

HOMOGENIZERS BenchTop, 500Watt, 10ml-8Liter

HOG-500, Homogenizer

Philosophy made simple, so easy to handle. Ability to achieve quality results fast. It has the speed and power to emulsify, suspend, cut-up and disrupt to yield accurate results every time. Full flexibility as hand-held, post or wall



mounted, with H-stand or plate-stand support. Top speed of high 10,000-30,000rpm, reduces processing time significantly. Big safety switch for unexpected emergency stop. Smooth motor drive makes working very safe and comfortable. Additional feature of automatic overload protection increases the life span of the motor. Smooth start also prevents unnecessary spills.

Process of dispersing:

The material is sucked in to the head axially, then accelerated using the rotor's high rpm rate, circumferential or peripheral velocity. The centrifugal acceleration between the outer rotor wall and the inner stator wall propels the material through the stator shearing slits.

Quick-change-system:

MRC tools consists of only a few parts. One shaft, one axle, one Teflon bearing and one rotor stator. No special tools are needed to disassemble. Only requirement is a simple piece of cloth.

Optional Dispersing shaft: SS5CSR5. Model: DS-500/5

- Volume 1-50 ml • Max. Circum. Speed 5,8m/sec
- Applications: Dispersing shaft 5mm for solid/liquid media Dispersing of tissue decomposition, clinical & medical diagnostics and suspensions. Suitable for centrifuge products and Eppendorf tubes, centrifugal glasses etc. Dia. 5mm.



Model	HOG-500
Motor type	Universal motor, 500 Watt
Voltage / Frequency	110-120V/60Hz , 220-240V / 50-60 Hz
Speed range (rpm)	10,000 - 30,000
Max. Circum. Speed	22.7-36m/sec
Speed control type	Dial knob 7 stage
Working Volume (ml, H₂O)	10-40000ml (Optional)
Max. Viscosity	10,000mPas
Noise emission(drive only)	< 79 dB(A) at 30,000 rpm
Material of Dispersing Shaft	SS 316L stainless steel / PTFE
Dimension LxWxH (mm)	70 x 70 x 255
Weight (kg)	1.3
Operating Environment	0-40°C, 85% rel. humidity
Protection class	IP20

Features:

- Viscosity up to 10,000 mPas
- 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
- 316L steel High quality dispersing tools as standard for better resistance to corrosion
- Quick-change system of the dispersing tools for a short changing time between preparations.

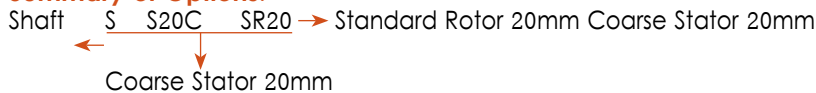
Homogenizers of HOG-500-1/2

Model	Package Include	Power supply
HOG-500-1 (Package 1)	HOG-500 drive, with dispersing shaft 1 for solid/liquid media & H-600 stand, 10-5000ml of water	110-120V, 50/60Hz 220-240V, 50/60Hz
HOG-500-2 (Package 2)	HOG-500 drive, with dispersing shaft 2 for W/O or O/W emulsions & H-600 stand, 10-5000ml of water	110-120V, 50/60Hz 220-240V, 50/60Hz

Model	Description of Dispersing Shaft	Applications / Industry Examples	Treatable Volume (ml)	Max. Circum. Speed (m/sec)	Dia. of the Rotor (mm)	Min/Max Emersion Depth (mm)	Ultimate Fineness (µm)	
							Suspension	Emulsion
DS-500/1	Solid/liquid media	Coarse crushing of hard solids in liquid / Pharma, Petro Industry, Ceramic industry	10-5000	23.5	20	40/175	10-50	1-10
DS-500/2	W/O or O/W emulsions	Emulsions, intensive mixing of w/o & o/w emulsions. Dispersing of resins & pigments for paint & lacquer industry / Sewage/Pollution Control, Paint Industry, Paper & Tissue Industry, Pharmaceutical industry	10-5000	23.5	20	40/175	10-50	1-10

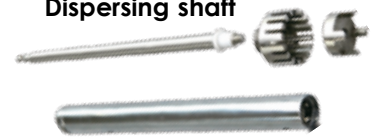
* All kind of sterilization possible

Summary of Options:



- Material used for shaft is high grade fine 316L stainless steel and PTFE for seal
- Dispersing shaft consists of shaft tube, axle, PTFE seal, a rotor and a stator.

