



ART-MNC

Motorized Notching Cutter

V1.01

In modern materials testing, precision isn't optional, it is the foundation on which every credible result is built. Nowhere is this more evident than in the preparation of Impact and Charpy specimens, where the geometry of a single notch can influence the outcome of an entire test series. Stepping firmly into this critical space, **Artemis Instruments** presents the **Motorized Notching Cutter**, a machine engineered not only to meet the stringent requirements of **ISO 179, ISO 180, ASTM D256 and ASTM D6110**, but to raise the standard of what laboratories can expect from automated specimen preparation.

At the centre of the system is Artemis' advanced adaptive microprocessor control unit, designed to ensure that feed and cutter speeds are always optimised for the material under test. Operators work through a clear, intuitive touchscreen interface, with all cutting parameters stored in onboard memory for rapid recall. With cutter speeds ranging from 350 to 2350 rpm and feed rates as low as 0.05 mm/rev, the machine delivers consistent performance across routine plastics and more demanding engineering materials alike.

Efficiency is built into every aspect of the design. The anti vibration guide rail system ensures exceptional profile accuracy, while the multi sample vice holds up to 20 specimens, 4 mm thick, enabling a full batch to be notched in roughly 20 seconds. The auto return mechanism resets the vice for the next loading cycle, and precision tools including micro height adjustment, a notch depth comparator and a sample setting gauge guarantee uniform notch geometry across every specimen produced.

Safety remains a priority. A full polycarbonate guard encloses the cutting area and incorporates an electrical interlock, preventing operation when open and ensuring safe, controlled workflow in busy laboratory environments. An emergency stop complements user safety requirements.

Completing the system are Artemis' tungsten carbide cutting wheels, each optically ground to minimise cutter load and maximise durability. A full range of "V" and "U" notch profiles are available, alongside custom geometries for specialised applications.

With intelligent control, robust engineering and high throughput capability, the **Artemis Instruments Autocycle Notching Cutter** is built for laboratories where precision truly matters.

The apparatus is multi voltage from in **110–240 V - 50-60 Hz**.

Specifications

- Fully compliant with ISO and ASTM International Test Standards amongst others.
- Adaptive microprocessor control for optimised cutting parameters
- Intuitive touchscreen interface with onboard memory
- High precision feed rates down to 0.05 mm/rev
- Cutter speed range 350–2350 rpm
- Multi sample vice: holds up to 20 specimens (4 mm thick)
- Batch notching cycle: ~20 seconds
- Anti vibration guide rail for profile accuracy
- Auto return vice positioning
- Manual cutter height adjustment
- Tungsten carbide cutting wheels
- Polycarbonate safety enclosure with electrical interlock
- Emergency Stop
- Fully traceable certificate of calibration and instrument user manual
- UKCA/CE Certified
- Dimension (CM) - 57W x 35D x 31H
- Net Weight (Kg) - 15
- 110-240v - 50-60Hz
- Warranty 12 months

Options

- Standard Cutter wheels - V notch: 0.10 mm, 0.25mm, 1.00 mm -U notch: 0.80 mm, 2.00 mm
- Air Cooling

Artemis Instruments

A Microtrol Brand

16 Elgar Business Centre, Moseley Road, Hallow, Worcester, WR2 6NJ

Email: info@artemisinstruments.com - sales@artemisinstruments.com

www.artemisinstruments.com