

Core Trimmer and Cut-Off Machine

High Precision System
for Cutting and Grinding



2 CORE TRIMMER AND CUT-OFF MACHINE



Standards: ASTM D4543 | ISRM | EN 12390-1

Wykeham Farrance has developed a high precision laboratory Core Trimmer for the preparation of rock specimens. The Core Trimmer will quickly and accurately transform irregular core or rock pieces obtained from the field into perfectly machined rock samples.



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 can be done with the same machine without the need to replace the blades between trimming and grinding operations.



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.



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 up to 75mm height x 65mm width x 225 mm length. Includes a clamping system to hold core and irregular pieces firmly in place.

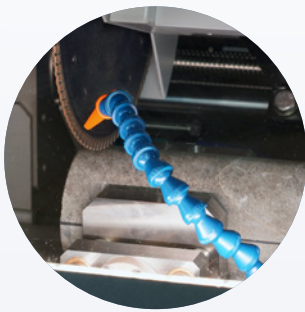


Safety Device

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.

High Precision System for Cutting and Grinding

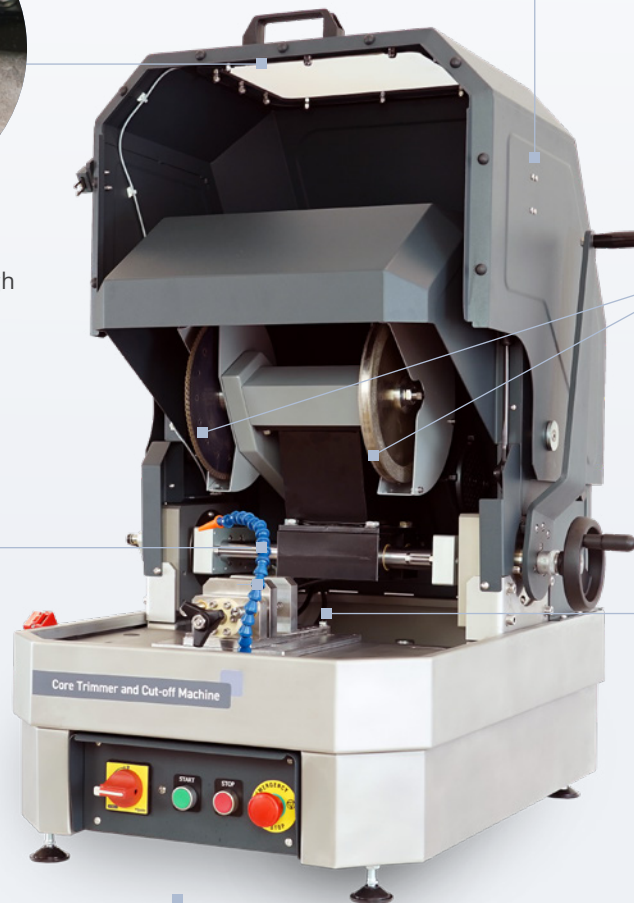
Full compliance with the Standards for end surfaces flatness, parallelism and axis perpendicularity.



LED light system to increase visibility through the inspection window during the cutting and grinding phase.



Protection cover conforming to CE directive with interlocked safety switch preventing access to the blades when in motion.



Integrated cooling water system with high performance water recirculation pump.

Double blade system for trimming and surface grinding without the need to replace the blades.



Stainless steel tank and clamping system.



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

How to Prepare the Rock Core Specimen

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



1 Specimen Cutting

First, clamp the core sample rock in the jig so that it's held securely in place during the cutting process.

During the cutting phase, water is continuously recirculated to cool the blade and flush cuttings.

The precise manual feeding system moves the blade horizontally. Once the specimen is cut, retract the blade and turn the saw off.

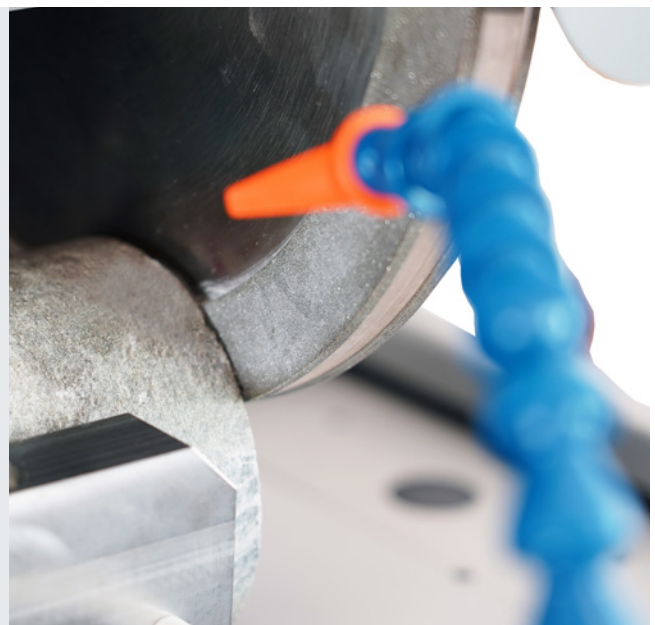
Unclamp the specimen, reposition and repeat the procedure on the opposite side.

2 Grinding

In order to reach the correct flatness and parallelism tolerances, a grinding phase is usually required.

Start by clamping the rock core specimen firmly in place with the holding jig. We then recommend you apply a colored waterproof marker to each end of the specimen to monitor the amount of material being ground.

Finally, start the grinding process using the diamond wheel mounted on the opposite side of the machine. Grind each end one at a time. In this phase, the cooling water system continually flows cooling both specimen and grinding wheel.



Ordering Information

32-D0528/A

Laboratory core trimmer, cut-off and grinding machine up to 75 mm diameter specimens, 230V, 50Hz, 1ph.

32-D0528/AZ

Laboratory core trimmer, cut-off and grinding machine up to 75 mm diameter specimens, 110V, 60Hz, 1ph.

32-D0528/AY

Laboratory core trimmer, cut-off and grinding machine up to 75 mm diameter specimens, 220V, 60Hz, 1ph.

Accessories

BLADES

32-D0528/A2

Diamond cutting blade. 230 mm dia. x 2,5 mm thickness suitable with machine model 32-D0528/AX



32-D0528/A3

Double-faced cup wheel 230 mm dia. x 16 mm thickness suitable for machines series 32-D0528/AX.



Technical Specifications

Maximum core rock size:

75 mm diameter 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

Dimensions: 855 mm x 750 mm x 900 mm (L x W x H)

Front control front panel: 24V

Power: 230 V, 50 Hz, 1 ph or 110 V, 60 Hz, 1 ph or 220 V, 60 Hz, 1 ph

Weight: 170 kg

Wykeham Farrance Customer Care

Wykeham Farrance is the Soil and Rock Testing Division of CONTROLS. As one of the longest established manufacturing companies in the world of Construction Materials Testing solutions, we are dedicated to supplying high quality, accurate, affordable, easy to use systems.

As a valued customer of CONTROLS, you will receive continuous, expert support and advice for your Wykeham Farrance equipment. Furthermore, we can offer full installation and training in the correct operation of your equipment.

For support from our expert Customer Care Team, contact your local CONTROLS office / distributor or email wfsupport@controls-group.com.

For more information, please visit www.controls-group.com.

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