INNOVATION
COMMUNITY
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EXCELLENCE

PRECISION AIRCRAFT MACHINING CO., INC.

10640 ELKWOOD STREET
SUN VALLEY, CA. 91352
WWW.PAMCO-INC.COM
PHONE: (818) 768-5900
FAX: (818) 768-1409

2018
“We are in business for our customers”

Donald Pisano, President
Precision Aircraft Machining Co., Inc.
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I would like to introduce you to PRECISION AIRCRAFT MACHINING CO. INC. dba PAMCO, a young aggressive, family owned, small business.

PAMCO is “Big enough to perform” on just about any size order but, “We’re small enough to care” about our customers.

PAMCO has been continuously audited and Certified to AS9100, ISO 9001, AS7003, AC7112 and AC7112/2 since 2002 along with various other Primes.

With today’s emphasis for quality and on time deliveries, PAMCO offers a modern high tech machine shop, which operates 20 hours a day and covers more than 22,000 square feet. PAMCO produces some of the finest products in today’s marketplace with highly precision parts and rapid deliveries.

Our machine shop is supported by the Quality Assurance requirements of AS9100 Revision C, with first article, in process and final inspections. Our thread inspections meet all the requirements of AS 8879, MIL-S-7742, ANSI/AMSE A1.3M and handbook H-28. Inspection procedures also include the use of JOHNSON GAGES and optical comparators.
We manufacture AS, MS, NAS and AN hydraulic tube fittings, flared and flareless. We also manufacture Customer Proprietary Designs or Customer Controlled Standards and Specials. Alloys available are Titanium, Inconel, Monel, Carbon Steel, Aluminum and all Stainless Steels including 431, 15-5 PH and 17-4 PH.

Parts are made to order per customer request with small quantities of most part numbers maintained in stock. Pamco maintains an inventory of over 6,000 items. We manufacture parts for customers such as Boeing, Bell Helicopter, Textron, Lockheed Martin, Northrop Grumman, Litton Industries, Bombardier, Embraer, Gulfstream, Essex Cryogenics, Parker Stratoflex, Cessna Aircraft, Raytheon Aerospace, Beech Aircraft, Crane Resistoflex, DefenseSupplyCenter, Columbus (DSCC) and many others.

Lead times can vary from weeks to just days in the event of an AOG or a Customer’s critical need. Rush jobs or Expedited deliveries are always welcomed at PAMCO.

In our excellent short run shop we can run from just a few to hundreds in days instead of months.

We also carry a large inventory of raw material and forgings to be able to respond quickly. All material is DFAR compliant and certified.

Please call, fax or e-mail your requirements to our sales office and “Thank you” for taking time and allowing me to offer my company to you.

Sincerely yours,
Donald A. Pisano, President
Precision Aircraft Machining Co. Inc.
In accordance with SAE Aerospace Standard AS7003, PAMCO was accredited since 2002 and granted inclusion into the Performance Review Institute’s (PRI) Qualified Manufacturer List (QML) by the Nadcap Management Council. PAMCO is also listed on the QML for the following specifications:

- AS4444  Fittings, 24 degree Cone Flareless, Fluid Connection, 5000 psi
- AS4841  Fittings, 37 degree Flared, Fluid Connection
- AS4842  Fittings and Bosses, Pipe Threaded, Fluid Connection.
- AS4842/1 Fittings, 37° Flared to Pipe Threaded, Fluid Connection.
- AS4842/2 Fittings, Flareless to Flared to Pipe Threaded, Fluid Connection.
- AS4843  Fittings, Beaded, Fluid Connection.
- AS4843/1 Fittings, Beaded to 37 degree Flared, Fluid Connection.
- AS4843/2 Fittings, Beaded to Pipe Threaded, Fluid Connection.
- AS4875  Fittings, Straight Threaded Boss or Flanged, Fluid Connection.
- AS4875/1 Fittings, Straight Thread Boss or Flanged to 37 degree Flared, Fluid Connection.
- AS4875/2 Fittings, Flanged to Beaded, Fluid Connection
- AS18280  Fittings, 24 degree Cone Flareless, Fluid Connection, 3000 psi.
- AS85421  Fittings, Tube, Fluid Systems, Separable, Beam Seal, 3000/4000 psi.
- General Fittings and Other Machined Components
We manufacture AS, MS, NAS and AN hydraulic tube fittings, flared and flareless. Alloys available are Titanium, Inconel, Monel, Carbon Steel, Aluminum and all Stainless Steels including 431SS, 15-5 PH and 17-4 PH.

In July 2018 PAMCO received AS9100 REV D and ISO 9002 certification through NSF Registrar and has been continuously certified since 2002. In addition, PAMCO has been accredited to AC7112 and AC7112/2 since 2002.

PAMCO is a qualified source of, and is listed on the Performance Review Institute’s (PRI) Qualified Products Listing (QPL) for the AS18280 Procurement Specification for Fittings, 24 degree Cone Flareless, Fluid Connection, 3000 psi. Below is a list of parts that PAMCO has been approved for as of January 2012 made out of Corrosion Resistant Steel, Titanium, Aluminum, 15-5 PH and Low Alloy Steel in bar and forging.

