

High Speed Homogenizer

TOPLAB INDIA'S High Speed Homogenizer is sleek, sound-insulated casing conceals enough power to safely and quickly handle a variety of applications. Our broad range of dispersing aggregates cover the range from preparing samples to testing product formulas and recipes.



TL-D500



TOPLAB TL-D500 is the ideal solution for cost-conscious laboratories. It is able to perform homogenizations with volumes from 0.05 to 4000 ml. The electronic control system continuously monitors the speed and automatically adjusts it, keeping it constant with changing viscosity.

TL-D500 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 from 3mm in diameter for volumes down to 0.01 mL to 12mm for volumes up to 4000mL. If cross contamination from sample to sample is a concern, we offer single use synthetic aggregates in 7 and 12 mm diameters.

ADVANTAGES:

- 500 Watt motor provides sufficient power and high speed necessary for efficient particle size reduction
- 6 modes motor speed control from 10,000 to 30,000 rpm
- Aggregate tip speeds up to 36 m/s produce the finest particles possible
- Soft start prevents splashing of homogenate from sample vessel
- Thermal fuse for overload protection
- Speed remains constant even when viscosity changes
- Aggregate replacement using one-handed quick-release coupling
- Insulated motor housing keeps motor noise to a safe, approved level
- 316L stainless steel shafts are fully Autoclavable and inert for highly corrosive solutions
- Various models of dispersing aggregates which are Easy-to-Clean and designed for many different applications

ERGONOMICS:

- Easy operation with an on-off switch and speed control
- 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:

- Using this drive, a variety of dispersing, homogenising and suspension applications can be realized. Our Application team is looking forward to advice you regarding your application.
- Creation of dispersions and emulsions
- Dispersing of plant, human or animal tissue, resins and pigments
- Solving of solid materials ,Creation of suspensions
- Formulation of lotions, creams and food , Production of oil-water emulsions
- Sample preparation for subsequent extraction of pharmaceutical agents (API)
- From plant and animal tissue and for API dispersion in pharmaceutical products
- Excellent for quality assurance and quality control

TECHNICAL SPECIFICATION:

Model	TL-D500
Speed Range (rpm)	10,000 - 30,000 rpm
Process Volume Range (ml)	10 - 4000 mL
Motor Type (Universal Motor)	AC carbon brush motor
Motor Power (W)	500 W
Speed Control Dial knob	6 Stage
Max. Circum. Speed	22.7 - 36 m/sec
Max. Viscosity	10,000 mPas
Contact Material	316L Stainless Steel / PTFE
Noise Emission	79 dB(A)
Protection Class	IP20
Dimensions (L x D x H in mm)	70 x 70 x 255 mm
Weight	1.3 kg
Input Power	AC220V, 50Hz

Accessories for High Speed Homogenizer



Model	2503	2505	2507	2509	2512	2520	2520F
Order No.	25030004	25030012	25030031	25030030	25030062	25200069	252F0091
Length	50mm	85 mm	107 mm	82mm	123 mm	192mm	170mm
Stator Di-amer	3 mm	5.6 mm	7.8 mm	7.8 mm	12 mm	20 mm	20 mm
Rotor Di-amer	1.8 mm	3 mm	5 mm	5 mm	9 mm	15 mm	15 mm
Linear Ve-locity	4.0 m/s	4.7 m/s	7.8 m/s	7.8mm	14.1 m/s	22 m/s	22 m/s
Volume Range	0.05 - 2 ml	0.1 - 5 ml	0.3 - 10 ml	0.3-10ml	2 - 250 ml	100 - 2000 ml	100 - 2000 ml
Application	Small plant samples, animal and human tissue; fits to round bottom Eppendorf tubes	Small plant samples, animal and human tissue; solid solutes, cell disruption	Animal tissue, solid solutes	Extracts, prepara-tion of suspension and latex; one time use only (25 pcs per package; sterile)	Cells, plants, animal tis-sue, hu-man tissue	Plants, animal tis-sue, hu-man tissue, resin, col-ouring matter	Prepara-tion of suspension and latex, pharma-ceutical shells