



## ***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](http://www.cappsmfg.com)***



AS9100 REV.B:2004  
ISO9001:2000  
Certificate ASP15812



### 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.



Barney L. Capps  
President



Ron L. Capps  
Vice President

## Meet Our Management Team



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



Claude R. Hephner  
Quality Control



Ed L. Stephens  
Quality, Safety,  
and Regulatory Compliance



Steven L. Hudson  
IE/IT/CI Manager



Nathan R. Chambers  
Assembly/Shipping Manager



Jessica D. Hudgins  
Processing Line Manager



R. Mike Irvin  
Production Manager



Kurt M. Selph  
Production Manager



## Capabilities

- SKIN & LEADING EDGE STRETCH FORMING
- EXTRUSION STRETCH FORMING
- FLUID CELL FORMING
- HOT FORMING
- HYDRO FORMING & DRAW FORMING
- 3 & 5 AXIS CNC MACHINING
- THERMAL PROCESSING (Anneal, Age Harden & Heat Treat)
- 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

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## CAD/CAM

- Master CamX4 Level 3  
2-5 Axis Programming Systems
- Translators including CATIA
- Flat Digitizer 48x36
- 22x34 Inkjet Plotter
- Predator Virtual CNC Verifying System
- CATIA v.5 Release 18 & 19 Design and Programming
- Portable Romer CMM with 48"radial ability

# CAPPS

MANUFACTURING, INC.

2121 S. Edwards Wichita, KS 67213-1868  
(316)942-9351 FAX (316)942-6771 www.cappsmfg.com

## Technical Approvals & Certifications



**CERTIFICATE OF REGISTRATION**

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

complies with the requirements of  
**AS 9100 REV. B:2004 and ISO 9001:2000**  
Quality Management Systems – Aerospace – Requirements.

for the following capacity:  
This Registration Covers the Quality Management System for the Fabrication and Assembly of Aerospace Components

Registered by:  
SAI Global Certification Services Pty Ltd ACN 60 718 663 an wholly owned subsidiary of SAI Global Limited  
288 Sydney Street, Sydney NSW 2000 Australia and SA Global Pty Ltd (SAI Global) registered in SA. SAI Global Terms and Conditions for Certification apply to this registration. This certificate is valid for the purposes of SAI Global and responsibility for the product and service remains with the client. SAI Global does not accept any liability for the product or service provided by the client or its suppliers.

Certificate No.: ASP15812      Certified Date: 12/11/2008  
Issue Date: 12/11/2008      Expiry Date: 12/11/2008


The above registration has been audited in accordance with the requirements of AS 9100 Rev B and ISO 9001 Certification Services Pty Ltd as accredited under the Aerospace Register Management Program





For full details on this and all other SAI Global Certification Register Programs visit www.sai-global.com

AS9100 REV.B:2004  
ISO9001:2000  
Certificate ASP15812




In accordance with SAE Aerospace Standard AS 91033, to the revision in effect at the time of the audit, this certificate is granted and awarded by the authority of the Nadcap Management Council to:

**Capps Manufacturing Inc.**  
2121 S. Edwards St  
Wichita, Kansas 67213-1868

This certificate demonstrates confirmation and recognition of accreditation for specific services, as listed in www.auditnet.com on the Qualified Manufacturer's List (QML), to the revision in effect at the time of the audit for:

**Heat Treating**



Expiration Date: April 30, 2009  
Certificate No.: 15428  
Issued February 08, 2008  
William G. Wagner, Managing Director

Performance Review Institute (PRI) 181 Thorne Road East, Weymouth, MA 01978-5527



Heat Treat

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

Boeing	D1-9000 Rev. A BAC5602 AMS2770
Bombardier	QD 4.6-40 LES1051 MPS168-7
Cessna	CQRS CSMP003
Lockheed Martin	AMS2770 STP 54-101
NORDAM	SDQA (Q-126) AMS2770
Hawker Beechcraft	SDQA (Q-126) AMS2770



## Customer Base

Just a sample of our many customers

NORDAM (Northeast Oklahoma Repair Development and Manufacturing)
Bombardier – Learjet, Inc.
Spirit AeroSystems, Inc.
Boeing Commercial Airplane Group
Boeing Defense & Space
Cessna Aircraft Company
GKN Aerospace
Gulfstream Aerospace Corp.
Hawker Beechcraft Corporation
AIDC (Aerospace Industrial Development Corporation)
Cobham
Shenyang Aircraft Corporation
Northrop Grumman Corporation
Arnprior Aerospace
Triumph Accessory Services
Lockheed Martin Aircraft
Aeronca
TECT Aerospace

