

## Digital High Speed Homogenizer (Hand Held)



**TL-150HD**

TOPLAB INDIA'S Digital High Speed Homogenizer is sleek, sound-insulated casing conceals enough power to safely and quickly handle a variety of applications. Used for homogenizing, emulsifying or suspending. There is a broad spectrum of dispersing tools to choose from. Our broad range of dispersing aggregates cover the range from preparing samples to testing product formulas and recipes.



TOPLAB TL-150HD is the ideal solution for cost-conscious laboratories. It is able to perform homogenizations liquid with volumes from 0.5~50ml (H<sub>2</sub>O) / 1~250ml (H<sub>2</sub>O). The electronic control system continuously monitors the speed and automatically adjusts it, keeping it constant with changing viscosity.

Aggregates with a variety of styles and diameters are available to provide optimum particle size reduction when using this drive. There are many different styles of aggregates available.

### ADVANTAGES:

- Use for mixing, emulsification, shredding, or chopping.
- Smart & Light design, suitable for One hand operation.
- Digital display speed control from 8K to 35K rpm.
- Practical answer for small samples.
- Easy to hold and light weight for one hand operation.
- High quality stainless steel dispersing head, anti-corrosion, high temp. resistance for disinfecting.
- All shafts are interchangeable shafts and are easily removed for cleanup.
- High speed motor. Speed control from 8,000 to 35,000 rpm
- Optional H-Type Stand, Height and angle can be adjusted.

### ERGONOMICS:

- Easy operation with an on-off switch
- Intelligent variable speed control for long equipment life
- Speed stability even with changes in viscosity
- Easy adjustment of motor height
- Switch aggregate quickly with Click & Go coupling
- Easy aggregate clean-up with Easy Clean Design

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### APPLICATIONS:

- General homogenization applications (dispersion and emulsification)
- Homogenising of tumour tissue sample, for research of diverse tissue diseases
- Fast dissolving of pills, sugar-coated tablets for quality control purposes
- Sample preparation for subsequent extraction of pharmaceutical agents (API)
- Cell disruption, RNA / DNA isolation from tissue
- Dispersion of small quantities from plants, animals or human tissue
- Solving of solid materials

### TECHNICAL SPECIFICATION:

Model	TL-150HD
Speed Range (rpm)	8,000 ~ 35,000 rpm
Speed Increment (rpm)	1K rpm increment
Process Volume Range H <sub>2</sub> O(ml)	0.5 ~ 50ml / 1 ~ 100ml / 1 ~ 250ml
Input/output Power (W)	160 W / 110 W
Max. Viscosity	5,000 mPa-s
Contact Material	SS316 Stainless Steel
Max. Circum. Speed	6.3 ~ 14 m/Sec
Noise Emission	66 dB at 25,000 rpm / 72 dB at 35,000 rpm
Protection Class	IP20
Ambient Temperature	0°C~ 50°C
Relative Humidity	85% RH
Dimensions (L x D x H in mm)	46 x 55 x 230 mm
Power supply	AC220V, 50Hz
Weight	1.0 Kg

### DESPRESING HEAD/SHAFT SELECTION GUIDE & STAND:

Model	TL-50A	TL-100B	TL-250C
Length	150mm	167mm	180mm
Rotor Diameter	6mm	8mm	10mm
Dipping Depth Min/Max.	20/90mm	20/107mm	20/120mm
Volume Range	0.5 ~ 50ml	1 ~ 100ml	1 ~ 250ml
Material	SS316 Stainless Steel		
Stand for Homogenizer :			
TL-H-STD	H-Type Stand: Used to hold the Homogenizer, Height and angle are adjustable		

