

**OPTIONS**

- Automatic repositioning software integrated with TORRESMILL® or TORRESLASER®
- Multipart set up software
- Absolute positioning system



**OPTIONS**

- Part automatic searching
- Vacuum level control
- Special attachments and cups to fixture complex surface components



# TORRESTOOL®

## Multiflexible Universal Holding Fixture

The TORRESTOOL® is a modular concept consisting on a number of carriages that move on the X-axis direction, with a number of supports per carriage, that move on the Y and on the Z axes under a computer program instructions.

Each support rod has a self-adjusting 45° tilting capability vacuum holding cup on the top. In certain applications a part clamping device is set up on top of the rod instead.

The TORRESTOOL® is controlled from a PC where all part programs are downloaded from, into the MTORRES developed multiaxes control system to trigger the TORRESTOOL® repositioning process.

All supports rods move simultaneously in X, Y, Z axes and are automatically locked in their final position. All motions are servo driven and NC controlled. Ground guide ways, rack and pinion and ball crews systems are used to drive the axes.



By integrating the TORRESTOOL® with the TORRESMILL® or TORRESDRIL or TORRESLASER®, the system provides the highest degree of flexibility on their milling, drilling or laser cutting operations, reducing change over time from one part configuration to next to a maximum of two minutes. All supports rods with vacuum cups or clamping devices move simultaneously in the X/Y/Z axes and are automatically locked in their final positions.

TORRESTOOL® Universal Holding Fixtures are available in different design configurations, horizontal, vertical, round, 3 Axis, single axis, etc, and in any required size to be integrated with other MTORRES machines.

**The TORRESTOOL® is a Multiflexible Universal Holding Fixture specially designed to support in space aircraft structural components, while they are machined or laser cut.**

The TORRESTOOL® has a sophisticated built in executive software package (HMI) to allow an extremely easy machine operation, as well as its maintenance, providing self-diagnosis routines etc.

Applications are machining, assembly, laser scribing, etc.

