

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

ORT-E

A turn-key Engineering
Based Manufacturer
and systems integrator.

- Ground Support Equipment
- Test equipment
- Jigs & Fixtures
- Welded Structures
- Work Stands

1000 Clearview Court
P.O. Box 4458
Oak Ridge, TN 37831-4458

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

- Native American Indian Owned and Operated Small Business.
- Founded in 1962.
- 2005 Upgraded to a new 104,000 Sq. Ft. Facility on 42.5 Acres.
- Diversified Corporation.

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

WELDING

NDE

Services

Materials

Steel

Aluminum

Stainless Steel

Invar

Processes

GMAW

GTAW

Seam Welding

Spot Welding

Visual

Dye

Penetrant

Magnetic

Particle

Radiography

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Products & Services

- Aerospace Tooling
- Engineering/Mfg/Install
- NC Programming
- 3- and 4-Axis Machining
- Complex Assemblies
- Ground Support Equipment
- Structural Fabrication
- Field Installation & Inspection

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Tooling

- Master or Assembly Jigs & Fixtures
- Plaster Masters, Molds & Laminates
- Drill Jigs & Templates
- Work Stands & Platforms

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Automated Inspection Equipment

- Mitutoyo BHN 710 CMM
- Mitutoyo BHN 1325 CMM
- MCOSMOS-C3 Inspection Software

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Mitutoyo BHN 1325 CMM



Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Machined Parts Precision Alignment Tray



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Engineering Systems & Services

Jigs & Fixtures Alignment fixture



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Engineering Systems & Services



Delta IV 5 Meter Payload Fairing
Reusable Shipping Container

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services



Inside view of Delta IV PLF Reusable
Shipping Container

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Assemblies

- Mechanical
- Electro-Hydraulic
- Airframe
- Sheet Metal
- Composite

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

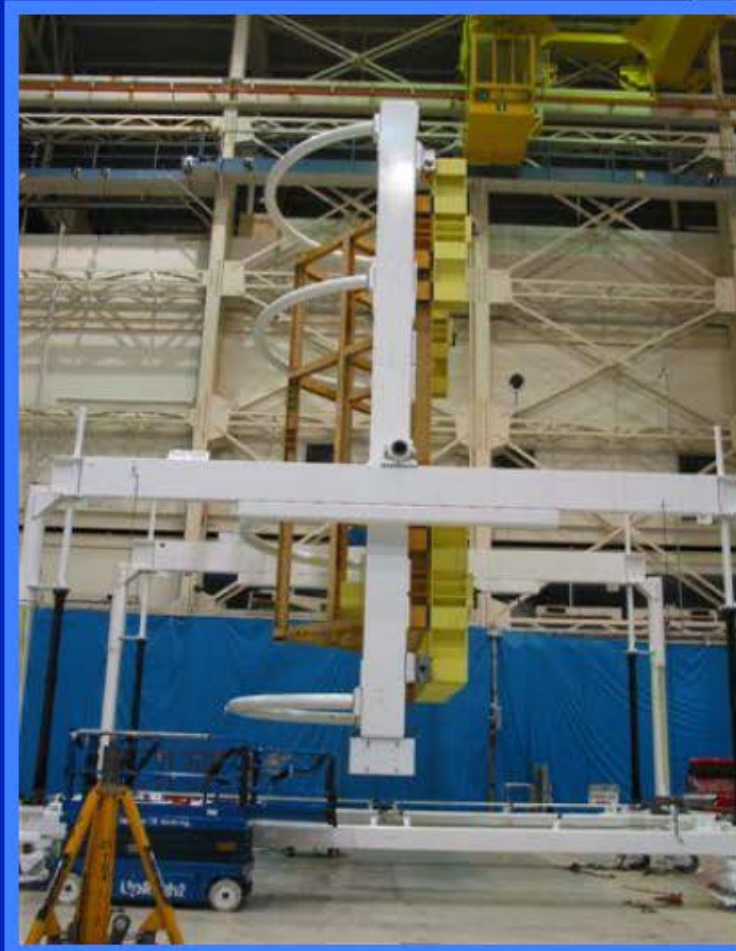
Major Assembly Tooling Mass Simulator



Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Major Assembly Tool Cont.



Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

300 T Hydraulic Shear



Oak Ridge Tool Engineering, Inc.

