



innovation · performance · productivity

High Speed Mixers

High-Speed Change Bowl mixers from Xtrutech for laboratory and development are perfect for; mixing powders, pellets, flakes and liquids.

Safe, simple to use and easy to clean.



Applications:

Powder Coatings Master Batches Pharmaceuticals

PVC Dry Blends Plastisol's Polymers

Ceramics Chemicals Food



Xtrutech Change-Bowl Mixers for laboratory and development

The Xtrutech High Speed Mixer M3 and M5 are designed for bench-top operation. Each lift-off tank can be placed on a scale, so that ingredients can be weighed directly and conveniently. Tanks are locked to the mixer quickly, easily and safely.

A thermocouple is mounted in the baffle blade to monitor product temperature, which is displayed on the fascia. Impellor speeds can be adjusted for optimum mixing, and the modular impellor can be reconfigured for different materials.

Mixing cycles can be pre-set for repeatable batches.

On completion of the mixing cycle, the tank can be removed easily from the mixer, to carry product to downstream processing.

Xtrutech fixed-bowl mixers for production applications

Larger units have a fixed-bowl design with contoured discharge valves for efficient mixing and simple product discharge. Mixing tanks are single wall or jacketed for temperature control, via an external circulator.

An optional control for **PVC dry blends** enables the mixer to switch to a cooled, low speed cycle once a pre-set temperature is reached. A simple manual control panel is standard with each mixer. For special operations, a plc-controlled version can be supplied with touch screen operator interface.

The larger mixers feature single or two-speed motors to enable efficient mixing at high speeds and reliable discharge at low speeds. A heavy-duty mechanical seal, ensures a long life in production applications.

Pharmaceutical mixers available

Pharmaceutical versions, to GMP design, are available with removable bowls, stainless steel construction and a dust-tight touch screen operator interface.

Application benefits

High-speed premixing ensures efficient distribution of the many ingredients in a powder coatings formulation, with the added benefit of breaking down resin flakes to provide a uniform pre-blend. Trials have shown that high-speed premixing improves colour development and allows the same colour strength to be obtained with lower pigment concentrations. With a simple change of the blade, the mixer is converted to **an industrial lab grinder / mill** for powder coatings.

Masterbatch dry-blends can be prepared with a wax dispersion aid. The XTS High Speed Mixer is used to heat the polymer granules so that wax melts and pigment adhere to the granules' surfaces. As in **PVC dry-blend** applications, an optional feature allows a maximum product temperature to be pre-determined, so that when the temperature is reached, the mixer will automatically reduce impellor speed and open a solenoid valve for bowl cooling.

Food and Pharmaceutical product development call for thorough cleaning of the process contact parts. The bowl and impellor can be removed quickly and easily to promote cleaning, and the stainless-steel change-bowl design meets GMP standards. Fixed-bowl versions can be fitted with a mechanical impellor seal and special discharge valve for mixing **Plastisol's**.

Xtrutech's Global Service Department;
Supporting our customers World-Wide
Xtrutech is a leading supplier of
bespoke Laboratory and R&D
equipment along with our range of
Twin-Screw Extruders and supports
customers globally.

Extra tanks can be purchased separately





engineered with **x**cellence

Specification		Model 3	Model 5	Model 10
Type		Bench Mounted	Bench Mounted	Floor Standing
Mixing	Tank	Lift-off	Lift-off	Fixed
Total Volume	Litres	3	5	10
Working Volume	Litres	0.75 – 2.0	1.25 – 3.5	1 – 6
Variable Blade Speed	rpm	600 – 6,000	600 – 3,000	600 – 3,000
Motor Power	kW	1.1	1.1	3.0
Power Supply	Volt/ Ph/Amp	220V/1ph/16A	220V/1ph/16A	400V/3ph/20A
Dimensions L x W x H	CM	67 x 46 x 56	69 x 46 x 59	85 x 65 x 120
Approx. Weight	kg	80	85	200

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