

Cal Tech Precision, Inc.



ISO 9001:2015 AS9100:2016
Certified Company

MISSION STATEMENT

Cal Tech Precision, Inc., is a comprehensive manufacturing facility with a primary focus on complex aerospace components, with a cutting edge approach to engineering and tool design. This dynamic and highly motivated team is dedicated to continual improvement and a commitment to Quality throughout the organization, allowing the Company to focus on delivery performance which provides the driving force essential to ensure that Cal Tech Precision will consistently exceed customers expectations. This positive team building approach creates a powerful working environment and helps to ensure long term success and security for all.

Company Profile

Cal Tech Precision, Inc. manufactures for a global market, large and small, complex structural aerospace parts, measuring from as small as two inches by two inches, to parts over sixty feet long.

Guy Haarlammert heads the company which was founded in 1998. With exceptional business and production management experience, he has put together a company with an infrastructure of dynamic and knowledgeable industry professionals. This elite team of specialists is one of Cal Tech's greatest inner strengths.

Culled from some of the most eminent aerospace manufacturing companies in Southern California, many members of the management team have forged strong working relationships together over the span of many years, and in some cases in over two decades.

Expansion and diversity requires courage and a willingness to invest. At the outset, CEO and owner Guy Haarlammert forged relationships with international entities outside the industry, and this along with an outstanding infrastructure, has fueled the company's rapid growth to quickly surpass the company's original strategic plan.

Currently the company's business is split between 70% domestic and 30% international. Cal Tech also created a 50% split for commercial business, and 50% for military applications. It is this diversification that has given the company stability in an otherwise potentially volatile marketplace during unsettling economic times.

Outstanding customer relations are used as a benchmark for quality and service. Cal Tech Precision Inc. rates as a 'Gold Supplier' for many of the most notable aerospace corporations with whom the company does business.

Supported by a superb and dedicated management team, Guy Haarlammert is focused on expanding the company's worldwide reach by offering one-stop-shopping backed by a strong network that encompasses: First rate quality control, streamlined approval processes, continued equipment and IT investment and a cutting edge approach to engineering, tool design, programming and machine utilization.

By measuring itself against the best in the market, and continuing a forward-looking strategy, along with a willingness to continue to invest in the best people and equipment, Cal Tech Precision Inc. looks forward to continued growth and lasting success by securing its sustained ability to offer customers quality products promptly delivered.

Cal Tech Precision Inc.

Management Team

Guy William Haarlammert – Owner, President

Guy's career started in 1976 while attending Long Beach State University as a business major, at this time also worked as a machinist programming and operating CNC machines. From 1980 until Cal Tech Precision was founded in 1998 Guy held a variety of management positions at various aerospace and manufacturing companies. During that time he participated in LEAN training at Boeing, Northrop. Cal Tech forged strong relationships with prime aerospace companies that are still in place today.

Jim Haynie – Vice President Marketing & Sales

Jim graduated from Claremont Men's College in 1982 with a BA in Economics and since then has continued his education with certificate programs in Contract Administration and Government Contracting. Previous industry career positions included Operations Planning and Control Analyst and Vice President Contract/Sales with an emphasis on Corporate Marketing and Strategic Planning. He is one of the original partner/owners participating in all aspects of the start-up and expansion.

Omar Khan – Director of Quality

Cal Tech Precision Inc. Management Team – Cont.

Nick Montilepre – Director of Operations and Manufacturing

Nick and Guy both worked at Acromil and they have worked together for almost 15 years. Nick was one of the key team members who helped to rebuild Cal Tech Precision. He is known throughout the aerospace industry from his many positions such as Plant Manager and Director of Manufacturing and with this experience he is able to produce prototype parts from exotic metals.

Ben Sexton – V.P. Finance/Production Control Manager

Ben received a BBA with a concentration in accounting from the University of Miami. Prior to joining Cal Tech Precision in 2010, he was a Vice President at Kerlin Capital Group, a Los Angeles-based investment bank with a focus on mid-market M&A and capital raising for manufacturing companies including the aerospace & defense sector. His expertise includes financial modeling, budgeting and the analysis and implementation of strategic planning initiatives. As Vice President of Finance, Ben is responsible for the general oversight of monthly and annual financial statements as well as review of credit agreements.

Jay Simms – Director of Engineering/Information Technologies

Jay earned his BS Engineering from Missouri State University, St. Louis. He has worked with Guy for over 26 years at various companies. He is an integral member of the Cal Tech Precision management team. Jay has over 31 years of machine shop experience including the purchase, planning and installation of large machines. He has 10 years Catia experience and many noted industry certifications His diverse duties include all information technology functions, programming/engineering, facility and machine maintenance, purchasing and backup CMM Programmer/Operator.

Facility Information

- Established in 1998
- 3 Buildings – 85,000 Sq Ft 1000 Sq Ft Clean Room
- ISO 9001:2015 and AS9100-D Approved
- Employees – 112
- Capabilities
 - 3, 4 & 5 Axis Vertical and Horizontal Milling
 - High Speed Milling to 15,000 RPM
 - Durability, Maintenance & Fracture Critical Components
 - NC Turning
- Materials
 - Castings, Forgings, Extrusion, Bar & Plate
 - Aluminum, Bronze, Stainless, Titanium & High Strength Steel



This Certificate of Registration acknowledges

Cal Tech Precision, Inc.

1830 N. Lemon Street
Anaheim, California 92801
United States

is registered as a Single Site quality management system in conformance with

ISO 9001:2015 and AS9100D

The audit was conducted in accordance with the requirements of SAE AS9104/1:2012-01. PRI RegistrarSM is accredited under the ICOP Scheme.

Scope of Registration:

Manufacture of Large and Small Precision Machined Components and
Assemblies for the Aerospace Industry




Randy Daugharthy
Director of PRI Registrar

Number: 14401
Issued: 18-Aug-2020
Expires: 17-Aug-2023

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Annex

In accordance with ANAB Accreditation Rule 29 the scope of this certificate includes the following additional building as part of this Single Site certification