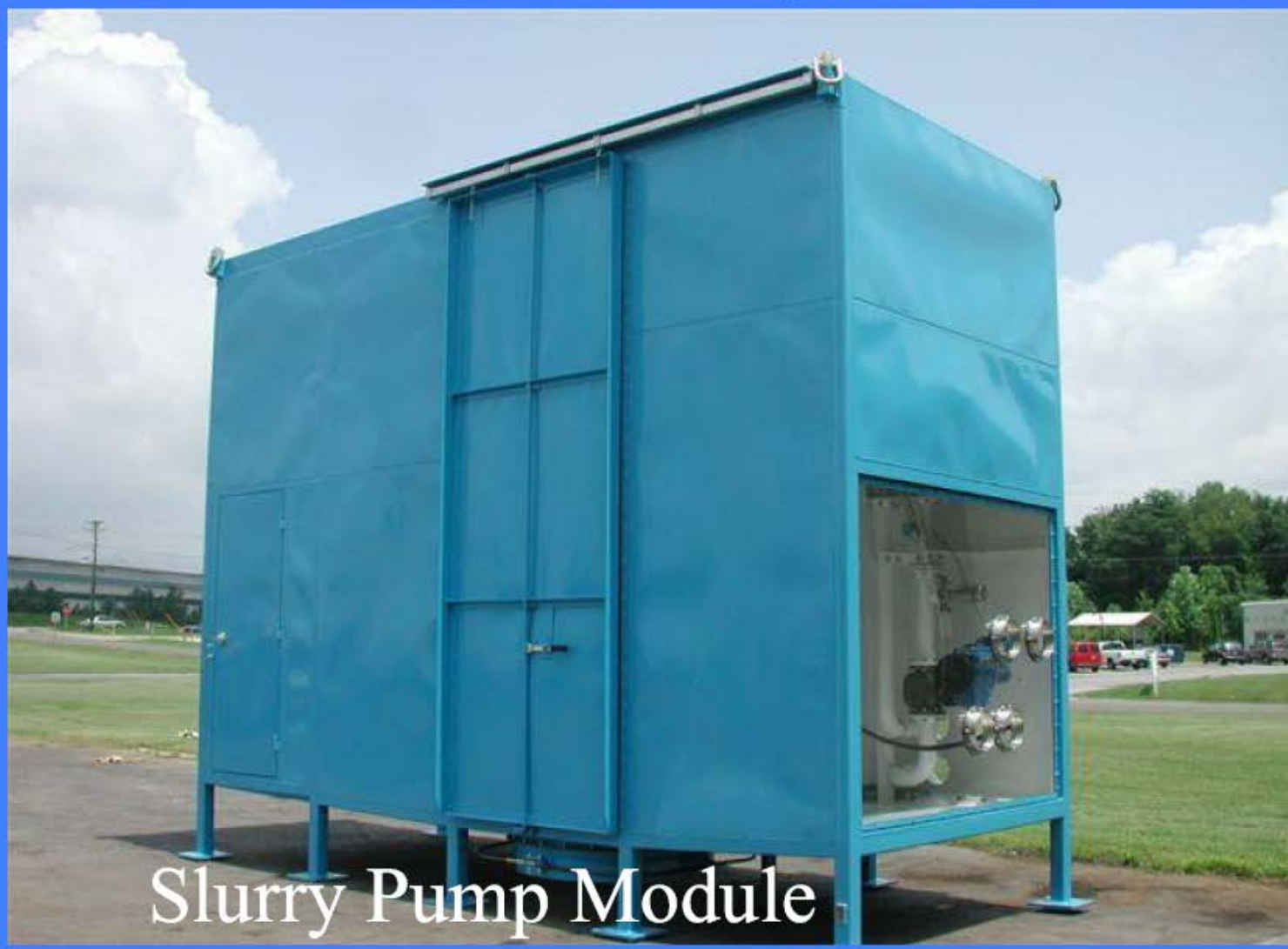
Engineering Systems & Services



FMPC Sluice Module

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services



Slurry Pump Module

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Fabrication

- Jigs & Fixtures
- Work Stands
- Structural Fabrication
- Ground Support Equipment
- Assembly/Sub-Assemblies (Metallic & Composites)

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

- Conventional Measuring Devices
- Coordinate Measuring Machines
- Laser Tracker Inspection Services Available
- Certified QMS and Welding Program

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Quality Certifications

- AS9100D and ISO 9001-2015
- Nadcap Certified for Fusion Welding

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Engineering Systems & Services

Quality Assurance Area

Technicians align critical space station components for assembly using a state-of-the-art laser tracking system.



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Engineering Systems & Services

New Facility



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Engineering Systems & Services

Field Service

- Preventive Maintenance Programs
- Emergency Repairs & Troubleshooting
- Installation & Start-Up
- Laser Tracker, Optical Alignment

Oak Ridge Tool Engineering, Inc.

Engineering Systems & Services

Summary

- Customer Focused
- Engineered to Perform
- Quality Driven
- Delivery Schedule Committed

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