

D-160

Handheld Homogenizer

Features

- Portable, lightweight with ergonomic design ideal for manual operations
- Processing volumes from 0.1-50mL or 1-250mL
- Variable speed from 8,000 to 32,000 rpm
- 316L stainless steel shafts are fully autoclavable
- Interchangeable shafts for easy dismantling and cleaning

Applications

Designed for rapidly homogenize, emulsify, suspend and disrupt biological samples like tissue of animal, bacteria, yeast, plant samples, etc. in liquids. Ideal for samples from 0.1mL to 250mL depending on shaft chosen.



Specifications	D-160
Power Supply	110-120V/60Hz 220-240V/50-60Hz
Motor Type Universal motor	160 W AC carbon brush motor
Speed Range	8000-32000rpm
Max. Circum. Speed	6.3-14m/sec
Speed Control Dial knob	10 stage
Working Volume [H ₂ O]	0.1-50mL (Dispersing shaft DS-160/5)
	1-250mL (Dispersing shaft DS-160/10)
Max. Viscosity	5,000mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE
Weight	0.54 kg
Dimension [L x W x H]	45mm x 55mm x 190mm
Noise	72 dB(A)
Operating Environment	0-40°C, 85%RH
Protection Class	IP20

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Stirring
& Heating

D-160

Handheld Homogenizer

DS-160/5

Cat. No.18900543

Volume 0,1-50mL

Max. Circum. Speed 6,3m/sec

Material: 316L

Application: small amounts of solid
liquid mixed

Function: dispersing tool for
solid/liquid media

DS-160/10

Cat. No.18900544

Volume 1-250mL

Max. Circum. Speed 14m/sec

Material: 316L

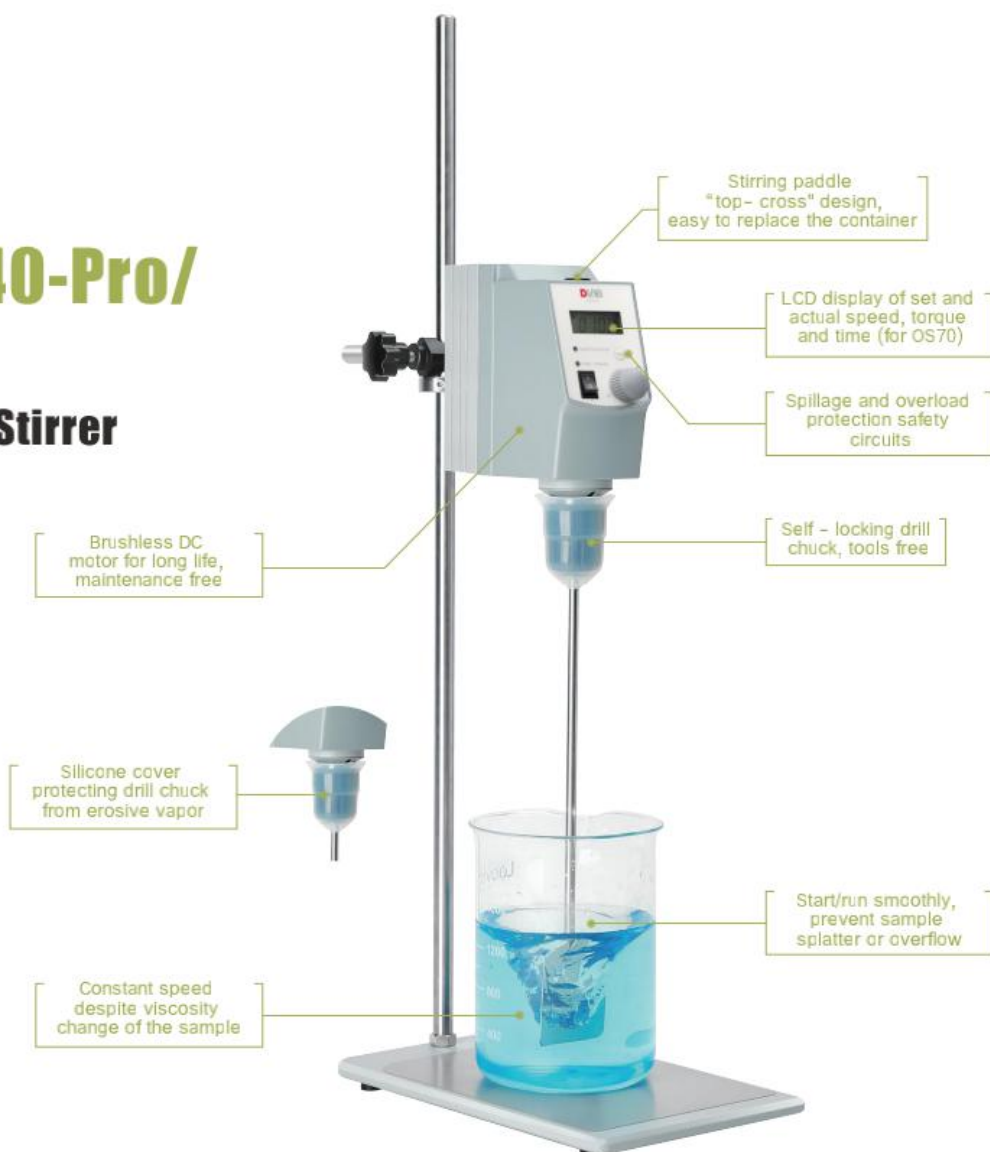
Application: small amounts of solid
liquid mixed

Function: dispersing tool for
solid/liquid media

OS20-Pro/OS40-Pro/ OS70-Pro

LCD Digital Overhead Stirrer

DLAB Overhead Stirrers are competent for most demanding tasks with guaranteed safety and performance. They are widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries, etc.



