

# Standard Laboratory Mixer

## TECHNICAL DATA SHEET

### General Description

Model	L5M-A
Capabilities	Mixing, Emulsifying, Blending, Homogenising, Disintegrating, Particle size reduction, De-agglomeration, Gelling, Solubilising, Reaction acceleration

### Construction

Wetted surfaces	316L Stainless steel
Bench Stand	White nylon (non-chip) coating. Stainless steel finish optional extra.
Stators	GPDH, SQHS, EMSC, AFLH (2 frame arm standard assembly)
Mixing Assemblies	Over 40 assemblies available, including Tubular, In-Line, Duplex & Ultramix
Bush material	Bronze Alloy or PTFE (standard) others available on request

### Motor specification

Power rating	1 hp
Drive speed	Infinitely variable speed
	Nominal maximum speed 8000 rpm
Frequency	50 Hz
Voltage	220 V
Watts	750 W
Phase	1 (single)

### L5M-A Functions via touch pad controls

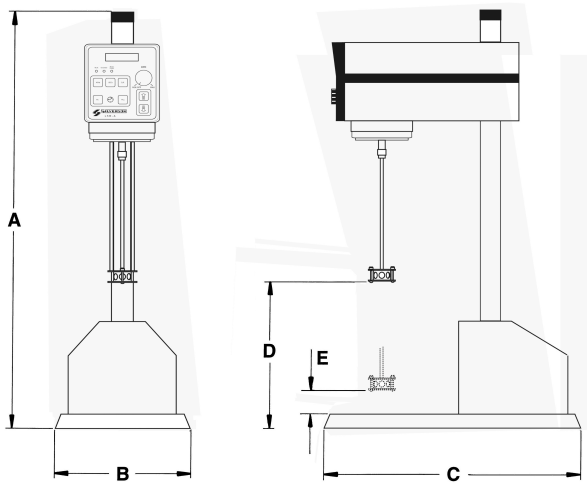
Digital tachometer,  
Integral programmable timer  
Amperage display  
Constant speed setting

### Operating specification

Maximum pressure	Atmospheric (standard)
Vessel volume	1ml to 12 litres (water)
Rotor blades	4
Net weight	25 kg

### Operating data

Rotor diameter	30 mm
Tip speed	10 m/sec
Shear rate†	42,957 s <sup>-1</sup>
Turnover rate	4.16 t/min based on 12 litre vessel, GPDH at 6000 rpm



A	B	C	D Maximum Height	E Minimum Height
940	305	508	330	30

### Advantages

#### Scale-Up

Accuracy in forecasting the performance of large machines under full-scale working conditions.

#### DataLogger Program (optional extra)

The L5M-A can be connected to a computer via USB port. The DataLogger system records speed and power draw over time and can display this as a graph. The information is also saved in a database

#### Electric Bench Stand

The mixing unit may be effortlessly raised and lowered using the touch pad controls on the motor unit.

#### Performance

Unsurpassed speed and efficiency in every day laboratory work. Consistent and repeatable results every time. Ideal for small scale production.

#### Cleaning

A short run in water, detergent or an appropriate solvent between successive operations is normally sufficient. For more thorough cleaning, dismantling is easy and downtime is minimal.

#### Benefits

Touch pad operation for clean and reliable operation, a high level of instrumentation and automation with 40 interchangeable mixing assemblies available.

† Shear rates will be dependant on product and installation. Nominal shear rates quoted as a guide.  
All dimensions shown are in inches. The dimensions shown are approximate only and certified diagrams should be used for installation purposes. Silverson Machines reserves the right to change dimensions and specifications without notice.