- QPL AS18280
- AS1001 thru AS1010, sizes -04 to -24
- AS1792, sizes -04 thru -20
- AS21900, sizes -04 thru -24
- AS21902, sizes -04 thru -24
- AS21904 thru AS21916, sizes -04 thru -24
- AS21921, sizes -04 thru -24
- AS21923 thru AS21926, sizes -04 thru -24
- AS21937 thru AS21945 sizes vary (*see below)
- AS24405, sizes vary (*see below)
- AS24651 thru AS24652, sizes -04 thru -24
- AS4130 thru AS4141, sizes -04 thru -24
- AS5230 thru AS5232, sizes -04 thru -24
- AS5238 thru AS5242, sizes vary (*see below)
- AS6041 thru AS6050, sizes -04 thru -24
- QPL AS85421
- AS85421 /3 thru /17 in Titanium, sizes 04, 06, 08, 10
- AS4213 in Titanium, sizes 04, 06, 08, 10
- AS4214 in Titanium, sizes 04, 06, 08, 10

(* Please contact PAMCO for your specific sizes)

We manufacture AS, MS, NAS and AN hydraulic tube fittings, flared and flareless. Alloys available are Titanium, Inconel, Monel, Carbon Steel, Aluminum and all Stainless Steels including 431, 15-5 PH and 17-4 PH.

PAMCO is continuously testing new part numbers so if you don’t see a part number you’re looking for, please contact PAMCO for the latest information.
If you ask Don Pisano, president and founder of PAMCO, to tell you about his company, he’ll say, “Don’t ask me about PAMCO… ask our customers.” This one statement speaks volumes about the man and the company he created.

Don got interested in the aircraft business in the 1950s while working on Pratt & Whitney aircraft engines. He got a job modifying aircraft hardware in Sun Valley, California, where he learned the art of precision machining. A few years later, with money borrowed from a friend, Don started D.A. Pisano Company in his garage and continued working on P&W engine parts. In 1962, he moved his growing business into a small shop in Sun Valley where he ran his company for many years.

By 1979, Don and two partners were running a company called Cal Fittings, which bought and sold aircraft parts. Don wanted Cal Fittings to start manufacturing precision aircraft fittings, but his partners said, “No.” Saying “No” to Don Pisano is like throwing down a gauntlet. Challenges are his inspiration for action. So Don set out to build another business…and PAMCO was born.
In that same year, PAMCO acquired manufacturing equipment for its recently completed 6,800-square-foot building in Sun Valley. With twelve employees, and Don’s expert leadership, PAMCO began producing top-of-the-line-aircraft fittings. “The 1980s were tough years,” says Don, “but hard work and close attention to customer needs saw us through and helped to create the success that is PAMCO today.”

Indeed, PAMCO’s success is amazing. PAMCO achieved Performance Review Institute’s “Qualified Products Listing” (QPL) for -4, -5, -6, -8, -12, -16 & -20 and -24 in Aluminum, Stainless Steel, Low Carbon and Titanium materials starting in the early part of 2002 and still continuing today. This QPL is for flareless fittings procured under AS18280 (MIL-F-18280) requirements. PAMCO occupies over 22,000 square feet in Sun Valley, employs a work force of over 60, and operates 20-hours-a-day with two shifts.

What is the secret of PAMCO’s success? “It’s no secret,” Don explains. “We just do things right. We’re constantly looking for ways to improve our service to our customers. We plan to increase our QPL items in flareless fittings and expand our size ranges in our product line”.

PAMCO’s future is firmly rooted in its past. “Based upon our reputation alone,” says Don, “we will maintain existing relationships as new business joins our family of loyal customers.” PAMCO will continue to grow and prosper because, as Don likes to say, “We’re not in business for ourselves … we’re in business for our customers.”

Don’s dedication and determination is instilled in each and every employee. From Management to Maintenance, from Machinist to Shipping Clerk, Quality and Customer come first.
PAMCO IS APPROVED FOR AS85421 BEAM SEAL FITTINGS

In December 2014 PAMCO was granted approval and accepted into SAE G3 Qualified Product Group (QPG) for the AS85421 BEAM SEAL STANDARD

PAMCO is pleased to announce inclusion into PRI Qualified Product Listing (QPL) for the Procurement Standard AS85421.

Please check with PAMCO for more additional information as we will be adding to this QPL listing soon.
PAMCO RECEIVES ISO 9001:2015 & AS/EN 9100-D CERTIFICATION

Continuous since 2002, PAMCO has been Certified to SAE standard AS9100 and ISO9001.

AS9100 and ISO9001 Certifications are yet another step in the ongoing pursuit of excellence at PAMCO, and sets metrics in place for quality, production, cost accounting and many other aspects of modern business management.

These tools along with Don’s expert leadership, sets PAMCO apart from the rest. It also sets the standard throughout PAMCO for increased efficiency and enhanced value as a result of AS9100. Let us show you what we can do for you.

In July, 2018 PAMCO received AS9100 REV D and ISO9001 Certification through NSF REGISTRAR.

PAMCO RECEIVES AS7112 & AS7112/2 CERTIFICATION

Since 2002, NADCAP’s Management Council in accordance with SAE Aerospace Standard AS7003 has Accredited PAMCO to AC7112 (Accreditation Program Requirements for Fluid Systems Components) and AC7112/2 (Accreditation Program Requirements for Fittings and Other Machined Components). This Accreditation allows PAMCO inclusion into the Qualified Manufacturers List (QML) governed by Performance Review Institute (PRI) and is joined by only a handful of American Manufacturers that have attained this level of qualification.

In 2011, PAMCO joined with Performance Review Institute (PRI) Registrar to conduct our NADCAP audits.

With PAMCO’s commitment to the Quality and reliability of our fluid systems components, Qualifications and Re-Qualification Tests of products continuously, and Customer support we feel that PAMCO is your best choice.“PAMCO is big enough to perform but small enough to care”.

Trust the team at PAMCO to deliver TOP QUALITY HARDWARE made to specification at VERY COMPETITIVE PRICES with DELIVERIES in WEEKS NOT MONTHS.

Please call, fax or email us today to see what we can do for you.
PAMCO GOES ONLINE

http://www.pamco-inc.com
PAMCO works closely with our US and international customers to really understand their needs. Armed with this knowledge, we strive to produce some of the finest fittings in today’s marketplace with highly precision parts and rapid deliveries.

