

ONExia Aerospace

Flexible Tooling for Automation

ONExia has specialized in precision positioning and customized automation for over 25 years. One of our more innovative solutions is the Universal Holding Fixture used in composites manufacturing.

This flexible tool approach adds to our customer's bottom line through reduced tooling costs, reduced storage, quick changeover from part to part, higher throughput, and efficient space utilization.



The Universal Holding Fixture is Available in Single & Multi Table Designs

Flexibility

- Custom Table Sizes for Any Part Size
- Single Table Versions for Small Parts Handling
- Multi Table Versions for Large Skin Support
- Any Rod Configuration - Only Critical Contact Points Require Rods
- Rods Can be Added in the Future or Moved from Point to Point Depending on Your Needs
- Can be Sealed for Water Jet Cutting
- Various Rod Travel Lengths Available
- Rigid Enough for Routing & Drilling



Aerospace & Composites

The world-class Engineers at ONExia have made breakthroughs in the world of Aerospace technologies. Our custom assemblies provide our clients with invaluable solutions to many industrial issues.

ONExia Aerospace Products

- Laser Light Towers
- Rotor Blade Carts
- Universal Holding Fixtures
- Tooling Carts
- Vacuum Tables
- Custom Machine Systems

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UHF Applications

The ONExia Universal Holding Fixture provides complete composite part support for:

- Finishing Machining
- Water Jet Cutting
- Routing

Ease of Use

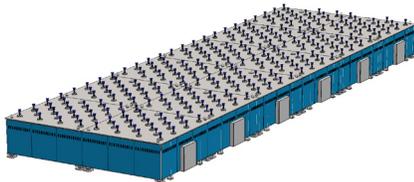
Composite parts are held in the correct, precise shape required to perform finishing operations, without the use of dedicated tooling for each part. Changeover from part to part happens in seconds, rather than minutes. Our intuitive software allows parts to be taught easily. Our UHF Controller communicates with the cell controller to lower and raise rods as the part is being machined.



Additional Styles

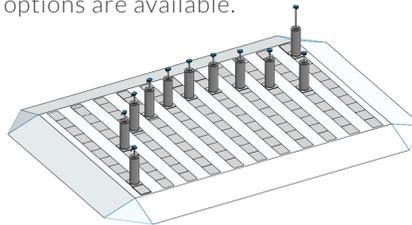
Large Multi Table Unit

Our Universal Holding Fixture Tables can be configured to fit any part regardless of size.



Adjustable Sliding Rod

For situations where the rod position needs to be changed on the fly slider options are available.



UHF Rod Components

End Effector

- Precision Stainless Steel End Effector with Vacuum Cup

Bellows Cup

- Protect rod from grit and water from routers or water jet cutting

Precision Flange

- Mounts to various table formats and secured with SST hardware

Precision Actuator

- Ball screw driven rod style

Integrated Servo Motor

- Servo motor, controller, amplifier, and encoder



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