**Cal Tech Precision, Inc.
1820 N. Lemon Street
Anaheim, California 92801
United States**

**Cal Tech Precision, Inc.
156 E. Freedom Street
Anaheim, California 92801
United States**



Randy Daugharthy
Director of PRI Registrar

Number: 14401
Issued: 18-Aug-2020
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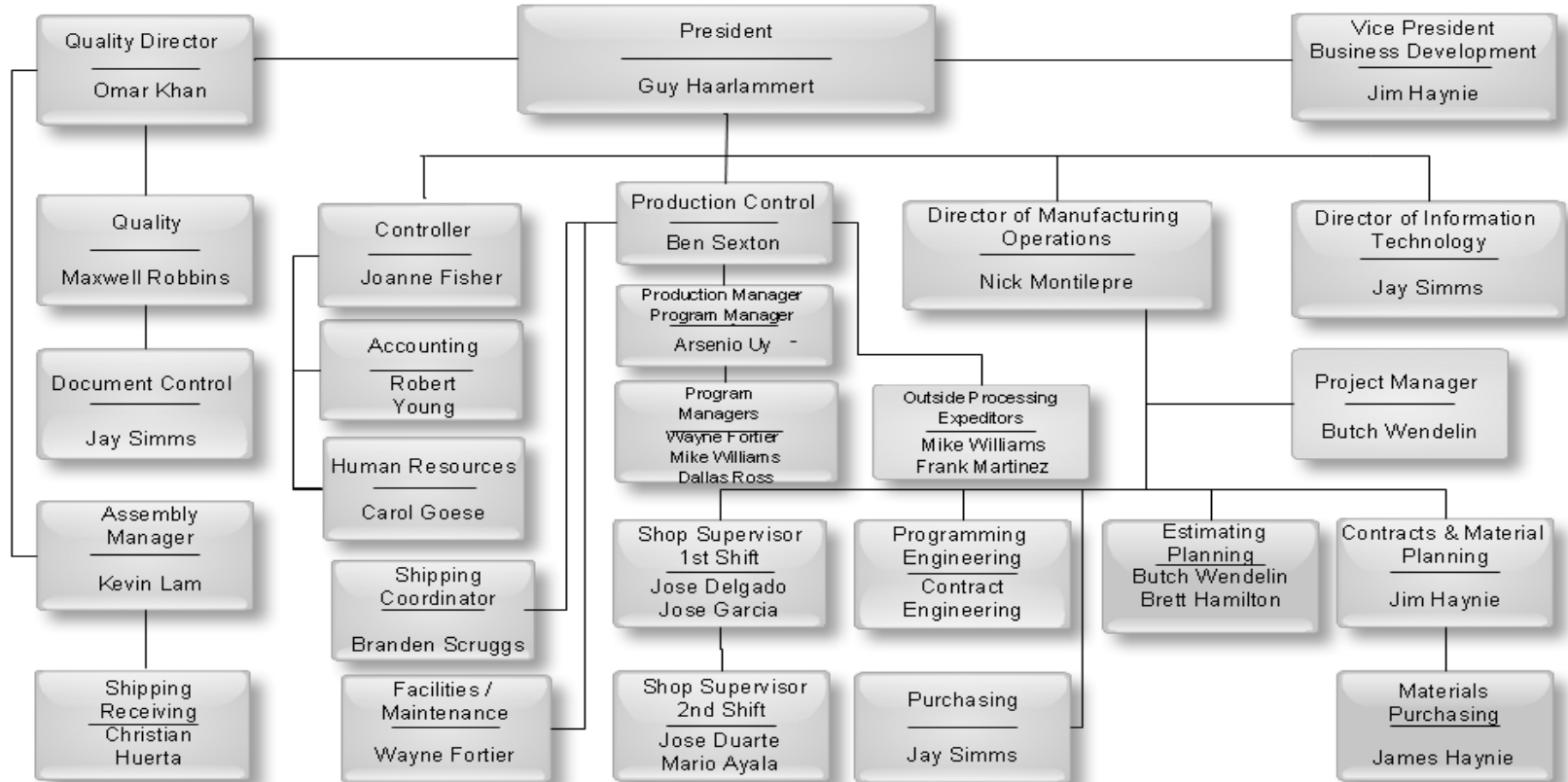
Contact Information

- Guy Haarlammert – President
 - guy@caltechprecision.com
- Nick Montilepre – Director of Operations and Manufacturing
 - nick@caltechprecision.com
- Jim Haynie – Vice President, Marketing & Sales
 - jim@caltechprecision.com
- Omar Khan – Quality Manager
 - okhan[@caltechprecision.com](mailto:okhan@caltechprecision.com)
- Ben Sexton – Production Control
 - bsexton@caltechprecision.com
- Jay Simms – Director of Engineering / Information Technologies
 - jay@caltechprecision.com

Organizational Chart

Appendix A - Organization Chart
Rev June 28 2021

Cal Tech Precision Inc.



Cal Tech Precision, Inc.



Primary Customers

- Aluminum Precision Products
- B/E Aerospace
- Boeing Commercial Aircraft
- Boeing Helicopter
- Cyril Bath
- Ducommun
- Fuji Heavy Industries
- GE
- GKN
- Goodrich
- Korean Air Lines
- Lockheed Martin
- Northrop Grumman
- Raytheon
- ShinMaywa
- Shultz Steel
- Spirit AeroSystems
- Weber Metals

Cal Tech Precision, Inc.

Structural Components

- Caps
- Panels
- Bulkheads
- Fittings
- Longerons
- Spars
- Chords
- Wing Rib
- Thrust Reversers



Materials

- All Series Aluminum
 - Extrusion
 - Castings
 - Forgings
 - Plate
 - 7050
 - 7075
- Stainless Steel
- Titanium





SNK 5 Axis 3 Spindle Gantry



SNK 5 Axis 3 Spindle Gantry

Cal Tech Precision, Inc.



3 Cincinnati 5 Axis 3 Spindle Gantries

9 Spindles Total

78ft and 54ft Table Lengths

Cal Tech Precision, Inc.



**SNK 5-Axis CNC Horizontal
Dual Pallet, 360° Rotary Table
Size: 78.7 in x 60.2 in x 66.9 in.**



CNC CMM Inspection DEA OMEGA 3306

- X 140"
- Y 64"
- Z 80"
- PC-DMIS C++ Version 4.1
- LK-DMIS Version 5.226
- Climate Controlled



1 ROMER ABSOLUTE ARM

- Model RA-7540
- 4.0m Volume
- 7 axis with integrated scanner



Dual LK G-80C CMM's
40" x 38" x 29" w/ Renishaw PH9A motorized heads



(4) SNK PC60V 5-Axis CNC Mills
Single Spindle 5000 RPM W/ 25 Deg. rotation in A/B
Travel – 60" x 26" x 28"



SNK RB-2NM CNC Bridge Mill
6000 RPM spindle W/ Indexable 90 Deg. head
Travel – 169" x 79" x 35"



OKK KCV-600 High Speed
13,000 RPM spindle 50 Taper 30 Tools
Travel – 120" x 25.2" x 25.2"

