

# ICON+TECHNOLOGIES

ADVANCED MACHINING SOLUTIONS  
A Division of Hydromat Inc



*Introducing the*

# ICON6+150

**The Ultimate in Productivity and Flexibility**

**Versatile System For Increased Production**

**Engineered For Maximum Output In A Small Footprint**

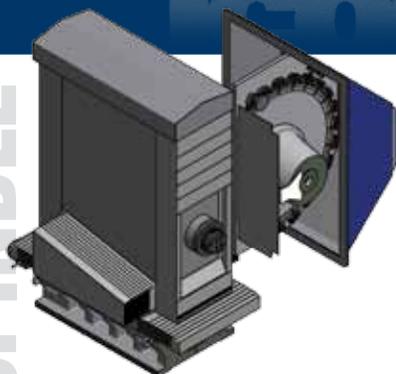
**Rapid Tool Changes At All Stations**



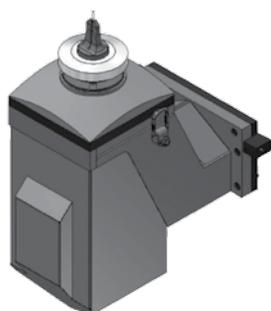
**HYDROMAT**<sup>®</sup>

[icon.hydromat.com](http://icon.hydromat.com)

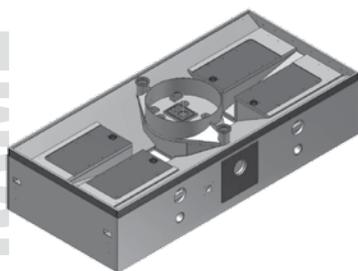




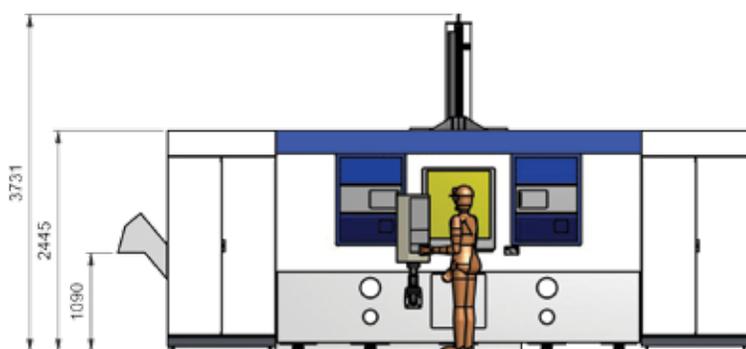
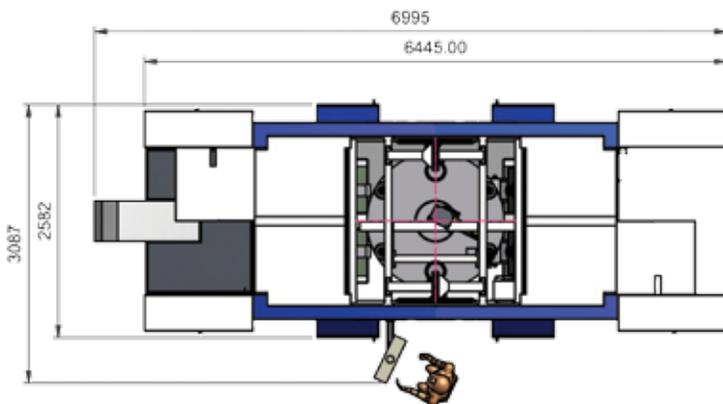
Each ICON 6-150 machining module is equipped with one (1) 42,000 RPM motor spindle. All spindles are a cartridge design and can be installed to any of the four (4) possible machine locations. They are air purged, liquid cooled and are permanently grease lubricated and therefore virtually maintenance free.



Included with the machine are four (4) CNC Rotary Tables. These tables are installed on stations 2, 3, 5, & 6 and have a position accuracy of +/- 4 seconds. Each table is equipped with a zero point clamping system, made by EROWA in Switzerland, to securely and accurately clamp the base pallet to the table. The positional repeatability of these pallets is less than 0.002 mm.



The Machine frame is designed as a sturdy, welded, steel construction. It supports the indexing table, the four (4) machining units as well as the B-tables. The openings below the machining stations assure an optimal evacuation of coolant and chips from the working area. Individually arranged and controllable coolant nozzles are installed inside of the machine frame for the purpose of providing coolant to the cutting tools and preventing chip accumulation inside the machining area.



## SPECIFICATIONS

- Approx. Stroke in mm:** 190x250x250
- Rapid Speed:** 40 m/min max. (131 ft / min)
- Axis Construction:** Ball Screw
- Toolchanger Capacity:** 16 Pockets
- Tool Length:** 140 mm (5.5 in)
- Tool Diameter:** 45 mm (1.8 in)
- Tool Weight:** 4 kg (8.8 lb)
- Spindle Performance:** 42,000 RPM (60,000 & 20,000 RPM Optional)
- Spindle Interface:** HSK- E40 (E32 Optional)
- Spindle Power:** 20 kW(27 HP) S6 40%
- Spindle Torque:** 4.6Nm (3.5ft-lbs) S6 40%
- NC Table Rotation:** 360.000x0.001°
- NC Table Indexing Time 180°:** 1.5 Seconds
- Max Pallet Payload:** 25 kg (77 lb)
- Approx. Table Index Time:** 3.5 Seconds