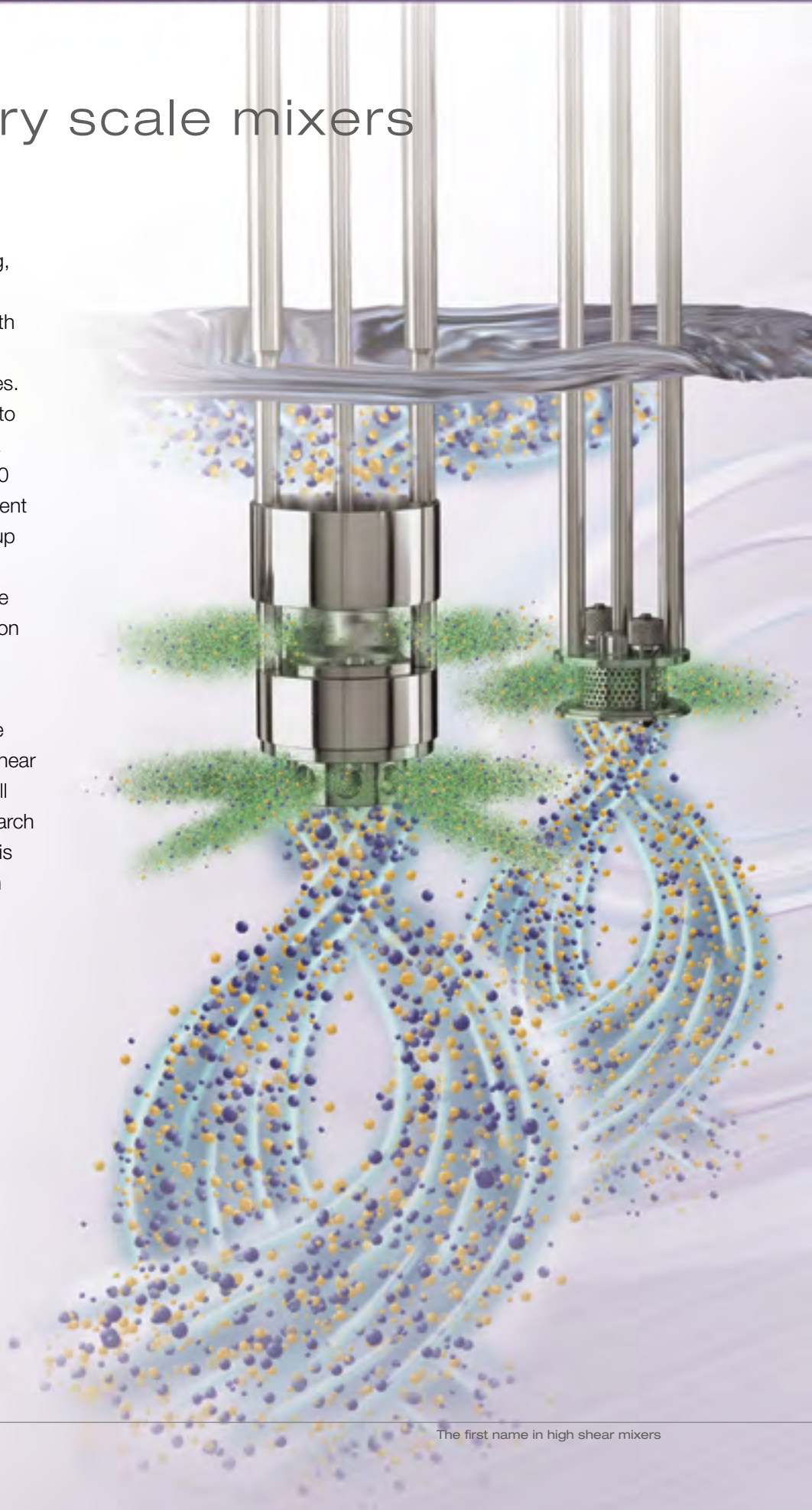


*better mixers, better results*

## Laboratory scale mixers

Silverson Laboratory mixers are suitable for the widest range of applications - mixing, emulsifying, homogenising, disintegrating, dissolving - with an efficiency and flexibility unmatched by other machines. With a capacity from 1ml up to 12 litres and the ability to mix in-line with flow rates up to 20 litres/minute, they offer excellent reproducibility when scaling up and provide an accurate and easy means of forecasting the performance of larger Silverson machines under full-scale working conditions.

The Silverson L5 Series is the latest development in High Shear Laboratory mixing, ideal for all routine laboratory work, research and development, QA analysis and small scale production in all industries.



## L5 Series mixers

### L5M Mixer

The multifunctional L5M Model features touch pad control with digital tachometer, programmable integral timer and amperage display, all accessed via the Mode button. This level of instrumentation is invaluable for applications where process validation and reproducibility are required.

### Motor unit

Motor 250W (0.33hp) 220 volt, single phase (110 volt optional), 50/60 Hz. Nominal maximum speed 8000 rpm (6000 rpm under full load).

### Speed control

Infinitely variable electronic speed control with integral on/off switch.

### Electric rise & fall bench stand

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

### Construction

All wetted parts are in grade 316 stainless steel with the exception of the bush, which may be bronze alloy or PTFE.

The L5 is finished in a tough, easy-to-clean, non-chip white nylon coating. The flat base is covered by a removable non-slip solvent-resistant mat.

### L5T Mixer

Similar to the model L5M but supplied with tachometer only.

### L5M-A Mixer

As model L5M but fitted with a more powerful 750W (1hp) motor. The L5M-A can be connected to a computer via USB port for use with the Silverson "DataLogger" program, allowing monitoring and recording of speed and power draw during operation.

### Interchangeable mixing assemblies

Standard assembly (two arm) supplied complete with a General Purpose Disintegrating Head, Square Hole High Shear Screen, Standard Emulsor Screen and Axial Flow Head.

Slotted Disintegrating Heads, Fine Emulsor Screen, Pump Heads and other special heads are available as optional extras, see overleaf.

Capacity - depending on viscosity - up to 12 litres. Mixing unit dimensions – length 290mm (11 1/2"), width 57mm (2 1/4").



## Mixing assemblies

### **Duplex assembly**

The Duplex comprises two workheads facing in opposite directions. The upper head pulls materials down from the surface of the mix, and provides a coarse disintegrating action, while the lower head draws material up from the base of the mixing container, further reducing particle size to accelerate solubilisation or suspension.

This combined use of two workheads makes the Duplex ideal for high viscosity mixes and applications where light or buoyant material (powders, rubbers and polymers, etc.) needs to be drawn down from the surface of a mix and rapidly dispersed.

### **Typical applications**

- Rapid solution of rubbers and polymers for the production of lubeoils, adhesives and bituminous compounds
- Disintegration and dissolving solid resin for varnishes
- Vegetable and meat purée/slurries

### **Tubular mixing assemblies**

A series of interchangeable tubular mixing units suitable for use in narrow-necked containers is available, with capacities from 1 - 500ml.

#### **1" tubular**

Capacity, depending on viscosity, 50ml up to 500ml.

#### **3/4" tubular**

Capacity, depending on viscosity, 20ml up to 250ml.

#### **5/8" micro**

Capacity, depending on viscosity, 5ml up to 50ml.

#### **3/8" mini-micro**

Capacity, depending on viscosity, 1ml up to 10ml.

### **Ultramix**

The Silverson Ultramix is designed for applications which are beyond the capabilities of a conventional agitator or stirrer but do not necessarily require the intense high shear of a Silverson rotor/stator mixer.

