

Cutting machines for Power Chords & Battery Cables: CTO -16

M/s 'machine makers r.s.' have introduced a 'Power Cable Cutting machine' for cutting multi-core Power cables & battery cables.

This is a specially developed High Speed High Accuracy machine for cutting of power cables, battery cables as well as single core wires. The machine can be used for processing flat cables, as well.



This power-packed machine ensures high production volumes and low manufacturing costs. With these machines, the cost of cable cutting is around **10 to 15 paisa per 100 cables. A stepper motor drive and an encoder feedback system ensure high accuracy in length.** Machine being accurate, it saves copper and **often the saving in copper cost is much more than the labour saving.**

Most importantly, this machine **does not require any compressor**, and can be operated with single-phase electric supply.

A combination of motor, vector drive delivers a very high cutting force. The machine's noise level is also quite low. This machine is tabletop, user-friendly, and automatic. Any operator can be trained within 5 minutes to operate it.

Machine is available with **Microprocessor controls.** A simple and smart keypad and display is used for setting the length, target quantity, batch qty and other processing

parameters.

It comes with in-built production counter, which indicates the number of cuts taken.

The standard machine (Model CTO 16) can is able to cut copper braided ropes of upto 11 mm diameter or battery cables of upto 50 sq mm.

These machines can cut wires and cables of length from 5mm to 9meters. A special version for upto 25 meters is also available.

Depending upon the length, this machine can process around 1000-2200 pieces per hour.

To get a proper speed and length, a wire pre-feeding arrangement such as de-reeler may be required. The same is not within the scope of this machine.

The machine can also be hooked upto online cable / chord extrusion plant with the help of a dancer roller arrangement. This helps in avoiding in-process inventory and boosts productivity.

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- "MICROPROCESSOR controlled machines with smart display.
- Fully automatic machine. Setting is completely digitized and mostly automatic.
- Compressor not required, Silent operation.

Performance Range

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| Wire Types & Cross section | Model CTO 16: Single core flexible wires upto 50 mm ² , Power chords (unarmoured) upto 14 mm O.D., Braided Copper ropes upto 11 mm O.D. |
| Length Selection | Standard range: 5 mm to 9 meters, in steps of 1mm; Range can be extended to 25 meters You will require separate de-reeler arrangement to provide free wire/cable to machine. |
| Accuracy | +/- 0.3% (min. +/-2 mm) |
| Multiple Wire Processing | Possible with special guide and blades in selective cases |
| Changeover setting time | 30 sec to 5 minutes typically. |

Technical Data

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| Mechanical system | Rugged machine with precision mechanical system |
| Electronic system | Separate electronic control with microprocessor & encoder and drives |
| Wire feed system | 1 stepping motor with 2 feed rollers, variable speed, encoder feedback |
| Cutting system | Motor, clutch and gearbox system. Small but rugged press tool operated by motor, gear box and VFD |
| Length Measurement system | stepping motor control with encoder feedback |
| Power | 220V / 50 Hz, other options upon request |
| Compressed air | Not Required |
| Dimensions | 500mm X 500mm X 435mm(h), approx |

Production Speed:**

| Machine | 500mm | 1000mm |
|----------------|--------------|---------------|
| CTO 16 | 1500/Hr | 1000/Hr |

- Speed for 0.5 sq mm multi-strand wires.

Voltage servo-stabilizer (2KVA) or CVT (1KVA) is must, to be arranged by you. Proper earthing is essential.