



## The Ultimate Productivity Center, The ICON 6-250.

**Up To Eight Tools In The Cut At Once**

**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**

Highly productive and flexible machining center for part sizes from a 2" cube to an 10" cube

Four horizontal machining units and four vertical machining units on all fully equipped ICON 6-250 Machining Centers

8 machining units with tool changers, fully equipped for specific applications

6 stations with integrated pallet changers

5 side machining with 4 axis interpolation

Fanuc CNC 30i controller as standard equipment

Load station designed for manual or robotic production configurations

Idle station for re-clamping or gauging processes

Heavy duty self-supporting machine base and frame weldment. No foundation required

Approximate space requirement 10' X 33' footprint with a 12' height requirement

Approximate power consumption 350 KW

Machine coolant is water soluble

Engineered And Built For Extreme Accuracy

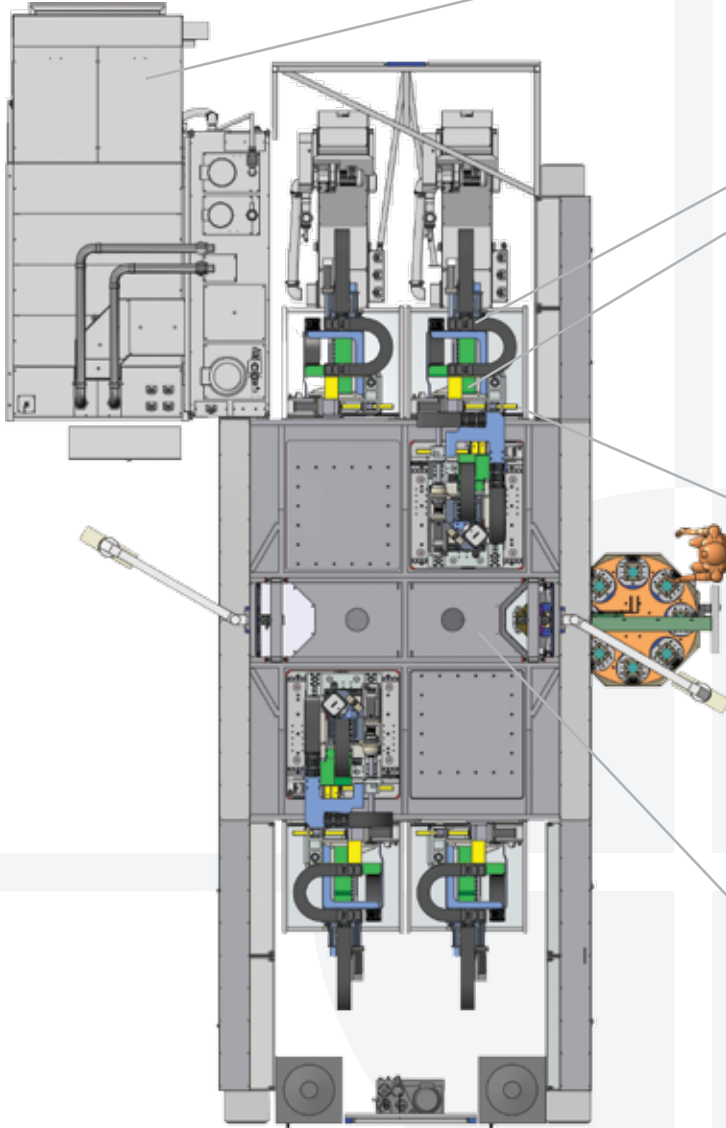
300 mm diameter Pallet System

Universal platform for clamping elements

Part clamping: hydraulic or mechanical



# ICON 6-250 Specifications



## Coolant System

Coolant tank: 1200 gallons  
Filtration system with vacuum, self cleaning  
Low pressure coolant 2.5 bar  
Medium pressure coolant 30 bar  
High pressure coolant 80 bar (Optional)

## 3-Axis Machining Module

### Integrated Spindle Motors:

Water Cooled  
Power @ 40%: 36 kW  
Torque @ 3,500 /12,000 RPM 98 / 29 Nm

### Spindle Performance:

Spindle RPM: 12,000 max  
Acceleration: 1.0 sec. to 12,000 RPM  
Spindle Bearing Size: 70mm

### Optional Spindle RPM:

8,000 RPM Max: 36 kW  
24,000 RPM Max: 48 kW

### Massive Pre-Tensioned Ball Screws:

X Axis: 40mm X 10mm Pitch Double Lead  
Y Axis: 50mm X 20mm Pitch  
Z Axis: 40mm X 10mm Pitch Double Lead

### Machining Stroke & Force:

X Axis: 300mm @ 22 Nm  
Y Axis - 300mm @ 30 Nm  
Z Axis - 375mm @ 22 Nm

### Size & Weight:

X Slide: 630mm X 840mm  
Y Slide: 570mm X 540mm  
Z Slide: 250mm X 250mm  
Weight: 1200 kg

## Pallet Changer

Integrated electromechanical system, cam operated  
Amount of pallets: 6  
Pallet changing time 4.5 seconds  
Max. Pallet Load: 140 lbs each

## Tool Changer

Tool head receiver: HSK63  
10 tool positions  
Chip to chip in 2.8 seconds  
Maximum tool length: 250mm  
Maximum diameter: 125 mm  
Maximum tool weight: 15 lbs

## Loading Station

Manual or Robotic

## Index Drives

Amount of Index drives: 4 positions  
Index speed 1.8 seconds for 180°  
Index accuracy +/- 4 sec.  
Integrated control pivot includes:  
3 hydraulic clamp circuits, 1 hydraulic  
return, and 1 airburst

