

Product Name :
CNC Lathe With Automatic Bar Feeder Machine

Product Code :
MU107



Description :

CNC Lathe With Automatic Bar Feeder Machine

Technical Specification :

The frame is entirely welded with steel plates, heat treated to relieve stress and to maintain the precision of the machined structure.

The machine bed is able to incline 45° to minimize the thermal stress of machine bed and for easy removable of chips from the work space.

A work light is included on the machine.

The hydraulic adjustable pressure tailstock is controlled by a keypad (m-code) and foot switch for the operation of the tailstock.

Fitted with the M19 spindle orientation to accommodate square bar loading.

Fitted with an automatic tool pre-setter.

Inclusive of accessories for full installation of the machine and 3phase plugs (male and female) with electric cable

Fitted with tool holder kit 32mm identity holders for precision work.

Fitted with 6 off Bot mid 32mm tool holders.

A three off Cb 10 coolant block.

12 off complete sets off turret /face wedge clamps.

Fitted with 18 cap screws for clamps.

Fitted with 9 cap screw for clamps centres.

Fitted with all face/grooving holders.

The belt type chip conveyor is programmable by keypad (m-code).

Fitted with parts catcher for the removal of shaving.

Fitted with a memory lock key switch, USB and rs 232 port for programming.
Suitable to do rigged (fix) tapping
Fitted with 6.5 inch hydraulic chucking system, 6000-rpm spindle and a2 spindle be nose.
The spindle motor not less the al 5 hp/11. LKW vector drive.
The work piece (round bar capacity) is 0-45mm.
Fitted with 15 inch colour lcd monitor with usb port at 1 gb program memory.

Control Panel Features:

Advanced program editor with a brushless AC servo drives and triple 32-bit processors.
A 1,000 blocks /second execution rate and ISO standard G- code compatibility with a 1GB standard program memory.
A one- button power- up and one- button tool offset entry with a 50 tool - geometry offset and a tool load monitoring.
Background editing function, split screen program review, speed, feed, trig and Arc calculator.
User friendly i.e. mid-program restart, inch or metric programing, message page, selectable languages, fully descriptive alarms, self diagnostics, graphic dry run, 5 spare manual function and electronic thermal compensation.

Technical Specification and Production Capability:

Rapid feed rates 30.5m/min.
Turret indexing time 0.5 sec.
Spindle acceleration time to time rpm $\hat{A}\pm 3.6$ sec.
Spindle deceleration time $\hat{A}\pm 1.7$ sec.
Tool load monitoring capability.
Tool life management capability.
Accuracy:
Position $\hat{A}\pm 5\mu\text{M}$.
Repeatability $3\mu\text{M}$.
Cutting diameter 356mm.
Cutting length without work holding 356mm.
Standard bar capacity 44mm.
Spindle motor torque 102Nm(a2130Orpm).
Spindle nose A2-5.
Spindle bore diameter 58.7mm.
Swing Diameter
Over front apron 641 mm
Over cross slide 413mm
Over tailstock 597mm
X (up and down) Axis
Z (front and back) Axis
X-Axis rapids
Z-Axis rapids
Hydraulics
Min chuck pressure 60 psi
Min tailstock pressure 50 psi
Chuck pressure 330 psi
Tailstock pressure 400 psi
ELECTRICAL
Spindle motor rating 15HP (11.1kw) continuous vector drive.
X-axis servo motor rating 1.3kw 1467 N thrust (Push force).
Z-axis servo motor rating 1.3 kw 1467 N thrust (Push force)
Coolant pump motor rating 0.6kw
Coolant pump flow 19.9l/min

Transient protection to incoming power
380v ac 3 phase power supply

Automatic Bar Feeder

Technical Specification:

Capacity 6mm to capacity up to 44mm
The bar feeder motor of a Servo type
Fully integrated and programmable on main CNC controller
Liner kit support round bars from 6mm to 42 mm (thickness)

Features:

Precision servo ball screw drive system to operate
The machine support fine cut accuracy of ± 0.127 mm feed length without dead stop
The machine is feed random length round bars
The machine is fitted with a automatic bar length measurements system
The machine is fitted with the line storage tray

Accessories:

Tooling package to include 5 C round collets: 3x6mm, 3x8mm, 3x10mm and 3x16mm
Code: 5 C square collets: 3x8mm
Grooving assembly: 2mm x inserts and 3mm x inserts
Code: Dwlnr/face tool 20mm and tips for mild steel
32mm straight shank code: ER32 collet chuck and 2 spanner 4mm to 5mm code: ER32 collet x 2

Safety Features:

The machine is fitted with a detection module that senses a power failure or severe drop in incoming line voltage and quickly brings all axis motion to a safe and controlled stop. The machine is maintain power to the electronics long enough to activate brake motors and prevent uncommand motion that could damage parts and tooling.
Limited spindle rpm with door open
Standard required safety decals
Automatic door lock when in cycle
Door safety features when open:
Rapid not allowed
Cycle start not allowed
Spindle 50 rpm
No turret index in
No conveyor motion
Door lock /run /setup key switch

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