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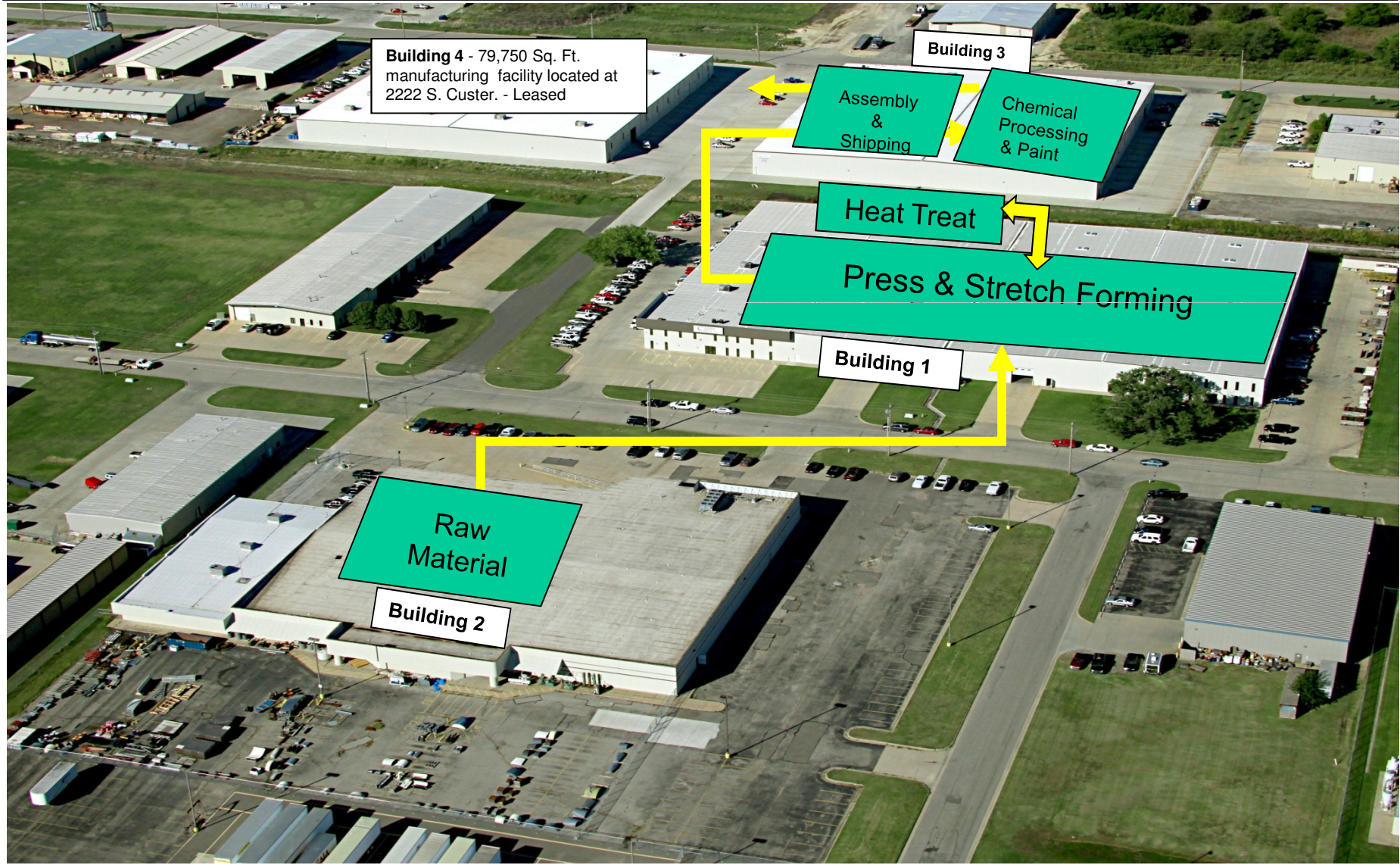
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Just a sample of our many customers





