

High Speed Homogenizer

D-500 / D-500 Pro

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

Features

- > 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!
- > D-500pro can maintain constant motor speed by feedback control even under changing loads

Specifications

Model	D-500	D-500 Pro
Speed setting	Knob	Knob
Speed display	Scale	LED
Process Range H ₂ O(mL)	10~40,000mL	10~40,000mL
Speed with Zero-Load (rpm)	10,000~30,000 rpm	500~30,000 rpm
Applicable aggregates	Ø4~Ø23 mm	Ø4~Ø23 mm
Noise Level (dB)	72 dB (30,000 rpm)	66 dB (2500 rpm); 72 dB (30,000 rpm)
Motor	AC	AC
Input / Output Power (W)	500 W	500 W
Supply voltage (V)	220V/50~60Hz	220V/50Hz
Relative humidity (max.)	80% RH	80% RH
Operating temperature	0~40°C	0~40°C
IP Code	IP20	IP20
Dimensions (W x L x H in mm)	Drive:70x70x255 mm	Drive:157x76x236 mm
Weight (kg)	Drive:1.3 kg	Drive:1.8 kg



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



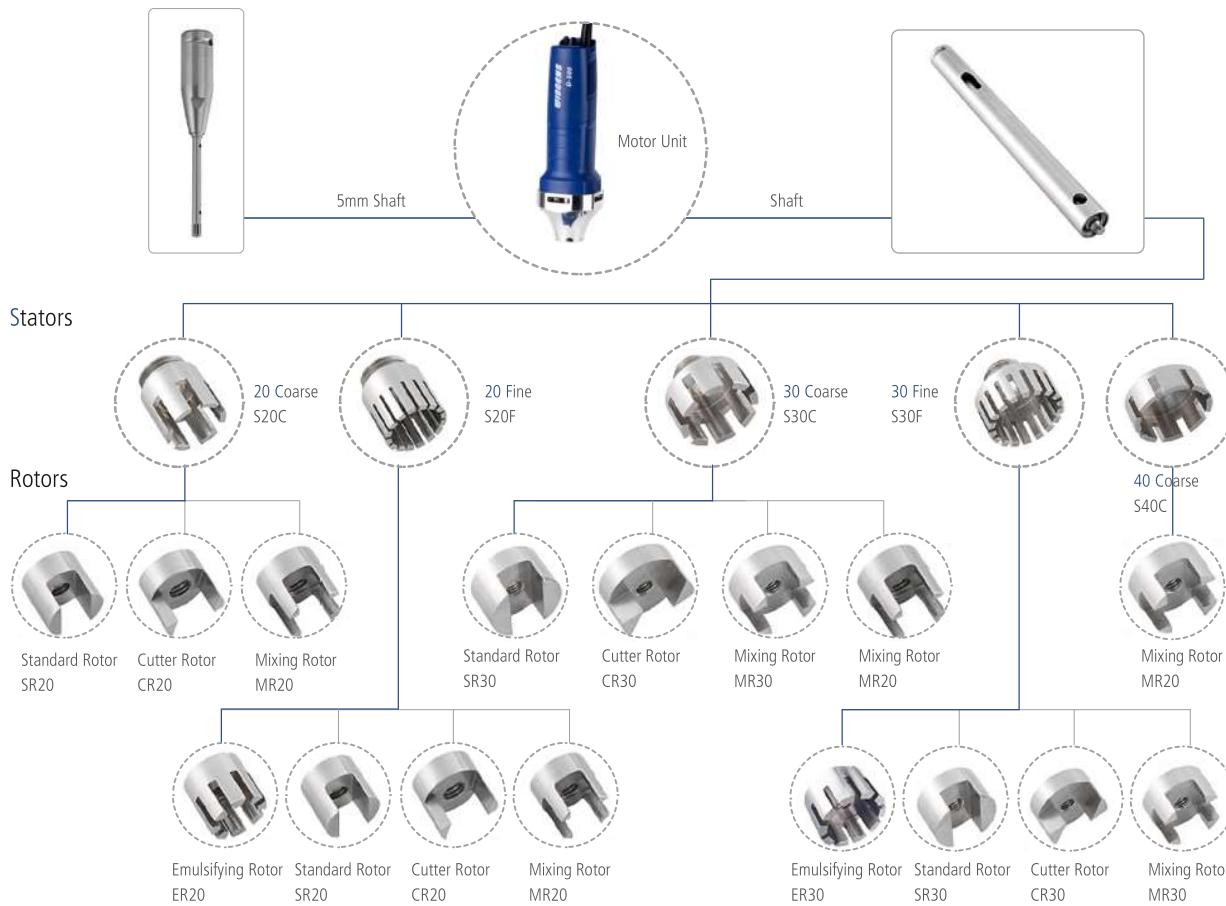
Shaft Selection Guide for High Speed Homogenizer

Shaft → S → S20C → SR20 → Standard rotor 20mm

Stator 20mm coarse

<p>Shaft 5 Includes: Shaft, PTFE bearing, 5 mm stator, 4 mm rotor</p>	<p>SS30CSR30 Includes: Shaft, PTFE bearing, 30 mm stator, standard rotor SR30</p>
<p>SS20CSR20 Includes: Shaft, PTFE bearing, 20 mm stator, standard rotor SR20</p>	<p>SS30FER30 Includes: Shaft, PTFE bearing, 30 mm stator, emulsification rotor ER30</p>
<p>SS20FER20 Includes: Shaft, PTFE bearing, 20 mm stator, emulsification rotor ER20</p>	<p>SS40CMR30 Includes: Shaft, PTFE bearing, 40 mm stator, mixing rotor MR30</p>

Composition 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	all methods
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,PI,F,DT,TI
SS40CMR30	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