

INTRODUCING PRODUCTION ENGINEERING CORPORATION 2013

A FORMULA FOR SUCCESS

Production Engineering Corporation

Business Overview

- Precision Contract Machining & Assembly
- Established in 1957
- Privately Held Corporation
- Financially Stable
- \$12 Million Annual Sales 2012
- 68 Employees
- State of the Art 66,000 sq. ft. Facility
- Diverse Industry & Customer Base
- ISO 9001-2008 Certified
- AS9100C: 2009 Certified
- ORI Certificate A0002893-1
- ITAR Registered
- MRP & Business Systems – Job Boss





Production Engineering Corporation


Business Mission/Definition

- Services Contract Repetitive Batch and Continuous Run Machining, Assembly, Finishing, Welding, Supply Chain Management.
- Product Precision, Close Tolerance CNC Horizontal & Vertical Milling, Sheet-Metal and Weld Fabrication
- Raw Material Aluminum Plate, Aluminum and Steel Castings and Forgings, Stainless Steel, Gray and Ductile Iron, Specialty Steels, Plastics.
- Quantity Repetitive Batch & Continuous Run High Mix, Low Volume and High Volume Production



Production Engineering Corporation

Program Management Strengths

- Our program managers help avoid confusion, unknowns along the way to delivering a finished product that is cost effective, per print and on-time .
 - Experienced technical program managers provide a single source of contact with the clear path to critical information.
 - One phone call connects our customers to timely, accurate updates and answers to questions about quality, pricing, specifications, production, delivery and more.
 - Program managers offer expertise and insights that add value and keep the promise of our customer first philosophy.
- 

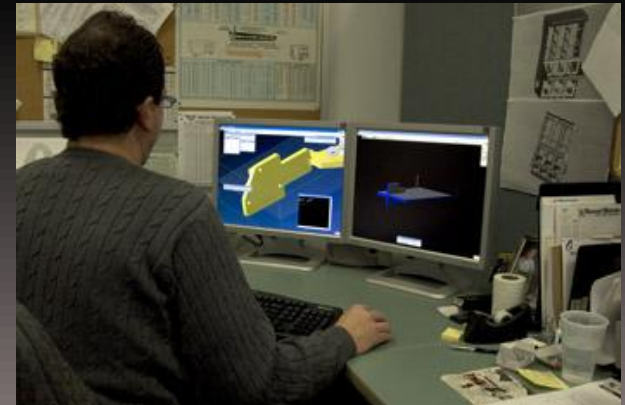
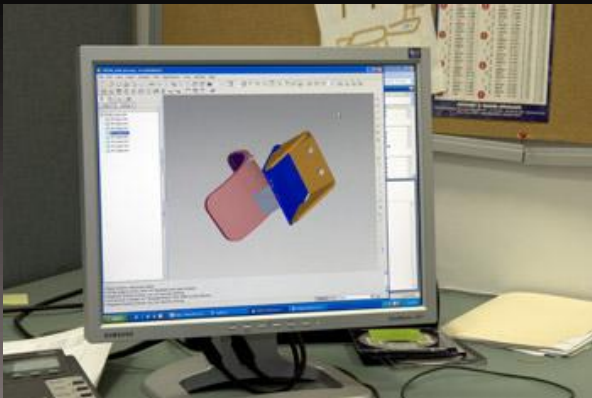
Production Engineering Corporation

Engineering Strengths

PEC Engineering-driven process is designed to identify potential efficiencies in design, materials and finishing.

We employ a team of highly skilled and experienced machinists to translate each design into accurate components.

PEC continually invests in the industry's finest equipment and a climate-controlled facility designed to support every phase of the process, from prototyping / R&D to LRP to FRP and importantly on-time delivery.



