



Davis Aircraft Products Co., Inc.

**Introduction  
to  
Davis Aircraft Products Co. Inc.**



Davis Aircraft Products Co., Inc.

## Facilities

- 2 Locations totaling over 55,000 sq.ft.
  - Bohemia, NY Headquarters
  - FAA Repair Station & Light Manufacturing



Davis Aircraft Products Co., Inc.

## The Company

- Established in 1951
- 3 Generations in the Aircraft Industry
- 160 Employees
- 1000's of stock Assemblies
- International Network of Sales Associates
- Currently 70% Military- 30%Commercial Sales



Davis Aircraft Products Co., Inc.

## About Us

Our manufacturing facilities are located in New York. We offer a broad range of aviation related assemblies. An engineering-based company, Davis develops customized solutions to meet demanding commercial and military requirements. Davis has been designing and manufacturing safety tie-down and cargo control products since the 1950s and is an accepted standard in the aviation industry. In addition to providing products for standard applications, "rapid" custom design and engineering solutions are also available.



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## About Us Cont.

Some of the company's specialized engineered products include, an energy attenuating cargo tiedown system designed for use in the Boeing-Bell V-22 Osprey. This system incorporates attenuator elements which absorb crash energy by means of permanent deformation, and thus protect aircraft structure & cargo from the crash loads. The Advanced Cargo Tiedown System (ACATS) uses an innovative aramid webbing material which combines the high strength (36,000 lb, 14,170 kg) and low elongation of chain systems, that reduces weight and eases handling of strap systems. We offer several helicopter blade folding kits for air transport.



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## About Us Cont.

Davis' hardware products include chain tensioners, buckles, hooks, rings, studs, floor plates, web & net assemblies, double wall fuel lines, ballistic, thermal & acoustic blankets. Seat belts and harness' are certified to TSO-C22 and TSO-C114 and include 4 and 5 point rotary buckles and 16g inertia reel systems. Customized plating and logos are available together with a choice of over 100 web colors.



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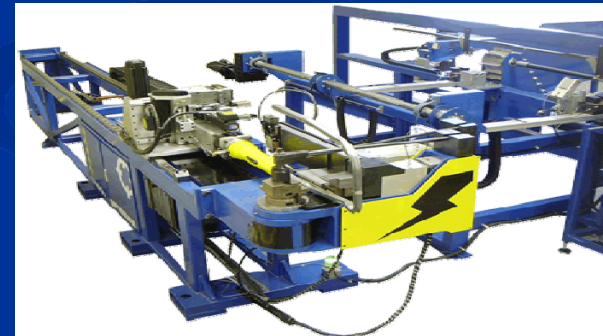
# Manufacturing and Production Capabilities



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## Manufacturing Methods

- CNC Machining
- Water Jet Cutting
- Stamping
- Light-Medium Assembly
- CNC Sewing
- Min/Max & Kitting
- CNC Tube Bending & Fabrication

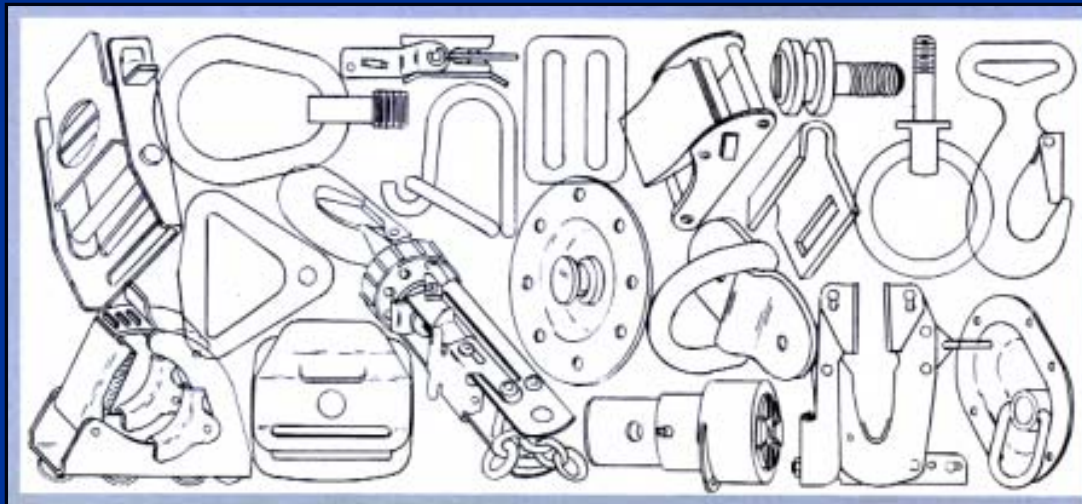




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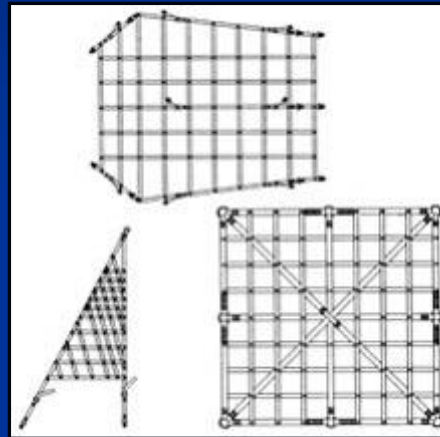
## Some Of Our Quality Manufactured Parts



