

## General

Suitable for aluminum, brass, mild steel, wood  
 Spindle supported by precision tapered roller bearings  
 Hardened, ground dovetail ways  
 Anti-backlash ball screws on both axes  
 Adjustable tailstock  
 All cables and power supplies included

## Safety Features

Fully enclosed work area with polycarbonate shield & full safety door interlock  
 Door cannot be opened while spindle is on  
 Spindle cannot be turned on while door is open  
 Emergency Stop Button  
 Emergency program stop from keyboard  
 Toolpath view/confirmation from screen

## Mechanical

|                             |              |
|-----------------------------|--------------|
| Swing over bed              | 9 in.        |
| Swing over cross slide      | 4 in.        |
| Distance between centers    | 20 in.       |
| Hole through spindle        | 25/32 in.    |
| Spindle taper with sleeve   | MT-3         |
| Carriage travel (z-axis)    | 15 in.       |
| Cross slide travel (x-axis) | 4 in.        |
| Max tool size               | 1/2x1/2 in.  |
| Tailstock travel            | 1.5 in.      |
| Tailstock taper             | MT-2         |
| Ball screw pitch            | 2.5 mm.      |
| Position resolution         | .000025 in.  |
| Feed rate                   | 50 in./min.  |
| Rapid travel                | 200 in./min. |

## Axes Motors

|               |             |
|---------------|-------------|
| Type          | Servo       |
| Drive         | Servo       |
| Resolution    | .000025 in. |
| Repeatability | .0005 in.   |

## Standard Equipment

7" 4 jaw chuck  
 3" 3 jaw chuck  
 Manual quick change tool post  
 2 dead centers  
 1 live center  
 Tail stock  
 Drill chuck  
 Tool box and tools



## Spindle

|                          |                     |
|--------------------------|---------------------|
| Spindle RPM              | 0-2000 RPM          |
| Spindle Speed increment  | 1RPM                |
| Spindle Speed adjustment | software            |
| Spindle motor            | 3/4 HP AC brushless |

## Electric

|       |                                  |
|-------|----------------------------------|
| Power | 120VAC/800W<br>220VAC (optional) |
|-------|----------------------------------|

## Software

Fanuc compatible standard G-Code  
 MDI capable  
 Incremental/Absolute  
 Imperial/Metric  
 Fixed hard home sensors on all axes  
 Toolpath preview  
 Unlimited program size  
 Linear/Circular interpolation  
 Continuous/Incremental Jog  
 Programmable feed rate  
 Programmable spindle speed  
 CAD/CAM compatible  
 Spindle RPM override  
 Feed-rate override  
 Resume after pause  
 Automatic tool offset touch probe

**Metal Lathe Part Number:** HX32VBMEL10103

**Lathe Stand Part Number:** HX3500-EL10102

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