## Current Capps Manufacturing Material & WIP Flow



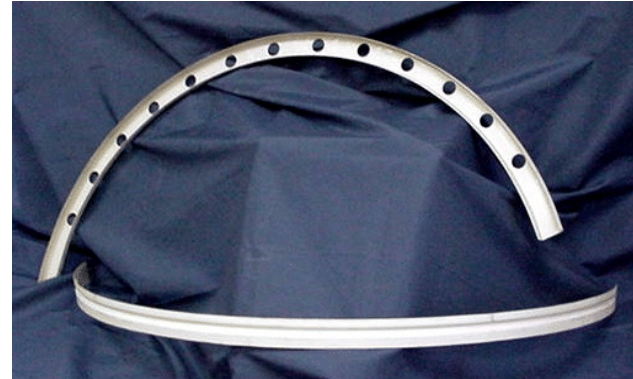


### Key Equipment List

Machine	Model	Description	Size
Cyril Bath	VTL 800	Skin & Leading Edge Stretch	800 ton 15'x30' sheet CNC
Cyril Bath	V-75	Stretch Press - Extrusion	32' Grip- 75 ton CNC
Cyril Bath	V-30	Stretch Press - Extrusion	24' Grip- 30 ton CNC
Hufford	A-15	Stretch Press - Extrusion	45' Grip- 225 ton
Hufford	A-12	Stretch Press - Extrusion	30' Grip- 60 ton
Hufford	A-7	Stretch Press - Extrusion	25' Grip- 23 ton
Hufford	A-7	Stretch Press - Extrusion	18' Grip- 23 ton
Hufford	A-10	Stretch Press - Extrusion	18' Grip- 17 ton
Hufford	A-10	Stretch Press - Extrusion	18' Grip- 17 ton
Erco		Skin & Leading Edge Stretch	460 ton 14' die table
Erco		Skin & Leading Edge Stretch	300 ton 10' die table
Erco		Skin & Leading Edge Stretch	200 ton 10' die table
Capp Design	A-15	Stretch Press - Extrusion	20' Grip- 270 ton
Capp Design	A-12(2)	Stretch Press - Extrusion	18' Grip- 70 ton
Verson Wheelon		Fluid Form Press	16200 ton 36"x120" die tables
HPM		Hydro Press (rubber forming)	2500 ton, 4'x8' die tables
Capp Design		Hydro Press	300 ton 3'x5' die table
Capp Design		Hydro Press	100 ton
Cincinnati		5 axis CNC Gantry Mill	x 200" y 140" z 60"
DMS Router (2)		5 axis CNC Router	x 182" y 120" z 60"
HAAS	VR11	5 axis CNC Machining center	x 120" y 40" z 30"
Viper		5 axis CNC Machining center	x 80" y 38" z 40"
Fadal (2)	8030	3 axis CNC Machining center	x 80" y 30" z 30"
Fadal	6030	3 axis CNC Machining center	x 60" y 30" z 30"
Fadal	4020	3 axis CNC Machining center	x 40" y 20" z 20"
HAAS	VF4	3 axis CNC Machining center	x 50" y 20" z 25"
Despatch		Drop bottom heat treat oven	16'L x 12'H x 6'W, 1200 deg F
Gehrich		Age harden oven	30'L x 6'H x 8'W, 600 deg F
OSI		Age harden oven	8'L x 8'H x 8'W, 600 deg F
Despatch (2)		Age harden oven	3'L x 3'H x 3'W, 600 deg F
LVD		Power squaring shear	16' x 1/4"
Verson		Brake press	10' 150 ton
Summit		Brake press	3' 25 ton
Webb		Power roll	8' x 4" dia. Rolls
Warco		Punch press	150 ton
Niagra		Punch press	150 ton
V&O		Punch press	50 ton
Bliss		Punch press	25 ton
Press Rite		Punch press	15 ton



Frames  
Gulfstream Model G650



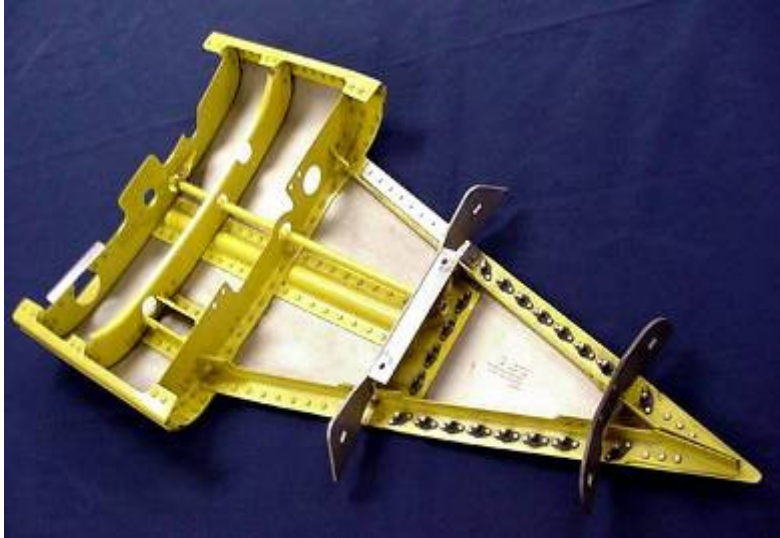
Frame & Doubler  
Boeing 737 Thrust Reverser