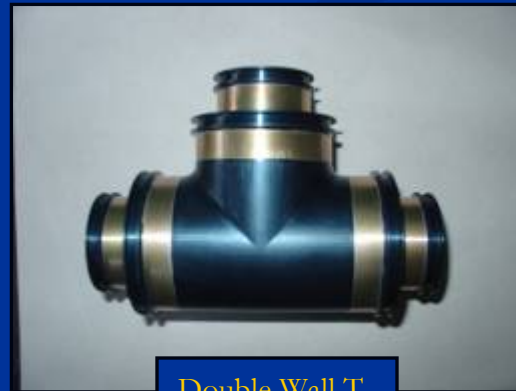
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## More Of Our Quality Manufactured Parts



Machined From Solid Billet



Double Wall T

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## Slings and Cargo Nets





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## Seat Belts and Harnesses

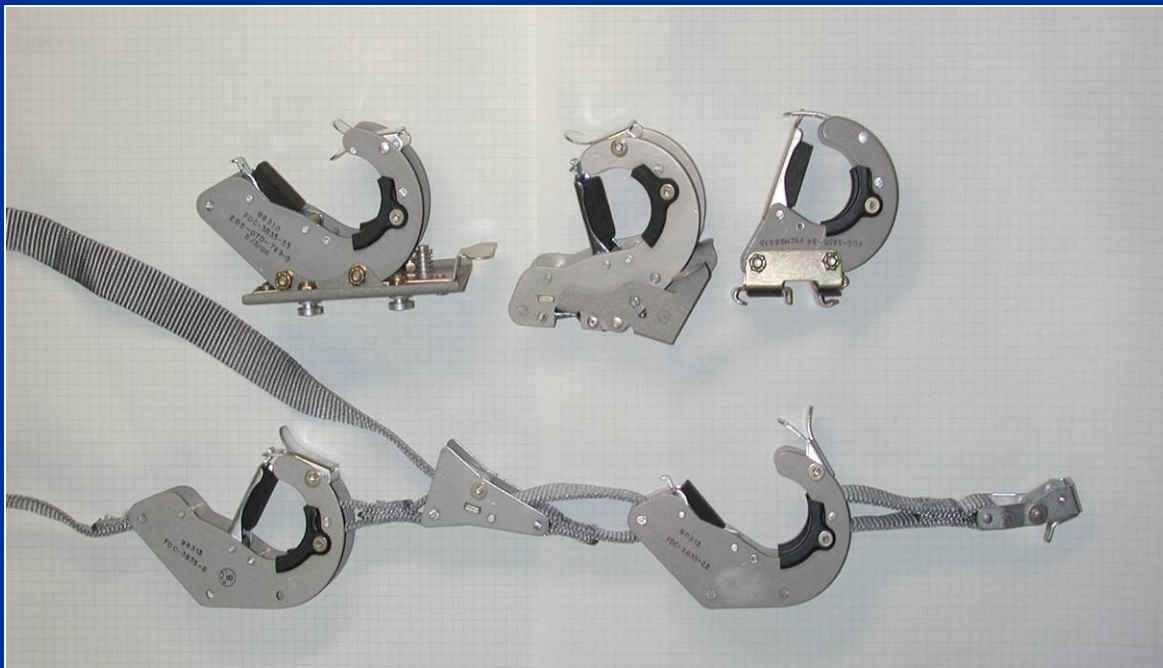


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# Litter Brackets and Litter Strap Assemblies

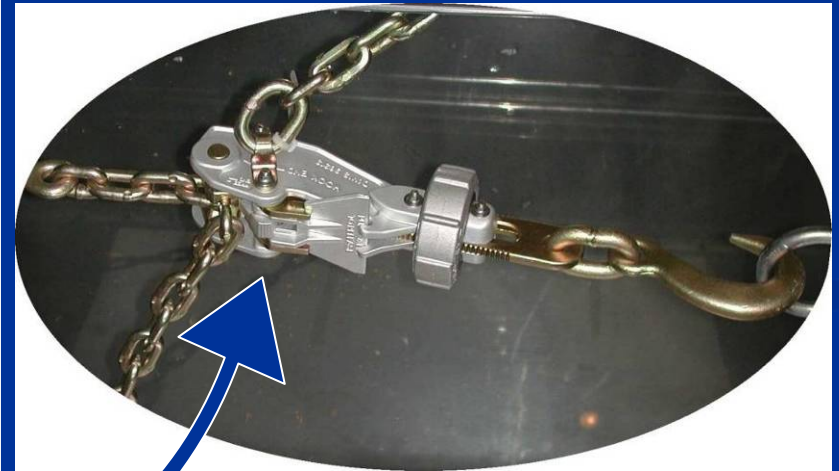


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## Strap Assemblies and Tie Downs



**Chain Gear: CGU-4/E • MB-1 • CGU-3/E • MB-2 • TD-1B**

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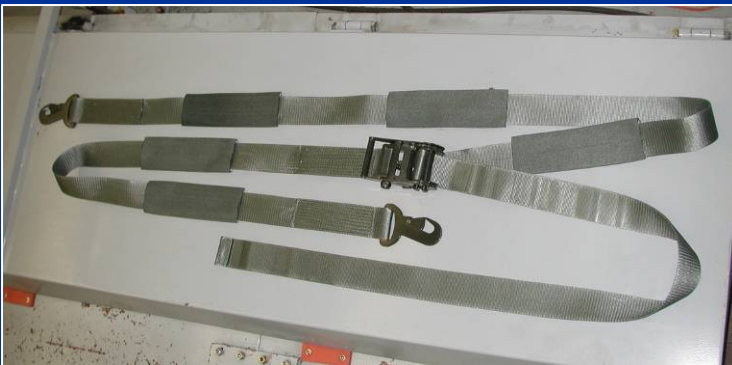
## Strap Assemblies and Tie Downs