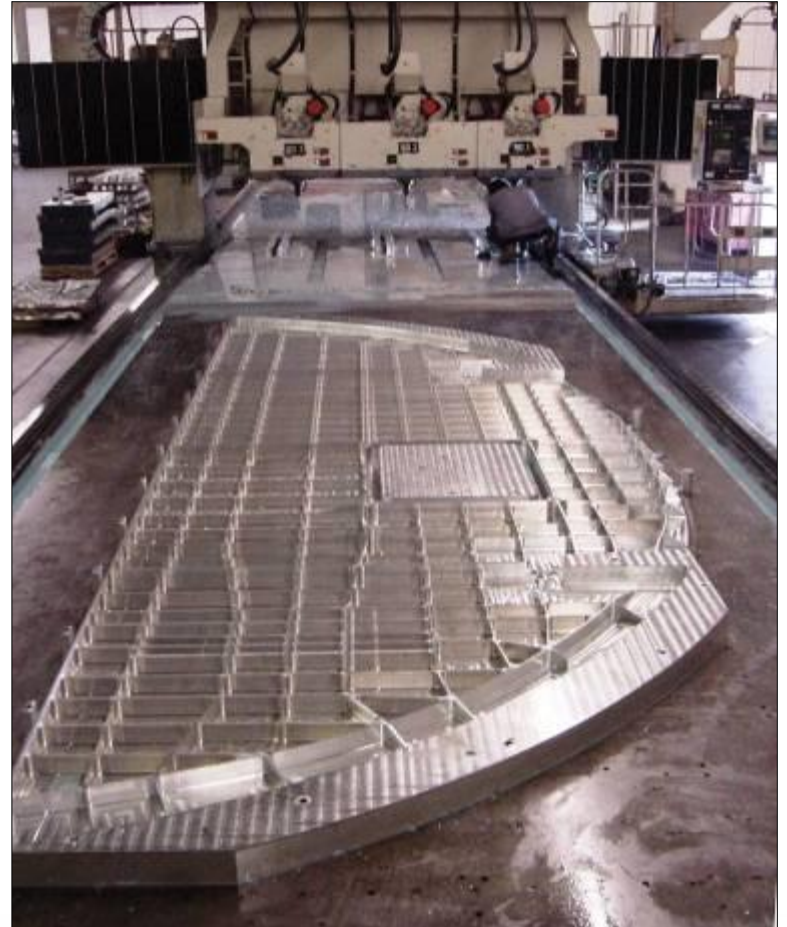


Viper 3 Axis 4 Spindle CNC Mill

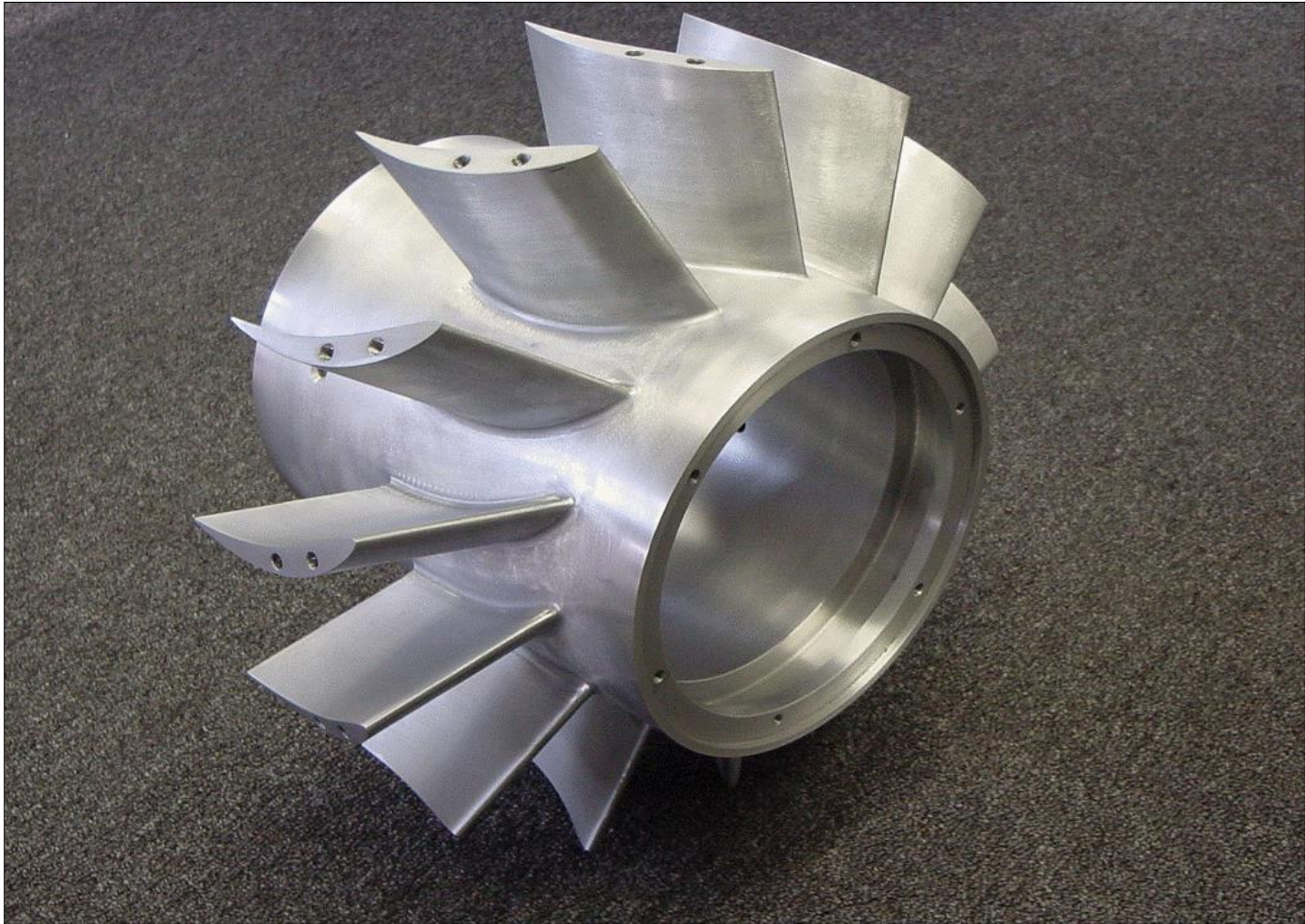


787 Titanium Double Plus Chord - 240"

LCF Monolithic Web 7050 Plate – 4.5" X 91" X 256"



