

CNC MILLING MACHINE



CJ7128

Technical Specification:

- ◆ Brushless motor Min. 1000W or higher
- ◆ Max. Spindle Speed: Min. 100- Max. 5000 rpm or higher
- ◆ Table Size: In the range of 550 X 160 mm (Minimum)
- ◆ Load: Max. 28-32Kg
- ◆ X travel: Min. 280mm or higher
- ◆ Y Travel: Min. 120mm or higher
- ◆ Z travel: Min. 270mm or higher
- ◆ Spindle nose to table: Min. 80-350mm
- ◆ Spindle center to column: Min. 200 mm
- ◆ Spindle Taper: MT3/NT3/R8 or better
- ◆ Spindle Motor: Min. 1000W or higher
- ◆ Positioning Accuracy: Min. +/- 0.015mm
- ◆ Repeatability Accuracy: Min. +/- 0.010mm
- ◆ Controller: GSK/ Siemens
- ◆ Max. Spindle Speed: Min. 100- Max. 5000 rpm
- ◆ LED Working Light should be provided
- ◆ Outbox for scrap Collection on back side should be provided
- ◆ The 4th axis driver should be installed
- ◆ Coolant System, Hand wheel should be included Drive Systems Kit:
- ◆ It demonstrate the advantages and disadvantages of three popular drive systems (belt, chain and a universal coupling) using a manually rotated frame with a low-friction cantilever linkage,



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Adjustable masses and a spring to apply force

- ◆ Flexible and modular, should fit onto the work panel for experiments and classroom demonstrations
- ◆ Its 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 include three different drive systems to show their relative advantages and disadvantages
- ◆ Students are able to test a universal coupling, a belt drive and a chain drive to see how they work and how they differ in the way they transfer motion (power)
- ◆ The kit include extra parts to help show the importance of the angle of lap around a pulley and its relationship with friction
- ◆ The kit introduce students to key engineering terms such as gear ratio, pulley ratio and efficiency
- ◆ Learning Outcomes: Power transfer, efficiency & direction in a belt drive; power transfer & efficiency in a chain drive; input & output relationships of a universal coupling and friction & angle of lap on a pulley
- ◆ Main parts: Chain drive, belt drive, universal coupling and weight hangers & weights
Cam, Crank and Toggle Kit:
- ◆ Its demonstrate the characteristics of a mechanical toggle, crank motion and the most popular shaped cams: pear, heart, round and snail
- ◆ Flexible and modular, should fit onto the work panel for experiments and classroom demonstrations
- ◆ This kit include a crank and slider to show the relative forces during crank motion
- ◆ It also include four popular cam shapes to show their different characteristics
- ◆ Another set of parts in the kit should show the characteristics of a mechanical toggle
- ◆ Students are able to fit the crank and slider with weights and a spring balance to see the change in linear and rotational forces (moments) as the crank turns
- ◆ They also able to use the slider with different followers on a set of four popular shape cams - heart, pear, spiral and round
- ◆ The last set of parts in the kit should have a simple linkage that allow students to see the characteristics of a toggle mechanism
- ◆ It shows the relative forces and angular conditions of the toggle in its initial state and how they affect the point at which it locks or 'snaps? into a horizontal state
- ◆ The kit introduce students to key engineering terms such as a? Flat follower? A? roller follower? And? Toggle action?
- ◆ Learning Outcomes: Displacement & angle characteristics of pear, heart, round and spiral cams; characteristics of a mechanical toggle and turning moments & forces during crank motion
- ◆ Main parts: Pear, round, heart & spiral cams, set of followers, toggle linkage, crank & slider and masses
- ◆ Perfect size for experiments & fits on any standard desk or bench top
- ◆ Its supplied with of all teaching material needed for the full Engineering Science range
- ◆ Users should be able to fit 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