Components of Dispersing shaft



Stators:



18900118
S20C Stator
20 coarse (C)



18900119
S20F Stator
20 fine (F)



18900120
S30C Stator
30 coarse (C)



18900121
S30F Stator
30 fine (F)



18900122
S40C Stator
40 coarse (C)

Rotors:



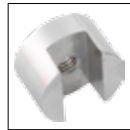
18900123
SR20 Rotor
Standard 20



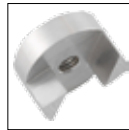
18900124
SR30 Rotor
Standard 30



18900125
CR20 Rotor
Cutter rotor 20



18900126
CR30 Rotor
Cutter rotor 30



18900127
MR20 Rotor
Mixing rotor 20



18900128
MR30 Rotor
Mixing rotor 30



18900129
ER20 Rotor
Emulsifying rotor 20



18900130
ER30 Rotor
Emulsifying rotor 30

Model	Description of Shaft	Applications / Industry Examples	Treatable Volume (ml) (H ₂ O)	Max. Circum. Speed (m/sec)	Dia. of the Rotor (mm)	Min/Max Immersion Depth (mm)	Ultimate Fineness (µm)	
							Suspension	Emulsion
18900118/18900125	Dispersing tool with knives for brous/stringy materials	Fragmentation of vegetable, animal and human tissues / Sewage/Pollution Control, Pharma, Food, Paper & Tissue, Tobacco Industry	10-5000	23.5	20	40/175	10-50	1-10
18900118/18900127	Solid/liquid media	Suspensions, intensive mixing / Ceramic Industry, Paint Industry	10-5000	23.5	20	40/175	10-50	1-10
18900119/18900125	Dispersing tool with knives for brous/stringy materials	Fragmentation of vegetable, animal and human tissues / Sewage/Pollution Control, Bio Technology, Pharma, Food, Paper & Tissue, Tobacco Industry	10-5000	23.5	20	40/175	10-150	1-10
18900119/18900127	Solid/liquid media	Emulsions, intensive mixing of w/o & o/w emulsions / Ceramic, Cosmetic, Paint, Food, Paper & Tissue, Petro Chemistry Industry	10-5000	23.5	20	40/175	10-150	1-10
18900120/18900124	Solid/liquid media	Coarse crushing of hard solids in liquid / Sewage/Pollution Control, Pharma, Food, Paper & Tissue, Petro Chemistry Industry	100-8000	36.1	30	40/175	5-25	1-5
18900120/18900126	Dispersing tool with knives for brous/stringy materials	Fragmentation of vegetable, animal and human tissues / Sewage/Pollution Control, Pharma, Food, Paper & Tissue, Pharma Industry	100-8000	36.1	30	40/175	5-25	1-5
18900120/18900128	Solid/liquid media	Suspensions, intensive mixing / Ceramic Industry, Paint Industry	100-8000	36.1	30	40/175	5-25	1-5
18900121/18900124	Solid/liquid media	Dispersing of resins and pigments for paint and lacquer industry / Sewage/Pollution Control, Paint Industry, Paper & Tissue, Pharma Industry	100-8000	36.1	30	40/175	5-25	1-5
18900121/18900130	W/O or O/W emulsions	Emulsions, intensive mixing of w/o and o/w emulsions. Dispersing of resins and pigments for paint & lacquer industry / Sewage/Pollution Control, Paint Industry, Paper & Tissue, Pharma Industry	100-8000	36.1	30	40/175	5-25	1-5
18900121/18900128	Solid/liquid media	Emulsions, intensive mixing of w/o and o/w emulsions / Sewage/Pollution Control, Cosmetic, Pharma, Tobacco Industry	100-8000	36.1	30	40/175	5-25	1-5
18900120/18900127	Stirring Shaft	High speed mixing without crushing / Ceramic, Food, Sewage/Pollution Control Industry	250-20000	36.1	30	40/175	High-Speed Mixer	
18900122/18900128	Stirring Shaft	High speed mixing without crushing / Ceramic, Food, Sewage/Pollution Control Industry	1000-40000	36.1	30	40/175	High-Speed Mixer	

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