Forced Air Impeller for Smith Aerospace

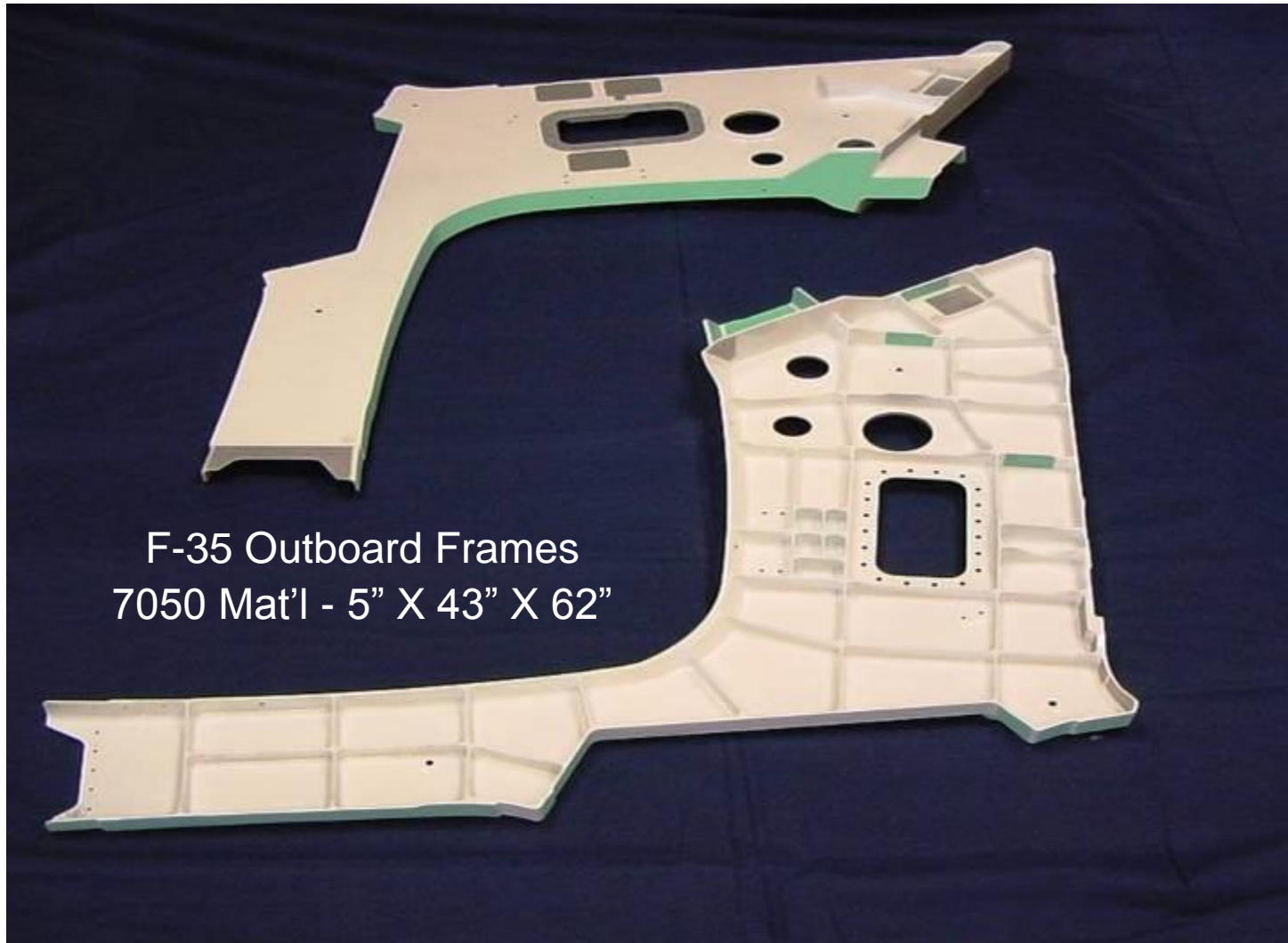




Rudder Summing Lever



F18 – Titanium Stringer



F-35 Outboard Frames
7050 Mat'l - 5" X 43" X 62"



777 Longeron Assemblies

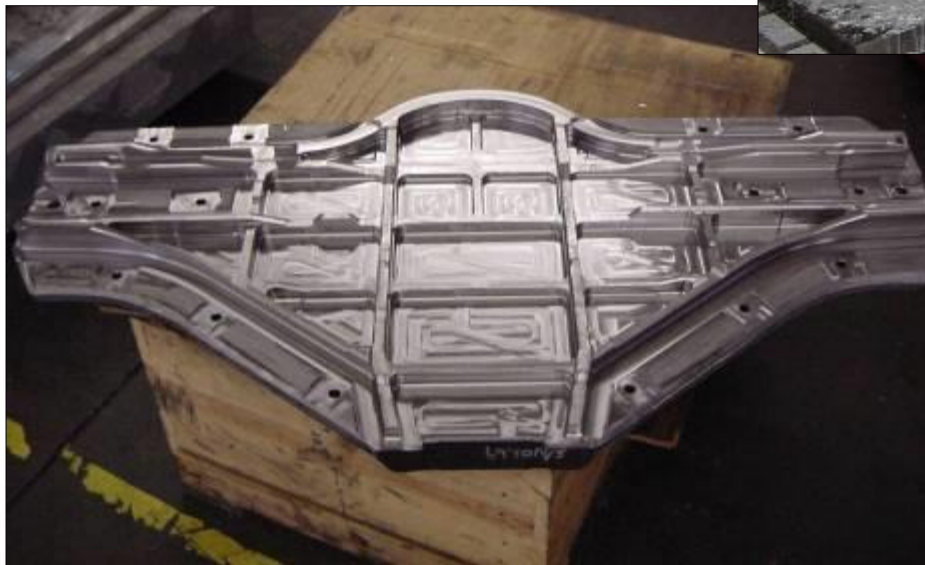


JSF Bulkhead
7050 Aluminum Plate



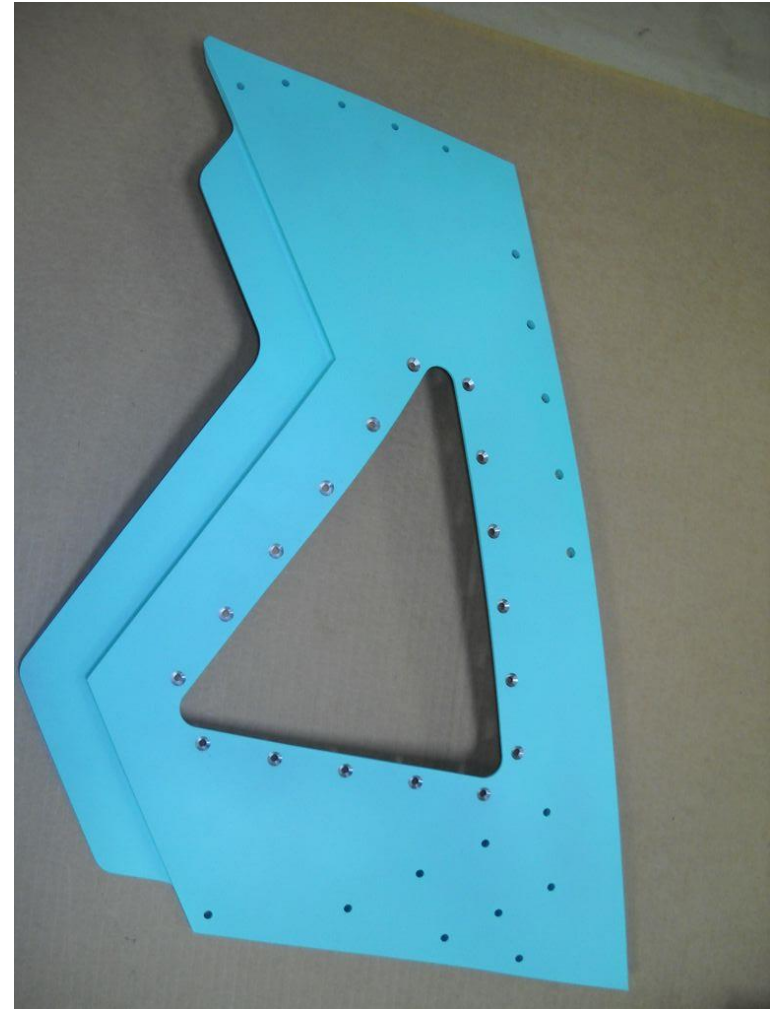
Assembly Tooling
Raytheon Missile Systems

