Aircraft and Commercial Sheet Metal Parts and Assemblies

- Capps works closely with your Engineering team and specializes in stretch form and fabrication of detail parts and assemblies.
- Capps is skilled in working with extruded and sheet metal details produced from Aluminum, Titanium, Inconel, Corrosion resistant steels, and other alloys.
- Capps is nationally known for innovative methods of solving the toughest manufacturing challenges.
- From high volume contracts to unique aerospace designs, the “old pros” at Capps say "no job is too tough".

Incorporated August 22, 1984  D-U-N-S: 14-747-1494

Visit us @ www.cappsmfg.com
Quality Policy

_Capps Manufacturing, Inc._ is dedicated to be the preferred supplier of aircraft detail parts, components, and assemblies by providing our customers the best value in:

- Meeting the customers expectations.
- Being fair and ethical.
- Being resourceful, disciplined and flexible.
- Providing 100% on-time delivery.
- Providing 100% quality and reliability.
- Continuously reducing cost and lead-times.
- Being profitable.
Barney L. Capps, President and majority owner of Capps Manufacturing, Inc., started in the aircraft business in 1952. In 1962, he became Plant Manager of H & H Parts Co. and was heavily involved in the Learjet Model 23 program developing all tooling, production parts and assemblies for the engine nacelles, including static test, access doors, various small assemblies and detail parts. This relationship with Learjet continued through development of the 35, 36, and 55 models and continues today with the 45 and 60 model programs. In 1983, Barney left H & H Parts Co. to start Capps Machine, Inc. now Capps Manufacturing, Inc.

Ronald L. Capps, Vice President and minority owner of Capps Manufacturing, Inc. Ron’s Education includes; Bachelor of Science Business Administration and a Masters in Management Information Systems, both from Friends University in Wichita, KS. In addition, Ron is Certified Production & Inventory Management (CPIM) accredited from the American Production & Inventory Society (APICS). Ron worked for the Boeing Commercial Airplane Co. for 19 years. At Boeing, Ron gained experience in Industrial Engineering, Operations Systems, and his last five years working with cycle time reduction and Lean Manufacturing concepts for major assembly of the forward nose fuselage on the Boeing 747, 767, and 777 programs. Ron joined Capps Manufacturing full-time in July of 1999.
Meet Our Management Team

Barney L. Capps
President

Ron L. Capps
Vice President

Don G. Smith
Senior Manager Marketing/M.E.

Cody Lassley
Quality Control

Tony Henning,
Processing Line
Manager

Ray Schoenecker,
Production Manager

Nathan R. Chambers
Assembly/Shipping Manager

Ed L. Stephens
Quality, Safety,
and Regulatory Compliance

Steven L Hudson
IE/IT/CI Manager

Richard Laake, Facilities
/ Maintenance Manager
### Capabilities

- SKIN & LEADING EDGE STRETCH FORMING
- EXTRUSION STRETCH FORMING
- FLUID CELL FORMING
- HYDRO FORMING & DRAW FORMING
- 3 & 5 AXIS CNC MACHINING
- THERMAL PROCESSING (Anneal, Age Harden & Heat Treat)
- CHEMICAL PROCESSING (ChemFilm, Anodize, Pent., Prime)
- COMPONENT ASSEMBLY
- PUNCH PRESS
- ROLLFORMING
- TIG WELDING

### In-House Tooling

- STRETCH FORM DIES
- HYDRO BLOCKS
- 5 AXIS CNC ROUTE FIXTURES
- DRAW FORM TOOLING
- FORM BLOCKS
- ASSEMBLY FIXTURES
- JOGGLE DIES
- ROUTER BLOCKS
- BLANKING TOOLS
- WELD FIXTURES

### CAD/CAM

- CATIA V.5 Design and Programming
- Vericut
- Portable Romer CMM with 48"radial ability
- Leica Laser Tracker
- Verisurf verification software
- Translators including CATIA
- Kubotek Validation & Comparison software
## Customer Base
Just a sample of our many customers