Production Engineering Corporation Engineering Strengths

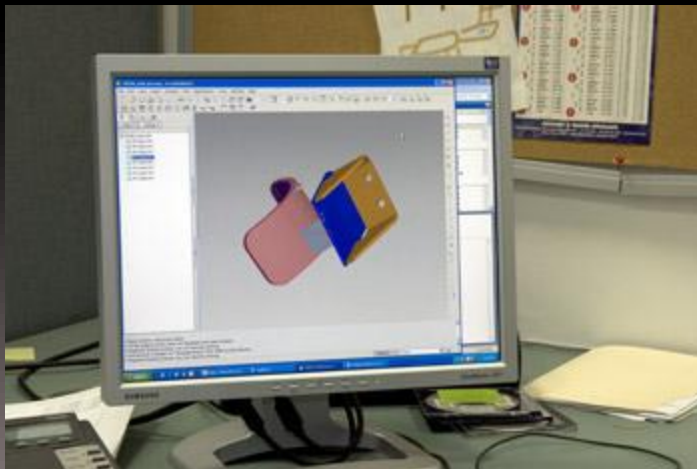
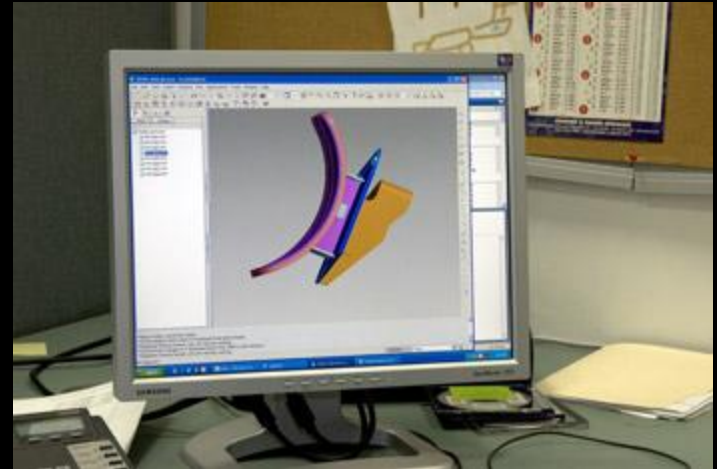
PEC Welcomes Concurrent Engineering

Pro/E Design – Review Cad /Cam

Virtual Gibbs/Programming

IGES-DXF Input / Output

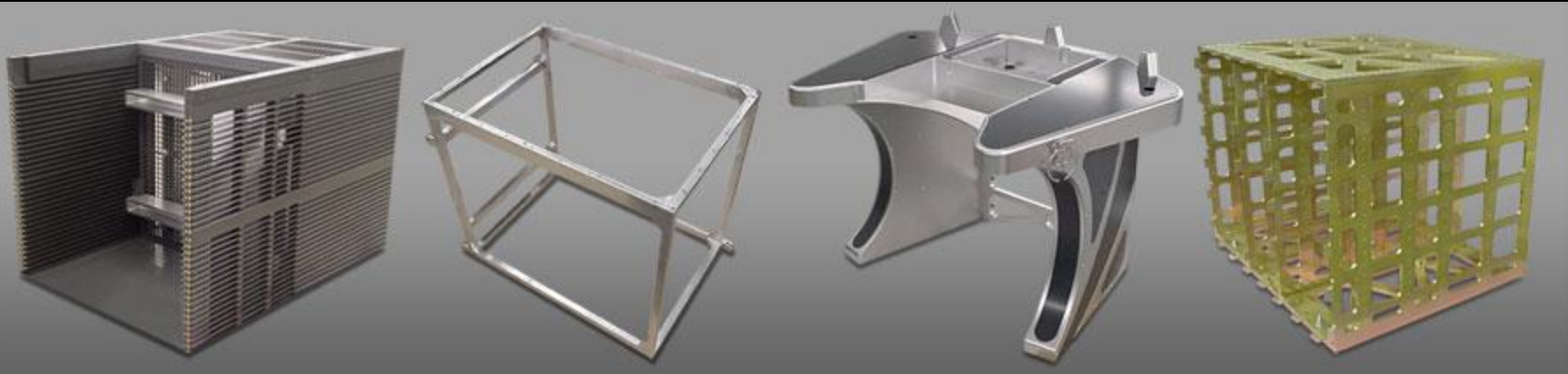
FTP capabilities



Precision components manufactured by **Production Engineering Corporation** are in use on Defense Aircraft, Naval ships, Communications Systems, large equipment, and many more.