F-18 Titanium Bulkhead

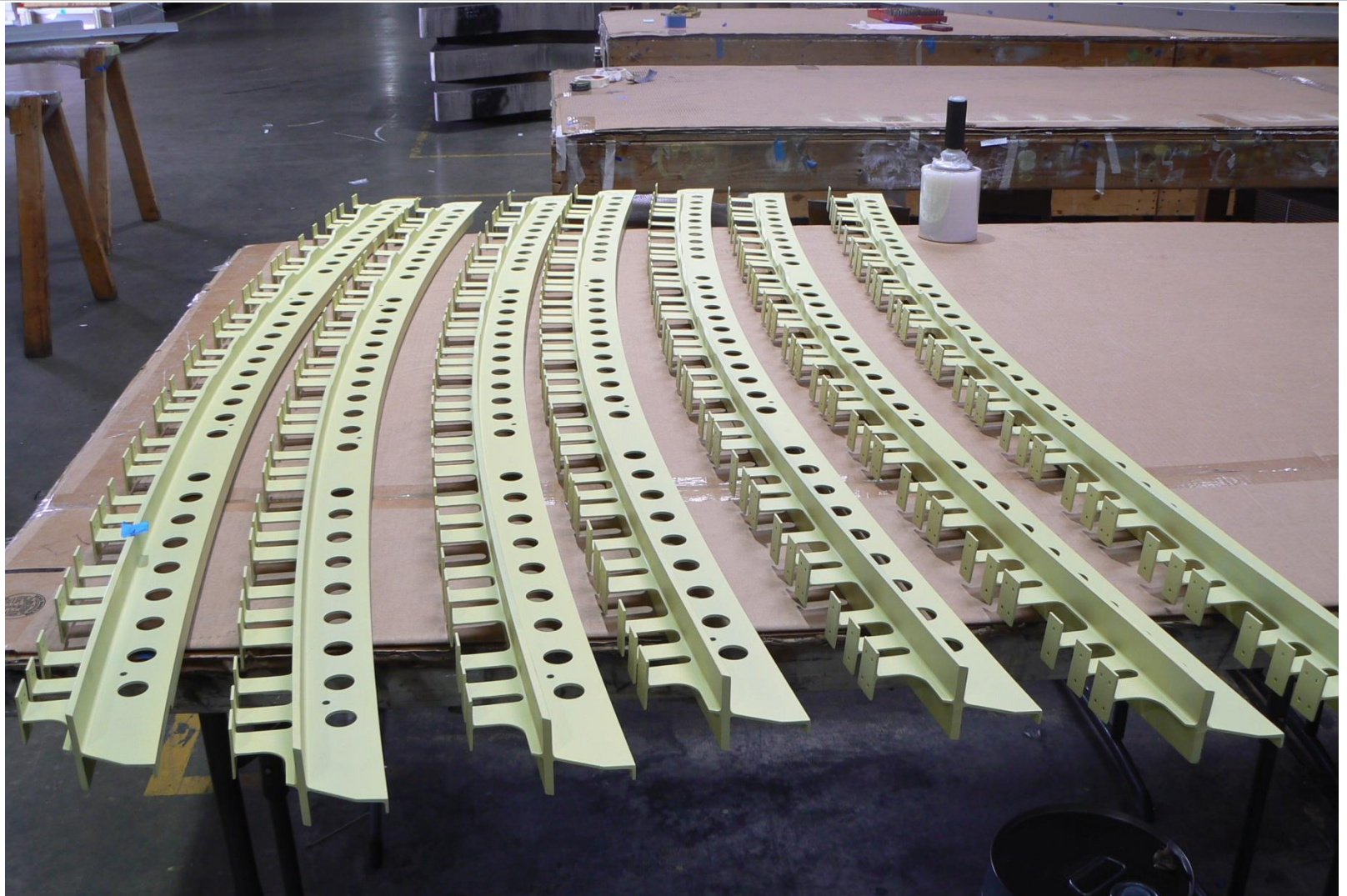


D6-1276 Mechanical Assemblies

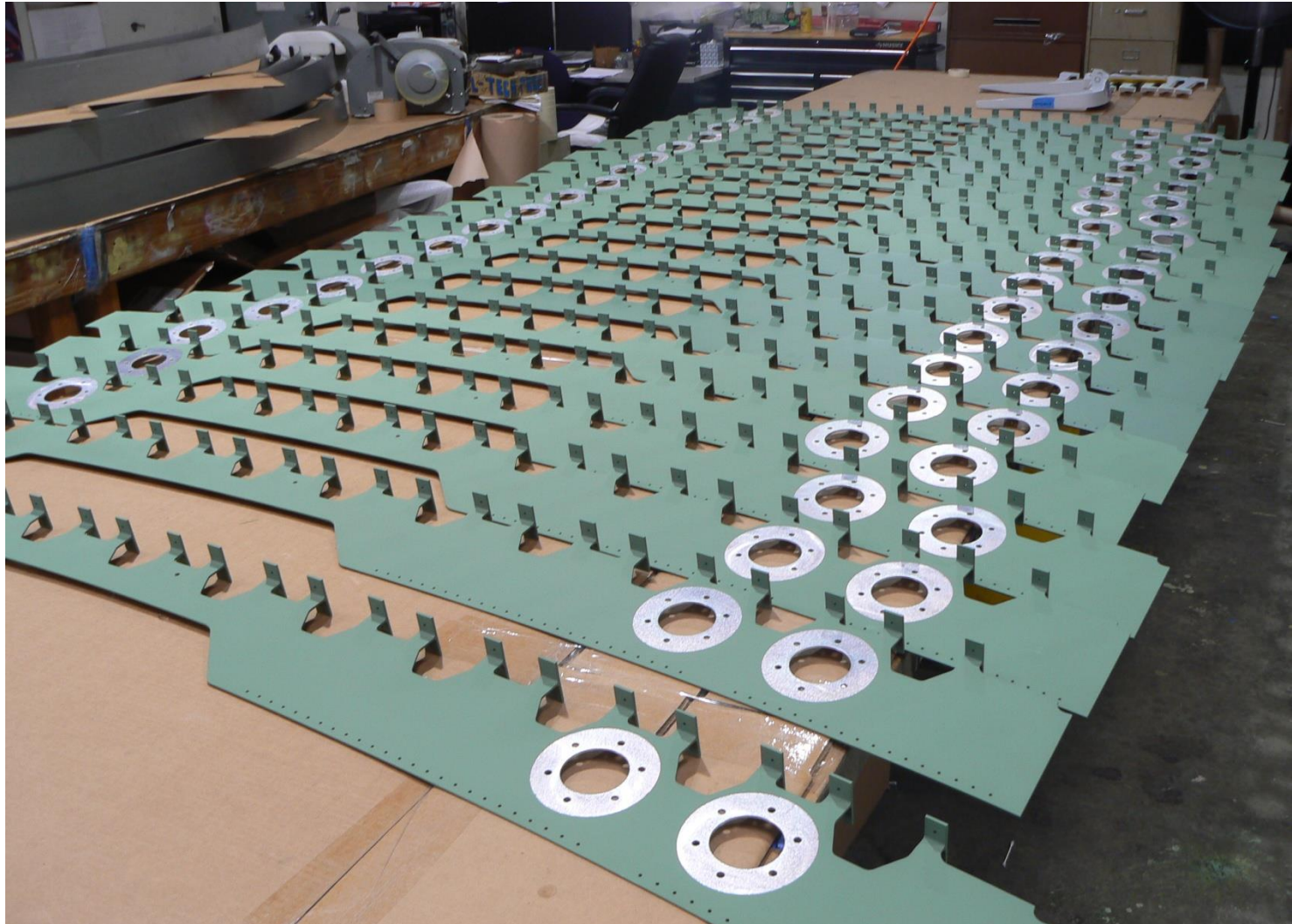