Nose Bulkhead  
Bombardier-Learjet Model 60 Thrust Reverser



Channel & Angles  
Lockheed C-141 Thrust Reverser



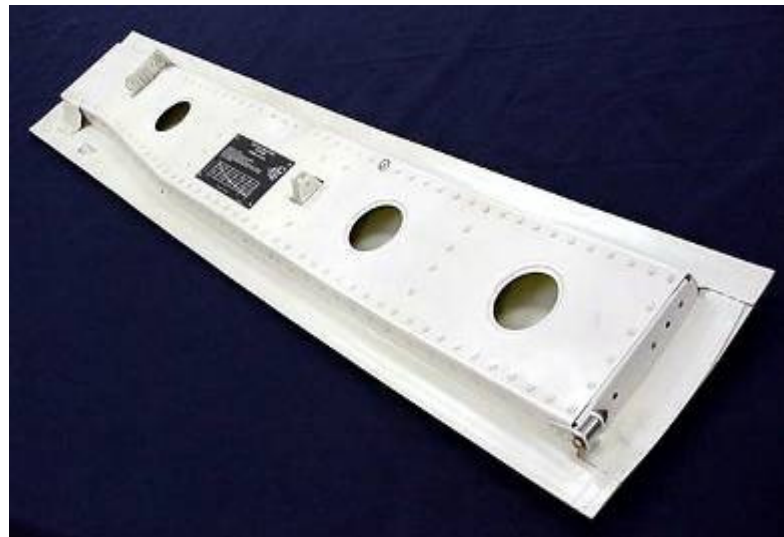
Lockheed C-141 Trust Reverse  
Support Assembly



Bombardier-Learjet Speed brake FAJ



Boeing 737 Leading Edge



Nose gear door assembly

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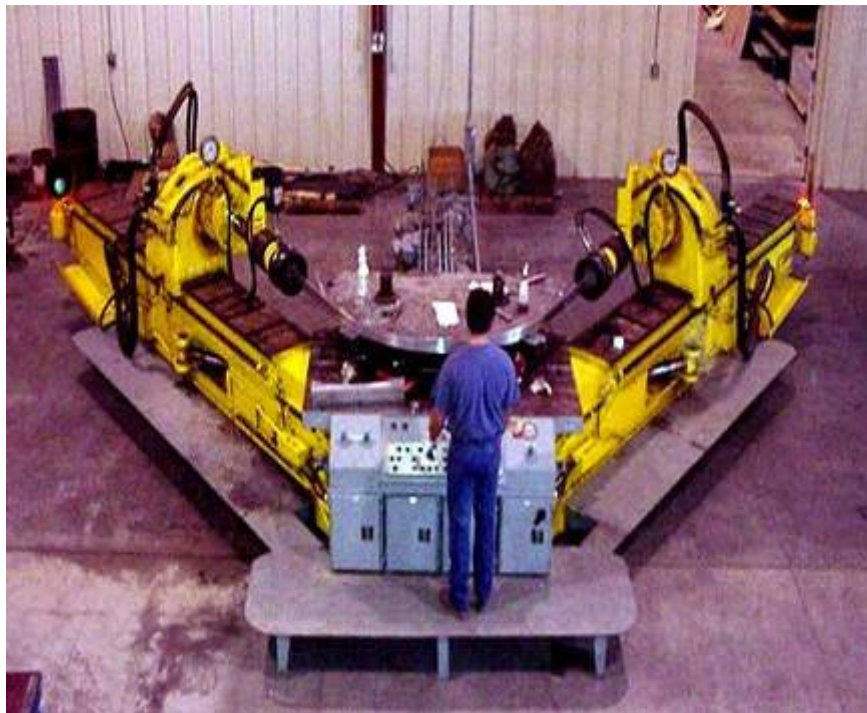
Huford A-15

45' Grip – 225 ton

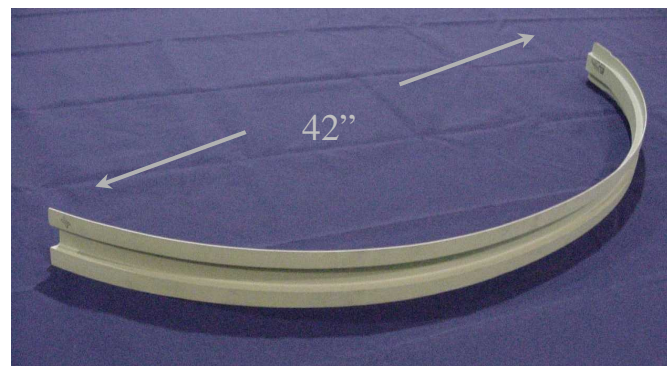
# CAPPS

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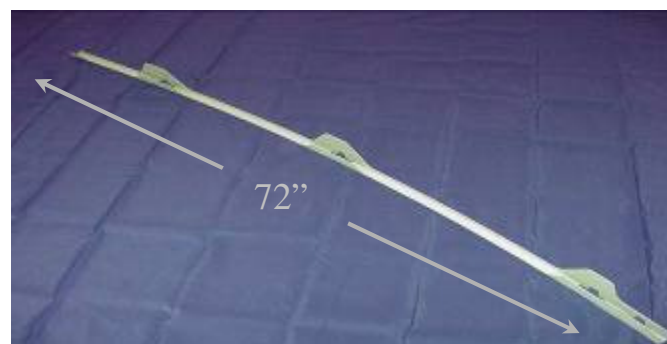
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Steel Frames "Z" & "L"



