

Micracut 175 High Speed Linear Precision Cut Off Machine



MICRACUT 175 is a microprocessor controlled high speed linear precision cut off machine used for precise and deformation free cutting of materials found in any metallurgical, geological, electronic, research, biomedical or industrial laboratory. The cut surface is ready for microscopic examination with minimal polishing.

MICROCUT 175 is built on precisely manufactured heavy duty aluminium frame providing stable and vibration resistant base for precision components and linear bearings. The cutting compartment is fully enclosed. The transparent hood is equipped with safety switch to prevent the cutting motor from starting when the hood is open. Motorised drive mechanism positions the specimen head in X direction with 2 micron accuracy with a 55mm range. Precise setting of the depth in Y direction is possible in the range of 100mm. It has variable cut of wheel speeds from 400 to 4000 rpm. Diamond, CBN and abrasive cut off wheels up to 175mm diameter can be used for cutting. Force level and automatic feed rate can be selected on the front panel. Supplied without specimen vice.

Specification

- Cut of Wheel: Ø 175mm
- Cutting Capacity: 50mm
- Motor Power: 400W
- Positioning range, X axis: 50mm
- Positioning range, Y axis: 100mm
- Positioning accuracy, X axis: 2 micron
- Feed rate: 0.010 – 1.5 mm /sec
- Cutting speed: 400 – 4000 rpm
- Cutting method: Linear
- Size: 54cm x 60cm x 32cm
- Weight: 80 kg
- Electrical: 220-1-50

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