

Homogenizer

PROCESSING MACHINES

ROTOR-STATOR EMULSIFICATION

HIGH-SHEAR EMULSIFIER HEAD

HIGH SHEAR



MANUFACTURED IN WAGLE ESTATE, THANE

OUTPUT CAPACITY

50 L to 1000 L Batch Capacity

FILL VOLUME RANGE

Viscosity up to 50,000 cPs

VOLUMETRIC ACCURACY

1 to 5 Micron Droplet Dispersi

CONTACT METALLURGY

SS 316 / Mirror Polish

CORE PRINCIPLE & AUTOMATION DESIGN:

High-shear homogenizing head with precision SS Rotor and Stator on tie rods directly coupled to high-speed motor. Supported on telescopic channel stand with rope hoist for raising and lowering.

1. TECHNICAL OVERVIEW & MACHINE WORKING PRINCIPLE

The homogenizing head consists of SS Rotor & SS Stator supported on the motor via SS tie rods, with the rotor driven directly by the high-speed motor. Supported on a telescopic channel stand with a rope arrangement for effortlessly raising and lowering into processing vessels.

2. TECHNICAL PARAMETERS MATRIX

SPECIFICATION PARAMETER	ENGINEERING STANDARD / RANGE
Motor Speed	2800 RPM direct drive
Batch Volume	50 Litres to 1000 Litres
MOC Contact Parts	SS 316 mirror finished
Lifting Mechanism	Telescopic channel with wire rope hoist

3. MECHANICAL CAPABILITIES & FEATURES

Key Mechanical Inclusions:

- + Precision-machined SS 316 rotor and stator shearing elements
- + Direct drive motor configuration delivering maximum shear force
- + Telescopic channel stand with counterbalanced rope hoist
- + Sanitary tie-rod construction with rapid strip-down for cleaning

Tested Products & Viscosities:

- Skin creams, lotions, and sunscreens
- Pharmaceutical ointments, suspensions & emulsions
- Mayonnaise, food spreads & sauces
- Paint emulsions & chemical pastes

TARGET INDUSTRIES & COMPATIBLE FORMULATIONS:

Cosmetics / Toiletry | Pharmaceutical | Food & Beverage

Tested Formulations: Skin creams, lotions, and sunscreens, Pharmaceutical ointments, suspensions & emulsions, Mayonnaise, food spreads & sauces, Paint emulsions & chemical pastes

FACTORY ACCEPTANCE TESTING (FAT) & CGMP VALIDATION PROTOCOL

Manufactured under Schedule M and cGMP guidelines with sanitary mirror-polish SS 316 / SS 316L contact metallurgy. Clients and procurement engineers are welcome to our Wagle Estate, Thane factory for pre-dispatch Factory Acceptance Testing (FAT) with actual product containers and fluids. Full IQ/OQ qualification documentation and turnkey on-site SAT commissioning supported across India.

MANUFACTURING PLANT (THANE, MUMBAI):

Filltech Packaging Machines (Formerly BVS Pharma)
115, New Modella Industrial Estate, Padwal Nagar,
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Engineering Portal: https://filltech.in

FACTORY ACCEPTANCE & VERIFICATIONS:

Pre-Dispatch FAT: Container Trials at Thane Works
Verified Supplier: IndiaMART | TradeIndia | ExportersIndia
Machinery Trial Videos: @FillingMachinesIndia