Some of our customers include:

- Boeing Aircraft Company
- Lockheed Martin
- Fairchild
- Bombardier
- Canada Air
- De Haviland
- Auburn Technologies
- Embraer Air
- Flowserve
- Teleflex
- Titeflex
- Stratoflex
- Cessna Aircraft
- Beech Aircraft
- Litton Life Support
- Raytheon
- Allied Signal
- Honeywell
- Sikorsky
- Bell Helicopter Textron
In order to meet and exceed customer expectations, PAMCO consistently makes improvements and will continue to produce some of the finest fittings with superior quality. All materials are DFAR complaint and certified. Some of the common materials for bar, plate and forgings of our products include but not limited to:

**ALUMINUM ALLOYS**

- 2014-T6 per AMS 4121, AMS4133
- 2024-T6 per AMS-QQ-A-225/6 or AMS4339
- 2024-T851 per AMS-QQ-A-225/6 or AMS4339
- 6061-T6 per QQ-A-225/8
- 6061-T651 per AMS4117
- 7075-T73 per QQ-A-225/9 or AMS4141
- 7075-T7351 per AMS4124
- 2024-T351 or T4 wire per AMS-QQ-A-225/6 or AMS 4120
STAINLESS STEEL ALLOYS

- 15-5PH per AMS5659
- 17-4PH per AMS5643
- 300 Series Wire per ASTM-A-580, or AMS5637
- 300 & 400 Series per AMS-QQ-S-763, AMS5639, AMS5645, AMS5648 and AMS-S-18732
- A286 per AMS 5732 or AMS5737

AIRCRAFT STEEL ALLOYS

- 4130 per AMS6370
- 4140 per AMS5626
- 12L14 per ASTM-A-108
- C1137 per ASTM-A-108

BRASS ALLOYS

- Alloy 360 Half Hard
- Alloy 377

TITANIUM

- 6AL-4V per AMS4928 and AMS4965

ALUMINUM ALLOY CASTINGS

- ASTM-B-108-99

If you don’t see the material or material specification you’re looking for, please contact PAMCO for assistance.
CNC TURNING MACHINES

- (1) Nakamura-Tome TW-20MM CNC Lathes • 10.6” x 7.6” Cap
- (3) Nakamura-Tome TW-20 CNC Lathes • 10.6” x 7.6” Cap
- (4) Nakamura-Tome TW-10MM CNC Lathe • 8.3” x 6.1” Cap
- (5) Nakamura-Tome TW-10 CNC Lathe • 8.3” x 6.1” Cap
- (2) Takisawa TC-350 L5 CNC Lathes • 10.8” x 20.1” Cap
- (2) Takisawa TCC 2000 CNC Lathes
- (2) Takisawa TCN 2500 CNC Lathes
- (1) Daewoo Puma 8S CNC Lathe • 14.1” x 14.6” Cap

CNC MILLING MACHINES

- (2) Brother S700 X 1 CNC Machining Center
- (1) Fadal VMC-15 CNC Mill • 20.0” x 16.0” x 20.0” xyz Cap
MANUAL MACHINES

- (1) Andes Engine Lathe • 12.0” dia Cap
- (1) Webb Enging Lathe • 17.0” x 40.0” Cap
- (8) Crozier Speed Lathes • 1.0” dia Cap
- (4) EMI-MEC Auto Sprint Series E Automatic Chuckers

SUPPORT EQUIPMENT

- (1) Chicago Drill Press • 5 Speeds
- (1) CTT Tool Radial Drill • 1.25” Cap
- (1) Duracraft Drill Press • 12 Speeds
- (1) Chicago Drill Press • 12 Speeds
- (4) Pedestal Tool & Cutter Grinders
- (2) Pedestal Diamond Wheel Grinders
- (2) Amada HA 250 Band Saws +A32
- (6) Burr-King Belt Sanders • 1.5” x 60.0”
- (3) Craftsman Belt Sander • 1.0” x 42.0”
- (2) UNI-Hone Bead Blasters
- (1) Toyota 5,000 lb Forklift

QUALITY CONTROL SOFTWARE

- Gage Track

OPTICAL COMPARTORS

- (1) Sherr Tumico Optical Comparator • 50x
- (2) Micro-Vu Optical Comparators • 50x

OTHERS

- (1) Micro-Hite Gage
- (1) Flexbar Phase II Hardness Tester
- (1) Standridge Surface Plate • 36.0” x 48.0” • Grade AA
- (1) Surface Plate • 18.0” x 24.0” • Grade AA
- (1) Fowler Gage Block Set • Grade (3)
- (1) Set Meyer Gage Pins • .011 thru .832 dia
- (5) Mitutoyo Height Gages • .001” thru 12.0”
- Johnson External Thread Gages • 5/16-24 (-2) thru 3 1/2-12 (-48)
- Johnson Internal Thread Gages • 7/16-20 (-4) thru 1 7/8-12 (-24)
- MTG Internal Thread Gages • 5/16-24 (-2) thru 3 1/2-12 (-48)
- Assorted Class 2A & Class 3A Ring Gages
- Assorted Class 2B & Class 3B Plug Gages
- Assorted ANPT & ANPF Pipe Ring Gages
- Assorted ANPT & ANPF Pipe Plug Gages
- Assorted Standard & Digital Micrometers & Calipers
- Super Mike
- Alodine
- Anodizing
- Cadmium Plating
- Dry Film Lubricant
- Epoxy Painting
- Fluoride Phosphate Coat
- IVD Coating
- Passivating & Cleaning
PAMCO PRODUCTS ARE MADE-TO-ORDER

PAMCO’s modern, high-tech machine shop operates twenty hours a day and produces the finest products in today’s marketplace. PAMCO recognizes your requirements for quality and on-time delivery.

