

## MATERIALS TESTING

### ABRASIVE CUTTING MACHINE

A compact, manual abrasive cut-off machine ideal for most metallographic samples. Powered by a 4HP (3kW) motor which is combined with a rocker arm mechanism to provide cutting feel to the operator. The cutting wheel is mounted directly on the motor shaft which rotates at a speed of 2800 rpm. An electronic brake system is included as standard and can stop the cutting wheel fully, seconds after the power is switched off. All the electrical components are housed in a heavy duty light alloy base casting that assures rigidity at all times, irrespective of whether the unit is bench mounted or floor standing via attachment to a steel framed cabinet. The complete system is housed in a fibre glass reinforced plastic protective hood which has a large viewing window. The cutting chamber is illuminated by a 12V sealed lamp. A safety switch automatically stops the machine whenever the hood is raised. Samples up to 75mm in diameter can be cut. The sample is secured using quick-acting clamping devices (not included) mounted on T-slotted tables. A recirculating cooling system cools the cutting surface via two spray nozzles.

#### Technical Data:

Max. Cutting Capacity:	75mm diameter solid stock
Max. Wheel Diameter:	250mm
Wheel Speed:	2800rpm
Cutting Table:	210 x 210mm
Motor:	4HP (3kW), 3-phase, 380V, 50Hz a.c.
Cooling Water Tank:	30L
Dimensions:	600 x 690 x 510mm
Weight:	85kg

#### P90-1020 Abrasive Cutting Machine

#### Operational Accessories:

- P90-1021** Quick Acting Clamping Vice Assembly, Left
- P90-1022** Compact Vice Assembly, Spring Loaded
- P90-1025** Cabinet for Floor Standing Model

#### Consumables:

- P90-1026** Cut-off wheels, diameter 250mm, for cutting medium hard metals, 23-55 HRC, pk/10
- P90-1027** Cut-off wheels, diameter 250mm, for cutting hard metals, > 55 HRC, pk/10
- P90-1028** Environmentally friendly soluble oil, 5 litre



P90-1020