

# AUTOCYCLE NOTCHING CUTTER

To produce precise stress concentrated notch profiles in Impact and Charpy specimens look no further than the **Ray-Ran Autocycle Notching Cutter**. A world leader by design, this machine will cut accurate notch profiles to international test standards such as ISO 179, ISO 180 and ASTM D256.

At the heart of the machine is a custom built adaptive Microprocessor Control Unit with LCD screen ensuring feed and cutter speeds are always selected for optimum performance. Adjustments to cutting parameters are made using the integrated membrane keypad and are stored in the memory feature of the microprocessor. Cutter speed ranges from 350 to 2500 rpm are easily controlled, and with minimum feed rates of 0.06mm/rev cutting parameters for even the toughest of materials are easily achieved.

The anti-vibration guide rail system optimises profile accuracy and the multi-sample loading feature of the vice can accommodate up to 16 test specimens 4mm thick, all accurately cut within approximately 20 seconds increasing productivity. The quick auto-return feature ensures the vice is always in the correct place for loading and unloading the test specimens and the micro height adjustment, notch depth comparator and sample setting gauge ensure that the cut notch depth is accurately controlled. A polycarbonate guard is fitted for operator safety totally enclosing the working area



and provides an electrical interlock so the machine does not operate when the guard is open.

The Dual Tooth Cutting Wheels used on the Autocycle Notching Cutter are designed to reduce cutter load on the sample being notched. They are tungsten carbide tipped, optically ground and diamond lapped to very close tolerances. The standard cutter wheel profile fitted to the apparatus is a 0.25mm radius V notch.

Cutter wheel profiles of 0.1mm and 1.0mm radius as well as 0.8mm and 2.00mm 'U' notch cutter wheels are also available. Non-standard and special notch requirements can also be provided for.

## TECHNICAL SPECIFICATION

- Advanced dedicated microprocessor control
- Easy to read LCD
- Touch membrane keypad
- Memory feature
- Cutter speed range from 350 rpm to 2500 rpm
- Traverse speed range 0.06 mm/rev to 1.0 mm/rev
- Metric and imperial traverse speeds units
- Anti-vibration linear motion slide
- Multi-sample loading
- Cutter wheel 0.25mm radius included
- Notch depth comparator,
- Notch depth gauge block
- Easy clean removable waste tray
- Polycarbonate safety guard
- Electrical Interlock
- Emergency stop button
- Product user manual
- CE declaration certificate
- 1 year return to base warranty
- Notches to International Test Standards, Including: ASTM D256, D6110, ISO 179, 180, 8256, DIN 53453

## OPTIONAL ANCILLARIES

- Dual tooth cutter wheel 0.01mm Rad V notch
- Dual tooth cutter wheel 0.25mm Rad V notch
- Dual tooth cutter wheel 1.00mm Rad V notch
- Dual tooth cutter wheel 0.80mm U notch
- Dual tooth cutter wheel 2.00mm U notch

## WEIGHTS & DIMENSIONS: RR/NC

Net Weight (kg)	15
Width (cm)	54
Depth (cm)	33
Height (cm)	25