Extruded Hat Section



Sheet Metal Channel

Cyril Bath V-75 CNC	32' Grip – 75 ton
Cyril Bath V-30 CNC	24' Grip – 30 ton
Hufford A-12	30' Grip – 60 ton
Hufford A-10 (2)	18' Grip Length
Hufford A-7 (2)	25' Grip – 23 ton
Capps Design A-10	16' Grip – 70 ton
Capps Design A-12	20' Grip – 270 ton

# CAPPS

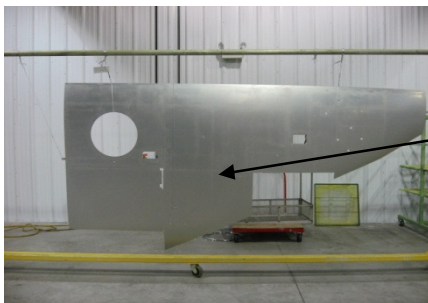
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## Cyril Bath VTL 800 Ton Skin Stretch

- 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.).



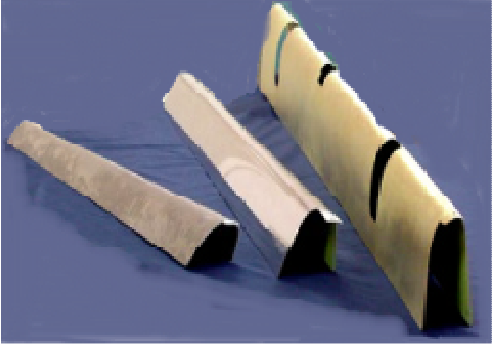
CH-47  
Side Skin



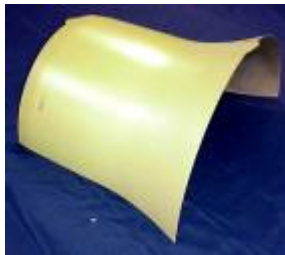
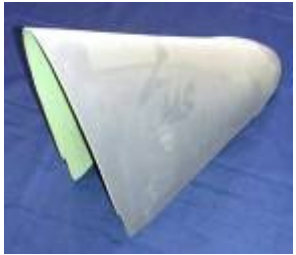
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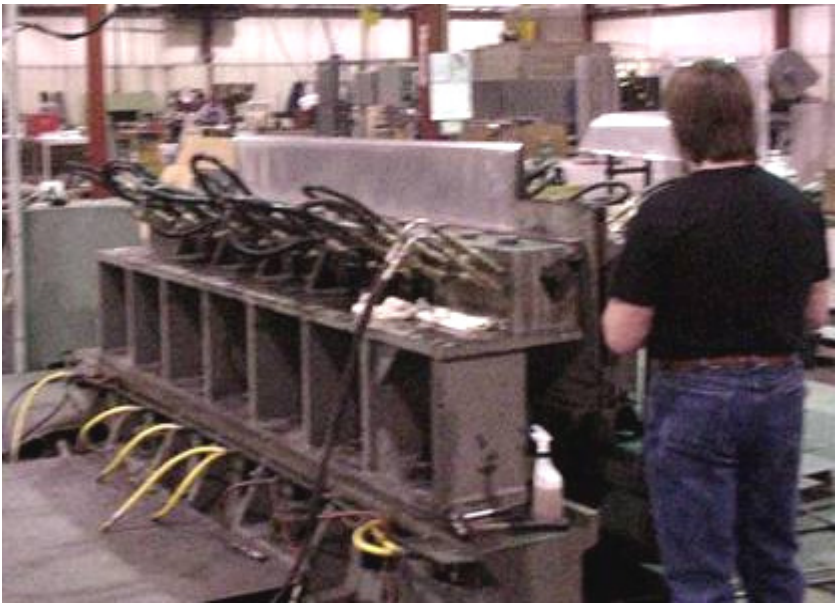
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Leading Edge – Up to 16'