PAMCO manufactures AN, MS, AS, & NAS hydraulic tube fittings, both flared and flareless. Alloys available include Inconel, Monel, Titanium, Stainless Steel, Aluminum, Carbon Steel, Brass and Copper alloys. PAMCO also manufactures specials or part-to-print in all the same materials.

All PAMCO parts are made-to-order per customer request. Small quantities of most items are maintained in stock. Rush or expedited orders are welcome in PAMCO’s short run shop where parts are made in days instead of months. Please call or fax your fitting requirements to our sales department.

PAMCO manufactures AN, MS, AS and NAS standards as well as metric fittings, parts to print and customer controlled standards and specials.

PAMCO is AS18280 QPL approved, qualified for sizes 4 through 24 in carbon steel, stainless steel, aluminum and titanium. PAMCO is certified to and operates to AS9100 and AS7003.

PAMCO is “Big enough to perform” on just about any size order but,” We’re small enough to care” about our customers.
THE PAMCO QUALITY POLICY

Precision Aircraft Machining Co., Inc. shall strive to deliver the products and services that meet or exceed the customer’s requirements. PAMCO shall commit to constant improvement by training its people, upgrading equipment, eliminating non-essential practices, and creating an environment of quality consciousness. This policy is implemented and carried out at all levels in the organization.

QUALITY FORGINGS AVAILABLE FROM PAMCO

PAMCO maintains a large inventory of high-quality forgings as raw material for its products. These forgings are available for sale in a variety of materials and configurations for subsequent machining. All forgings are DFAR complaint and certified. Certifications and test reports are available for each lot of forgings. PAMCO forgings are procured only from high-quality sources with approved quality control procedures. Call PAMCO for more information.
PAMCO “PK” LIPSEAL FITTING

The F-15E Molecular Sieve Oxygen Generating System (MSOGS) requires that the system meet stringent leakage requirements. During initial implementation of MSOGS, it was determined that the standard AN fittings were inadequate to provide proper sealing capability.

Realizing proprietary items are often expensive and the suppliers are late, McDONNELL DOUGLAS and LITTON-ILSD requested that PAMCO design and develop a “standard” fitting that could meet the system’s leakage requirements. PAMCO developed and tested a 37 degree Lipseal Fitting that surpassed the required system leakage rates. Mass spectrometer tests have established that the “PK” series reduces leakage levels to 9.03 X 10⁻⁸ CC/SEC helium at 600 psig and 6.09 X 10⁻⁸ CC/SEC helium at 800 psig.

The team effort eliminated the reliance on proprietary items and allowed both companies to issue their own standards, creating competitive pricing and on-time deliveries. All PAMCO “PK” series fittings are manufactured “new”, not reworked from stock on CNC equipment under our stringent Quality Assurance program ensuring full compliance with current specification.

UNLIMITED APPLICATION

Although the PK Series was designed for life support, its characteristics are applicable to all critical line connections.

The AS1098 37 degree flared tube connection for seal ring may be machined to any AN, MS or SAE configuration.

CORRECTS LEAKAGE PROBLEMS

The PK series reusability features will prevent leakage in systems the require repeated assembly.
TESTING INFORMATION

Mass spectrometer tests have established that the PK series reduces leakage levels to 9.03 X 10⁻⁸ cc/sec. Helium at 600 PSIG and 6.09 X 10⁻⁸ cc/sec. Helium at 800 PSIG, considerably less than conventional AN, MS and SAE fittings.

MATERIALS

The PAMCO PK series of fitting are manufactured from the following materials.

- 2014T6 ALUMINUM – MATERIAL CODE: D
- 2024T851 ALUMINUM – MATERIAL CODE: D
- 7075T73 ALUMINUM – MATERIAL CODE: W
- 7075T351 ALUMINUM – MATERIAL CODE: W
- 304 STAINLESS STEEL – MATERIAL CODE: J
- 316 STAINLESS STEEL – MATERIAL CODE: K
- 321 STAINLESS STEEL – MATERIAL CODE: R
- 347 STAINLESS STEEL – MATERIAL CODE: S
- 6AL 4V TITANIUM – MATERIAL CODE: T

FINISH

All finishes are in accordance with AS4841, AS4842, AS4843 and AS4875 with the exception of ion vapor deposited coating. The IVD coating is in accordance with AMS-C-83488 and meets the requirements of AMS-B-5087 for bonding, electrical lighting protection for the aerospace systems.

* The PK series parts listing is at page 73, 74 and 75
ISO 9001:2015 & AS/EN 9100 REV D APPROVALS

Boeing, Lockheed Martin, Gulfstream Aero, Cessna Raytheon Beach, Embraer, Bombardier, DSCC, Bell Helicopter, Textron, Crane Resistoflex, Parker Stratoflex, Essex Cryogenics.
December 4, 2014

Mr. Bill Andersen
Floor Manager
PAMCO, Inc.
10640 Elwood Street
Sun Valley, California 91352-4631

Dear Mr. Andersen:

Subject: G3-F223 – PAMCO, Inc. – AS85421 – Sizes 4, 6, 8, 10 – Titanium ONLY

We are pleased to advise that the PAMCO request for qualification for the following parts has been accepted by the G3 Qualified Product Group (QPG) in support of your organization’s inclusion on the PRI Qualified Product Listings for the following standards.

<table>
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Please note that if PAMCO, Inc. requires qualification approval for AS85421/# size 12, a new project will have to be initiated in the www.eAuditNet.com system.

As the manufacturer of a qualified product, your organization will appear on the PRI Qualified Products List (QPL) at www.eAuditNet.com. As a condition of your continued qualification, there will be an annual listing fee. PRI will invoice you annually for your listing. In addition to the listing fee, the specification for each QPL defines supplemental requirements.
Network Procurement
2007 Award Winner

The Stratoflex Products Division of Parker Hannifin Corporation

hereby recognizes

PRECISION AIRCRAFT MACHINE COMPANY INC

AS A STRATEGIC PARTNER

The Network Procurement Agreement Award is in recognition of suppliers that meet the six (6) elements of the agreement: Quality, Technology, Minimum Order Quantity, Lead Times, The Process of Continuous Improvement, and Pricing. The Overall Value NP Suppliers provide Parker supports the continuing effort to maintain our position as the Global Leader in Motion and Control Technologies.

