

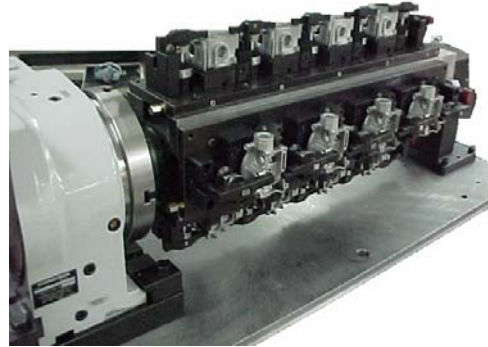
HJ Engineering, Inc.

The # 1 Stop for Custom Workholding

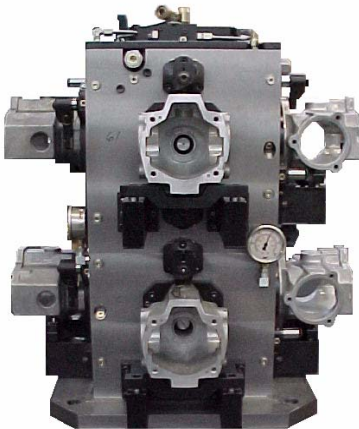
Custom Designed and Manufactured Workholding Solutions

Horizontal Indexing Trunnion:

Multiple Fixtures can be mounted on each of the four sides allowing machining access to three sides of the workpiece. The trunnion may be manually or automatically indexed by the machine control. Hydraulic clamping can be build into the workholding system. Virtually all types of vertical machining centers can accommodate the horizontal indexing trunnion.



Hydraulic operated trunnion fixture with internal plumbing for easy chip evacuation.



Hydraulically operated four sided tombstone with internal plumbing to reduce chip traps.

Tombstone Fixtures:

Tombstone Fixtures are designed to hold multiple parts per side for first and secondary operation on horizontal machining centers. Hydraulic clamping can be build into the workholding system. This design provides a high degree of rigidity and stability, allowing increased speeds and feeds.



Hydraulic operated clamping fixture with two "Op. A" & two "Op B" workpieces.

HJ Engineering, Inc. specializes in the design, engineering and manufacturing of custom workholding fixtures. This includes manual, pneumatic, hydraulic, 4th. and 5th. Axis fixtures for horizontal and vertical machining centers.

- In-house design capability
- Latest Autocad release
- C.A.D concept drawings for approval process
- Two Pro Engineer stations available for 3D design
- Drawings as electronic files available
- All fixtures are tested with customer part
- All fixtures are inspected

HJ Engineering, Inc.

1826 E. Willow Tree Court, Gilbert, AZ 85234, Tel: 480-503-0978, Fax: 480-545-4404

E-mail: hjengineering@cox.net