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## Strap Assemblies and Tie Downs



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# Product Overview

## Blade Fold Kits

- AH-64 APACHE
- SH-60 SEAHAWK
- CH-148 (S-92) Cyclone
- UH-60 BLACKHAWK
- S-76 SPIRIT
- EH-101 MERLIN
- CH-47 CHINOOK
- MI-17

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## Helicopter Rotor Blade Restraints



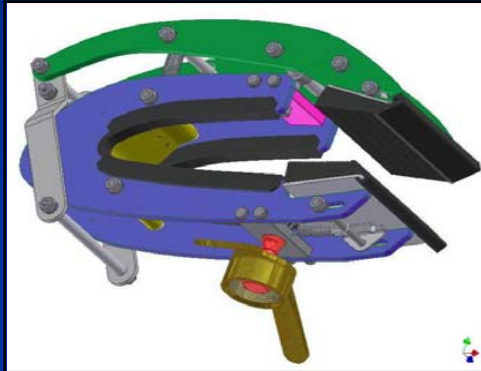
**Blade Fold Kits**

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## Helicopter Rotor Blade Restraints



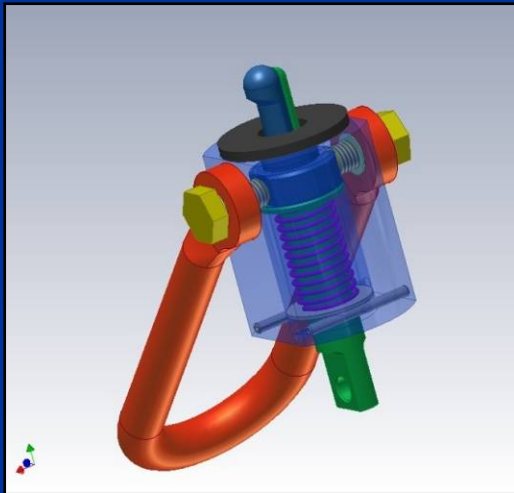
**Blade Clamp Assemblies**

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## Helicopter Rotor Blade Restraints



**CH-47 Main Rotor Blade Interlock**

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## Helicopter Rotor Blade Restraints



**S-76 Main Rotor Blade Fold Kit**

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## Helicopter Rotor Blade Restraints



**UH60A-L and UH60M Blade Fold Kit**

October 2010

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## Helicopter Rotor Blade Restraints



**CH148 Main Rotor Blade Fold Kit**

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## Helicopter Rotor Blade Restraints



**CH-148 Lifting Clamp**

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## Helicopter Rotor Blade Restraints



**SH-60 Main Rotor Blade Fold Kit**

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## Helicopter Rotor Blade Restraints



**EH101 Blade Restraint Fittings**

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## Helicopter Rotor Blade Restraints



**S-92 Blade Fold Trolley**

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## AH-64 Main Rotor Blade Fold Kit

- RAPID DEPLOYMENT
- SEVEN PERSON TEAM
- BLADE UNFOLD 45 MINUTES MAX TIME LIMIT – DEMONSTRATED AT 23 MINUTES
- COLD WEATHER GEAR
- MOPPS GEAR LEVEL 4
- FLIGHT TEST NOT REQUIRED

**Facts**

## AH-64 Main Rotor Blade Fold Kit

- FOLD/UNFOLD IN 40 MPH WIND
- PARK IN 70 MPH WIND
- SNOW LOADING 20 LB/FT<sup>2</sup>
- NO MODIFICATIONS TO AIRCRAFT

**Facts Cont.**

## AH-64 Main Rotor Blade Fold Kit

- AIR TRANSPORTABILITY (C-5 SIX-PACK)

### LOADS:

- 2.0G VERTICAL UP
- 4.5G VERTICAL DOWN
- 3.0G FORWARD
- 1.5G AFT
- 1.5G LATERAL

**System Requirements**

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## AH-64 Main Rotor Blade Fold Kit



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## AH-64 Main Rotor Blade Fold Kit



Tail Rack Assemblies

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## AH-64 Main Rotor Blade Fold Kit



