

**RODNEY
HUNT**

®

Comprehensive One-Location OEM Services

Rodney Hunt Company offers the OEM diverse manufacturing capabilities at one location.

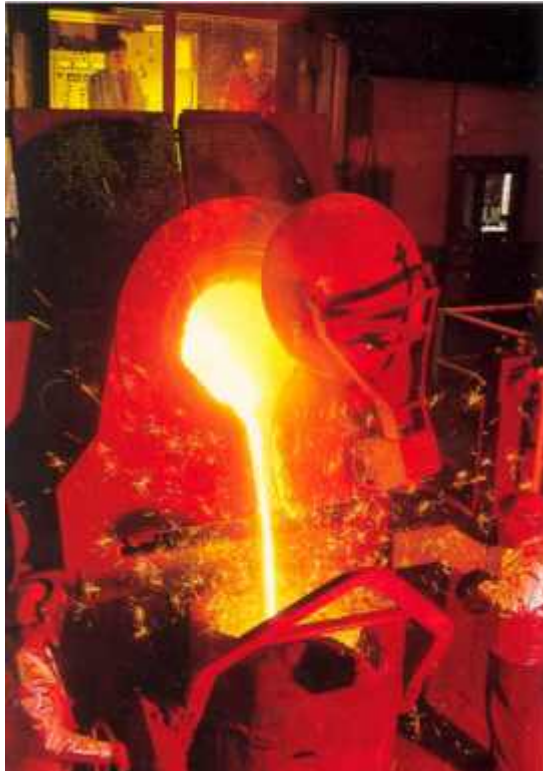
Cast Gray Iron, Ductile Iron and Ni-Resist.

Aluminum, Stainless Steel, and Steel Weldments.

CNC Machining.

Engineering and Design Support.

Hydraulic and Electrical Control Systems, Design and Manufacturing.



CASTINGS

Above: High quality castings to 25,000 lbs. Our foundry includes three modern coreless induction furnaces. We also have complete pattern design and production capabilities. *Below:* The fully equipped metallurgical laboratory adjacent to the foundry includes a Baird spectrometer for analysis of every melt.



FABRICATIONS

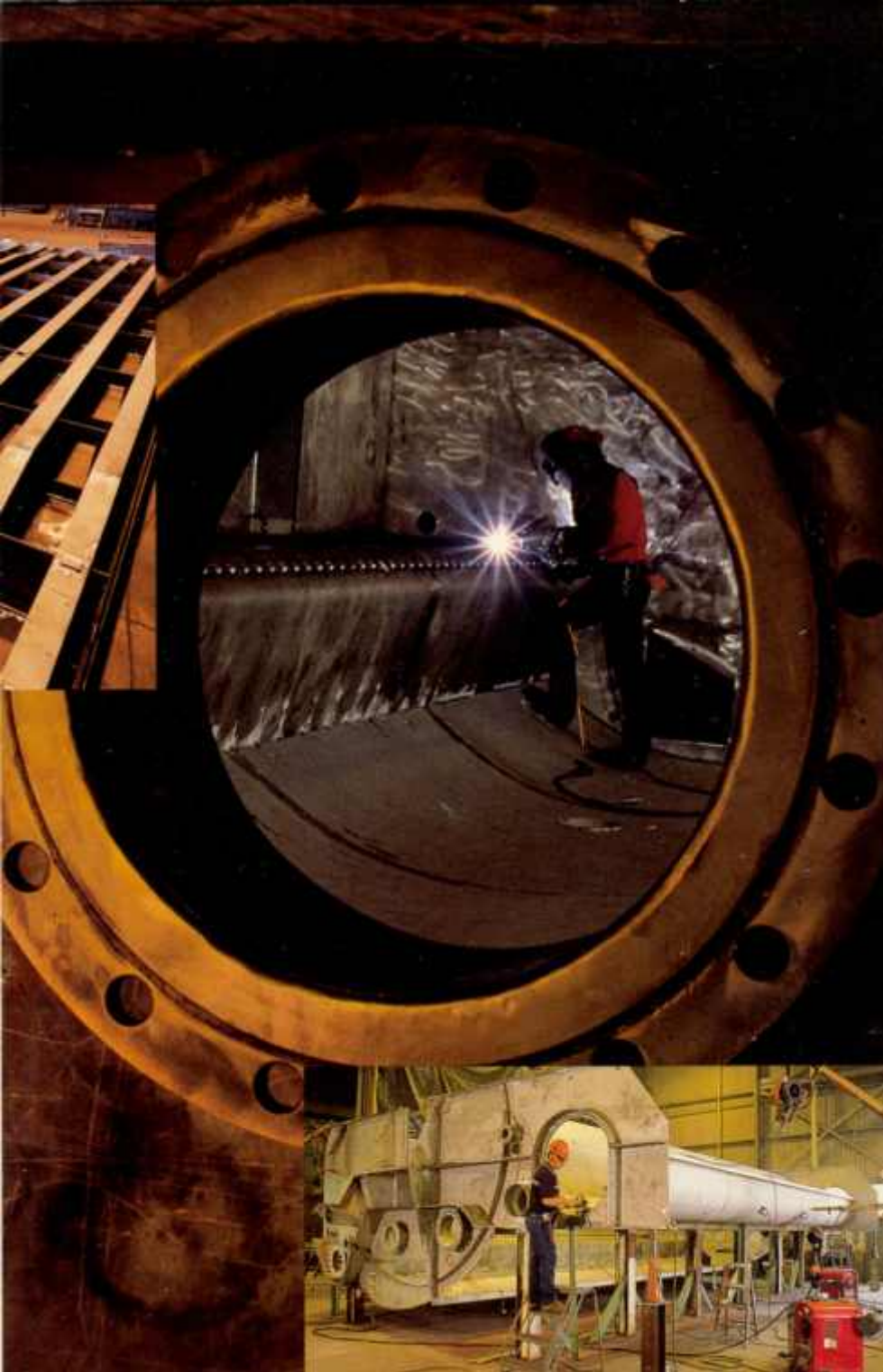
Above: The Fabrication Shop covers over 40,000 square feet, with lifting capabilities to 35 tons. *Next Page:* Rodney Hunt specializes in large aluminum, steel, and stainless steel weldments. Shown here is a 35-ton 32' x 24' stainless steel pulp slurry processing vat. All our welders meet AWS D1.1 or other codes as required.

