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CNC LATHE MACHINE

CJ2116

Technical Parameters:

- Swing over bed: Minimum 0410mm (16").
- Swing over slide: 150mm,
- Cutting dia for disc parts: 350mm.
- Cross travel (X): 235mm.
- Longitudinal travel (Z): Minimum 950mm.
- Length of work piece: Minimum 1000mm.
- Rapid feed for axis (X): 7-8m/min.
- Rapid feed for axis (2): 9-10m/ min,
- Range of spindle speed. 200-2800r/min (step less).
- Spindle bore: 45-55;
- Spindle nose: C1-6,
- Taper bore of spindle: MT6: 3-jaw chuck: 200-250,
- Tool post: 4-way,
- Servo motor power (X/Z): 0.75 1.0kW.
- Size of tool shank: Minimum 20-20mm. Minimum imput: 0.001mm.
- Repeatability of X/Z: 0.0075/0.01mm.
- Main motor power: 3.5 4.0kW,
- Power source: 380-400V AC, 5011z, 3 Phase

Description:

High speed and high precision servo control: By combining hardware technology and software technology such as latest servo control HRV+, high speed and high precision control with nano meter level should be ensured High quality cutting surface by optimum compensation to machining point (Smart backlash compensation), Spindle HRV Control for fast response and high precision of spindle operation Powerful program editing functions and integrated operating screen. High speed. large capacity and multipath PMC which consists of a dedicated processor and custom LSI, NC programs can be stored in the controller:

Memory operation and program editing facility in the controller: CNC controller should support G-code, M-code and ISO code: CNC controller should support various machining cycles: CNC controller should support English and other languages

Should be supplied in a hard-wearing storage tray with molded insert to hold parts securely and a graphical list to help check the kit contents. Rugged and durable parts for safe hands-on' experiments, allowing better understanding. This kit should include two popular mechanisms for experiments in conversion. Of motion from one form to another. These should include the Geneva mechanism (sometimes called the Maltese cross mechanism of crank and star) and a ratchet mechanism. Students should be able to test cach mechanism to see how it works and note Thedi fferences in the way that cach mechanism converts the motion, The two mechanisms should be the same as those used in real applications, such CNC muchines , hand tools, turnstiles and lifting hoists, Each should have a unique way of converting motion, shown by the experiments Learning outcomes; Conversion of motion using the Geneva mechanism and a ratchet Main parts: Geneva and ratchet mechanism.
Work panel (01 Nos.): Perfect size for experiments & fits on any standard desk or bench top Should be supplied with of all teaching material needed for the full Engineering Science range, Users should be able to lit the parts of their kit to the Work Panel to study or demonstrate an engineering science topic, Stable and multi-positional - to be used in many different ways to suit the experiments or demonstrations, Solid, thick perforated metal plate for long life and choice of fixing positions for the experiments. Simple thumbscrews for safe, quick and easy assembly.

Assembled size in Portrait: 550 mm high x 380 mm wide and 280 front to back (approx.),
Assembled size in Landscape: 450 mm high x 480 mm wide and 280 fronts to back (approx.)
Following accessories to be s supplied with the Machine as standard: 4-position electric tool post, 3-jaw chuck, chip tray and tailstock, Tools (each 2 sets): Ianer and outer threading tool, Inner and Outer Turning tool, Slotting / Parting tool, Required Lubricant as per muchine's tank, Cutting oil (Min. 3 liter) and required, hydraulic oil as per machine's capacity, Half cover, inverter spindle.