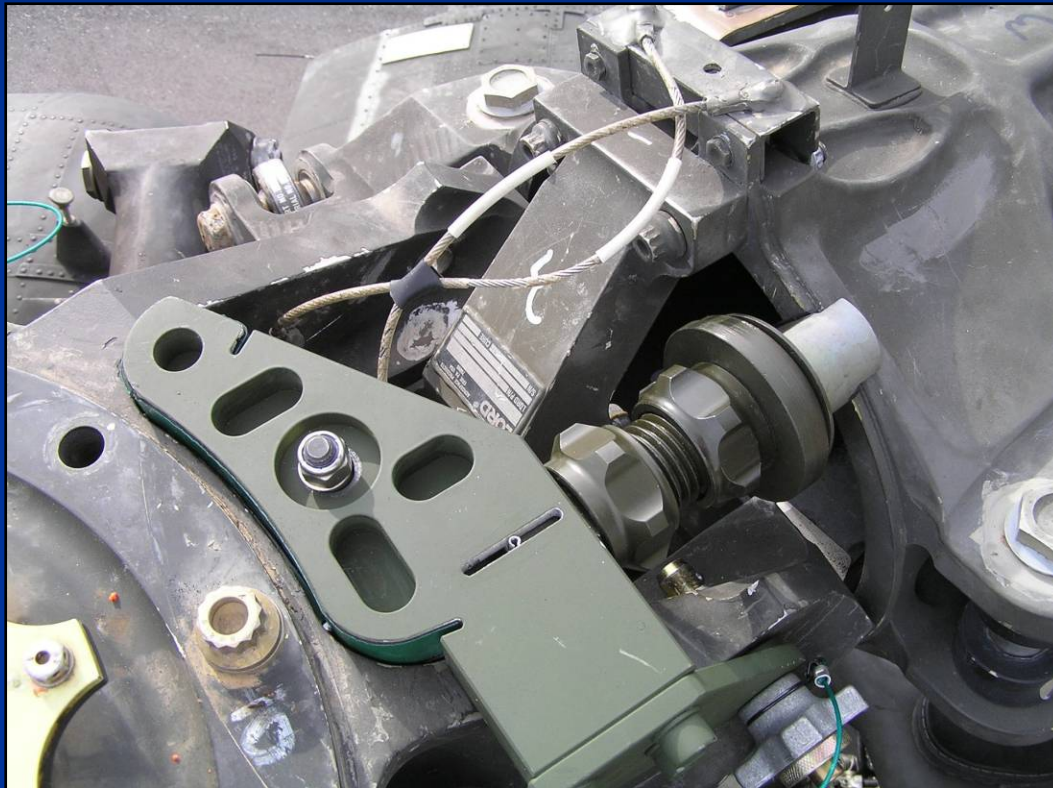
**Standoff Fitting, Stop Plate Assembly, & Handle Pins**

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## AH-64 Main Rotor Blade Fold Kit



**Flap Lock Assembly**

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## AH-64 Main Rotor Blade Fold Kit



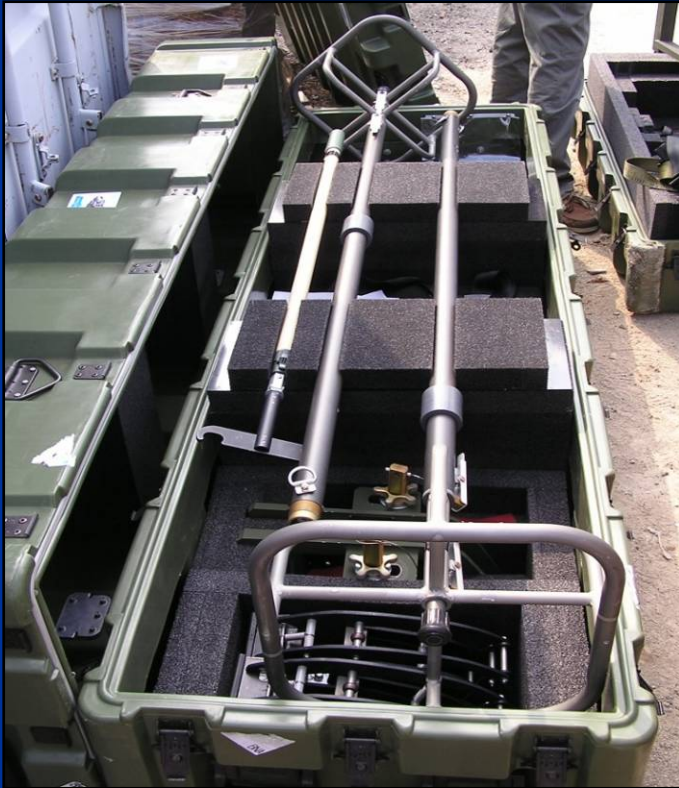
**Transfer Poles and Straps Harnesses**

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## AH-64 Main Rotor Blade Fold Kit



**Containers**

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## AH-64 Main Rotor Blade Fold Kit



**Scan of Aircraft**

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# Research and Development



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## Equipment

- Bystronic 3015 Byjet Water Jet 5'x10' 55,000psi
- Unison "Breeze" 7 Axis Full Electric Tube Bending 45mm
- KSL CNC Sewing System 1000mm x 800mm
- Makino a61 Horizontal Mill 2007 Haas Mini Mill
- Mori Seiki ZT1000Y CNC Machining Center
- Elumatec SBZ 122/30 4-axis tube Machining Center
- Up to 80 Ton OBI Press Department
- Textile Fabrication Cut/Sew/Assemble
- Wire & Synthetic Rope splicing/assembly
- Stratasys Dimension Rapid Prototype Machine (ABS Plastic)
- Laser/Dot Peen Part Making