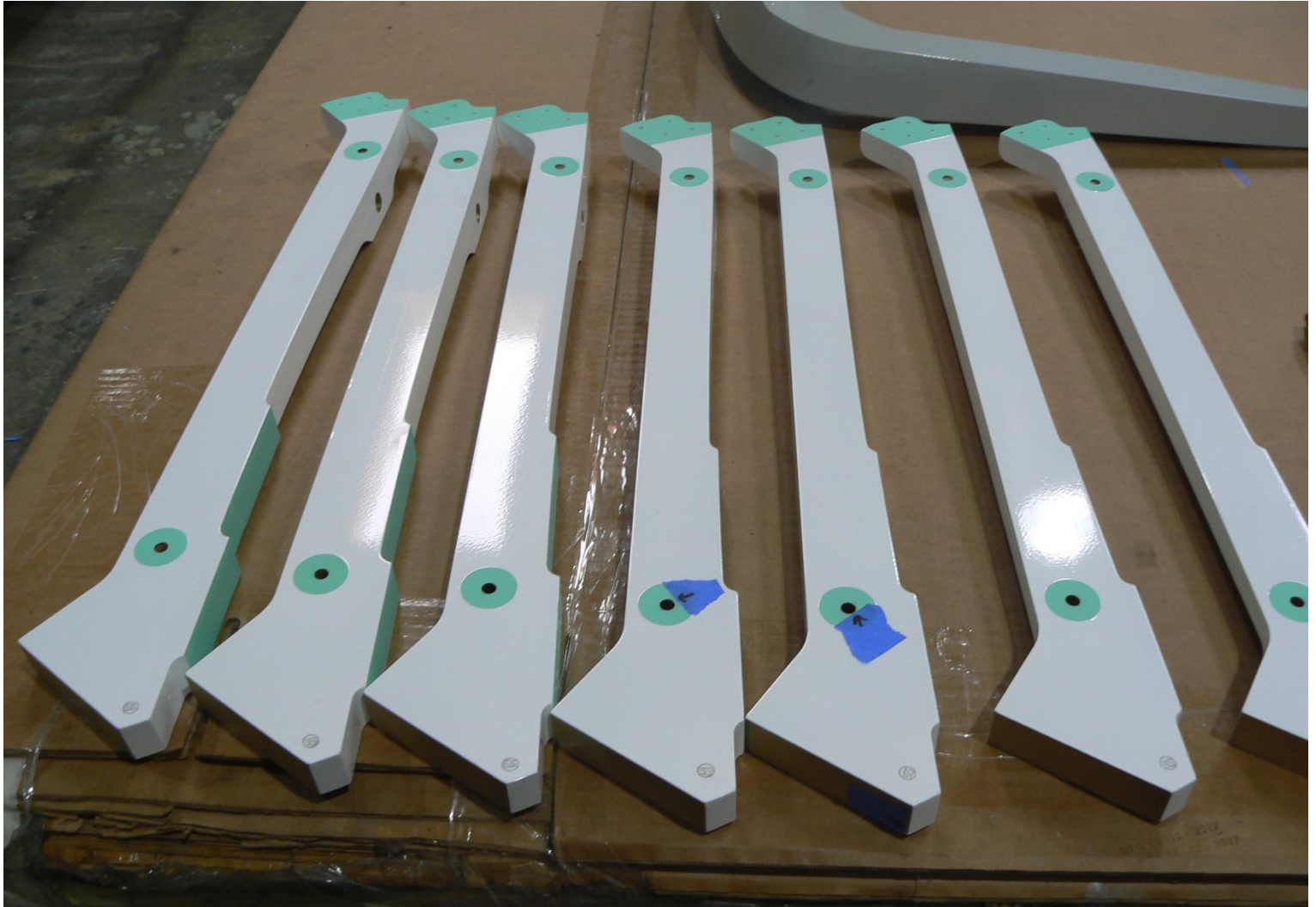
Titanium 5 axis part



C-130 part



C-130 part



F35 part



777 part



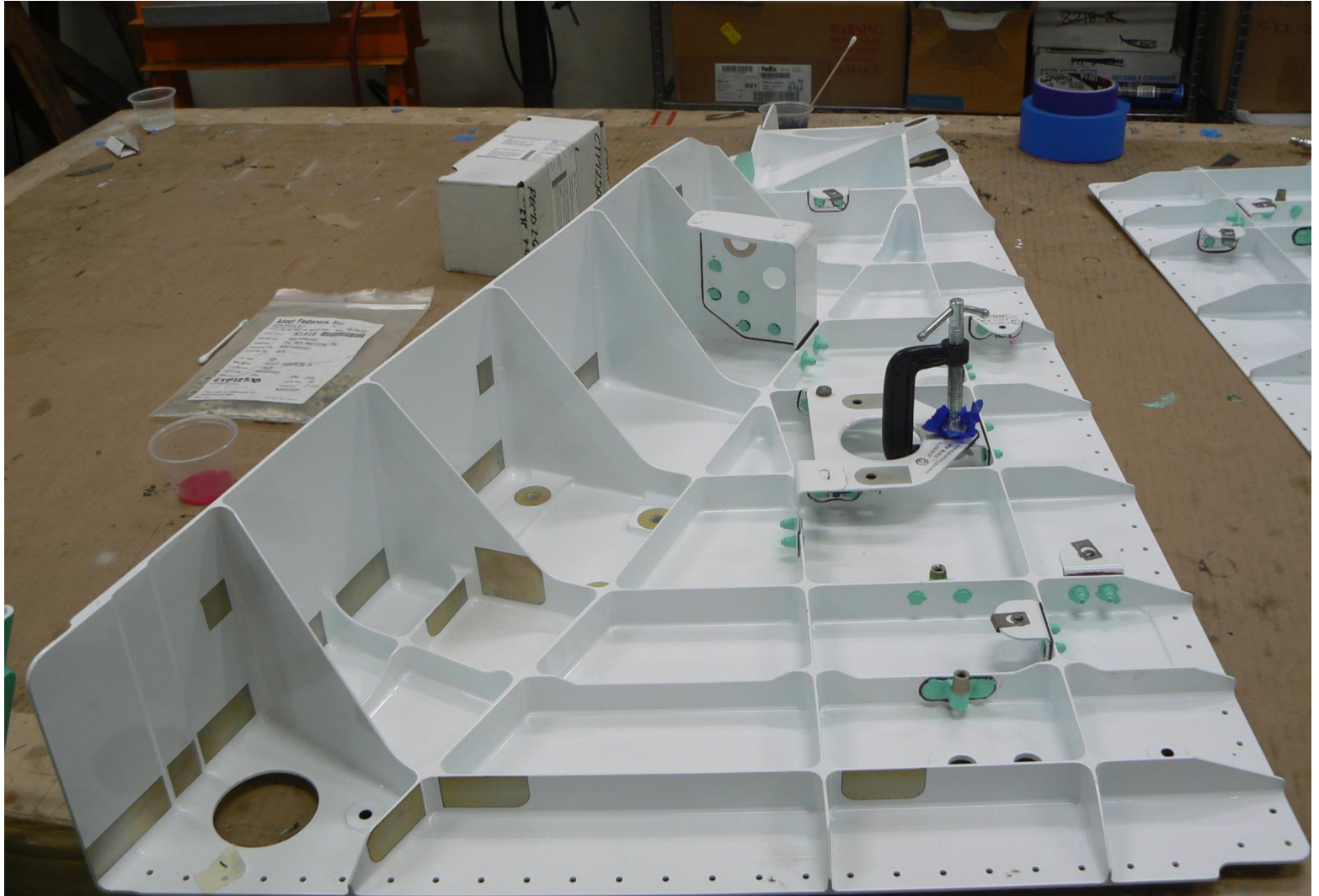
777 parts (Nested)



