Handheld Homogeniser, SHM1

- Ergonomic design
- Variable motor speed 5,000 to 35,000rpm
- Processing range from 0.03ml-100ml
- Can be used with robust polycarbonate disposable probes or stainless steel ones

The Stuart® SHM1 is a powerful, variable speed, homogeniser. The high-speed, high-torque motor makes the unit ideal for most homogenising applications. During operation the rotor shaft, which is directly coupled to the motor, spins at up to 35,000rpm. The tube assembly that fits around the shaft remains static and as the rotor shaft spins, within the tube assembly, it creates a pumping action drawing the sample into the open end of the tube, or probe, and forcing it through the windows at the bottom of the tube assembly. This shearing action reduces the particle size of the sample. In addition the speed differential between the rapidly moving rotor, and the static tube assembly creates cavitational force, further dismantling the sample to additionally reduce particle size.

The SHM1 is lightweight making it comfortable to use, and most samples can be processed within thirty seconds. For longer processing the unit can be stand mounted using the included post clamp assembly. A retort stand is available separately.

The SHM1 can accommodate a selection of stainless steel probes for larger and tougher samples and also our polycarbonate disposable probes. Disposable probes are suitable for hard tissues and ideal where cross contamination is of concern. If necessary disposable probes can be easily dismantled and autoclaved up to seven times.

Through careful selection of probe type, samples of 0.03ml to 100ml can be processed.

All Stuart® homogenisers are supplied with a tool kit for dismantling the rotor probes for easy cleaning

Technical specification

	SHM1
Motor	125 watt
Speed control	5,000 to 35,000rpm
Processing range	0.03ml to 100ml
Sound level	<72 db
Net weight, kg	0.5
Dimensions, mm (h x Ø)	160 x 55
Electrical supply	220-240V, 50Hz
IP Rating	30

Ordering information

Model	Description
SHM1/UK	Handheld homogeniser, UK plug
SHM1/EURO	Handheld homogeniser, European plug

SHM1

SHM1 with SHM/STAND