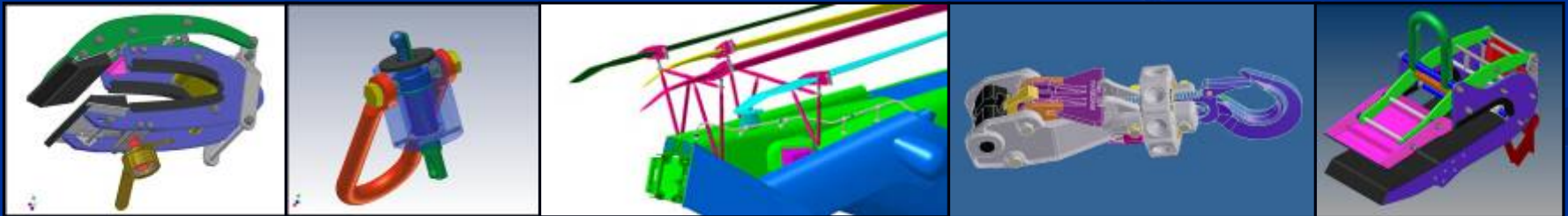




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## Software

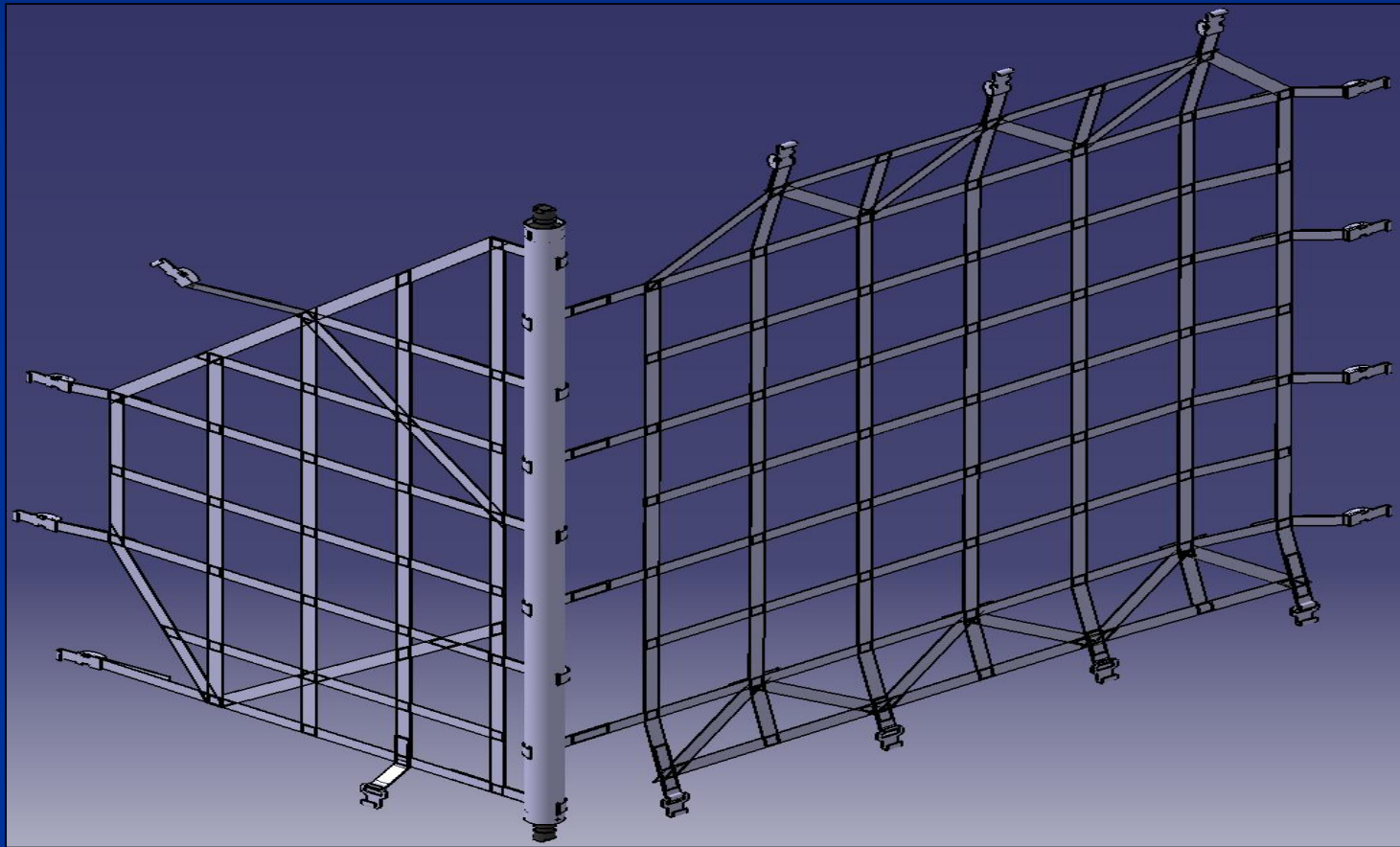
- 🏠 CAD: CATIA V5, AutoDesk Inventor
- 🏠 CAM: Gibbs Cam / Master Cam
- 🏠 FEA Algor, CATIA
- 🏠 PLM: AutoDesk Vault / Product Stream
- 🏠 MRP: Pentagon 2000SQL





