

ICON 4-250 Mill/Turn

FLEXIBLE 5-AXIS 4-STATION MACHINING CENTER

Machine Specifications

Transfer Table

Rotation: 4 x 90° Index
Index Time: 1.5 seconds
Rotary Table: CNC 2-Axis (4 Positions)

3 Automatic Tool Changers

Tool head receiver: HSK63
35 tool positions per changer
Tool Change Time: 1.2 seconds
Maximum tool length: 300 mm (12 in)
Maximum diameter: 130 mm (5 in)
Maximum tool weight: 15 lbs

Controls / Voltages

Control: Fanuc 30i
Main Voltage: 480V @ 60 Hz

Loading Station

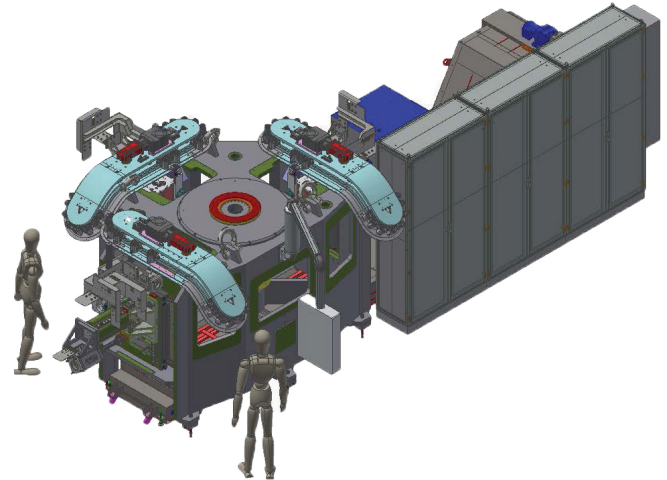
1 Load/Unload Station
Manual, Semi-Automatic or Robot Load

Coolant System

Knoll Base Model Hinge Band with VRF and KTS Pump.
Optional Fine Filtration and HP-Coolant Upgrades Available

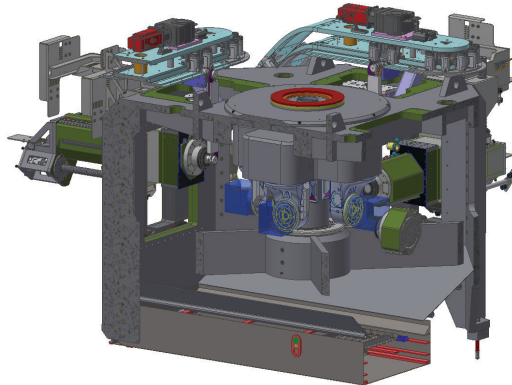
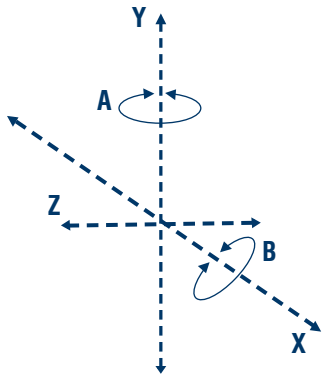
Horizontal Workstations

3 Horizontal X/Y/Z Axis
3 Spindles with HSK63
Toolholder Interface



5-Axis Machining Capabilities

ICON 4-250 5-Axis machining capabilities achieve unsurpassed quality for tighter tolerances and complex geometries. The 5-Axis machining capabilities include three linear axes (X, Y, & Z) and two rotational axes (A and B) performing simultaneously for increased flexibility, productivity, quality, and lower cost per part.



ICON 4-250 Advantages

Flexibility • Productivity • Quality • Cost Per Part

- Small Footprint
- FANUC 30i Control
- Simultaneous 5-Axis Machining
- Eliminates Secondary Machining
- Rapid Tool Change
- 3 Spindle Machine
- External Access to Tool Changer
- Separate Load/Unload Station

Industries Served and Applications

Max Material Size:

Cube/Work Area 250mm

Volumes:

Small to Mid Size Lots

- Defense
- Automotive
- Blank Components
- Castings
- Medical
- Forgings
- Valve
- Distribution Blocks
- Manifolds
- Gun Components

3-Axis Machining Module

Integrated Spindle Motors (Standard):

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

Optional Spindle RPM:

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

Machining Stroke & Force:

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

Spindle Performance:

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

Oversized 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

Size & Weight:

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