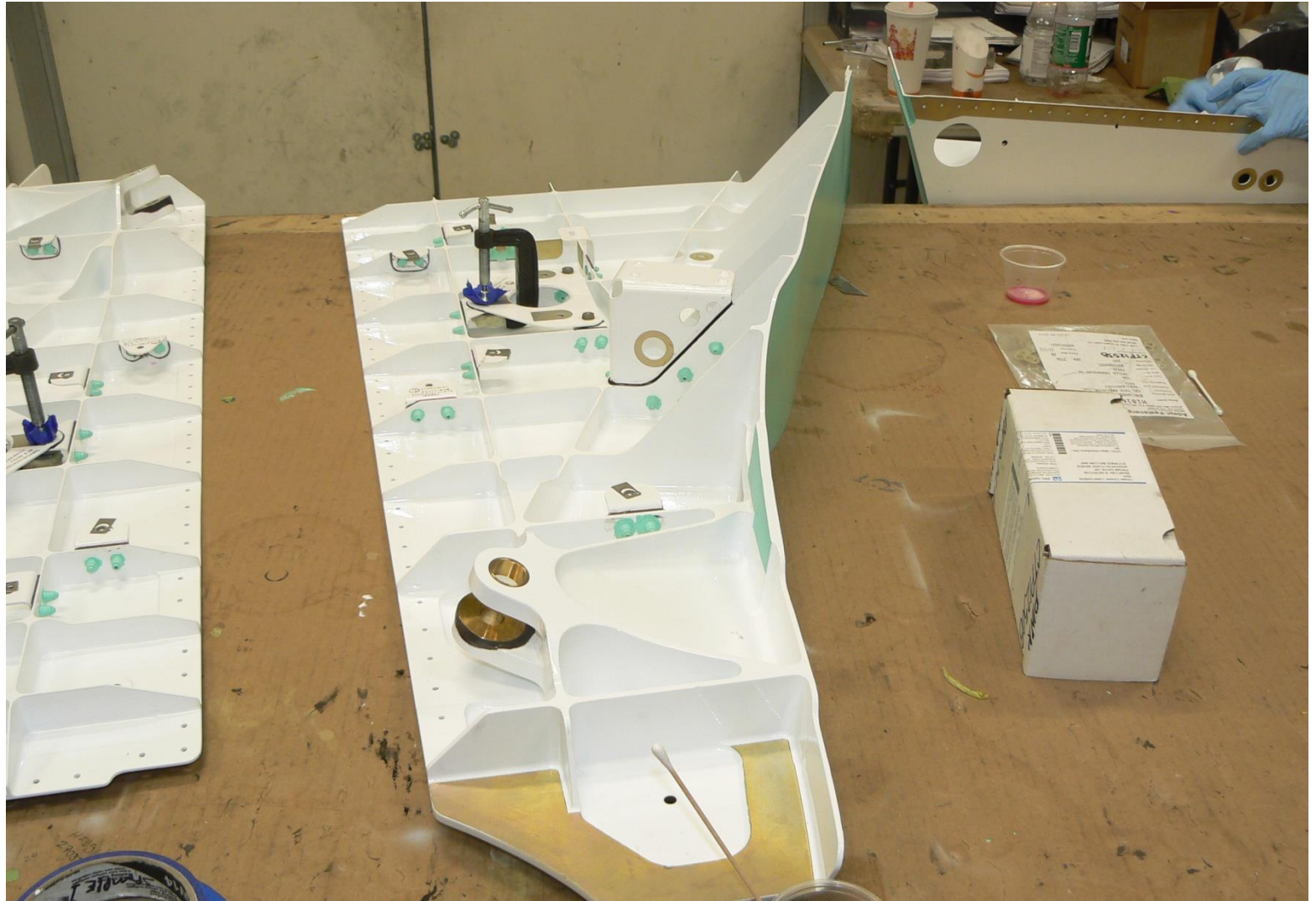
787 part



777 part



F35 Assembly



F35 Assembly

Cal Tech Precision, Inc.



F35 part



Helicopter Blade Root End Fittings



Clean Room Operations

Tomahawk Missile Booster Cover



CMM Inspection Equipment

1 **DEA OMEGA 3306 CMM**

- Size: 114" x 80" x 39"
- Upgraded with Hexagon PC-DMIS software V4.2
- LK DMIS/Cameo 3D-Modeling software package.
- Inspection grade accuracy to 5 microns.

2 **LK MDX-1600 3D CMM**

Size: 40" x 38" x 29"
CMES V 17.1 operating system

1 **Starrett Rapid Check CMM**

- Manual CMM
- Size: 28" x 28" x 18"

1 **Brown and Sharpe CMM**

- Size: 60" x 36" x 36"
- Upgraded with Hexagon PC-DMIS software V3.7

1 **ROMER ABSOLUTE ARM**

- Model RA-7540
- 4.0m Volume
- 7 axis with integrated scanner

5 Axis Gantries

(2) SNK PM-6A 5-Axis CNC Gantry

3 Spindle 5-Axis Machining Center 30 HP

6 spindles total 5000 RPM

40" Centers, 30 Deg. rotation in A/B.