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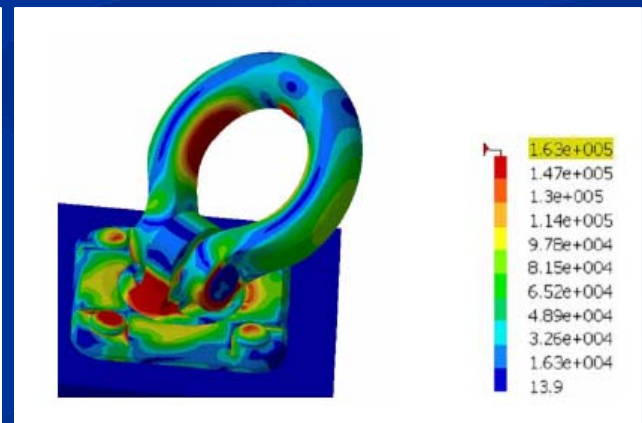
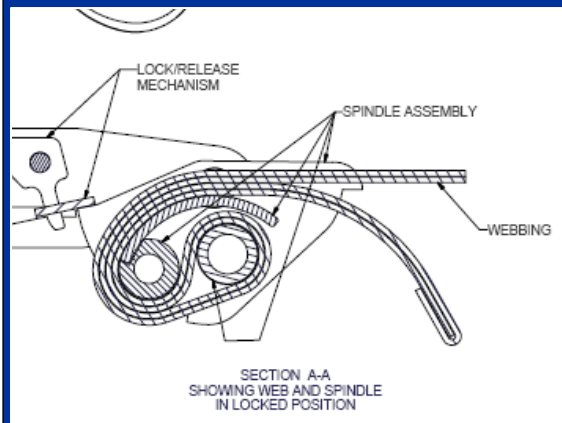
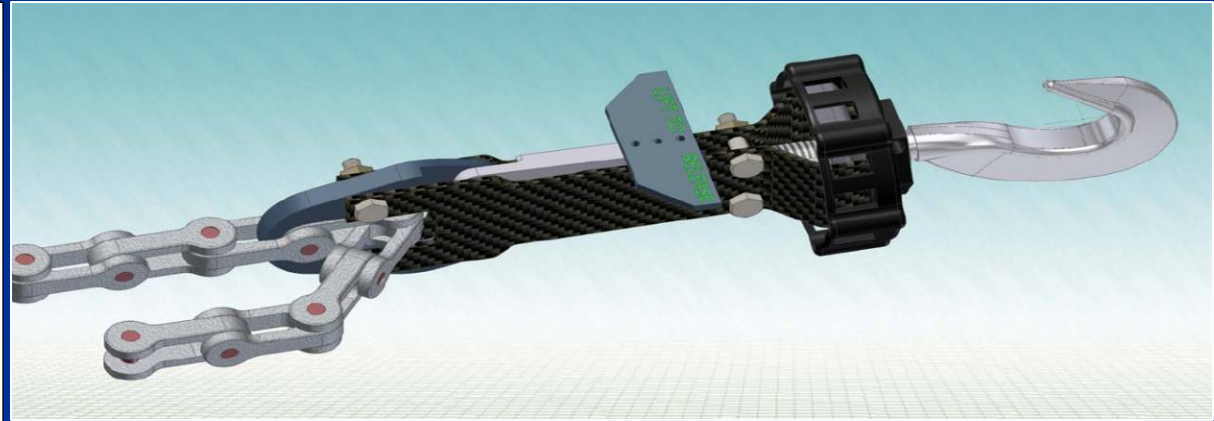
## Designing





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# Designing





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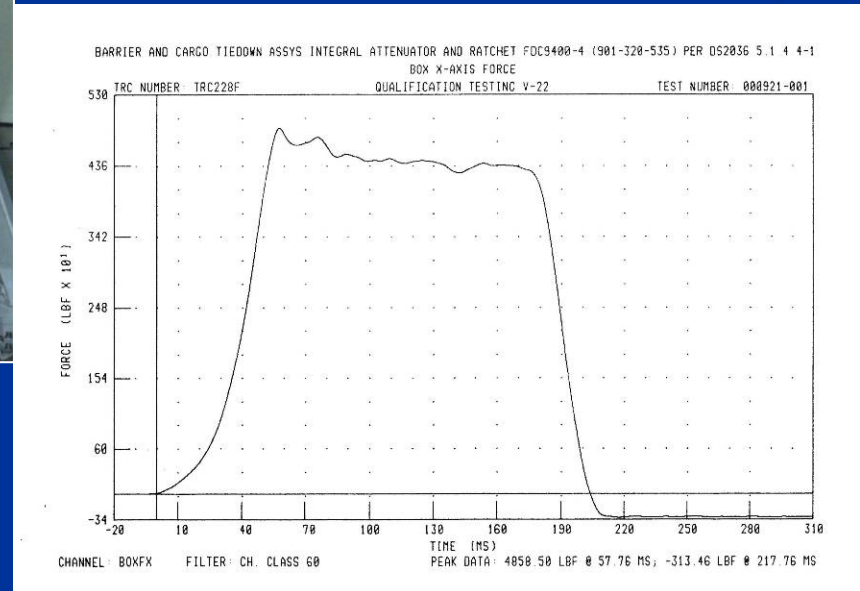
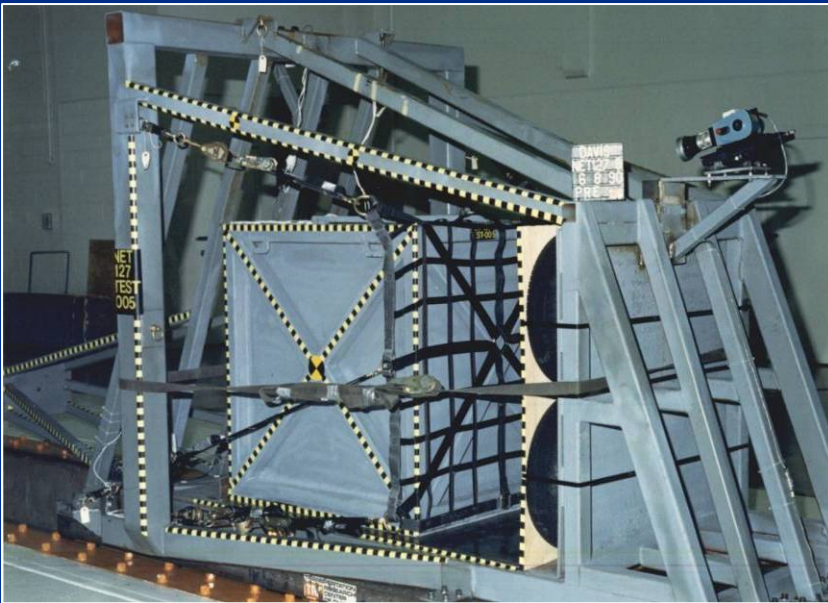
## Inspection and Test Capabilities

