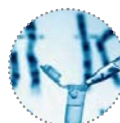


When Speed & High Quality Meet
Creating Power to Disperse

Handheld Homogenizer D-130



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

Features

- > Use for mixing, emulsification, shredding, or chopping.
- > Practical answer for small samples.
- > Easy to hold and light weight for one hand operation.
- > Autoclavable stainless steel shafts. Inert to aggressive solutions.
- > All shafts are interchangeable shafts and are easily removed for cleanup.
- > High speed motor. Speed control from 8,000 to 30,000 rpm.

Specifications

Model	D-130
Speed with Zero-Load (rpm))	8000 ~ 30000
Process Range H ₂ O(mL)	0.1 ~ 50 (H ₂ O) / 1 ~ 250 (H ₂ O)
Input / Output Power (W)	130
Contact Material	316L Stainless Steel)
Optional working head	Ø5mm/L90mm(0.1 ~ 50mL) Ø10mm/L150mm(1 ~ 250mL)



D-130
8000 ~ 30000RPM
Order No.: 1710130



stand
Order No.: 1710130-01

Accessories for D-130

Model	DS-130/5	DS-130/7	DS-130/10	DS-130/14
Length	90mm	160mm	150mm	170mm
Rotor Di-ameter	5mm	7mm	10mm	14mm
Volume Range	0.1-50ml	0.3-50ml	1-250ml	2-250ml



High Speed Homogenizer

Used for homogenizing, emulsifying or suspending. There is a broad spectrum of dispersing tools to choose from.



Advantages of homogenizer

- > Continuously adjustable speeds for better results
- > Light-weighted and small-dimensioned for better handling
- > Triple safety of the drive (overload protection. Smooth start – against jerky work, safety switch)
- > High quality dispersing tools as standard for better resistance to corrosion (SS 316 L steel)
- > Quick-change system of the dispersing tools for a short changing time between preparations
- > Viscosities up to 10,000 cps
- > One shaft size
- > High quality lab dispersing unit, at a competitive price!!



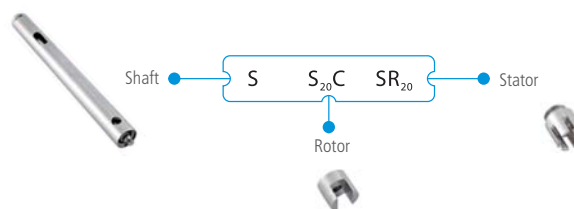
Specifications

D-500	
Speed with Zero-Load (rpm)	10000 ~ 30000
Process Range H ₂ O(mL)	10 ~ 40000
supply voltage (V)	220V 50/60Hz
Input / Output Power (W)	500/320
Weight (kg)	1.3
Contact Material	316L Stainless Steel / PTFE
Dimensions (W x L x H in mm)	70X70X255
Order No.	1710500

Buy one set of D-500 (includes homogenizer, shaft and stands), get one dispersion cup free



Shaft Selection Guide for High Speed Homogenizer



Shaft 5

Includes: Shaft, PTFE bearing, 5 mm stator, 4 mm rotor



SS20CSR20

Includes: Shaft, PTFE bearing, 20 mm stator, standard rotor SR20



SS20FER20

Includes: Shaft, PTFE bearing, 20 mm stator, emulsification rotor ER20



SS30CSR30

Includes: Shaft, PTFE bearing, 30 mm stator, standard rotor SR30



SS30FER30

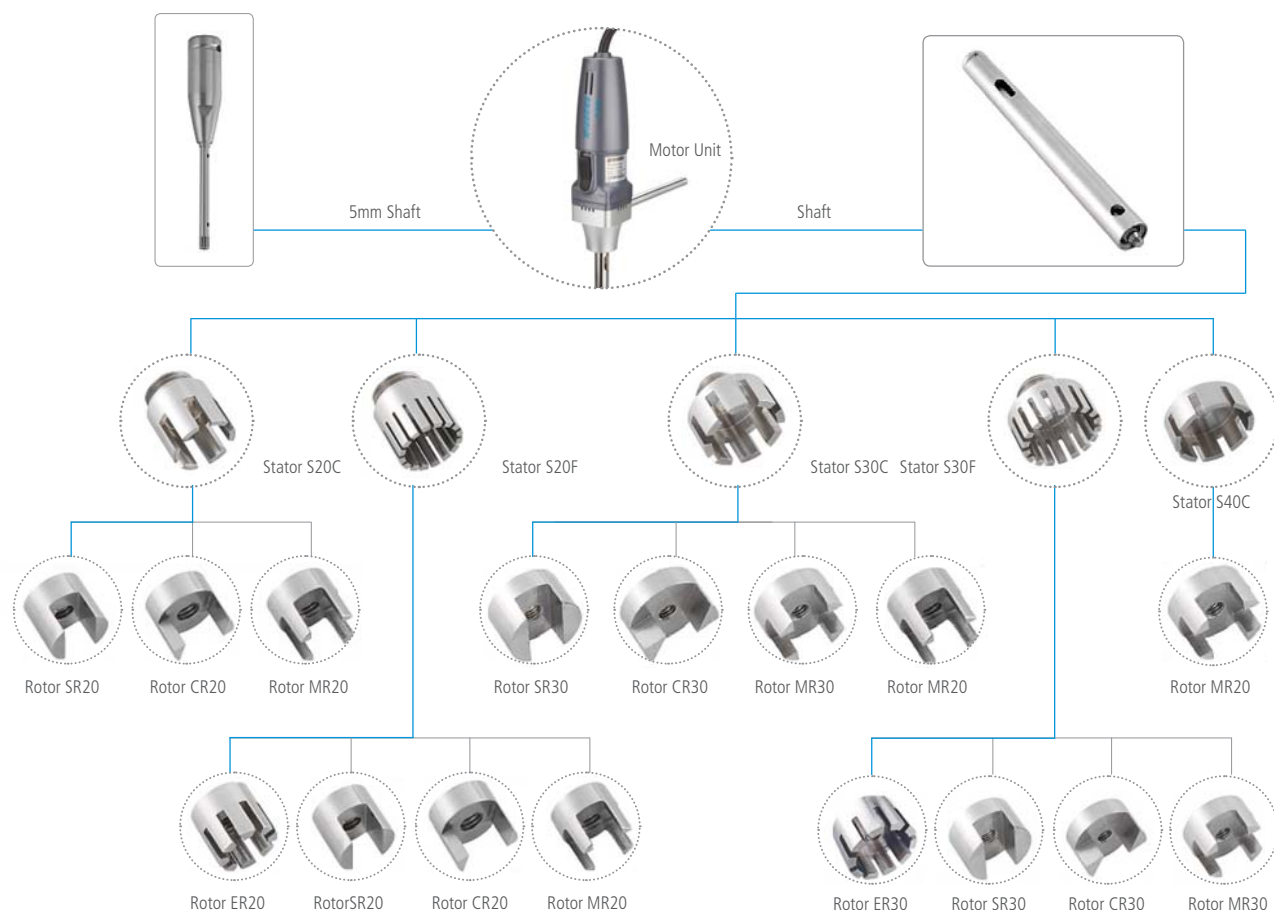
Includes: Shaft, PTFE bearing, 30 mm stator, emulsification rotor ER30