Alfonso Sosa, Division Procurement Manager

Brian Lovejoy, Division Quality Manager

ENGINEERING YOUR SUCCESS.
March 5, 1996

Precision Aircraft Machining Co
(PAMCO)
10640 Elkins Street
Sun Valley, CA 91352-4631

Attention: Jim Asseltynes

Subject: APPROVAL OF MANUFACTURER'S DRAWING (AMD)

Reference: AMD # 96-33 Dated 2-15-96

LMASC Standards Engineering has approved your drawing for the part number(s) listed on the referenced AMD, and a copy of the AMD is enclosed for your records.

The drawing listed on the AMD have been approved as specifically set out. Any changes to the drawing not approved by LMSC Standards Engineering will be cause for withdrawal of this approval.

Upon procurement of these parts, the purchase order "hold to" shall be the respectively listed revision of the drawing shown. Any FNN note listed shall also become a part of the "hold to." It should be noted that parts shipped to a revision level other than the level called out in the purchase order may be considered non-conforming and will be subject to return.

It is requested that five (5) copies of the drawing listed be forwarded to:

LOCKHEED MARTIN AERONAUTICAL SYSTEMS COMPANY
MARIETTA, GEORGIA 30063
ATTENTION: VENDOR DATA FILES
DEPARTMENT 82-13, ZONE 0364

If you have any questions, please call me.

Very truly yours,

LOCKHEED MARTIN AERONAUTICAL SYSTEMS COMPANY

[Signature]

M.W. Burnup, Subcontracts Administrator
Standard Parts/MSP Group
Dept. 55-45, Zone 0510

Encls.
McDonnell Douglas Aerospace

05 February 1993

Mr. Gene Mundy
Quality Control Manager
10640 Elkwood Street
Sun Valley, CA 91352

Subject: Recognition of PAMCO's Support on the F-15E Program

Dear Mr. Mundy:

The F-15E Molecular Sieve Oxygen Generating System (MSOGS) requires that the system meet stringent leakage requirements. During initial implementation of MSOGS, it was determined that the standard AN fittings were inadequate to provide the proper sealing capability.

MDA-E and Litton-ILSD requested that PAMCO design and develop a standard fitting that could meet the system's leakage requirements. PAMCO developed and tested a 37 degree lip seal fitting that surpassed the required system leakage rates.

MDA-E would like to thank PAMCO for their commitment to excellence on the F-15E MSOGS program. PAMCO's dedication in providing a quality product, on time, was instrumental towards the program's success. Your continuing support to the F-15E MSOGS program is appreciated.

Again, thank you for a job well done!

Brad Korte
Sr. Engineer, Design
F-15 Crew Station
Sta. 35997, M/C 0343190

CONCUR: I. P. Graia
Unit Manager
F-15 Design
Sta. 31608, M/C 0343190

P.O. Box 516, Saint Louis, MO 63166-0516 (314) 232-0232 Telex 44-857
McDonnell Douglas Aerospace

WILLIAM L. STOWERS
Vice President
Supplier Management and Procurement - East

700-296
03 March 1993

PAMCO
10640 Elkwood St
Sun Valley, CA  91352

Attention:  Mr. Jim Asselyne

Subject:  MDA PREFERRED SUPPLIER CERTIFICATION AWARD

Dear Jim:

McDonnell Douglas Aerospace (MDA) is pleased to inform you that PAMCO has earned Preferred Supplier Certification Status.  This achievement is based on PAMCO meeting an overall Bronze Level certification.  PAMCO has attained Bronze Level for Business Processes, Bronze Level for Quality, Silver Level for Delivery Performance, and Bronze Level for SPC.  Retention of preferred certified status will require PAMCO to maintain performance to at least the minimum standards of certification.  However, MDA wishes to encourage you to strive for the Gold Level of Preferred Certification Status.

We would like to make a formal presentation at your plant at a time that is convenient for you.  For planning purposes, I have designated Darwin Seldel to coordinate the arrangements for this presentation.  Darwin may be contacted at (314) 232-6816.  Please advise alternate dates so that we can determine a mutually convenient schedule.

Once again, congratulations on achieving this award.  MDA appreciates the outstanding efforts of the PAMCO Team, and we look forward to a constantly improving long-term relationship.

Sincerely,

William L. Stowers - Vice President
Supplier Management and Procurement

P.O. Box 516, Saint Louis, MO 63166-0516
November 13, 1995

To: All Aerospace Purchasing Agents, Buyers, Standards
   Engineers, and Quality Assurance Managers

From: Richard M. Barkley, President
       United Supply Co., Inc.

Subject: SALE OF UNITED SUPPLY CO. PART SERIES

United Supply Co. is pleased to announce that Precision Aircraft
Machining Company, Inc. dba PAMCO has been selected as the sole
authorized manufacturer of all US, UFR, UR, UV, UVD and UT
series parts and as such is the sole-owner of all trademarks,
copyrights, etc., pursuant to the manufacture and sale of the
entire United Supply part series.

PAMCO is an excellent manufacturer, in the tradition of United
Supply Co. and has a superior reputation for quality parts de-
ivered to schedule. I recommend that all of United Supply’s
customers give PAMCO an opportunity to provide top quality
parts and support.

Very truly yours,

UNITED SUPPLY CO., INC.

[Signature]

Richard M. Barkley, Président

RNB/jp
SCOPE OF ACCREDITATION

Fluid Distribution Systems

PAMCO
10640 Elkwood St
Sun Valley, CA 91352-4631

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: www.eAuditNet.com - Online QML (Qualified Manufacturer Listing).