- 4 tensile machines to max. 50 ton/20' bed length
- Torso Body Block for FAA TSO-C114
- Zeiss Vista Coordinate Measurement Machine
- Multi Systems Tube CMM
- Systems Scientific Labs plating detector # 520L
- Oxford Non-Destructive plating thickness CMI 233
- EQUOTIP Portable Hardness Tester



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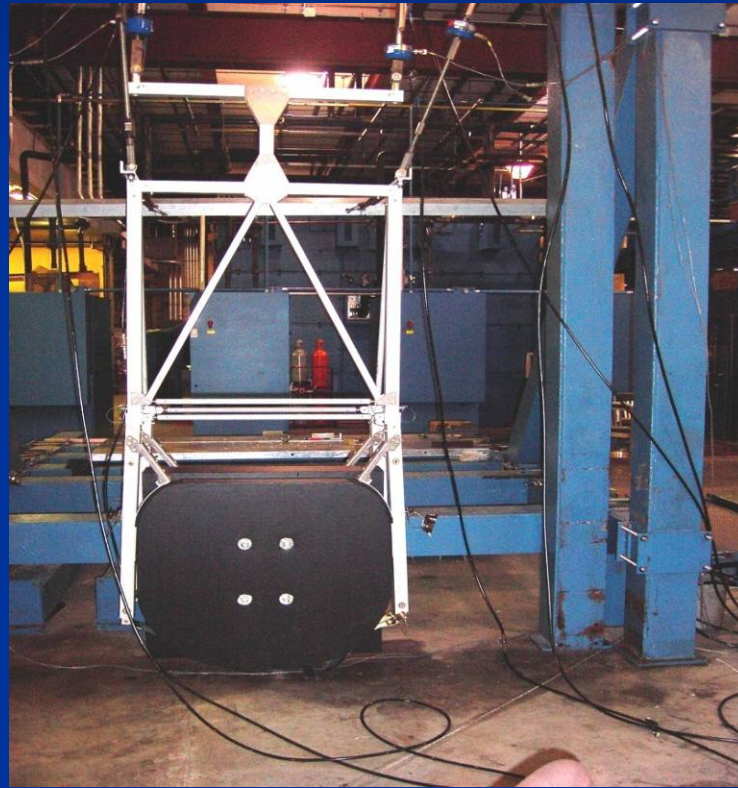
# Testing





