



www.jyoti.co.in

HX Series

High Dynamic Horizontal
Machining Center



Technical Specification

		HX 500	HX 510	HX 600	HX 610
Capacity					
X-Axis Travel	mm	700	800	900	1200
Y-Axis Travel	mm	600	600	730	730
Z-Axis Travel	mm	600	600	750	750
Distance from Pallet Surface to Spindle Center	mm	100-700	100-700	100-830	100-830
Distance from Pallet Center to Spindle Nose	mm	150-750	150-750	150-900	150-900
Auto Pallet Changer					
Pallet Size	mm	500 x 500	500 x 500	630 x 630	630 x 630
Max. Workpiece Size (Ø x H)	mm	650 x 750	650 x 750	800 x 950	800 x 950
Clamping System	mm	Hole M12 100/100 Ø40 H6	Hole M12 100/100 Ø40 H6	Hole M16 100/100 Ø50 H6	Hole M16 100/100 Ø50 H6
Max. Weight on Pallet	kg	500	500	800	800
Min. Pallet Indexing*	deg.	1°	1°	1°	1°
Pallet Indexing Time	sec.	8	8	15	15
Spindle					
Spindle Speed Range	rpm	6000	6000	6000	6000
Spindle Motor Power - Fanuc	kW	15 / 11	15 / 11	22 / 18.5	22 / 18.5
Spindle Motor Power - Siemens	kW	18 / 12	18 / 12	27.8 / 18.5	27.8 / 18.5
Spindle Drive Type		Belt Drive	Belt Drive	Belt Drive	Belt Drive
Spindle Taper		BT 50	BT 50	BT 50	BT 50
Feedrate					
Rapid Traverse (X, Y & Z Axis)	m/min	30	30	30	30
Cutting Feed	m/min	10	10	10	10
Automatic Tool Changer					
No. of Tool		40	40	40	40
Max. Tool Dia. (All/Adj. Empty)	mm	125 / 250	125 / 250	125 / 250	125 / 250
Max. Tool Length	mm	350	350	350	350
Max. Tool Weight	kg	15	15	15	15
Tool Changing Time (Tool - to - Tool)	sec.	3.5	3.5	3.5	3.5
Accuracy (as per VDI/DGQ 3441)					
Positioning Uncertainty (P)	mm	0.010	0.010	0.015	0.015
Repeatability (Ps Medium)	mm	0.005	0.005	0.007	0.007
Other Data					
Machine Weight (Approx.) (Including NC Unit)	kg	12000	12300	17000	17500
Machine Dimension (Approx.):					
Length	mm	4300	4300	5300	5300
Width	mm	4000	4100	4500	4850
Height	mm	2700	2700	3500	3500

Note : • All above information is subject to change arising out of continuous product improvement without notice.
• The description 'standard accessories / feature' conforms to its list; not the photo of machine shown in the catalogue.

Control System

The CNC System offered with the HX Series machine is with latest digital controller from FANUC 0i MD or SIEMENS 828 D

Standard Features

- Belt Driven Spindle
- AC SERVO Digital Drive
- 1° Indexing Rotary Table
- L. M. Guideways (Roller Type)
- Auto & Manual Coolant System
- Centralized & Programmable Lubrication
- Chip Conveyor
- Laser Calibrated Axis for Highly Precise Positioning Accuracy and Repeatability
- Electricals with Quality Devices & Panel with A. C.

Productivity Improving Options

- Gear Box
- Coolant Through Spindle
- Chip Flushing Coolant System
- 60 / 90 / 120 Tool ATC
- Coolant Mist Collector
- Spin Window
- Oil Skimmer
- Linear Scale Feed Back
- Tool Probe
- Job Probe
- Tool Life Management
- Fully Toolled up Solution to Meet Customer Needs
- Manual Guide i (Fanuc)
- Easy SMS System (Siemens)

JYOTI CNC AUTOMATION LTD.

G-506, Lodhika G.I.D.C., Village : Metoda, Dist : Rajkot - 360 021, Gujarat (INDIA).
Phone : +91-2827-306100/306101/287081/287082,
Fax : +91-2827-306161/287811, E-mail : info@jyoti.co.in, sales@jyoti.co.in