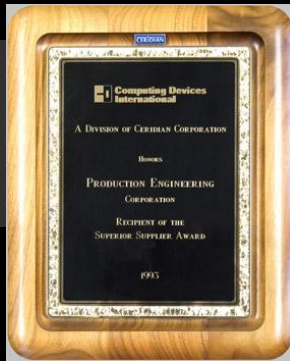
Our unique capabilities to machine and assemble large components make us a valuable resource for many industries.

Our commitment is to providing only the best products and components through continuous improvement and lean manufacturing philosophies.

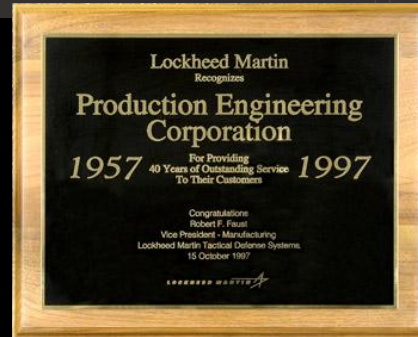


Industry Recognition

Awards



Computer Devices International
Superior Supplier Award



Lockheed Martin 40 Years of Outstanding
Service

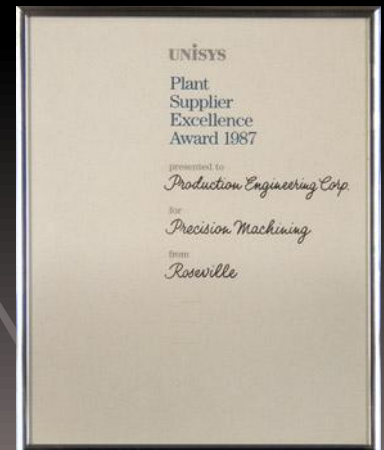


Unisys Metal Fabrication Supplier
Excellence Award



Lockheed Martin Star
Supplier Award

Unisys Plant Supplier Excellence
Award



Unisys Supplier
Excellence Award

Diverse Customer Base

BAE SYSTEMS



**Rockwell
Collins**

LOCKHEED MARTIN



Honeywell

GENERAL DYNAMICS
Strength on Your Side™

3M

IBM



Parker | Chomerics

CRAY
THE SUPERCOMPUTER COMPANY





Production Engineering Corporation Strategic Vision

- Focused Growth Strategy with Customers that are Leaders in their Industries
- Long Term Customer Relationships
 - ▣ Contribution to Your Success
 - ▣ Services of Highest Value
 - ▣ Open Communication
 - ▣ Earned Trust & Respect
 - ▣ Cost Share Incentives
 - ▣ LTA
 - ▣ MOA
- Become “The Supplier of Choice”
 - ▣ Capable, Committed, Competitive



Our Core Beliefs and Values

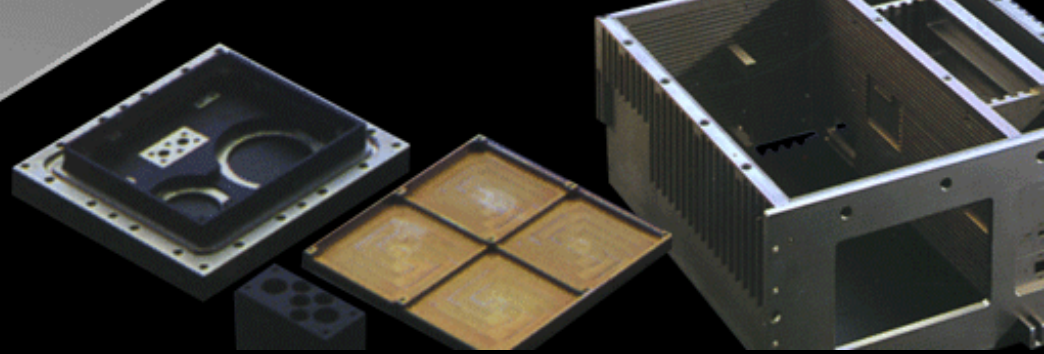
- Be Flexible and Responsive
- Be Demand Driven and Flexible
- Be Lean
- Continually Invest in the Business
- Listen to your Customers
- Be Accessible to your Customers
- Build the Overall Organization
- Build Close, Long Term Relationships
- Learn your Customers' Industry



Production Engineering Corporation Assembly

Production Engineering Corporation provides complex electro mechanical assemblies. Our industry knowledge allows us to assemble a variety of manufactured components. Our customers advantage is a single source solution for manufactured product, finishes and assembled components.