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## Testing



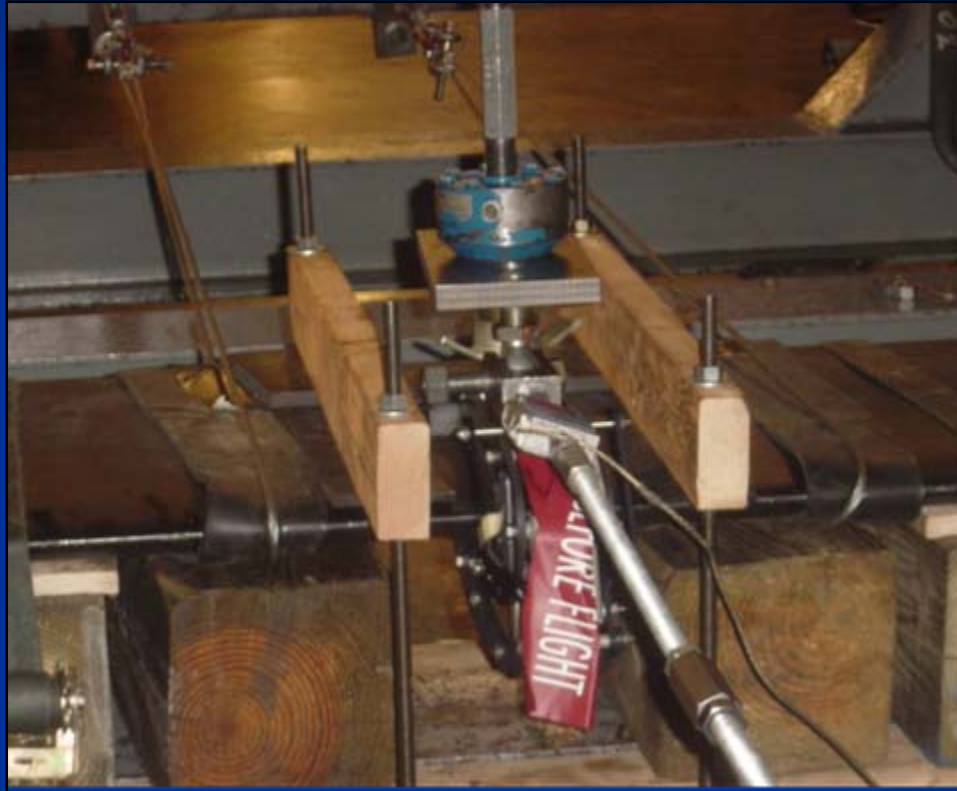
**Tail Rack Assembly Test**

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## Testing



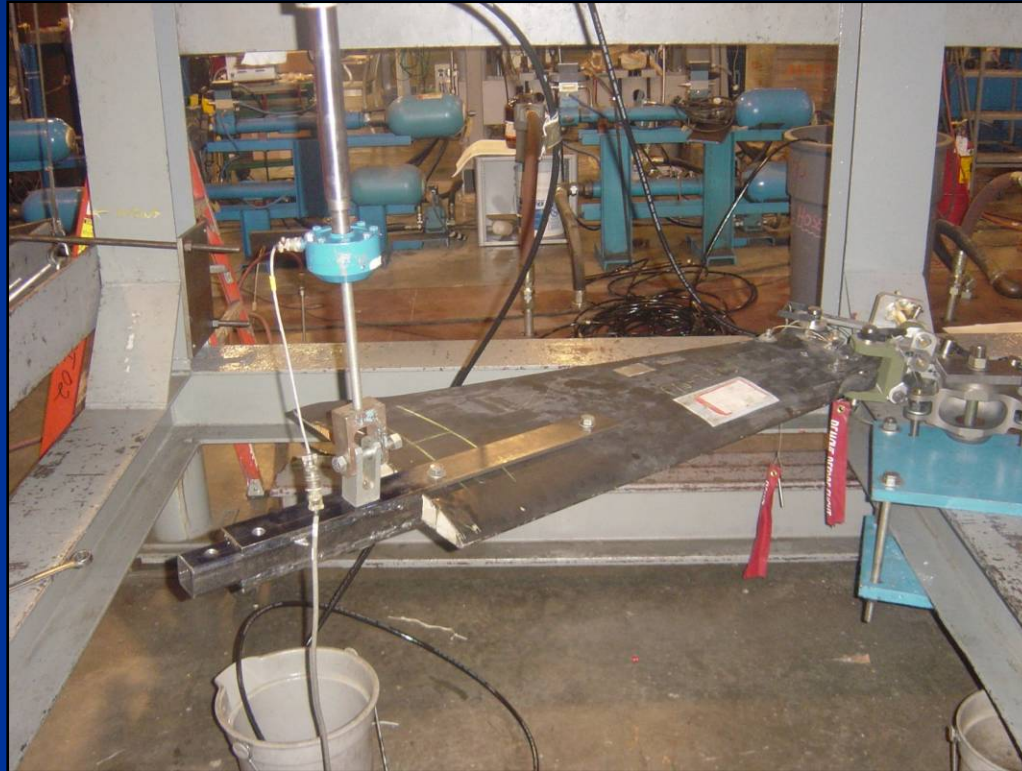
**Blade Clamp Test**

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## Testing



**Standoff Fitting and Stop Plate Assembly Test**

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# Quality Control and Milestones



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## Quality Assurance

- ✈ ISO 9001: 2008 and AS9100 REV. B Certified
- ✈ NYSTAR LEAN Transformation Training Program
- ✈ Risk Management for AS9100 Rev. C Training



## Supplier Quality Ratings

- Sikorsky > 98%
- Lockheed Martin Aero 100%
- Boeing Co 100%
- Goodrich Corp 100%
- Biodex 100%
- Helicomb International 100%
- DSCC Columbus (Government) 99.6%



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## Recent Accomplishments

- \$5 Million in Capitol Investment since 2004
- 300% increase in sales since 2003
- Major System R&D, Qualifications:
  - Boeing AH-64 Main Rotor Blade Fold Kit AED approved
  - Bell ARH 100 knot Rotor Blade Restraint
  - Sikorsky S-92/CH-148 Main Rotor Blade & Tail Pylon Fold Kit
- New Market Penetration :
  - Contract Manufacture
  - Patented Double Wall Fuel Line Bombardier, Cessna, Embraer, Mitsubishi, AIDC



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## Large Volume Customers

- AM General (over 100 Pn's HMMWV)
- Boeing (CH-47 Troop Seat Comp, Litter Straps, Interior Panels)
- Defense Logistics Agency
- Southwest Airlines Seat Belts, Straps
- Sikorsky Min-Max
- BAE Survivability Systems



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## What Davis has offered its customers for 60 years

- A strategic innovation partner to help design, certify and economically manufacture new and improved systems.
- Proven design track record with V-22, C-17, Apache PMO, Sikorsky UH-60, S-92, CH-148, AM-General HMMWV
- Small Women Owned Business/Small DV Owned with EFMC Joint Venture Participation

## Contact Us

- Davis Aircraft Products Co., Inc.
- 1150 Walnut Ave. - Bohemia, NY 11716
- <http://www.davisaircraftproducts.com>
- Phone: 631-563-1500
- Fax: 631-563-1117
- E-Mail: [dapisouth@aol.com](mailto:dapisouth@aol.com)
- Jill Davis, CEO



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**Thank You**