<table>
<thead>
<tr>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIDC (Aerospace Industrial Development Corporation)</td>
</tr>
<tr>
<td>Bombardier – Learjet, Inc.</td>
</tr>
<tr>
<td>Spirit AeroSystems, Inc.</td>
</tr>
<tr>
<td>ASC Signal Corporation</td>
</tr>
<tr>
<td>Boeing Defense &amp; Space</td>
</tr>
<tr>
<td>Cobham Mission Systems</td>
</tr>
<tr>
<td>GKN Aerospace</td>
</tr>
<tr>
<td>Gulfstream Aerospace Corp.</td>
</tr>
<tr>
<td>Weatherford Aerospace, Inc.</td>
</tr>
<tr>
<td>TEXTRON AVIATION (Beechcraft/Cessna/Hawker)</td>
</tr>
<tr>
<td>MHI Canada</td>
</tr>
<tr>
<td>Shenyang Aircraft Corporation</td>
</tr>
<tr>
<td>NORDAM (Northeast Oklahoma Repair Development and Manufacturing)</td>
</tr>
<tr>
<td>Arnprior Aerospace</td>
</tr>
<tr>
<td>CPI Aerostructures, Inc.</td>
</tr>
<tr>
<td>Lockheed Martin Aircraft</td>
</tr>
<tr>
<td>Middle River Aircraft Systems</td>
</tr>
<tr>
<td>Fokker Aerostructures B.V.</td>
</tr>
</tbody>
</table>
Just a sample of our many customers
Building 1 - 112,000 Sq. Ft. manufacturing facility located at 2121 S. Edwards.

Building 2 - 50,000 Sq. Ft. located at 2132 S. Edwards for Raw Matl and Ext Fuel Tank Fab & Assembly.


Building 4 - 79,750 Sq. Ft. manufacturing facility located at 2222 S. Custer - Leased