Production Engineering Corporation Equipment

Production Engineering Corporation NC CNC Equipment

2-DMG 200 P Full 5 Axis Machining with 75" x 80" x 43" Work Envelope with 10 K RPM Spindle

1-DMG 125 P Full 5 Axis Machining with 49.2" x 39.4" x 39.4"

Work Envelope with 10 K RPM Spindle

1-DMF 250 Linear 5 Axis 36" x 98.4" Table 10,000 RPM Spindle

3-DMC 1035V 22" x 41" Table 10,000 RPM Spindle

1-DMF 360 Linear 5 Axis 36" x 142" Table 10,000 RPM Spindle

1-Makino A88 with 12K RPM Spindle with 31" x 35" x 38" Work Envelope

1-OKK VM 900 37" x 81" travel with 12 K RPM Spindle

2-Matsurra MC 2000 V with 30" x 80" x 30" travel

2-Matsurra MC 1500 V with 30" x 60" x 30" travel

1-Monarch VMC 150 with 36" x 76" table, 44" Z axis and 10K rpm spindle

1-HASS VF6 with 30" x 60" table and 10K rpm

1-Matsurra MC 1000V

4-Matsurra MC 760V

3-Matsurra MC 600H

1-Toyoda FH 55

Renishaw Metrology Probes



Production Engineering Corporation Welding

- 3-Miller Dynasty 700
- 3-Miller Aerowave
- 2-Miller Syncrowave
- 1-Miller Alumapower
- 1-ESAB Multimaster 260 & Migmaster 2
- 1-Miller Phoenix 456 CC/CV with a D-64M Series Wire Feeder
- 1-Miller Maxtron 450 CC/CV with a S-64M Series Wire Feeder
- 1-Pana Robo VR-All Welding Robot with a HM-350 Dip Pulse Mig-Power Source (2 station - 50" swing dia. & 96" dia. work envelope)
- 1-Lincoln Power MIG 300
- 1-Lincoln Power MIG 350
- 1-Cobra-mig 260



Production Engineering Corporation Welding

PEC Certified Weld to Specs;

Mil-Std-2219

S9074-AQ-GIB-010/248

Mil-W-21157

Mil-W-8604

Mil-W-8611

Mil-Std-248

Mil-Std-1595

AWS D1.1

AWS D1.2

AWS D1.6

AWS D9.1

AWS D17.1

WS19143

WS19181

Mil-W-6858



Production Engineering Corporation Inspection Equipment

1-Sheffield RS150 High Accuracy CMM (40" x 80" x 40")

2-Mitotoyo CMM (7' x 3'6", 5' x 4')

2-Trimos 40" Digital Readout Height Gage

1-Mitotoyo Optical Comparator

1-Mitotoyo Tool Makers Microscope

All standard plug gages, thread gages, radius gages, etc.

12-Calibrated Surface Plates



Production Engineering Corporation Sheet-Metal Equipment

- 1-Amada AE255 CNC Turret Punch Press
- 1-Strippit Super 750SG With 30" x 72 " Travel
- 1-Boschert Hyd. Notching Machine
- 1-Timesaver Model #137M
- 1-Carborundum Straight-line Sander
- 1-Pines Tube Bender 16ga MAX
- 1-Pexto 3' Power Roller
- 1-10' Niagara Shear 3/16" Max CRS
- 1-6' Niagara Shear 1/4" Max CRS
- 1-10' Niagara Press Brake with Hurco Auto-Bend
- 1-AMADA FBD 1025EX8' Hydraulic Press Brake with 3-Axis N/C Gauging System
- 1-8' Dreis & Krump Press Brake Hurco Auto-Bend
- 1-6' Dreis & Krump Press Brake
- 1-4' Dreis & Krump Press Brake
- 3-4' DiAcro Press Brake with Auto Gauge





EXCEL Metal Finishing

a division of

Production Engineering Corporation

Excel Metal Finishing is a military, aerospace and defense approved Paint Facility. Excel specializes in Mil-Spec coating applications and finishes. Excel Metal Finishing meets current governmental and military requirements for many pre-treat and coating specifications.

