

### **The Finest Machine Tools**

IL - (630) 321-1500

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# Did You Know?

## **Standard Control Features on Enshu Horizontals**

ENSHU pallet-changing Horizontal Machining Centers are built to last, with 5,000 Hours Mean Time Between Failure. The following control features standard on ENSHU contribute to speed, reliability, and long term accuracy.

### Manual Operation of Automatic Pallet Changer

This feature allows an operator to rotate the pallet shuttle by hand to easily clean, maintain, and check fixture clearance safely while pallets exchange.

- 1. Select Manual Mode
- 2. Select desired pallet using the APC Drive Switch
- 3. Press 'APC Drive' button to step through pallet change
- 4. Release the 'APC Drive' button at any time to stop that operation, and press again to resume operation.

Interested in learning more about Enshu?

### **Tool Change Arm Recovery**

If the tool change arm is interrupted, there are two recovery methods:

Automatic and Manual. For Automatic, select 'MDI Mode' and enter M180.

#### Manual Tool Change Recovery:

- 1. Select Manual Mode & MAINT Mode from control panel
- 2. Press CUSTOM soft key and navigate right to MAINTENANCE
- 3. Press MAINTE MANUAL & ATC MANUAL soft keys
- 4. From "ATC MANUAL OPERATE" screen, locate desired function and press FUNC.START button.

Check out this awesome Enshu video...

#### **Butt-Type Zero Return Setting Procedure**

If motors, ball-screws, or ball-screw support bearings have been changed, or a collision occurred, or the ABS battery has depleted; use this procedure to set home position. Make sure the path is clear prior to executing:

- 1. On desired axis, ZERO RETURN REQUEST alarm should be present, set parameter N1815.4 to 0 and cycle power on/off to generate alarm
- 2. Axis motion is required before continuing, move it a few inches and cycle power off/on. Repeat this step if necessary
- 3. Select ZERO RETURN mode and move axis towards home
- 4. Select desired axis on handle pendant, hit CYCLE START
- 5. Check that home position alignment marks are aligned
- 6. Perform tool change in MDI Mode with no tools to verify

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