Specifications	OS20-Pro	OS40-Pro	OS70-Pro
Max. stirring quantity[H ₂ O]	20L	40L	70L
Speed range	50~2200rpm	50~2200rpm	50~1100rpm
Speed display accuracy	± 3rpm	± 3rpm	± 10rpm
Time settings range	-	-	0~99h59min
Max. torque	40N · cm	60N · cm	300N · cm
Viscosity max.	10000mPa · s	50000mPa · s	100000mPa · s
Weight	2.8kg	2.8kg	3.2kg
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor
Voltage	100~240V, 50/60 Hz	100~240V, 50/60 Hz	100~240V, 50/60 Hz
Speed display	LCD	LCD	LCD
Torque display	LCD	LCD	LCD
Overload protection display	LCD	LCD	LCD
Chuck range diameter	0.5~10mm	0.5~10mm	0.5~10mm
Motor input/output power	60W/50W	120W/100W	180W/160W
Power	70W	130W	200W
Dimension[WxHxD]	83 x 220 x 186mm	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21	IP21
Permissible ambient temperature and humidity	5~40℃, 80%RH	5~40℃, 80%RH	5~40℃, 80%RH
Data interface	RS232	RS232	RS232



OS20-S/OS40-S LED Overhead Stirrer

Features

- High reliability and outstanding performance
- Wide range of speed from 50 to 2200rpm
- Brushless DC motor for long life, maintenance free and explosion proof
- LED screen for monitoring actual speed
- Safety circuits allow for safe stop function in anti-stall or overload conditions
- Large chuck diameter for many shaft types

Plate Stands

Universal Plate Stand (for OS20/40/70)

Cat. No.18900258



Dimension [W x D x H] :
20x31x78cm
Material: stainless steel

Grand Plate Stand (for OS70)

Cat. No.18900497



Dimension [W x D x H] :
33.5x46.3x78cm
Material: stainless steel

Specifications	OS20-S	OS40-S
Max. stirring quantity[H ₂ O]	20L	40L
Speed range	50~2200rpm	50~2200rpm
Max. torque	40N · cm	60N · cm
Viscosity max.	10000mPa · s	50000mPa · s
Motor type	Brushless DC motor	Brushless DC motor
Speed display	LED	LED
Overload protection display	LED	LED
Chuck range diameter	0.5~10mm	0.5~10mm
Motor input power	60W	120W
Motor output power	50W	100W
Power	70W	130W
Voltage	100~240V, 50/60 Hz	100~240V, 50/60 Hz
Dimension[WxDxH]	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21
Weight	2.8kg	2.8kg
Permissible ambient temperature and humidity	5~40℃, 80%RH	5~40℃, 80%RH

DLAB Overhead Stirrer provides a variety of stirring tools, such as impellers, paddles and blades:

Propeller stirrer Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring applications at medium and high speed	Cat. No.18900071 	Paddle stirrer Shaft length: 40cm Stirrer diameter: 6.8cm Shaft diameter: Ø8mm Material: 316L stainless steel For gentle mixing at low and medium speeds	Cat. No.18900073 
Straight stirrer Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel For low viscosity media at medium and high speeds	Cat. No.18900072 	Centrifugal stirrer Shaft length: 40cm Stirrer diameter: 9cm Shaft diameter: Ø8mm Material: 316L stainless steel Blades open while speeding. For narrow neck vessels at medium to high speed.	Cat. No.18900074 
Propeller stirrer Shaft length: 35cm Stirrer diameter: 6.5cm Shaft diameter: Ø8mm Material: PTFE coated Standard stirring applications at medium and high speed	Cat. No.18900075 	Paddle stirrer Shaft length: 35cm Stirrer diameter: 6.8cm Shaft diameter: Ø8mm Material: PTFE coated For gentle mixing at low and medium speeds	Cat. No.18900077 
Straight stirrer Shaft length: 35cm Stirrer diameter: 7cm Shaft diameter: Ø8mm Material: PTFE coated For low viscosity media at medium and high speeds	Cat. No.18900076 	Centrifugal stirrer Shaft length: 35cm Stirrer diameter: 8.5cm Shaft diameter: Ø8mm Material: PTFE coated Blades open while speeding. For narrow neck vessels at medium to high speed.	Cat. No.18900078 
Grand propeller stirrer Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring	Cat. No. 18900478 	Grand paddle stirrer Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Gentle mixing for those stratify easily or sensitive to shear	Cat. No.18900499 
Grand anchor stirrer Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring or for those easily precipitate	Cat. No. 18900498 	Grand dissolving stirrer Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Breaking down granules in the mixture with strong shear	Cat. No.18900500 
Flat-blade stirrer Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed stirring, low viscosity and medium viscosity materials	Cat. No. 18900625 	Anchor stirrer Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for low speed stirring, medium viscosity and high viscosity materials	Cat. No.18900627 
Radial-flow stirrer Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, low viscosity or medium viscosity materials, recommended for the treatment of gas in liquid	Cat. No. 18900626 	Spiral stirrer Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, medium viscosity and high viscosity materials, recommended for liquid homogenization or suspension treatment	Cat. No. 18900628 

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