In recognition of the successful completion of the PRI evaluation process, accreditation is granted to this facility to perform the following:

AC7112 Rev A - Nadcap Fluids Systems Manufacturers Audit Criteria

AC7112/2 Rev A - Nadcap Audit Criteria for Fittings and Other Machined Components

AS18280
AS4370
AS4444
AS4841
AS4843
AS4843/1
AS4843/2
AS4875
AS4875/1
AS4875/2
AS85421
AS85720

17-Jun-10
This certificate is granted and awarded by the authority of the Nadcap Management Council to:

PAMCO
10640 Elkwood St
Sun Valley, CA 91352-4631
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:

Fluid Distribution Systems

Certificate Number: 4024168187
Expiration Date: 30 April 2019

Joseph G. Pinto
Executive Vice President and Chief Operating Officer

Performance Review Institute (PRI) | 161 Thorn Hill Road | Warrendale, PA 15086-7527
Certificate of Registration

This certifies that the Quality Management System of
Precision Aircraft Machining Company, Inc. PAMCO
10640 Elkwood Street
Sun Valley, California, 91352, United States
has been assessed by NSF-ISR and found to be in conformance to the following standard(s):
AS9100D with ISO 9001:2015

*Audited in accordance with AS9100D 2012 Requirements for Aviation, Space, and Defense Quality Management System Certification Programs.
*NSF-ISR is accredited under the American National Standards Institute Registration Management Committee.

Scope of Registration:
Campus: (Central Office) Design, Manufacturing and Assembly of Hydraulic Fittings, Specialty Fittings and Machined Parts.

Certificate Number: 0036468-AS2
Certificate Decision/Re-Issue Date: 27-JUL-2018
Certificate Issue Date: 10-JUN-2017
Expiration Date: 09-JUN-2020

Carl Blazek,
Director, Technical Operations & Business Units, NSF-ISR, Ltd.

Page 1 of 2

NSF International Strategic Registrations
789 North Diabola Road, Ann Arbor, Michigan 48105 | (888) NSF-9000 | www.nsf-isr.org

Authorized Registration and/or Accreditation Marks. This certificate is property of NSF-ISR and must be returned upon request.
*Company is subject to conduct at any time. To verify registrations call (888) NSF-9000 or visit our web site at www.nsf-isr.org
AEROSPACE INDUSTRIES ASSOCIATION

Certificate of Associate Membership

This is to certify that

PRECISION AIRCRAFT
MACHINING COMPANY

Qualified for and has been accepted as a
MEMBER OF THE SUPPLIER MANAGEMENT COUNCIL
2007-2008

John W. Douglass
President & CEO, AIA

William J. Lewandowski
Vice President, Supplier Management
Approval Of Supplier

Gulfstream Aerospace is pleased to grant its' approval to Precision Aircraft Machining Co., Inc. as a supplier of material, parts, and/or services. This approval is given after a complete facilities survey and examination of the Quality Control/Assurance organization has been accomplished. You are approved to provide to Gulfstream Aerospace Corporation the various categories of material, parts and/or services as listed here.

Manufacturing of Fluid Fittings

This approval is given subject to your continued compliance with Gulfstream Aerospace Corporation Supplier Quality Assurance Requirements as defined by contract.

DATE: 22 March 2010
EXPIRES: □ 1 YEAR FROM DATE
□ 3 YEARS FROM DATE
□ 4 YEARS FROM DATE
□ UNTIL RESCINDED

Gulfstream Aerospace Corporation
QUALITY ASSURANCE DEPARTMENT
P.O. BOX 2206 A-40
SAVANNAH, GEORGIA 31402-2206
September 13, 2010

Precision Aircraft Machining Co Inc.
10640 Elkwood St
Sun Valley, CA 91352-4631

Attn: Mr. Donald Pisano, President

Subject: Platinum Level – Platinum Source Plaque

On behalf of Northrop Grumman Aerospace Systems Sector we are pleased to present this plaque to Precision Aircraft Machining Co Inc. for their sustained excellence as a supplier of quality products and on-time delivery.

Congratulations to you and your employees!

Sincerely,

Steven R. Moe, Director
Supplier Assurance & Commodity Engineering
Given in recognition of
Sustaining Customer
Quality & Delivery Expectations
 Presented to
Precision Aircraft
Machining Co. Inc.
September 1, 2010

Lisa V. Kohl
Sector Vice President
Global Supply Chain
Aerospace Systems

Steven R. Moe
Director
Supplier Assurance & Commodity Engineering
Aerospace Systems
2007 Certified Supplier
Stratoflex Products Division

This is to certify that:

PRECISION AIRCRAFT MACHINE COMPANY INC.

is hereby granted certified supplier status in accordance with Parker Hannifin supplier quality assurance procedures. This status is subject to continued compliance with Parker Aerospace Group – Supplier Quality Assurance Requirements as defined by contract.

Alfonso Soto, Division Procurement Manager
Brian Lovejoy, Division Quality Manager

ENGINEERING YOUR SUCCESS.
Precision Aircraft Machining Co., Inc.

10640 Elkwood Street
Sun Valley, CA 91352

Phone: (818) 768-5900
Fax: (818) 768-1409

WWW.PAMCO-INC.COM

mail@pamco-inc.com
DON PISANO
President (x220)
dpisano@pamco-inc.com

KIM PISANO
V.P. of Operations (x219)
kpisano@pamco-inc.com

JIM THOMPSON
Sales (x230)
jthompson@pamco-inc.com

ED BORREGO
Sales (x215)
eborrego@pamco-inc.com

BILL ANDERSEN
General Manager (x216)
bandersen@pamco-inc.com

THOMAS COOK
Quality Manager (x213)
tcook@pamco-inc.com

Accounting (x214)
accounting@pamco-inc.com

Certification (x212)
invoice@pamco-inc.com

Follow-Up (x211)
expediting@pamco-inc.com
Frequently asked questions

Question:
How long has PAMCO been in business?