Size: 60 ft (Combined) x 12 ft x 40 in

(2) Cincinatti 5-Axis CNC Gantry

3 Spindle 5-Axis Machining Center 30 HP,

3600 RPM Spindles. 40" Centers,

25 Deg. rotation in A/B.

Size: 78ft total x 13.6 ft x 30 in

(2) Cincinatti 5-Axis CNC Gantry

3 Spindle 5-Axis Machining Center 30 HP,

3600 RPM Spindles. 40" Centers,

20 Deg. rotation in A/B.

Size: 54ft x 13.6 ft x 22 in (variable)

5 Axis Mills

SNK CMV-150 5-Axis CNC Horizontal

5-Axis Machining Center, 30 HP, Dual Pallet, Tilting Spindlehead (A) and full rotary table (C), 5000 RPM spindle.

Size: 78.7 in x 60.2 in x 66.9 in.

(8) SNK PC60V 5-Axis CNC Vertical

Single 5000 RPM Spindle with 25 Deg. rotation in A/B, 20 HP

Size: 60 in x 26 in x 18 in

(2) Viper VMC-2100 5-Axis CNC Mill

8000 RPM Spindle 20 Station ATC

A & B Axis Travels +/- 35 degrees

Size: 81 in x 40 in x 35.4 in

Cincinatti 20V 5-Axis CNC Mill

3500 RPM Spindle 20 HP

A & B Axis Travels +/- 25 degrees

Size: 80.0 in x 30.0 in x 24.0 in

OKK VC-X500 5-Axis CNC Mill

3500 RPM Spindle 30 HP

Tilt +20/-30 degrees Rotation 360 Degrees

Size: 27.5 in x 33.5 in x 24.0 in

3 & 4 Axis Machine Centers

- **Mori Seki MH-40 4-Axis Horiz. CNC**

10 HP, Dual pallet, Full rotary table (C)
3000 RPM spindle.

Size: 24.0 in x 15.0 in x 25.0 in

- **(2) Okuma MC3VA 3-Axis Vertical CNC**

Single 3000 RPM Spindle, 10 HP

Size: 20 in x 15 in x 15 in

- **Wasino WMC-22 3-Axis Vertical CNC**

Single 3000 RPM Spindle, 10 HP

Size: 20 in x 15 in x 15 in

- **OKK VM940R 4-Axis Vertical CNC**

Single 12,000 RPM Spindle, 20 HP

Size: 43 in x 22 in x 25 in

- **(4) Ooya RE-1MVL 3-Axis Vertical CNC**

Single 3000 RPM Spindle, 10 HP

Size: 80 in x 24 in x 24 in

- **OKK VC-X500 4-Axis Vertical CNC**

• Single 12,000 RPM Spindle, 10 HP

Size: 40 in x 24 in x 24 in

- **SNK 120V Multi-Spindle Vertical CNC**

Three spindle, 5000 RPM, 30 Hp, 30 inches
Spindle centers

Size: 120in x 50in x 24in

- **SNK RB-2NM Vertical CNC Bridge**

6000 RPM spindle, Secondary index able
90 Deg. head attachment, 30 HP

Size: 169in x 79in x 35in

- **Cincinnati 3-Axis Vertical CNC**

3000 RPM 3 Spindle, 50 Hp,
24" spindle spacing

Size: 120 in x 40 in x 24 in

- **Viper VMC-3100TS 3-Axis CNC Mill**

4500 RPM 4 Spindle, 30 Hp,
30" Spindle Spacing

Size: 120 in x 40 in x 49 in

- **OKK KCV-600 3-Axis High Speed**

13,000 RPM, 30 Hp, 50 Taper 30 Tools

Size: 120 in x 25.2 in x 25.2 in

3 & 4 Axis Machine Centers - Continued

(2) Matsura Vertical Twin Spindle CNC

Twin-Spindle 5000 RPM, 32 inch Spindle centers, 15 HP

Size: 72in x 32in x 30in

(2) Matsura Vertical Twin Spindle CNC

Twin-Spindle 5000 RPM, 20 inch Spindle centers, 15 HP

Size: 41in x 20in x 22in

SNK PC-65V 3-Axis Vertical CNC

Single 5000 RPM Spindle, 15 HP

Size: 60in x 26in x 18in

SNK PC-70V 3-Axis Vertical CNC

Single 3000 RPM Spindle, 15 HP,
Dual Pallet

Size: 63in x 34in x 26in

Makino MC-65 Single Spindle

Twin Pallet Horizontal CNC

4000 RPM, 15 HP

Size: 25in x 20in x 19in

Niigata 4-Axis Horizontal CNC

Single 5000 RPM Spindle, 40 HP,
10 Pallets, 155 tools

Pallet Size: 31.5in x 31.5in

Axis Travel 49" x 48" x 36"

Full contouring B axis.

Viper HV-100S 3-Axis CNC Mill

Single 4500 RPM Spindle, 30 Hp,

Size: 122 in x 41 in x 49 in

Hitachi Seki HC-400 4-Axis Horiz

10 HP, Dual pallet, Full rotary table (C)
3000 RPM spindle.

Size: 24.0 in x 15.0 in x 25.0 in

Amura Seiki 3-Axis Vertical CNC

Single 3000 RPM Spindle, 15 HP

Size: 40 in x 25 in x 23 in

OKK VM76R 4-Axis Vertical CNC

Single 12000 RPM Spindle, 15 HP

Size: 30 in x 25 in x 23 in

Mori Seiki MV-65 3-Axis Vertical CNC

Single 3000 RPM Spindle, 10 HP

Size: 60 in x 25 in x 25 in

Mori Seiki MV-80 3-Axis Vertical CNC

Single 3000 RPM Spindle, 15 HP

Size: 80 in x 32 in x 32 in

(2) Ooya RE-1MVL 3-Axis Vertical CNC

Single 3000 RPM Spindle, 10 HP

Size: 60 in x 24 in x 24 in

Cincinatti 3-Axis Gantry

3 Spindle Machining Center 30 HP Ea,
3600 RPM Spindles. 30" Centers,

Size: 40 Ft x 78 in x 28 in

Cincinatti 3-Axis Bridge

3 Spindle Machining Center 30 HP Ea,
3600 RPM Spindles. 24" Centers,

Size: 144 in x 58 in x 28 in

3 Axis High Speed Machining Centers

• OKK KCV-600 3-Axis High Speed

13,000 RPM, 30 Hp, 50 Taper 30 Tools

Size: 120 in x 25.2 in x 25.2 in

Viper VMC-3032 3-Axis CNC Mill

Single 10,00 RPM Spindle, 35 Hp,

Size: 122 in x 32 in x 36 in

NC Turning

Mori-Seki Model SL-4 CNC Lathe

10" Auto chuck, Fanuc 6T Control
Size: 14.0 in X Axis, 23.0 in Z Axis

N C Programming Systems

Catia Ver 5-6r2014 Modeling & Mfg
NCL Ver 8.419 Modeling & Mfg
MasterCam Ver 9.0 Modeling & Mfg
NC Verify Verify 6.1 Prog. Verification

DNC Software

Predator Ver 3.1.0.39 Shop DNC