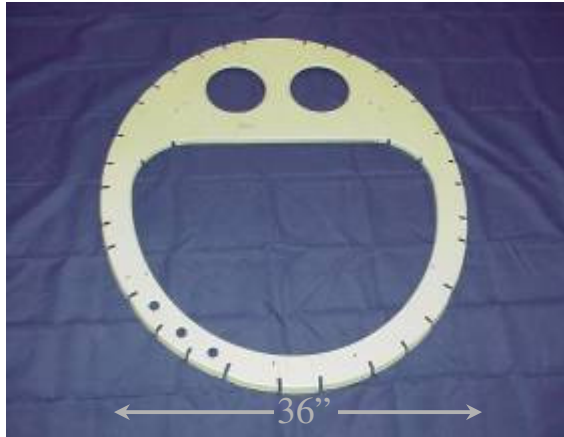


Titanium Skin



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

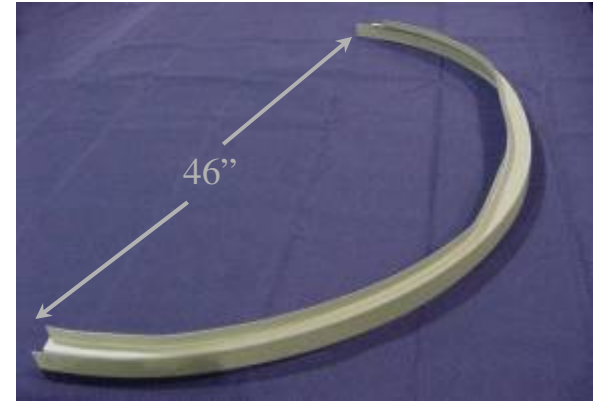




Aluminum Bulkhead



Stang Inner Panel



Sheet Metal "Z" Shaped Frame



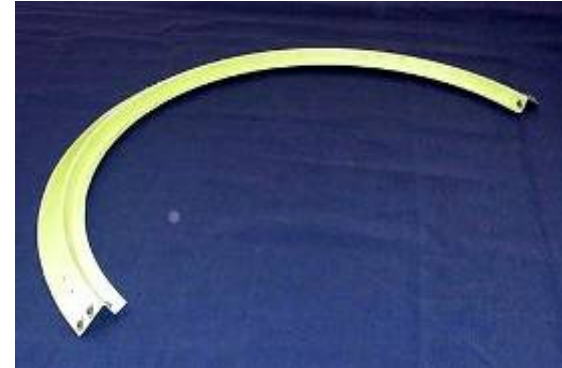
Firewall

HPM	Hydro Press	2500 Ton Bed 4'x8'
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Verson Wheelon 16200R 36-120 Fluid Form Press.  
Tray size: both 36"x120" with bottom depth of 4 1/2" and 6 1/2". Capacity Tonnage – 16,200.  
Pressure Forming – Maximum psi 7,500.



Frames  
 Gulfstream Model G650



Frames  
 Gulfstream Model G650



HAAS VF4	3 Axis CNC MC	Table 50" x 20"
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HAAS VR11	5 Axis CNC MC	Table 120" x 40"
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DMS	5 Axis CNC Router	Table 182" X120" (2) Table 300" X120" (1)
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Stretch Form Block



737 Bulkhead Web

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Viper	5 Axis CNC	Table 40"x80"
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Hydro Block Tooling



Stretch Block Tooling

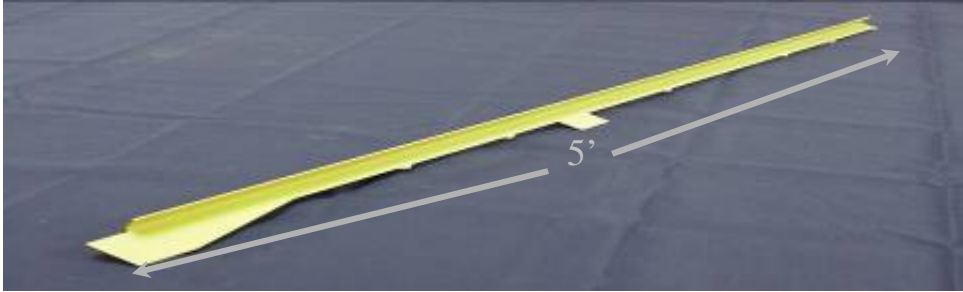


Fitting

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Spar



Stall Fence Hog Out



Fadal 4020	3 Axis CNC	Table x40"y20"z20
Fadal 6030	3 Axis CNC	Table x60"y30"z30
Fadal 8030	3 Axis CNC	Table x80"y30"z30
Fadal 8030	3 Axis CNC	Table x80"y30"z30

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Cincinnati

5 Axis CNC Gantry Mill

Table 104"x180"



## Despatch Drop Bottom Oven.

Load capability is 6' width x 16' length x 12' height with Operating Range up to 1200 deg. F.



