

Homogeniser, handheld, SHM1



The Stuart® SHM1 is a powerful, variable speed, homogeniser. The high-speed, high torque motor makes the unit ideal for most homogenising applications. It's lightweight making it comfortable to use and most samples can be processed within thirty seconds.

Accommodates a selection of stainless steel dispersing tools for larger and tougher samples or a disposable polycarbonate tool. The disposable tool is suitable for hard tissues and ideal where cross contamination is of concern. If necessary, disposable tools can be easily dismantled and autoclaved for re-use, up to seven times.

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



MD/12010

Homogeniser, laboratory, SHM3



With an 850 watt motor, the Stuart SHM3 is not only powerful but provides maximum versatility being able to process virtually any sample, from tissue homogenisation, cell disruption, emulsions, suspensions to protein extraction. A selection of stainless steel probes for larger samples can be accommodated. In addition, reusable polycarbonate disposable probes can be used which 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. Supplied with a tool kit for dismantling the rotor stator generator probes for easy cleaning.

- Digital controller ensuring accurate speed selection
- Timer including 30 second countdown timer
- Soft start ensures smooth processing without splashing
- Can be handheld or stand mounted
- Variable motor speed 5,000 to 25,000rpm
- Processing range from 200µl – 2L
- Powerful 850 watt motor



MD/12022

Technical Specifications

Model	SHM1	SHM3
Motor	125 watt	850 watt
Speed control, rpm	5,000 to 35,000	5,000 to 25,000
Processing range	0.03ml to 100ml	200µl to 2L
Sound level	<72db	<72db
Net weight, Kg	0.5	1.6
Dimensions, mm (h x Ø)	160 x 55	216 x 70
Electrical supply	220-240V, 50Hz	220-240V, 50Hz
IP rating	30	30

Cat. No.	Code	Description
MD/12010	SHM1/UK	Homogeniser, handheld
MD/12022	SHM3/UK	Homogeniser, laboratory

Dispersing tools and accessories

Stainless steel dispersing tools are available in a variety of sizes. All are precision engineered and suitable for autoclaving. The 5mm size has a flat end, all other sizes have a saw tooth end and are capable of processing hard or frozen tissue.

The disposable tool is specifically designed for use with the Stuart homogenisers. They are manufactured from robust polycarbonate and can either be disposed of after each sample or autoclaved for re-use, up to seven times.

Please note; it is necessary to use adaptor SHM/ADAPT, available separately, to use the disposable tool SHM/DISP in either model.

Technical Specifications

Tool	SHM/5	SHM/7	SHM/10	SHM/20	SHM/DISP
Size	5mm	7mm	10mm	20mm	7mm
Type	Flat head	Saw tooth	Saw tooth	Saw tooth	Saw tooth
Length	75mm	115mm	115mm	195mm	110mm
Processing	0.03ml - 5ml	0.25ml - 30ml	1.5ml - 100ml	50ml - 2L	0.25 - 30ml

Cat. No.	Code	Description
MD/12030	SHM/5	Dispersing tool, stainless steel, 5mm
MD/12032	SHM/7	Dispersing tool, stainless steel, 7mm
MD/12034	SHM/10	Dispersing tool, stainless steel, 10mm
MD/12036	SHM/20	Dispersing tool, stainless steel, 20mm
MD/12038	SHM/DISP	Dispersing tool, disposable, pack of 25
MD/12040	SHM/ADAPT	Adaptor for disposable tools
MD/12042	SHM/STAND	Stand suitable for either SHM1 or SHM2



MD/120