

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:70×70×255 mm	Drive:157×76×236 mm
Weight (kg)	Drive:1.3 kg	Drive:1.8 kg



D-500

D-500 Pro

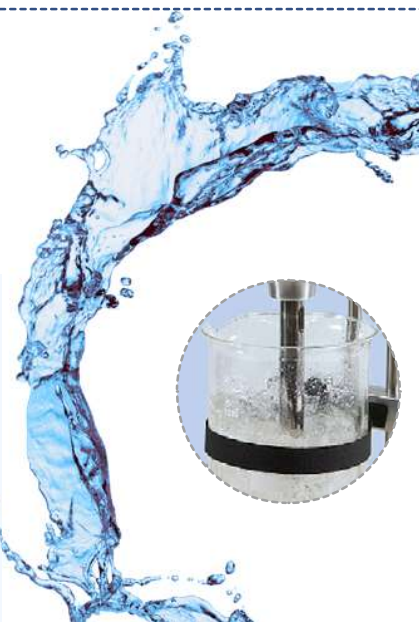
Buy one set
of D-500 (includes
homogenizer, shaft
and stands), get one
dispersion cup free



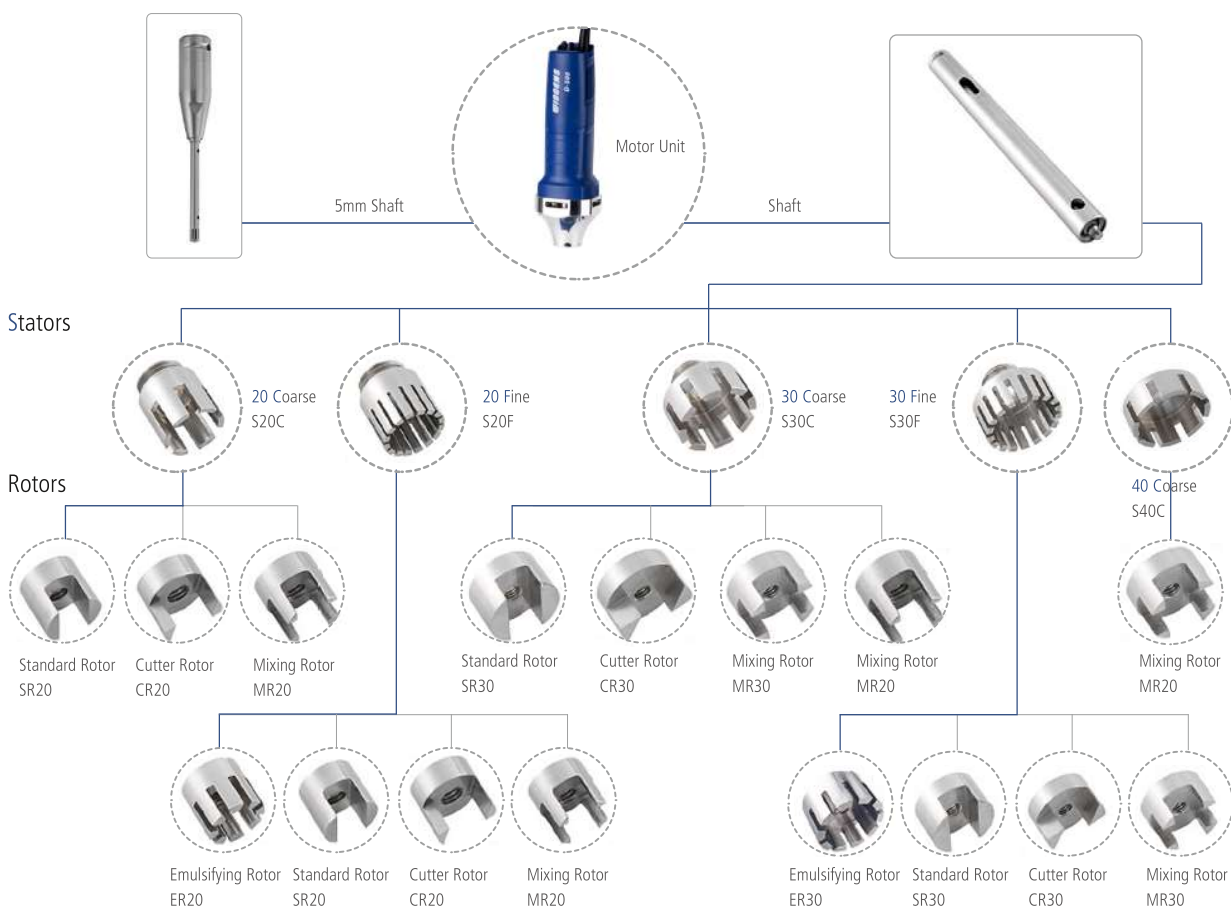
Shaft Selection Guide for High Speed Homogenizer

Diagram illustrating the shaft selection guide for the High Speed Homogenizer. The diagram shows a shaft (S) connected to a stator (S20C) and a rotor (SR20). The stator is labeled "Stator 20mm coarse".

Shaft	Includes:
Shaft 5	Shaft, PTFE bearing, 5 mm stator, 4 mm rotor
SS20CSR20	Shaft, PTFE bearing, 20 mm stator, standard rotor SR20
SS20FER20	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



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	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,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