GEOCUT 302

GEOCUT 302 is an Advanced Geological Cutting Machine that is ideal for sectioning of rocks, ceramics, minerals, glass, concrete and geological specimens.

- Modern and sturdy design
- Extraordinary access for easy handling
- Ability to use Ø250/300 mm diamond blade.
- Cutting capacity up to 110 mm in diameter.
- X-Y Cross table is available as standard for parallel and serial cutting.
- Linear Table Feed and Chop Cutting methods
- Various Clamping systems available for small to large size or irregular sample shapes.

GEOCUT 302

GEOCUT 302 is specially designed for cutting large and irregular shaped petrographic specimens. It offers the advantage of combining different cutting techniques and methods into the same machine to obtain superior cut surfaces for a broad range of heavy duty cutting applications.

GEOCUT 302 has a robust and reliable design with low noise and emission levels. The modern and sturdy design with powerful 4 kW cutting motor ensures fast and efficient cutting through the hardest and complex materials with precise axis controls.

GEOCUT 302 has X-Y-Z triple axes cutting capability:

Z-axis Chop cutting
The specimen is clamped and the cut-off wheel approaches the specimen.

Y-axis Table-feed Cutting
Feeding the clamped specimen into a rotating cut-off wheel using a T-slotted feed table.

X-axis Parallel Cutting
Parallel serial sectioning in the x-axis with movable x-table.

GEOCUT 302 consists of a cast aluminium base on which the motor and the working space are provided in the from of two separate housings. A large, T-slotted feed table located in the cutter's generous work area can accommodate a variety of different clamping devices which need to be selected. The feed table provides a long travel depth making the GEOCUT 302 ideal for cutting long or deep samples in a single pass. Stainless small parts tray to catch small specimens is supplied with the cutting table as standard.

The front sliding door and side cover can be completely opened for easy access and handling to all sides. Side access ports make it possible to make transverse sections on long specimens. A large window of Lexan and a sealed LED lamp in the cutting chamber allow precise observation of the cutting process at an optimum degree of safety.

GEOCUT 302 is a robust manual cutter with X-Y bed designed for cutting minerals, rocks, concrete, glass, ceramics, refractory and other geological samples

Safety

GEOCUT 302 petrographic cutting machines has the highest safety standards. The interlocking safety device does not allow the motor to be started unless the sliding door is closed. The sliding door cannot be opened before the cutting motor is stopped. The electronic brake system, which is a standard feature, brings the cutter to a quick full stop in seconds after it has been switched off. Easily accessed and operated E-stop button ensures immediate shut down.

CLAMPING DEVICES

Quick Clamping Device for round petrographic specimens

GR 1811

Universal vise for large specimens, rocks, etc.

GR 1812

Vertical Clamping Device with clamping shoe

15 05

Many petrographic cutting applications require the sectioning of a specimen from an irregular shaped sample. The small size or irregular sample shape can create positioning and clamping difficulties for the operator.

To overcome these difficulties, METKON offers a number of special clamping devices for use with GEOCUT 302 petrographic cutter.

ACCESSORIES

FUMEFILTER

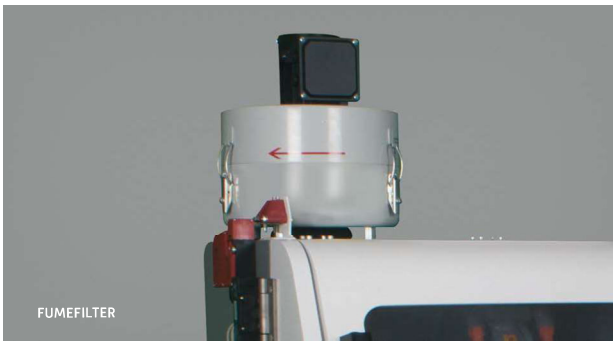
An advanced fume and mist removing unit that is optionally available for GEOCUT 302. Removes coolant mist for better illumination and viewing with centrifugal separator.

Laser Alignment Unit

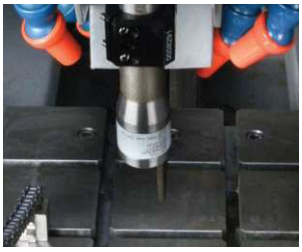
For rapid and accurate positioning of the cut-off wheel and helps to define the exact cutting line.

Cooling System

A stainless steel recirculating cooling unit is an optional part of the machine. The cutting surface is cooled by spray nozzles whose water jets hit both the cutting wheel and the specimen. This provides an efficient cooling of the sample and prevents the overheating of the surface structure. It is also possible to connect GEOCUT 302 directly to city water.



FUMEFILTER



Laser Alignment Unit

Recirculating Cooling Unit