Building 5 - 27,000 Sq. Ft. Tool Fab & Tool Storage facility

Capps Manufacturing Campus – 300K Sq. Ft.
### Key Equipment List

<table>
<thead>
<tr>
<th>Machine</th>
<th>Model</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyril Bath</td>
<td>VTL 800</td>
<td>Skin &amp; Leading Edge Stretch</td>
<td>800 ton 15’x30’ sheet CNC</td>
</tr>
<tr>
<td>Cyril Bath</td>
<td>V-75</td>
<td>Stretch Press - Extrusion</td>
<td>32’ Grip- 75 ton CNC</td>
</tr>
<tr>
<td>Cyril Bath</td>
<td>V-30</td>
<td>Stretch Press - Extrusion</td>
<td>24’ Grip- 30 ton CNC</td>
</tr>
<tr>
<td>Hufford</td>
<td>A-15</td>
<td>Stretch Press - Extrusion</td>
<td>45’ Grip- 225 ton</td>
</tr>
<tr>
<td>Hufford</td>
<td>A-12 (2)</td>
<td>Stretch Press - Extrusion</td>
<td>30’ Grip- 60 ton</td>
</tr>
<tr>
<td>Hufford</td>
<td>A-7</td>
<td>Stretch Press - Extrusion</td>
<td>18’ Grip- 23 ton</td>
</tr>
<tr>
<td>Hufford</td>
<td>A-10 (2)</td>
<td>Stretch Press - Extrusion</td>
<td>18’ Grip- 17 ton CNC</td>
</tr>
<tr>
<td>Erco</td>
<td></td>
<td>Skin &amp; Leading Edge Stretch</td>
<td>460 ton 14’ die table</td>
</tr>
<tr>
<td>Erco</td>
<td></td>
<td>Skin &amp; Leading Edge Stretch</td>
<td>300 ton 10’ die table</td>
</tr>
<tr>
<td>Erco</td>
<td></td>
<td>Skin &amp; Leading Edge Stretch</td>
<td>200 ton 10’ die table</td>
</tr>
<tr>
<td>Capp Design</td>
<td>A-12</td>
<td>Stretch Press - Extrusion</td>
<td>18’ Grip- 70 ton</td>
</tr>
<tr>
<td>Verson Wheelon</td>
<td>A-12</td>
<td>Stretch Press - Extrusion</td>
<td>18’ Grip- 70 ton</td>
</tr>
<tr>
<td>HPM</td>
<td></td>
<td>Hydro Press (rubber forming)</td>
<td>16200 ton 36”x120” die tables</td>
</tr>
<tr>
<td>Capp Design</td>
<td></td>
<td>Hydro Press</td>
<td>2500 ton, 4’x8’ die tables</td>
</tr>
<tr>
<td>Capp Design</td>
<td></td>
<td>Hydro Press</td>
<td>300 ton 3’x5’ die table</td>
</tr>
<tr>
<td>Capp Design</td>
<td></td>
<td>Hydro Press</td>
<td>100 ton</td>
</tr>
<tr>
<td>Cincinnati</td>
<td></td>
<td>5 axis CNC Gantry Mill</td>
<td>x 200” y 140” z 60”</td>
</tr>
<tr>
<td>DMS Router (3)</td>
<td></td>
<td>5 axis CNC Router</td>
<td>x 182” y 120” z 60”</td>
</tr>
<tr>
<td>DMS Router VT</td>
<td></td>
<td>3 axis CNC Machining center</td>
<td>x 120” y 40” z 30”</td>
</tr>
<tr>
<td>HAAS VR11</td>
<td></td>
<td>5 axis CNC Machining center</td>
<td>x 175” y 55” z 39.3”</td>
</tr>
<tr>
<td>SNK HPS-12O</td>
<td></td>
<td>5 axis CNC Machining center</td>
<td>x 80” y 30” z 30”</td>
</tr>
<tr>
<td>Fadal (2)</td>
<td>8030</td>
<td>3 axis CNC Machining center</td>
<td>x 60” y 30” z 30”</td>
</tr>
<tr>
<td>Fadal</td>
<td>6030</td>
<td>3 axis CNC Machining center</td>
<td>x 40” y 20” z 20”</td>
</tr>
<tr>
<td>Fadal</td>
<td>4020</td>
<td>3 axis CNC Machining center</td>
<td>x 50” y 20” z 25”</td>
</tr>
<tr>
<td>HAAS VF4</td>
<td></td>
<td>5 axis CNC Machining center</td>
<td>x 120” y 40” z 30”</td>
</tr>
<tr>
<td>Despatch (2)</td>
<td></td>
<td>Drop bottom heat treat oven</td>
<td>16’L x 12’H x 6’W, 1000 deg F</td>
</tr>
<tr>
<td>Gehnrich</td>
<td></td>
<td>Age harden oven</td>
<td>30’L x 6’H x 8’W, 600 deg F</td>
</tr>
<tr>
<td>OSI</td>
<td></td>
<td>Age harden oven</td>
<td>8’L x 8’H x 8’W, 600 deg F</td>
</tr>
<tr>
<td>Despatch (2)</td>
<td></td>
<td>Age harden oven</td>
<td>3’L x 3’H x 3’W, 600 deg F</td>
</tr>
<tr>
<td>LVD</td>
<td></td>
<td>Power squaring shear</td>
<td>16’ x 1/4”</td>
</tr>
<tr>
<td>Verson</td>
<td></td>
<td>Brake press</td>
<td>10’ 150 ton</td>
</tr>
<tr>
<td>Summit</td>
<td></td>
<td>Brake press</td>
<td>3’ 25 ton</td>
</tr>
<tr>
<td>Webb</td>
<td></td>
<td>Power roll</td>
<td>8’x4” dia. Rolls</td>
</tr>
<tr>
<td>Warco</td>
<td></td>
<td>Punch press</td>
<td>150 ton</td>
</tr>
<tr>
<td>Niagara</td>
<td></td>
<td>Punch press</td>
<td>150 ton</td>
</tr>
<tr>
<td>V&amp;O</td>
<td></td>
<td>Punch press</td>
<td>150 ton</td>
</tr>
<tr>
<td>Bliss</td>
<td></td>
<td>Punch press</td>
<td>50 ton</td>
</tr>
<tr>
<td>Press Rite</td>
<td></td>
<td>Punch press</td>
<td>25 ton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Punch press</td>
<td>15 ton</td>
</tr>
</tbody>
</table>
Frames
Gulfstream Model G650

Frame & Doubler
Boeing 737 Thrust Reverser

Nose Bulkhead
Bombardier-Learjet Model 60 Thrust Reverser

Channel & Angles
Lockheed C-141 Trust Reverser
Lockheed C-141 Trust Reverse Support Assembly

Bombardier-Learjet Speed brake FAJ

Boeing 737 Leading Edge

Nose gear door assembly
<p>| Hufford A-15 | 45’ Grip – 225 ton |</p>
<table>
<thead>
<tr>
<th>Model</th>
<th>Grip Length</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyril Bath V-75 CNC</td>
<td>32’</td>
<td>75 ton</td>
</tr>
<tr>
<td>Cyril Bath V-30 CNC</td>
<td>24’</td>
<td>30 ton</td>
</tr>
<tr>
<td>Hufford A-12 (2)</td>
<td>30’</td>
<td>60 ton</td>
</tr>
<tr>
<td>Hufford A-10 (2) CNC</td>
<td>18’ Grip Length</td>
<td></td>
</tr>
<tr>
<td>Hufford A-7 CNC</td>
<td>18’</td>
<td>23 ton</td>
</tr>
<tr>
<td>Capps Design A-12</td>
<td>20’</td>
<td>270 ton</td>
</tr>
</tbody>
</table>