Answer:
PAMCO was founded in 1979 and has been in continuous operation ever since.

Question:
Where is Sun Valley, California?

Answer:
Sun Valley, California, is located in the eastern San Fernando Valley, approximately 15 miles north of downtown Los Angeles.

Question:
What is the standard lead time at PAMCO?

Answer:
Depending upon the component requirements, PAMCO is often able to deliver your order in as little as a few days. Please call PAMCO to discuss your specific requirements.
Question:
What materials can PAMCO use to produce parts?

Answer:
PAMCO can produce its components in almost any available machineable metal including stainless steel, Inconel and Titanium. Please call PAMCO for your specific requirements.

PAMCO’s staff can assist you with all of your special fitting requirements. Please call PAMCO for details.

Question:
How large is PAMCO’s facility in Sun Valley, California?

Answer:
PAMCO maintains a 20,000-square-foot modern manufacturing facility in Sun Valley, California.
Parts listing
AS95  FITTING ASSEMBLY, CROSS

AS93  FITTING, TEE, STANDARD AND REDUCER

AS94  FITTING, TEE, STANDARD AND REDUCER

AS95  FITTING ELBOW, 45 DEGREE

AS96  FITTING, NIPPLE, REDUCER

AS97  FITTING ELBOW, 90 DEGREE

AS931  FITTING, ADAPTER, REDUCER/EXPANDER

AS932  FITTING, ADAPTER, REDUCER/EXPANDER

AS933  FITTING, ADAPTER, UNION

AS934  FITTING, ADAPTER, REDUCER/EXPANDER

AS1001  FITTING, TEE, STANDARD AND REDUCER

AS1002  FITTING, TEE, STANDARD AND REDUCER
AS1035
FITTING TEE, STANDARD & REDUCER, FLARED

AS1036
FITTING CROSS, STANDARD & REDUCER, FLARED

AS1037
FITTING UNION, STANDARD & REDUCER, BULKHEAD

AS1038
FITTING ELBOW, 90 DEGREE, STANDARD & REDUCER

AS1039
FITTING TEE, STANDARD & REDUCER, BULKHEAD

AS1040
FITTING ELBOW, 45 DEGREE, STANDARD & REDUCER

AS1100
UNION, FLARED TUBE, BULKHEAD AND UNIVERSAL

AS1249
ELBOW, 90 DEGREE, FLARED TUBE FOR SEALING RING

AS1250
ELBOW, 90 DEGREE, FLARED TUBE FOR SEALING RING

AS1251
FITTING, UNION, FLARED TUBE FOR SEALING RING

AS1252
TEE, FLARED TUBE FOR SEALING RING

AS1253
TEE, FLARED TUBE, BULKHEAD, FOR SEALING RING

PRECISION AIRCRAFT MACHINING CO., INC
PHONE: (818) 768-5900
FAX: (818) 768-1409

PAGE 47
AS1365
TEE, FLARED TUBE, BULKHEAD, FOR SEALING RING

AS1366
ELBOW, 90, FLARED TUBE, BULKHEAD, FOR SEALING RING

AS1367
CROSS, FLARED TUBE, FOR SEALING RING

AS1368
FITTING, REDUCER EXTERNAL, THREAD FLARED TUBE

AS1369
PLUG, FLARED TUBE, FOR SEALING RING

AS1581
FITTING, SLEEVE, FLARELESS ACORN TO WELD RING

AS1582
FITTING, ADAPTER, EXTERNAL THREAD, FLARELESS

AS1583
FITTING, TEE, INTEGRAL WELD RING

AS1584
FITTING, ELBOW, 90, INTEGRAL WELD RING

AS1585
FITTING, REDUCER, INTEGRAL WELD RING

AS1732
BODY, COUPLING, RIGID, FIXED CAVITY, THREADED

AS1790
NUT, FITTING, RETAINED, LIGHTWEIGHT
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**PRECISION AIRCRAFT MACHINING CO., INC**

PHONE: (818) 768-5900  
FAX: (818) 768-1409
AS21900  MS21900  Adapter, Flareless Tube To A Flared Tube

AS21902  MS21902  Union, Flareless Tube

AS21904  MS21904  Elbow, Flareless Tube, 90

AS21905  MS21905  Tee, Flareless Tube

AS21906  MS21906  Cross, Flareless Tube

AS21907  MS21907  Elbow, Bulkhead Universal, 45, Flareless Tube

AS21908  MS21908  Elbow, Bulkhead & Universal 90, Flareless Tube

AS21909  MS21909  Tee, Bulkhead & Universal, Flareless Tube

AS21910  MS21910  Tee, Bulkhead, Flareless Tube, Internal Thread

AS21911  MS21911  Tee, Bulkhead, Flareless Tube, Internal Thread

AS21912  MS21912  Tee, Flareless Tube With Bulkhead On Run

AS21913  MS21913  Plug, Flareless Tube

Precision Aircraft Machining Co., Inc
Phone: (818) 768-5900
Fax: (818) 768-1409
AS21941  MS21941  BOLT, CLUSTER FITTING, DOUBLE PORT, THROUGH