MACHINING



Left: This twin table CNC vertical milling machine handles assemblies up to 8' wide x 3' high x 33' long. *Below:* Finishing operations on this component for a large gas turbine are accomplished on a 50 hp, CNC horizontal milling machine with 168" vertical travel and 120" horizontal travel.





ENGINEERING

Integrated, continually updated CAD capabilities make many engineering tasks more accurate and timely. Finite element analysis software enables the static and dynamic assessment of a product or component under various loading and stress conditions.



HYDRAULIC & ELECTRICAL CONTROL SYSTEMS

Control system engineering and manufacturing includes development of programmable logic controller-based hydraulic power units.

Casting

Rodney Hunt specializes in the production of Gray Iron, Ductile Iron, and Ni-Resist castings to 25,000 lbs. Twelve ton and four ton coreless induction furnaces provide consistent, high-quality castings. Adjacent to the foundry, our metallurgical laboratory maintains material analysis on every melt.

FACILITIES

35,000 sq. ft. foundry building

Three coreless induction furnaces
- One twelve-ton furnace
- Two four-ton furnaces

Castings to 25,000 lbs

PATTERNS

36,000 sq. ft. pattern shop.

Prototype patterns from polystyrene or wood

Production patterns from polyurethane or wood

Complete pattern design, production and repair services

MOLDS

Large floor-molding capacity No-bake chemical sand with complete sand handling capabilities

CLEANING

Pangborn 4-in-1 shot blast and sand reclamation system

Rough and finish grinding area

Epoxy coating system available

LABORATORY

Baird Spectrometer

Bang and Olfsen Metallograph

Tensile testing

For more information, please call Tom McAndrew, Vice President-Marketing at 978-544-2511. Rodney Hunt Company, Orange, MA 01364.

Casting,
Fabrication, and
Machining at one
location

Engineering
Support Services

Hydraulic and
Electrical Control
Systems

Documented
Quality Program

Pattern making

Reliable Delivery
Commitments

Competitive
Pricing

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Fabrication

Rodney Hunt specializes in the fabrication of precision weldments in steel, stainless steel and aluminum. Handling components from 50 to 50,000 lbs., Rodney Hunt offers specific advantages in the manufacture of large stainless steel components for industry. All welders meet AWS D1.1 or other codes as required.

