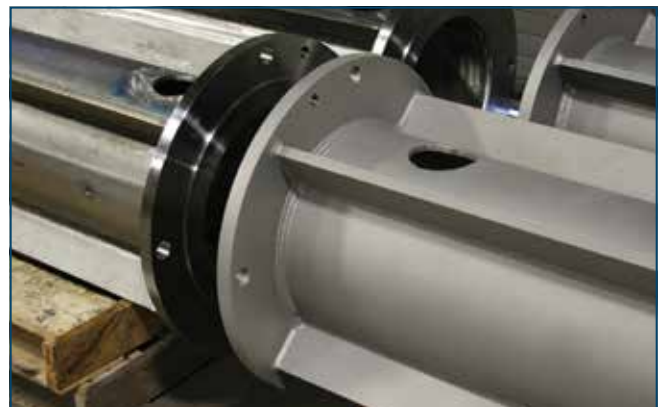
- Mechanical polishing, mill finish and mirror finish
- Electropolishing

Cleaning/Painting

- (4) Empire 250 sandblast systems
- (1) Paint booth
M.C.= 42' long x 16' wide x 14' high
- (1) Airless paint spraying system
- Various abrasive blastings, including grit and glass bead



Polishing a Sterilizer Chamber Vessel



Before and After Media Blasting



LARGE SCALE MANUFACTURING



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