

## ► Marine Production Capability



W. R. Davis Engineering Limited specializes in the design and fabrication of engine exhaust uptakes and infrared (IR) suppressors for naval ships. We supply these systems for both horizontal and vertical exhaust configurations for engine sizes ranging from small diesel generators to large gas turbines such as the GE LM2500+. The complex geometry ducts are fabricated using cutting, forming and welding operations on stainless steel, Inconel, and aluminum.

Production planning, program scheduling, and technical support are provided by the Davis professional engineering staff. Our quality system is in compliance with the ISO9001:2000 and AS9100B standards.



Davis supplies to major shipyards worldwide and we currently have installations in service on over 25 classes of ship. Our clients include NGSS, HHI, Daewoo, Fincantieri, BAE Systems, DCN, Navantia, TKMS, MDL, and Cochin Shipyards.

#### ▶ Personnel

- ▶ Quality program certified to ISO 9001:2000 + AS9100B
- ▶ Dedicated quality inspection team (10 members);
- ▶ 60 trained metal technicians most with 10 plus years of experience;
- ▶ Staff of 24 qualified welders for Aluminum, Stainless Steel, and Inconel;
- ▶ Qualified welding to ASME Section 9 / MIL Std D17.1 / CWB 47.1 & 47.2
- ▶ Staff of 5 production planners
- ▶ 2 Faro Arm inspection stations
- ▶ 3 Certified Level II LPI weld inspectors

#### ▶ Facility

- ▶ 60,000 square foot production plant
- ▶ 15,000 square feet of secure storage
- ▶ Grade level and loading dock access
- ▶ Overhead and rolling material handling equipment to 16,000 lbs
- ▶ Several forklift trucks 5000 to 15,000 Lb. capacity

#### ▶ Special Processes

- ▶ Passivation of stainless steel and Inconel to ASTM specs
- ▶ NDE and visible dye inspections
- ▶ Welding by MIG and TIG
- ▶ Heat treat and stress relieving
- ▶ Machining

#### ▶ Metal Forming

- ▶ 3 sets of sheet roll formers
- ▶ Angle and bar and pipe rolling machines
- ▶ 125 ton and 60 ton hydraulic brake presses
- ▶ 20 ton 4 post press
- ▶ Hydraulic shears 4 ft and 10 ft. ½" capacity

#### ▶ Welding Equipment

- ▶ Ransome 10,000 Lb. weld positioner
- ▶ Aranson 4000 lb weld positioner
- ▶ Multiple Assorted welding machines TIG, MIG
- ▶ Automatic wire feeders
- ▶ Assorted level platform tables for assembly operations

#### ▶ Miscellaneous Equipment

- ▶ 2 stress relieve ovens (small parts)
- ▶ Multiple drill press stations
- ▶ Multiple pneumatic and electric drills, grinders, and deburring tools
- ▶ 3 Air compressors: 25; 30; and 50 HP
- ▶ Vertical milling machines
- ▶ Lathes for parts turning
- ▶ Passivation chemical line baths
- ▶ Metal cutting band saws
- ▶ Inspection surface plates
- ▶ Calibrated inspection measuring tools
- ▶ Crating and packaging equipment



**Davis**

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