AS21942  MS21942  BODY, CLUSTER FITTING, ONE WAY, FLARELESS

AS21943  MS21943  BODY, CLUSTER FITTING, TWO WAY, 90, FLARELESS

AS21944  MS21944  BODY, CLUSTER FITTING, TWO WAY, 180, FLARELESS

AS21945  MS21945  BODY, CLUSTER FITTING, THREE-WAY, FLARELESS

PRECISION AIRCRAFT MACHINING CO., INC

PHONE: (818) 768-5900
FAX: (818) 768-1409
AS3000
PLUG, MACHINE THREAD - AMS 5646, METAL GASKET

AS3001
PLUG, MACHINE THREAD - AMS 5646, METAL GASKET

AS3163
PLUG

AS3166
UNION, TUBE CRSH AMS 5646 CONICAL END,

AS3220
SLEEVE, FLARED, TUBE FITTING - ALUMINUM

AS3226
TUBE, TEE, BOSS - AMS 5646

PRECISION AIRCRAFT MACHINING CO., INC
PHONE : (818) 768-5900
FAX: (818) 768-1409

PAMCO
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<td>NUT, COUPLING</td>
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<td>BUSHING-SCREW THREAD REDUCER, FOR SEAL RING</td>
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<td>AS4346</td>
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**Precision Aircraft Machining Co., Inc.**

Phone: (818) 768-5900  
Fax: (818) 768-1409
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</tr>
</tbody>
</table>

**PRECISION AIRCRAFT MACHINING CO., INC**

PHONE: (818) 768-5900  
FAX: (818) 768-1409
AS4541
ELBOW, 45, BEAM SEAL, MALE 4000 PSI, HYDRAULIC

AS4542
ELBOW, 90, BEAM SEAL, MALE 4000 PSI, HYDRAULIC

AS4660
NUT, SHORT FLARELESS

AS4661
FITTING, ASSEMBLY, CAP, SHORT FLARELESS

AS4662
FITTING, PLUG, SHORT FLARELESS

AS4663
FITTING, UNION, SHORT FLARELESS

AS4664
FITTING, UNION, BULKHEAD, SHORT FLARELESS

AS4665
FITTING, ADAPTER, UNION & REDUCER, SHORT

AS4668
FITTING, UNION, REDUCER, SHORT FLARELESS TO BOSS

AS4680
FITTING, UNION, REDUCER/EXPANDER BULKHEAD

AS4678
FITTING, NUT

AS4681-1
FITTING, UNION, REDUCER/EXPANDER BULKHEAD

AS4681-2
FITTING, UNION, REDUCER/EXPANDER BULKHEAD

PRECISION AIRCRAFT MACHINING CO., INC
PHONE: (818) 768-5900
FAX: (818) 768-1409

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<tr>
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</table>

**PRECISION AIRCRAFT MACHINING CO., INC**

**PHONE:** (818) 768-5900
**FAX:** (818) 768-1409

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<td>FITTING, UNION, SHORT FLARELESS</td>
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AS5002
Fitting, Elbow, 90, Beam Seal

AS5003
Fitting, Tee, Beam Seal, Bulkhead On Run

AS5004
Fitting, Tee, Beam Seal Bulkhead On Side

AS5019
Nut, Bulkhead, Beam Seal Fitting

AS5160
Fitting, Bolt, Flared

AS5161
Fitting, Bolt, Fluid Passage

AS5162
Fitting, Connector, Multiple Fluid Pressure Line

AS5163
Fitting, Connector, Multiple Fluid Pressure Line

AS5164
Fitting, Connector, Multiple Fluid Pressure Line

AS5165
Fitting, Connector, Multiple Fluid Pressure Line Tee

AS5168
Fitting, Plug, Tube End, Flared

AS5169
Fitting, Port Plug And Bleeder

Precision Aircraft Machining Co., Inc

Phone: (818) 768-5900
Fax: (818) 768-1409

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AS5170
Fitting, plug, port, straight thread, O-ring seal

AS5172
Fitting, adapter, port, reducer

AS5173
Fitting, bushing, port, reducer

AS5174
Fitting, union and reducer, flared

AS5175
Nut, coupling, flared

AS5176
Nut, sleeve, flared

AS5178
Fitting, nut, bulkhead

AS5179
Nut, fitting, port

AS5180
Fitting, adapter, bulkhead, flared to hose

AS5181
Fitting, elbow 90, bulkhead, flared to hose

AS5182
Fitting, elbow 45, bulkhead, flared to hose

AS5183
Fitting, adapter, hose to straight pipe

Precision Aircraft Machining Co., Inc
Phone: (818) 768-5900
Fax: (818) 768-1409

PAMCO

When quality and delivery count.
<table>
<thead>
<tr>
<th>AS5196</th>
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NAS1237 - Elbow, Universal 90 Degree - Flareless

NAS1238 - Elbow, Universal 75 Degree - Flareless

NAS1239 - Elbow, Universal 45 Degree - Flareless

NAS1240 - Tee, Universal - Flareless

NAS1761 - Elbow, Reducer, 45 Degree, Flareless Tube to Swivel

NAS1762 - Elbow, Reducer, 90 Degree, Flareless Tube to Swivel

NAS1763 - Tee, Reducer, Flareless Tube to Swivel

NAS1764 - Tee, Reducer, Flareless Tube to Swivel, On Side

NAS424 - Coupling, Tube, Flareless Fitting, Female Thread

NAS551 - Bolt, Universal Fitting

NAS552 - Elbow, Universal 90 Degree

NAS553 - Elbow, Universal 15 Degree

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TEE – PIPE TO TUBE, PIPE THREAD ON SIDE, LIPSEAL
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PK64
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PK65
ELBOW, REDUCING, 45°, LIPSEAL
PK77
UNION, TUBE, LIPSEAL ON ONE END

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PRECISION AIRCRAFT MACHINING CO., INC
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NUT, PLAIN, HEXAGON-JAMNUT, LIPSEAL.

PK910
ADAPTER, PIPE TO TUBE, FEMALE PIPE END, LIPSEAL.

PKSP24
TEE, BULKHEAD ON SIDE, FLARED, LIPSEAL.
References
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AS9100 CERTIFIED
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** RELEASE PENDING

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Master List of Basic AN, MS, NAS & AS Numbers
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