

Laboratory Mixers

Laboratory Mixer

The UTG-0130 is a 10 litre capacity mixer, designed to mix soil and asphalt samples to be used for mechanical tests such as compaction, indirect tensile, Marshall etc. The whisk turns at speed positions from 20 to 480 r.p.m and the mixing head from 10 to 240 r.p.m. The rotation speed can be easily adjusted between given values, by turning the control knob on the machine.

The mixer is equipped complete with 10L capacity stainless steel bowl and whisk.



UTG-0130



UTCM-0075

Manual Mortar Mixer

UTCM-0075

The 5L Manual Mortar Mixer can be used to combine cement pastes and mortars, to the requirements of most standards, including:

EN 196-1, 196-3, 413-2, 450-2, 480-1, 1015-2, 12617-4; ASTM C187, C305; AASHTO T129, T131, and T162.

On the lowest speed, the machine's mixing paddle has a 140 r.p.m revolving rate and a 62 r.p.m planetary motion. The revolving rate increases to 285 r.p.m and the planetary motion increases to 125 r.p.m when the machine is on high speed. The operator can easily change the speeds by flicking the switch on the front of the mixer. The machine comes complete with a sand filling apparatus, and has been designed so the bowl and beater can be easily fitted and removed.

The Manual Mortar Mixer comes supplied complete with:

- UTCM-0076 Bowl, 5L (approx.)
- UTCM-0078 Beater

Heating Mantle

UTAS-0087

The bituminous mixture must be prepared at the prescribed temperature according to the EN standard. For this reason, the mixer can be equipped with a thermostatically controlled heater.

The Heating Mantle can be easily attached to the UTG-0131 Mixing Bowl. The apparatus is supplied complete with a digital thermostatic controller and PT100 temperature sensor.

The Heating Mantle must be ordered separately to the Laboratory Mixer.



UTAS-0087

Technical Specifications

Model	UTG-0130
Dimensions (WxLxH)	700x750x900 mm
Weight	75 kg
Power	550 W

Model	UTCM-0075
Dimensions (WxLxH)	300x555x610 mm
Weight	54 kg
Power	200 W

Model	UTAS-0087
Dimensions	300x300x350 mm
Weight (approx.)	750 W 7 kg
Power	600 W

Laboratory Mixers

Automatic Programmable Mortar Mixer

UTCM-0085

The mixer is used to combine mortars and cement pastes to the requirement of standards. The mixing paddle has a planetary motion and is operated by a motor. The motor has microprocessor based speed and preset programs to meet all listed EN and ASTM standards, custom designed programs or manual mode. The machine has a mode button, which the operator can use to switch between programs. The mixing paddle has a revolving rate of 140 r.p.m in low speed. In high speed the revolving rate of the paddle increases to 285 r.p.m and has a planetary motion of 125 r.p.m.

The mixer is supplied complete with an automatic sand dispenser. After 30 seconds, the sand is automatically released. The operator can choose between 6 different programs, where the sand dispenser position, motor speed and duration of the mix can all be set differently. The mix time is shown on the display, and for efficient warning during critical time periods, the machine is equipped with a lamp.

The Automatic Programmable Mortar Mixer is supplied complete with:

- UTCM-0076 Bowl, 5L (approx.)
- UTCM-0078 Beater

Concrete Mixer Pan Type

UTC-0750

If high-quality specimens are to be manufactured, the efficient mixing of concrete is essential. For mixing small amounts of concrete, pan type mixers are the most suitable apparatus.

The UTC-0750 Pan Type Concrete Mixer is designed to give efficient mixing of both dry and wet materials.

It has a removable mixing pan which tilts to allow easy access to the pan. This also allows for trouble-free emptying of the pan once the mixing operation is complete. The pan has a total volume of 108 litres but the effective capacity of the mixer is 56 litres.

The mixer head lifts clear to provide maximum access to the pan and holds the mixing blades at a constant depth during the mixing operation. The blades are adjustable, with different options to suit the different kinds and volume of materials to be mixed. The pan type mixer is also equipped with rubber wheels which provide high portability.

All parts of the mixer are non-corrosively painted and galvanized.



UTCM-0085

UTC-0750

Technical Specifications

Model	UTCM-0085
Dimensions (WxLxH)	300x555x610 mm
Weight	56 kg
Power	200 W
Model	UTC-0750
Dimensions (WxLxH)	950x1050x1250 mm
Weight	255 kg
Power	1500 W

About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

- NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing
- Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal
- Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclometers, Extensometers, Tiltmeters, Load Cells and Dataloggers