

## Product Code

**UTR-0300** Laboratory Core Trimmer, Cut-off and Grinding Machine

**UTR-0304** Diamond Abrasive cutting blade, Ø230mm x 2.5mm thickness, for UTR-0300

**UTR-0306** Double-faced cup wheel 230 mm dia. x 16 mm thickness, for UTR-0300

Models for 230V 50 Hz, 1	UTR-0300-T
ph. Models for 110V 60 Hz,	UTR-0300-N
1 ph. Models for 230V 60	UTR-0300-K

## Standards

ASTM D4543; EN 12390-1; ISRM

The laboratory Core Trimmer machine is used for the preparation of rock specimens for strength and deformation testing from block samples or from drill core obtained in the field.

The laboratory Core trimmer machine allows you to prepare a rock core specimen according to the following procedure:

1. Specimen Cutting: Core sample rock is clamped in the jig for holding and feeding during the cutting process. During the cutting phase, water is continuously recirculated for blade cooling and flush cuttings. The precise manual feeding system moves the blade horizontally. Once the specimen is cut, back off the blade and turn off the saw. Unclamp the specimen, reposition and repeat the procedure on the opposite side.

2. Grinding: In order to reach the flatness and parallelism tolerances, a grinding phase is usually required. The rock core specimen is again clamped with the holding jig and is ground using the diamond impregnated grinding wheel mounted on the opposite side of the machine. The specimen ends are typically colored with a waterproof marker, prior to the start of grinding, in order to monitor where material is being removed. Grind each end one at a time. In this phase, the cooling water system is used to cool the specimen and grinding wheel.

### Technical Specifications

Maximum Core Rock Size	75 mm dia. x 225 mm length
Maximum Irregular Sample Size	75 mm x 65 mm x 225 mm (H x W x L)
Blade Speed	3000 rpm
Front Control Panel	24V

Dimensions	855x750x900 mm
Weight (approx.)	170 kg



UTR-0300

## Main Features

**High Precision:** full compliance with the Standards for end surfaces flatness, parallelism and axis perpendicularity.

**Time Saving:** thanks to the double blade system.

Trimming and surface grinding with the same machine without the need to replace the blades between trimming and grinding operations.

**Wide Range of Sample Preparation:** specimens can be obtained from core rock 75 mm diameter x 225 mm length and regular specimens can be obtained from irregular samples of maximum dimension 75mm height x 65mm width x 225 mm length. Includes a clamping system to hold core and irregular pieces firmly in place.

**All in One System:** Integrated cooling water system with high performance water recirculation pump.

**Long Life:** corrosion-resistant stainless steel water tank and clamping system.

**Safety Device:** protection cover conforming to CE directive with interlocked safety switch which prevents access to the blades when it is in motion.

24 V control front panel preventing electrical hazards related to water.