



Chester Horizontal Machining Centre • H-500LA

The Chester twin pallet horizontal machining centres deliver productivity and performance, the key to this is to reduce the non-machining time to enhance the cutting efficiencies

The range is divided into High Speed and High Performance CNC machines.



The High Speed machine has a 10,000 RPM spindle with fast acceleration/deceleration along with the fast changing twin pallets with a standard 60 tool automatic tool changer. The High Performance machines have a BT50 spindle taper with 6000 RPM, this also has the fast changing twin pallets with a 40 automatic tool changer.

Standard configuration:

- ✓ Spindle Rpm 10000rpm
- ✓ Spindle Oil Cooling System
- ✓ Spindle Air Seal System
- ✓ Spindle Direct Transmission
- ✓ 3-Axis Roller Linear Rail
- ✓ 3-Axis Hollow Ballscrew Cooling System
- ✓ Pallet 1° division
- ✓ Pallet M16 Fixing Holes
- ✓ Splash Ring
- ✓ Track Type Chip Conveyor System
- ✓ Chip Cart
- ✓ Indoor Chip Auger
- ✓ Mechanical Oil-coolant Separator
- ✓ Overhead Chip Wash-down System
- ✓ Dis-type Coolant Separator
- ✓ Front Door / Side Door Safety Switch
- ✓ Tool Storage Capacity 60T
- ✓ Tool Specification BBT
- ✓ Tool Specification NO.40
- ✓ M30 Automatic Power-off System
- ✓ Working Light
- ✓ Warm Light
- ✓ Electrical Cabin Heat Exchange System
- ✓ Fanuc OiMD

Optional configuration:

- 3-Axis Linear Scale System
- 4-Axis Encoder
- Pallet 0.001" Division
- Pallet T-slot
- Spindle Air Blow System
- Coolant Through Spindle
- CE Safety Specifications
- Tool Length Measuring System NC-4S
- Workpiece Measuring System RMP-60
- Tool Breakage Detection(Magazine)
- Tool Specification CAT
- Electrical Cabin Air-condition System
- Fanuc 31i
- Oil Mist Collector Unit
- Rotary Window

* The above specifications are subject to change without prior notice, no liability for mistakes. Machines may be shown with optional equipment.





Technical Specifications

Technical Specifications	H-500LA	H-500LB
Travel		
Travel,X/Y/Z	700/650/650mm	700/650/650mm
Spindle Center to Pallet Face	50-70mm	50-70mm
Spindle Nose to Pallet Face	150-800mm	150-800mm
Pallet		
Pallet Size	500x500mm	500x500mm
Maximum Workpiece	φ700mm	φ700mm
Maximum Pallet Load	500kg	500kg
Maximum Workpiece Height	800mm	800mm
Pallet Surface Configuration	24-M16 Pitch 100	24-M16 Pitch 100
Pallet Indexing	1°	1°
Spindle		
Spindle Max.Speed	10000rpm	6000rpm
Low/High Gear Variation	6000rpm	N/A
Spindle Max.Torque(Standard)	120N-m	120N-m
Spindle Taper	7/24 Taper No.40	7/24 Taper No.50
Spindle Bearing Id	70mm	100mm
Spindle Transmission	Direct Couple	Belt
Feed Rate		
Max. X/Y/Z Rapid Speed	36000mm/min	36000mm/min
Cutting Feed Rate	1-10000mm/min	1-10000mm/min
Job Feed Rate	1260mm/min	1260mm/min
Automatic Tool Change (ATC)		
Type of Tool Shank	ISO40 or BBT-40	ISO 50 or BBT-50
Tool Capacity	60 pc	40 pc
Max.Tool Diameter(without Adjacent Tool)	80mm(160mm)	120(230)mm
Max.Tool Length	380mm	380mm
Max.Tool Weight	8kg	20kg
ATC Changing Time(T to T)	5sec	5sec
Tool Selection Method	Fixed Address	Fixed Address
Automatic Pallet Changer (APC)		
Number of Pallets	2	2
Pallet Changing Type	Rotary Type	Rotary Type
Time for APC	0iMF	0iMF
Controller System		
FANUC	18i	18i
Motor		
Spindle Motor,Power	15/18.5kw(20.1/24.79hp)	15/18.5kw(20.1/24.79hp)
Spindle Motor	120Nm	120Nm
X/Y/Z/B Axis Motor	7/7/4/1.6kw(9.38/9.38/5.36/2.14hp)	7/7/4/1.6kw(9.38/9.38/5.36/2.14hp)
Motor,Hydraulic System	2.2kw(2.95hp)	2.2kw(2.95hp)
Motor,Coolant Pump System	1.6kw(2.14hp)	1.6kw(2.14hp)
Power Supply		
Power Requirement	42kva	42kva
Capacity of Oil/Coolant Tank		
Capacity,Hydraulic System	60L	60L
Capacity,Lubrication System	4L	4L
Capacity,Coolant System	760L	760L
Mechanical Specifications		
Machine Dimensions	5000x3200x2980mm	5000x3200x2980mm
Weight	15000kg	15000kg

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