



# Container Research Corporation Capability Statement

## BUSINESS SUMMARY:

Container Research Corporation is a veteran owned small manufacturing business that began in 1956. CRC has three (3) facilities totaling 390K square feet that specialize in custom design and build-to-print, reusable metal shipping and storage containers intended for precious cargo to prevent damage during shipping, handling and storage. Applications include fixed and rotor wing aircraft (both manned and unmanned aerial vehicles), rotor blades, engines, weapon systems, satellites, avionics, nuclear/alternative energy and other high-valued item applications. Complete refurbishing services are offered, which include repair, plating and painting.

CRC also specializes in the manufacture of custom designed and built-to-print maintenance and production platforms for used with rotor and fixed wing aircraft across all military and commercial applications. Sizes range from small portable decks to full phase maintenance platforms.

CRC is certified to AS9100, which includes ISO 9001 quality management system requirements and is an ITAR compliant company. **All CRC products are proudly manufactured in the U.S.A.**

## CAPABILITIES:

CRC offers design, build to print, prototype, and full production of reusable metal shipping and storage containers made for military and commercial helicopters/aircraft, weapon systems, missiles, satellites and electronics. Some of our products include rotor blades, main gear boxes, transmissions, satellites, rotor hubs, engine modules, AUR Engine container, electronic pods, air to air refueling containers, fuel cell containers, and rotational molded containers with suspension systems.

In addition we offer sheet metal and structural fabrication of medium and large weldments and the refurbishment of containers, military shelters, buoys, etc. Our product mix also includes aircraft maintenance stands, engine shipping bucks, jigs and fixtures. Other services provided are cleaning, chromate conversion coatings (Alodine) and painting services using high volume low pressure (HVLP) system, which include enamels, lacquers, epoxies and polyurethane coatings and chemical agent resistant coating (CARC).

## OUR FACILITIES:

250,000 SF, Glen Riddle, PA - Manufacturing includes machining, surface blasting, welding, plating, painting, assembly and testing.  
100,000 SF, Elkton, MD - Manufacturing, assembly and refurbishing.  
40,000 SF, Aston, PA - Waterjet cutting and cushion manufacturing.

Quantity 14 - 2, 5 and 10 ton bridge cranes  
Quantity 32 - 8K lb. hoists

## EXPERTISE:

- **60+ years** in design and manufacturing of metal shipping and storage containers for aerospace, government and commercial applications.
- Full design and engineering staff utilizing software (Solid Edge, Unigraphics and other popular software platforms) including finite element analysis.
- Full quality assurance staff including quality engineers, inspectors, machinists, welders, assemblers, painters who are formally trained and certified to ISO9001, AS9100 and various American Welding Society (AWS) qualifications.
- Lean certified manufacturing manager and staff.

## Contact: Customer Service

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Glen Riddle, PA 19037

[www.CRC-FLEX.com](http://www.CRC-FLEX.com)

## North American Industry Classification System (NAICS):

332439	326199	333120
332999	332431	332510
332323	332995	332722
332313	336413	339991
332710	336419	423840
332993	336992	
332312	336999	
332115	334511	
332322	423860	
336411	333514	

## Federal Stock Number (FSC):

1560, 1680, 1740, 5305,  
5307, 5310, 5325, 5330,  
5340, 5365, 8465, 8140,  
8145

Cage Code: 05259

Duns: 00-229-4585

Joint Certification Program  
(JCP) Certification #0003908

Certified Quality Management  
Systems: ISO 9001 and  
AS9100

## PARTIAL CUSTOMER LIST:

Boeing Company, Sikorsky, Lockheed Martin Corporation, Raytheon, Bechtel Plant Machinery, Northrop Grumman, Bell Helicopter, NAVICP, Naval Surface Warfare Center, US Army, US Navy, US Air Force, National Guard, Rolls-Royce, Pratt & Whitney, GE Aviation and DLA Defense Supply.

**TOOLING AND METAL FORMING DEPARTMENTS:****Machine Description (Quantity)**

Amada CNC Turret Punch Press (2)  
 Punch Presses (6)  
 Mechanical Press Brakes (5)  
 CNC Hydraulic Brakes (2)  
 Hydraulic Gang Punches (2)  
 Hydraulic Notcher  
 Rowe Coil Processing Line (1)  
 Shears (2)  
 Rotary Shear and Flanging Machine (1)  
 Universal Ironworker  
 Cylinder Roller for Sheet & Light Plate (2)  
 Ring Roller - Angles  
 Table Saw  
 Band Saws: Vertical (5)  
                   Horizontal (2)  
 Radial Power Saws (2)  
 Drill Presses (12)  
 Belt Sanders (5)  
 Orbital Riveter, RN280  
 Pemsarter  
 Fasti Hydraulic Universal Folding Machine