SS40CMR30

Includes: Shaft, PTFE bearing, 40 mm stator, mixing rotor MR30

Breakdown Diagram



Shaft / Order Table

Rotor Name	Function Description	Process Volume	Linear Velocity	Rotor Diameter	Stator Diameter	Min. / Max.	Ultimate Fineness (in microns)		Disinfection Method	Applications*
Order No.		mL	m/s	mm	mm	Immersion Depth	suspension	emulsion		
SS20CSR20	Solid-Liquid Mixing Material	10-5000	23.5	15	20	40/170	10-50	1-10		P,CI,PC,SD
SS20CCR20	Fiber Material	10-5000	23.5	15	20	40/170	10-50	1-10		SP,M,F,PT,TI
SS20CMR20	Solid-Liquid Mixing Material	10-5000	23.5	15	20	40/170	10-50	1-10		CI,PI
SS20FER20	Latices	10-5000	23.5	15	20	40/170	10-50	1-10		SP,PI,PT,P
SS20FCR20	Fiber Material	10-5000	23.5	15	20	40/170	10-50	1-10		SP,BT,M,F,PT,TI
SS20FMR20	Solid-Liquid Mixing Material	10-5000	23.5	15	20	40/170	10-50	1-10		CI,C,PI,F,PT,PC
SS30CMR20	Stirring Paddle Function	250-20000	36.1	15	30	40/170	High-speed mixer			CI,F,SP
SS30CSR30	Solid-Liquid Mixing Material	100-8000	36.1	23	30	40/170	5-25	1-5		SP,M,F,PT,P
SS30CCR30	Fiber Material	100-8000	36.1	23	30	40/170	5-25	1-5		SP,M,F,PT,P
SS30CMR30	Solid-Liquid Mixing	100-8000	36.1	23	30	40/170	5-25	1-5		CI,PI
SS30FSR30	Solid-Liquid Mixing Material	100-8000	36.1	23	30	40/170	5-25	1-5		SP,PI,PT,P
SS30FER30	Latices	100-8000	36.1	23	30	40/170	5-25	1-5		SP,PI,PT,P
SS30FMR30	Solid-Liquid Mixing Material	100-8000	36.1	23	30	40/170	5-25	1-5		CI,C,P,F,DT,TI
SS30CMR30	Stirring Paddle	1000-40000	36.1	23	40	40/170	High-speed mixer			CI,F,SP
Shaft 5	Solid-Liquid Mixing Material	0.2-50	6.3	4	5	40/60	10~50	1~10		BT,M
Shaft 10	Solid-Liquid Mixing Material	1-250	6.3	9	10	10/60	10-50	1-10		BT,M
Shaft 14	Solid-Liquid Mixing Material	100-1000ml	6.3	13	14	10/60	10-50	1-10		BT,M

Note: BT = Biology; F = Food Industry; P = Pharmaceutical Industry; C = Cosmetic Industry; M = Medical Analysis; PC = Petrochemical Industry; PT = Paper Production Industry; SP = Wastewater Analysis; CI = Ceramic Industry; CH = Chemical Industry; PI = Paint Industry; TI = Tobacco Industry



Digital High Speed Homogenizer D-500D

The 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.

The D500-D is the ideal solution for cost-conscious laboratories. It is able to perform homogenizations with volumes from 0.05 to 2500 ml. The electronic control system continuously monitors the speed and automatically adjusts it, keeping it constant with changing viscosity. The speed is easily seen on the large digital display.

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 250mL. 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
- > Digital motor speed control from 500 to 30,000 rpm
- > Aggregate tip speeds up to 32 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
- > 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 EasyClean Design



Applications

Using this drive, a variety of dispersing, homogenising and suspension applications can be realized. Our Sales 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

Specifications

Model	D-500D
Speed Range (rpm)	500 – 30.000
Process Volume Range (ml)	0.05 – 2.000
Motor Power (W)	500
Contact Material	316L Stainless Steel / PTFE
Noise Emission	66 dB at 25.000 rpm / 72 dB at 30.000 rpm
Protection Class	IP20
Dimensions (L x D x H in mm)	170 x 102 x 255
Order No.	1710500D

Accessories for Digital 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