Excel Metal Finishing specializes in processing parts requiring extended corrosion protection, complex masking, special handling.

Excel Metal Finishing continues an excellent reputation for uncompromised quality while providing our customers a single source solution for complete finishing needs.



EXCEL Metal Finishing Continued

11,000 SQ FT Located at 2501 Winter Street N.E. Minneapolis, MN 55413 612-331-8338

- Paint Types
 - Epoxy
 - Polyurethanes
 - Alkyds
 - Water Borne
 - Acrylics
 - Texture and Smooth
- Booth Size
 - 10' Wide X 8' High X 6' Deep
 - 4 Booths
- Bake Ovens
 - 3 Individually Gas Controlled
 - 10' X 8' X 5'
- Phosphate System
 - Zinc (TT-C-490)
 - 5- Stage
 - 6 ½ ' X 5' X 4' Still Tank
- Chromate System
 - Clear and Yellow
 - Mil-C-5541 Class 1A & 3
 - 6 ½ ' X 5' X 4'



EXCEL Metal Finishing Continued

Mil Specs Paint To

- MIL-PRF-22750
- MIL-DTL-53039
- MIL-DTL-46168
- MIL-DTL-5541 TYPE I
- MIL-PRF-83286
- MIL-PRF-85285
- MIL-DTL-15090
- MIL-DTL-24635
- MIL-L-23398
- MIL-L-46010
- MIL-PRF-23377
- MIL-PRF-23236
- MIL-P-24441
- MIL-DTL-53022
- MIL-DTL-53030
- MIL-PRF-85582
- TT-C-490 ZINC PHOSPHATE
- TT-E-527
- TT-E-529
- TT-P-1757
- TT-P-645
- TT-P-664
- MIL-STD-171
- MIL-F-18264
- MIL-DTL-14072
- MIL-DTL-53072
- MIL-HDBK-2036A



EXCEL Metal Finishing a division of Production Engineering Corporation

Sample Customer List



BAE SYSTEMS





EXCEL Metal Finishing

Contact

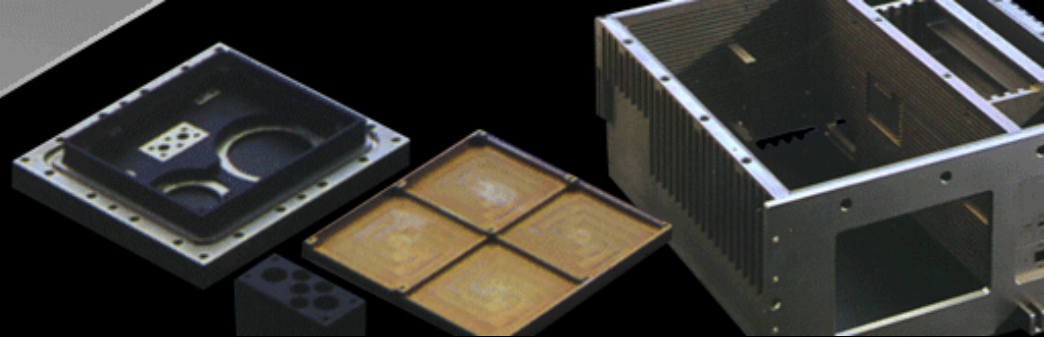
Robert Kiltie

Division Manager

Excel.Bob@fishnet.com

612-331-8338





Thank You

Lars Ossmo

Business Development Manager

Production Engineering Corporation, Inc.

3515 Marshall Street NE

Minneapolis, MN 55418

Lars.Ossmo@pecorp.net

Bus. 612-788-9123

Cell 952-456-1216

Fax 612-788-0472

WWW.PECOPRP.NET