- **Steel Frames “Z” & “L”**
- **Extruded Hat Section**
- **Sheet Metal Channel**
• 800 tons of Forming Pressure.
• Complete CNC controls of all functions.
• Capable of Leading Edge and Drape forming up to 15' long and “End Pulled” skins up to 30’ long.
• 400 tons of down acting bulldozer pressure for reverse contour work.
• Curving auxiliary grippers (24” radius min.).
Leading Edge – Up to 16’

Parker Hannifin | Stretch Press | 3 ton
---|---|---
Erco | Stretch Press | 150 ton
Erco | Stretch Press – Leading Edge | 300 ton
Erco | Stretch Press | 460 ton

Titanium Skin
Aluminum Bulkhead

Stang Inner Panel

Sheet Metal “Z” Shaped Frame

Firewall

<table>
<thead>
<tr>
<th>HPM</th>
<th>Hydro Press</th>
<th>2500 Ton Bed 4’x8’</th>
</tr>
</thead>
</table>
Verson Wheelon 16200R 36-120 Fluid Form Press.
Tray size: both 36”x120” with bottom depth of 4 ½” and 6 ½”. Capacity Tonnage – 16,200.
Pressure Forming – Maximum psi 7,500.
<table>
<thead>
<tr>
<th>DMS</th>
<th>5 Axis CNC Router</th>
<th>Table 182&quot; X120&quot; (2)</th>
<th>Table 300&quot; X120&quot; (1)</th>
</tr>
</thead>
</table>

Stretch Form Block

737 Bulkhead Web
<table>
<thead>
<tr>
<th>Stretch Block Tooling</th>
<th>Hydro Block Tooling</th>
<th>Fitting</th>
</tr>
</thead>
</table>

<p>| SNK HPS-120A | 5 Axis CNC | Table 169&quot;x48&quot; |</p>
<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Axis Type</th>
<th>Table Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fadal 4020</td>
<td>3 Axis CNC</td>
<td>Table x40&quot;y20&quot;z20</td>
</tr>
<tr>
<td>Fadal 6030</td>
<td>3 Axis CNC</td>
<td>Table x60&quot;y30&quot;z30</td>
</tr>
<tr>
<td>Fadal 8030</td>
<td>3 Axis CNC</td>
<td>Table x80&quot;y30&quot;z30</td>
</tr>
<tr>
<td>Fadal 8030</td>
<td>3 Axis CNC</td>
<td>Table x80&quot;y30&quot;z30</td>
</tr>
<tr>
<td>Cincinnati</td>
<td>5 Axis CNC Gantry Mill</td>
<td>Table 104&quot;x180&quot;</td>
</tr>
</tbody>
</table>
Despatch Drop Bottom Oven.

Load capability is 6' width x 16' length x 12' height with Operating Range up to 1,000 deg. F.

AC7102 & AC7101/5
AMS2770, AMS-H-6088

Heat Treat
**Diagram of Chemical Processing and Paint Facility**

**Maintenance Work Area**
- Wet Line: Boric Acid Anodize – BAC 5632
- Chem Film – AMS 2473, BAC 5719, CSFS 207, MIL-C-5541, MIL-DTL 5541, RPS 13.53
- Clean – BAC 5763, BAC 5765, BAC 5766, BMS 11-6, CSFS 035, CSFS 036, CSFS 037, CSFS 039, CSFS 044, CSFS 045, CSFS 047, CSFS 048, CSFS 049, MIL-P-85991.

**Staging Area**
- Tables/Racks for Fixtures and Wall Grid for Photographing

**Receiving Inspection and Parts Photographing**
- Paint: BAC 5736, BAC 5793, BAC 5710, BAC 5755, BAC 5882, BSS25032, BSS22455, BSS361, CSFS 084, CSFS 007, MIL-F-18924, MIL-PRF-23377, DHC 5.2, NP50509, RPS 13.75, RPS 13.97, RPS 13.98

**Process & WT Alkaline Chemical Storage**

**Cr+6 Control Area**
- Spray Paint Booth
- Hexavalent Chromium

**Final Inspection**
- Penetrant: AMS-2644, ASTM E 1417, BAC 5423, BAC 5652, BSS25691, BSS 7039, CSTI 602, MIL-STD-1907, NAS 410

