Standard Laboratory Mixer
TECHNICAL DATA SHEET

General Description

Model	L5 Series
Capabilities	Mixing, Emulsifying, Blending, Homogenising, Disintegrating, Particle size reduction, De-agglomeration, Gelling, Solubilising, Reaction acceleration

Construction

Wetted surfaces	316L Stainless steel
Motor housing & Base	White nylon (non-chip) coating. Stainless steel finish optional extra
Stators	GPDH, SQHS, EMSC, AFLH (2 frame arm standard assembly)
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	0.33hp
Drive speed	Infinitely variable speed Nominal maximum speed 8000 rpm 6000 rpm under full load
Frequency	50 Hz
Voltage	220 V
Watts	250W
Phase	1 (single)

L5 model range

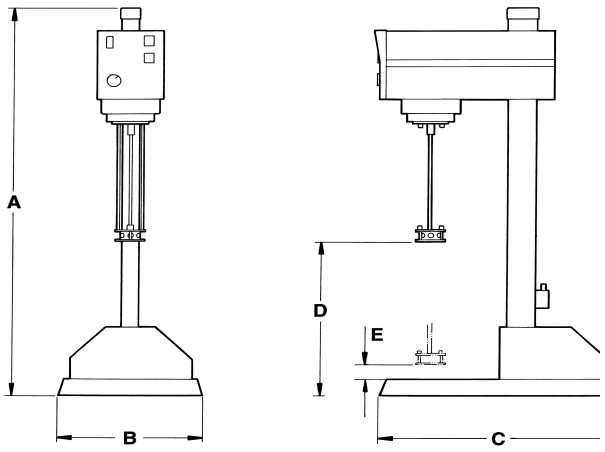
L5M	Digital tachometer, Integral timer and Amperage display; Constant speed setting
L5T	Digital tachometer display only
L5R	Base model supplied without tachometer, amperage display or constant speed setting

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
‡Nominal Shear rate	42,957 s^{-1}
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.

Workheads
Over 40 interchangeable mixing assemblies and workheads available including Pumphead, In-Line and Duplex assemblies

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 millimetres. 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.