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

Heat Treat

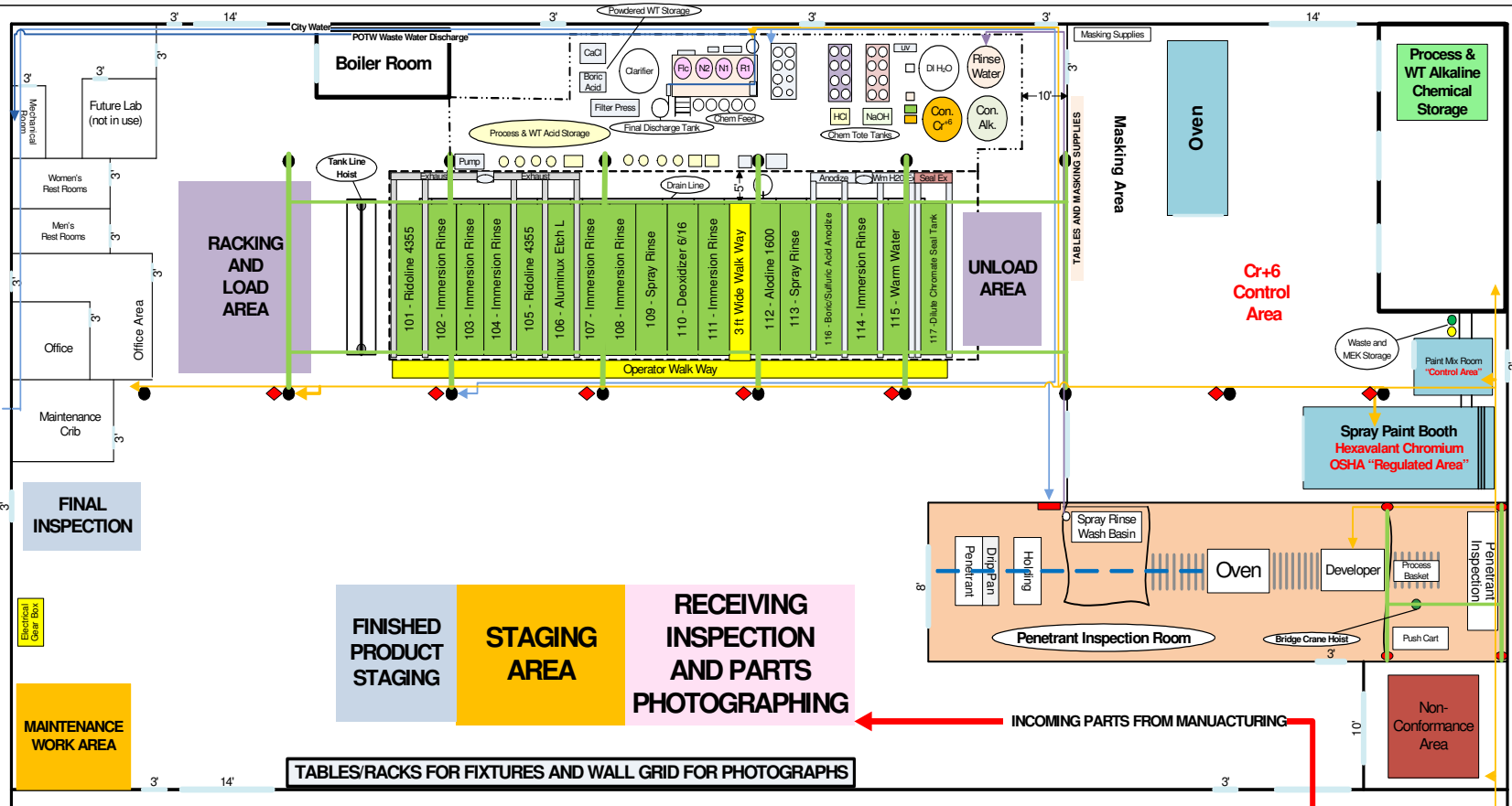


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## Chemical Processing and Paint Facility



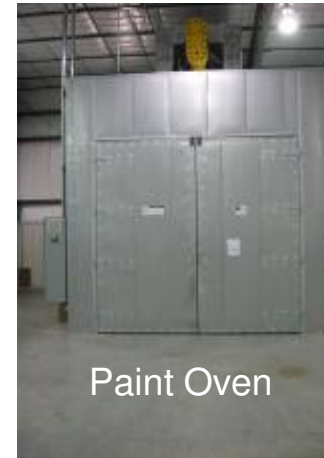
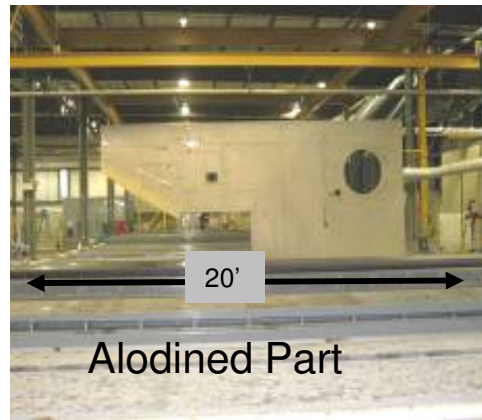
**Wet Line:**  
**Boric Acid Anodize** – BAC 5632  
**Chem Film** – AMS 2473, BAC 5719, CSFS 027, MIL-C-5541, MIL-DTL 5541, RPS 13.53  
**Clean** – BAC 5763, BAC 5765, BAC 5786, BMS 11-6, CSFS 035, CSFS 036, CSFS 037, CSFS 039, CSFS 044, CSFS 046, CSFS 047, CSFS 048, CSFS 049, MIL-P-85891,