**Capability / Size Limit**

35 ton .31" x 60" x 100" (without indexing)  
 150 ton maximum  
 225 ton x 19'  
 150 ton x 13'  
 21 ton punch  
 24 ton x .25" thick  
 .135" thick x 60" W  
 .31" thick x 12' maximum  
 .125" thick x 105" diameter  
 15 ton .375" x 3.5" x 3.5"  
 .25" x 10' max  
 .375" x 3.5" x 3.5"  
 10" diameter  
 36" throat  
 6" deep, 12" wide  
 16" diameter  
 3" diameter

**WELDING DEPARTMENT:**

CRC welding certifications include American Welding Society (AWS) D1.1, D1.2, D15.1 & D17.1 – CRC has the capability to obtain additional certifications as necessary. CRC also utilizes gas metal arc welding (GMAW), gas tungsten arc welding (GTAW) and plasma arc welding plasma welding (PAW) processes.

**Equipment Description and Capability**

Welding Robot: Fully automatic, programmable welder for aluminum and steel with .040" repeatability.

Seam Welder, Jetline: Fully automatic, 72" per pass for 144" maximum length.

Spot Welder for Aluminum and Steel: Programmable, 250 kVA, .25" thick bead.

Welding Power Sources / Welding Machines: Capacity to 600 amps for MIG, TIG, and Electric Arc. New OTC Turbo 350 Programmable Power Source. Ten Miller Syncrowave 350-500 amp constant current AC/DC power sources for TIG and stick welding of aluminum and steel. Two (2) Miller XMT 300 series with XR 15 wire feeders, Optima 300 amp constant current, constant control and voltage, and DC inverter power sources with pulsed MIG. Supported by fifteen new Miller XR 15 wire feeders. Eight (8) Miller 350P automated welding machines with steel and aluminum capability, Five (5) automatic seam welding systems, Eight (8) Fronius Transteel state-of-the-art 350-500 amp MIG welders dedicated to heavy steel fabrication.

M.G. Cutting System, ESAB Com-U-Path 500 CNC Control: Six heads with 10' x 10" coverage

Plasma Burning System: For aluminum and carbon, alloy, and stainless steels up to 6" plate.

Portable Plasma System, Thermal Arc Model 102 for aluminum and carbon, alloy, and stainless steels up to 1.5" plate.

Positioners (10): .25 lb. up to 8000 lbs. capacity.

**MACHINE SHOP:****Equipment Description**

CNC Machining Center (3)  
 Vertical Mills (2)  
 Horizontal Mills (2)  
 Tracer Lathe  
 Surface Grinder  
 Flex Arm Tapping & Deburring System

**Capability / Size Limit**

X axis = 60" Y axis = 30" Z axis = 30"  
 32" x 9" to 60" x 12" Table  
 60" x 12" to 100" x 20" Table  
 26" Swing  
 24" x 8" Magnetic Chuck  
 60" x 24"

**PAINT AND FINISHING DEPARTMENT:****Equipment Description**

Paint Spray Booths (4) using HVLP system  
 Tanks: Cleaning  
           Aluminum deoxidizer Bath  
           Rinse (4)  
 Chromate conversion coating (Alodine)  
 Grit Blast Room (w/ steel grit)  
 Glass Beading Room (2) (for aluminum)  
 Steelmaster Dual Head Wet Finishing Machine  
 Conveyors (3)  
 Pressure Tank Spray Systems (7)  
 Various Silk Screening and Marking Equipment

**Capability / Size Limit**

20' x 45' (length expandable)  
 2200 gallons  
 2200 gallons  
 2200 gallons  
 2200 gallons  
 12' x 30' x 10'  
 10' x 22' x 8'  
 53" x 5"  
 8,000 lbs. maximum

**WATERJET CUTTING SYSTEM:**

Standard Table Size:  
 Standard Table Cutting Area:  
 Z Axis Travel  
 Z Axis Max Clearance  
 Positioning Accuracy  
 Repeatability  
 Speed Range

77" x 168"  
 72" x 144"  
 6"  
 10"  
 +/- .004  
 +/- .002  
 0.1 to 100 IPM

**TESTING CAPABILITIES:** Dedicated testing area fully equipped to perform instrumented dynamic shock testing, static and dynamic load testing, handling tests and fit and function testing. Transportation testing, environmental and various vibration tests can also be administered. All testing is performed in accordance with customer or CRC developed specifications. Tools include; Shock recording equipment, IST data recorder for shock, temperature, humidity and transportation data acquisition. Various Vacuum and pressure gauges. Various hydraulic and mechanical equipment for load testing.