FACILITIES

40,000 sq. ft. fabrication building

23 cranes (35 ton lifting capacity)

22 ft. clearance

EQUIPMENT

500-ton, 23 ft. brake

3/8" x 12 ft. shear

Six-torch burning table (8' x 20')

Do-All saw (8" x 14")

90 ton Scotchman Ironworker

Two presses: 150 ton and 40 ton

Two positioners: 25 ton and 8 ton

100,000 KVA spot welder

22' (wide), 12' (high), by 36' (long) shot
blast room

10' x 5/8" plate bending rolls

120 ton Mubea Ironworker

LIFTING CAPACITY

35 tons

35 ton mobile crane

15 ton fork truck

FINISHING

Large painting facility 40'(w) x 100'(l)
x 22'(h)

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Machining

Rodney Hunt specializes in the machining of large castings and fabrications to 50,000 lbs. A comprehensive array of milling, turning, and boring equipment ensures precision machining on large and small components and parts.

FACILITIES

43,000 sq. ft. Machining Building

One Schiess Horizontal Milling

Machine CNC

- Motor size: 75 hp
- 286" horizontal and 120" vertical travel

One Ingersoll Vertical Milling Machine CNC

- Motor size: 50 hp
- Twin tables 160" x 88" each
- Distance between columns: 95"
- Height above work table 36"
- 48-tool toolchanger

Three G&L Horizontal Milling Machines CNC

- Motor sizes: 50 hp, 40 hp, 25 hp
- 168" vertical, 120" horizontal travel

G&L Horizontal Machining Center CNC (1993)

- 2 rotary tables, pallet shuttle system
- Machining envelope, 56"x, 56"y, 35"z
- 40 hp, 15-5,000 RPM
- 45-tool toolchanger

TOS HULIN Vertical Turret Lathe CNC (1992)

- Motor size: 84 hp
- Maximum part diameter: 78"
- 15-tool toolchanger

Cincinnati Millicron Turning Center CNC

- Motor size: 50 hp
- Acramatic 900MC control
- Maximum part diameter: 18"
- Maximum machinable length: 84"

Cincinnati Millicron Horizontal Machining Center CNC

- Motor size: 10 hp
- Acramatic 900MC control
- Maximum part size: 26'1 cube
- Indexing rotary table
- 32-tool toolchanger

G&L Vertical Turning Machine -104" swing

- 2 rams
- 96" under rail
- Digital readout

Large, radial track drill

Epoxy coating system available

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Engineering

When Rodney Hunt manufactures your custom products, our engineering personnel are ready to assist. OEM design engineers, consulting engineers, contractors, and plant engineers bring our engineering team some of their most complex design and application problems.

WE OFFER:

Manufacturing Engineering: Casting, Machining, Weldments

Computer Modeling

Computer Aided Design and Drafting (AutoCad)

Structural Analysis and Machine Design

Finite Element Analysis (Algor)

Materials Selection

Corrosion Engineering

Hydraulic and Pneumatic Actuation

System Design

Registered Professional Engineers

Electrical Controls Design

TYPICAL PROJECTS

Casting to Fabrication conversion.

Fabrication to Casting conversion.

Improved product perform.

Failure Analysis

Cast vs. Fabrication analysis

PROFESSIONAL ASSOCIATIONS AND MEMBERSHIPS

ASTM American Society of Testing and Materials

ASCE American Society of Civil Engineers

ASME American Society of Mechanical Engineers

ASM American Society of Metals

AWS American Welding Society

AFS American Foundrymen's Society

AWWA American Water Works Association

AISC American Institute of Steel Construction

AITC American Institute of Timber Construction

ACI American Concrete Institute

NSPE National Society of Professional Engineers

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Casting, Fabrication, and Machining at one location

Engineering Support Services

Hydraulic and Electrical Control Systems

Documented Quality Program

**RODNEY
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®

RODNEY HUNT COMPANY

Custom Manufacturing

Hydraulics & Electrical Control Systems

Rodney Hunt offers the OEM complete hydraulic and electrical control system design and manufacturing, all at one location. We offer:

DEDICATED FACILITY

4000 sq. ft. manufacturing facility

5-ton lifting capability

HYDRAULIC AND ELECTRICAL ENGINEERING DESIGN

Custom engineering design

Hydraulic and electrical engineering personnel

Flexibility to use wide range of component suppliers

CAD generated documentation

MANUFACTURING

In-house forming and fabrication capability

In-house sand/shot blast for surface preparation

In-house paint facilities

Expertise with a variety of piping materials: steel, stainless steel, copper

Electrical control panel assembly and integration

Complete turnkey units available

TESTING

Multiple voltage single and 3-phase supply

Complete system testing at rated pressures

Verification of standards and specification compliance

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