**Paint:**  
 BAC 5736, BAC 5793, BAC 5710, BAC 5755, BAC 5882, BS25032, BS22455, BS361, CSFS 084, CSFS 007, MIL-F-18264, MISL-PRF-23377, DHC 5.2, NP5059, RPS 13.75, RPS 13.97, RPS 13.98

**Penetrant:**  
 AMS-2644, ASTM E 1417, BAC 5423, BAC 5652, BS25691, BSS 7039, CSTI 002, MIL-STD-1907, NAS 410

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

## Chemical Processing and Paint Facility



## Capps Manufacturing Campus – 300K Sq. Ft.

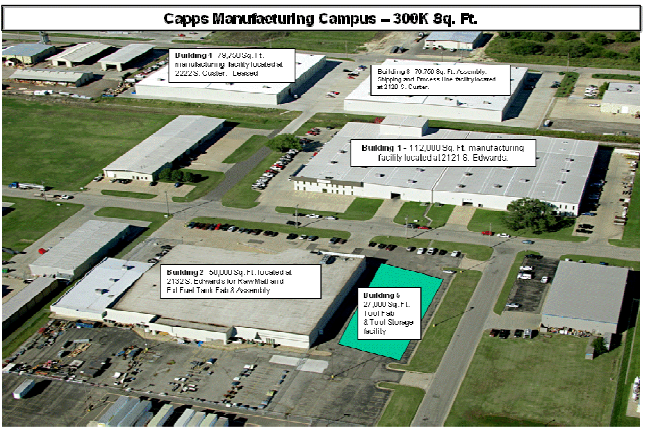
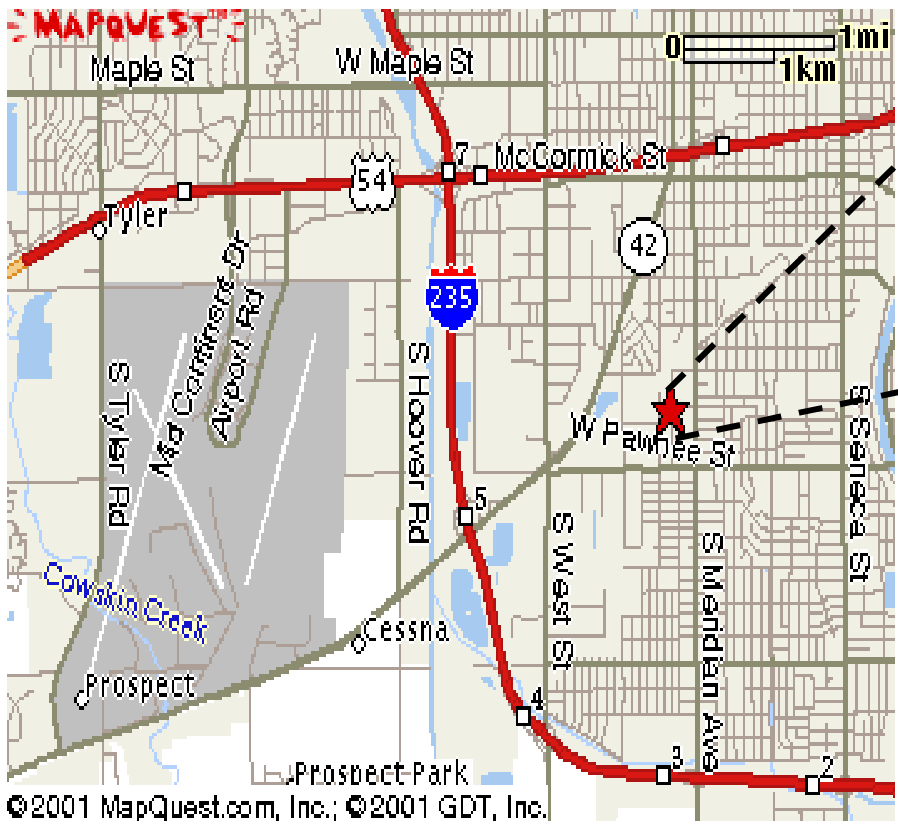


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## Location



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



## **Our Vision and Strategy for the Future**

***To do what ever 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.

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