**Tables/Racks for Fixtures and Wall Grid for Photographing**

**Operational Work Way**

**Area Unload**
- Process & WT Acid Storage

**Future Lab (not in use)**

**Boiler Room**
- Chemical Processing and Paint Facility

**POTW Waste Water Exchange**
- MEN’S Rest Rooms
- WOMEN’S Rest Rooms

**Office**
- Men’s
- 53

**Boiler Room**
- Water and MSD Storage
- Spray Paint Wash Basin

**Paint Room Control Area**
- Process & WT Alkaline Chemical Storage
- Oven

**Inspection**
- Cr+6

**Conformance**
- Conformance

**Con. Cr+6**
- Chem Tote Tanks

**Operation Walk Way**
- Boiler Room

**MEK Storage**
- WT Alkaline

**Boiler Room**
- Non-Conformance Area

**Air Compressor in the northeast corner of the south half of the building**

**Non-Conformance Area**
Chemical Processing and Paint Facility

Waste Water Treatment

Processing Line

Anodized Part

Paint Oven

Paint Booth

Painted Parts

Penetrant Booth

Finished Parts

Alodined Part
Location

Close to Mid-Continent International Airport with easy access to U.S. 54 and Interstate Highways I-35, I-135 & I-235.

2121 S. Edwards
Wichita, Kansas 67213

Phone: 316-942-9351
Technical Approvals & Certifications

Check out our complete list of OEM approvals on our web site.
http://www.cappsmfg.com/approvals/

Request a Quote or Contact Us

Use our web site to request a quote or contact us.
https://www.cappsmfg.com/request-quote/
https://www.cappsmfg.com/contact-us/

Snap the code to the right with your smartphone to request a quote using our convenient on-line form!
This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Capps Manufacturing Inc.
2121 S Edwards St
Wichita, KS 67213-1868
United States

This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in www.eAuditNet.com on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:

Heat Treating

Certificate Number: 4040193210
Expiration Date: 30 April 2021
Accreditation Length: 18 Months

Michael J. Hayward
Vice President and Chief Operating Officer

Performance Review Institute (PRI) | 161 Thorn Hill Road | Warrendale, PA 15086-7527
This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Capps Manufacturing Inc.

2121 S Edwards St
Wichita, KS 67213-1868
United States

This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in www.eAuditNet.com on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:

Chemical Processing

Certificate Number: 4040157990
Expiration Date: 31 January 2021

Michael J. Hayward
Vice President and Chief Operating Officer

Performance Review Institute (PRI) | 161 Thorn Hill Road | Warrendale, PA 15086-7527
This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Capps Manufacturing Inc.

2121 S Edwards St
Wichita, KS 67213-1868
United States

This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in www.eAuditNet.com on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:

NonDestructive Testing

Certificate Number: 4060101804
Expiration Date: 31 January 2021
Accreditation Length: 18 Months

Michael J. Hayward
Vice President and Chief Operating Officer

Performance Review Institute (PRI) | 161 Thorn Hill Road | Warrendale, PA 15086-7527
CERTIFICATE OF REGISTRATION

This is to certify that

Capps Manufacturing Inc.
2121 South Edwards, Wichita, Kansas 67213 USA

The above organization has been audited in accordance with the requirements of AS9100C:2012. QMI-GAI Canada Limited (SAI Global) located in Toronto, Ontario, Canada is accredited under the Industry Controlled Other Party (ICOP) scheme. The certificate is issued at the accreditation location in Toronto, Canada.

operates a

Quality Management System
which complies with the requirements of

ISO 9001:2015 + AS9100D

for the following scope of certification

Fabrication of Sheetmetal Parts for the Aircraft Industry.

Certificate No.: CERT-0107841
File No.: 1500545
Issue Date: December 6, 2017

Original Certification Date: December 11, 2002
Certification Effective Date: December 6, 2017
Certification Expiry Date: December 5, 2020

N. Grantham
General Manager SAI Global Certification Services
Our Vision and Strategy for the Future

*To do whatever it takes to gain and maintain the respect and admiration of our Customers, Employees, and the Community.*

*By…*
Recruiting, retaining, and motivating the most highly skilled employees available.

*Which will help us…*
Increase capacity with current levels of capabilities by becoming more efficient and implementing lean manufacturing concepts.

*Which will allow us to make profit and reinvest…*
Striving to become self contained by bringing outsourced manufacturing processes internally as cost/benefits become feasible.

*And…*
Become “one-stop-shopping” for our Customers by offering services from special tooling to detail parts fabrication to assemblies.

*Which will make us the preferred…*
Partner for our Customers and for them to share in our evolving from a job shop to become a full design/build aerospace manufacturing facility.

*Visit us @ www.cappsmfg.com*