CLEVELAND
Machining Center MODEL: LH-87

MACHINE FEATURES
- Fanuc Oi-MD control
- 24 tools Swing Arm ATC
- 25HP Spindle Motor, BT40 or CAT40 Spindle Taper
- 6,000 rpm spindle speed
- Heavy duty 3 axes linear guide way
- Built in Hit 500 rotary table with 1 degree indexing
- Double nut precision ball screws hardened & ground for high accuracy and long lasting
- FC30 Meehanite Casting main frame with annealed & stress relieved for long term reliability
- 100% Laser tested for positioning accuracy & repeatability
- Anti-flex Reinforced base & column to provide maximum rigidity & stability
- Telescopic steel way covers on all three axes
- Tool box & Tools
- Coolant System and air blast system
- Central lubrication system
- Built-in Quartz work light
- Rigid tapping (opt.)

Specification:
Table: 19.6” x 36.1” (500 x 930mm)
Longitudinal travel (X-axis): 33.8” (860mm)
Cross travel Z: 24.6” (625mm)
Vertical travel Y: 28.3” (720mm)
Spindle nose to table top (D): 4”-32.3” (100-820mm)
Load capacity: 880 lb (400 Kg)
Spindle taper: BT40 or CAT40
Spindle Speed (r. p.m.): 6000 rpm
Transmission of spindle & motor: Belts
Spindle nose to table center: 6.2”-30.9” (160-785 mm)

Feed Rate:
Rapid feed rate: X/Z: 960 ipm; Y: 800 ipm
Cutting feed rate: 1-400 ipm
Motor:
Spindle motor/max torque: 20HP, 17KW
Feed motors on XYZ: 2/3 KW
Coolant pump: 0.6Hp
Lubrication pump: 150W
Power requirement: 32 KVA, 3 Phase 208-230 voltage

Automatic Tool Changer
No. of tools: 24 Armtype
Max. tool diameter: 3.14” (80 mm)
Max. tool weight: 15 lb (7 Kg)
Length X Width X Height (LXWXH): 100” x 113” x 108” (2560mm x 2880mm x 2760mm)
Net Weight: 14,520 lbs. (6600 Kgs)

STANDARD ACCESSORIES:

<table>
<thead>
<tr>
<th>Tools &amp; box</th>
<th>Full Guarding</th>
<th>Shop floor programming/Conversational</th>
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</thead>
<tbody>
<tr>
<td>Leveling bolts &amp; plate</td>
<td>MPG hand wheel</td>
<td>Auto Lubrication / coolant system</td>
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<tr>
<td>RS-232</td>
<td>Auto lube system</td>
<td>Halogen work light</td>
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<tr>
<td>Operation manual</td>
<td>Air blast, coolant flush gun</td>
<td>Chip auger</td>
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<tr>
<td>Fanuc Oi-MD</td>
<td>Rs-232 interface</td>
<td>Build in 4 axes 20” rotary table</td>
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</tbody>
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Additional Accessories information:

<table>
<thead>
<tr>
<th>Power requirement</th>
<th>32 KVA 3 phase 208 V/230 V max</th>
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<tbody>
<tr>
<td>Air requirement</td>
<td>90 - 100 psi</td>
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<tr>
<td>Type of oil for Way oil / oil chiller / pneumatic oil</td>
<td>Mobil Vactra #2 / Shell Tellus 32 / Air tool oil</td>
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<tr>
<td>Coolant capacity</td>
<td>36 Gallons</td>
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** WE RESERVE THE RIGHT TO CHANGE DESIGN, COLOR, SPECIFICATIONS, OR PRICE WITHOUT NOTICE **

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