

# Overhead stirrer | high-speed

analog, up to 10 / 20 liter, 10.000 / 50.000 mPas, 0 - 3.000 rpm

200-3.000 rpm  
10.000 mPas  
50.000 mPas



HS-50A Set

## HS-A high-speed analog

### Ideal for:

- all mixing applications in the laboratory
- specialized for low- to medium-viscosity materials

### Features:

- maximal 10 / 20 liter
- up to 3.000 rpm
- maximal viscosity 10.000 / 50.000 mPas
- direct driven motor
- smooth start and change of stirring speed while operation
- impeller height adjustable
- chrome-plated stainless steel chuck
- CE certified and unique serial number for tracing

### Safety mechanism:

- overheat protection
- operation LED

### Controller:

- **Analog phase** controller with control knob

Model	HS-50A	HS-120A
Design	high-speed	
Controller-type	analog, integrated, phase controller	
Stirring capacity (H <sub>2</sub> O)	max. 10 l	max. 20 l
Max. viscosity (mPas)	10.000 mPas	50.000 mPas
Max. torque (N cm) at chuck	85 N cm	145 N cm
Max. impeller shaft	Ø 8 mm	
Speed range	up to 3.000 rpm	
Controller	analog phase controller with control knob	
Permissible temperature & RH %	ambient temperature 0 ~ 40°C, 80% RH	
Safety device	overheat protection	
Dimension & weight	90x145xh180 mm, 4.5 kg	90x145xh180 mm, 5.3 kg
Packaging size	320x300xh180 mm, 5 kg	320x300xh180 mm, 8 kg
Material	ABS & Aluminium	
Power supply	1 Phase AC 120V, 60 HZ or AC 230V, 50/60 Hz	
Order number 230V	Unit: DH.WOS01210   Set: DH.WOS01211	Unit: DH.WOS01215   Set: DH.WOS01216
Order number 120V	Unit: DH.WOS02210   Set: DH.WOS02211	Unit: DH.WOS02215   Set: DH.WOS02216

Set includes: Unit HS-A  
Impeller HS-50A: PL010 3-bladed Ø50 mm, HS-120A: PL015 4-bladed Ø70 mm  
Clamp CL200  
Plate stand KA1177 34x29 cm

Accessories: Impellers and plate stands on page 124 & 125

# Overhead stirrer | Jar tester

Accessories: Stirring impellers and plate stands

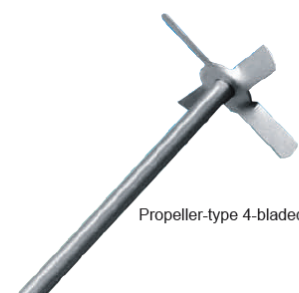
## Stirring impellers for high-speed and high-torque overhead stirrer - Ø8mm

- universal-types and wide-range-types
- shaft made of stainless steel, blades made of stainless steel or PTFE-coated
- excellent resistance to acids, chemicals, corrosion and high temperature

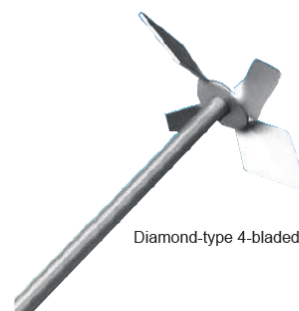
Type	Blades	Rod	Article	Order number
Propeller-type	3-bladed Ø50 x h15mm	Ø8 x L500 mm	PL010	DH.WOS501010
Propeller-type	3-bladed Ø60 x h15 mm	Ø8 x L500 mm	PL011	DH.WOS501011
Propeller-type	3-bladed Ø80 x h20 mm	Ø8 x L650 mm	PL012	DH.WOS501012
Propeller-type	3-bladed Ø100 x h24 mm	Ø8 x L650 mm	PL013	DH.WOS501013
Propeller-type	4-bladed Ø50 x h20 mm	Ø8 x L500 mm	PL014	DH.WOS501014
Propeller-type	4-bladed Ø70 x h25 mm	Ø8 x L500 mm	PL015	DH.WOS501015
Propeller-type	4-bladed Ø90 x h35 mm	Ø8 x L650 mm	PL016	DH.WOS501016
Propeller-type	4-bladed Ø110 x h35 mm	Ø8 x L650 mm	PL017	DH.WOS501017
Diamond-type	4-bladed Ø70 x h20 mm	Ø8 x L500 mm	PL019	DH.WOS501019
Diamond-type	4-bladed Ø90 x h25 mm	Ø8 x L500 mm	PL020	DH.WOS501020
Diamond-type	4-bladed Ø100 x h25 mm	Ø8 x L650 mm	PL021	DH.WOS501021
Centrifugal-type PTFE-coated	2-bladed Ø50 x h14 mm	Ø8 x L500 mm	PL029	DH.WOS501029
Centrifugal-type PTFE-coated	2-bladed Ø70 x h17 mm	Ø8 x L500 mm	PL030	DH.WOS501030
Centrifugal-type PTFE-coated	2-bladed Ø100 x h24 mm	Ø8 x L650 mm	PL031	DH.WOS501031
Anchor-type	2-bladed Ø70 x h14 mm	Ø8 x L500 mm	PL035	DH.WOS501035
Anchor-type	2-bladed Ø90 x h16 mm	Ø8 x L650 mm	PL036	DH.WOS501036



Propeller-type 3-bladed



Propeller-type 4-bladed

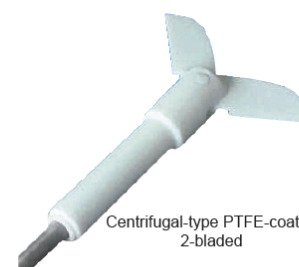


Diamond-type 4-bladed

## Stirring impellers for high-torque overhead stirrer - Ø10mm

- universal-types and wide-range-types
- shaft made of stainless steel, blades made of stainless steel or PTFE-coated
- excellent resistance to acids, chemicals, corrosion and high temperatures

Type	Blades	Rod	Article	Order number
Propeller-type	3-bladed Ø60 x h15 mm	Ø10 x L500 mm	PL111	DH.WOS501111
Propeller-type	3-bladed Ø80 x h20 mm	Ø10 x L650 mm	PL112	DH.WOS501112
Propeller-type	3-bladed Ø100 x h24 mm	Ø10 x L800 mm	PL113	DH.WOS501113
Propeller-type	4-bladed Ø90 x h35 mm	Ø10 x L650 mm	PL116	DH.WOS501116
Propeller-type	4-bladed Ø110 x h40 mm	Ø10 x L800 mm	PL117	DH.WOS501117
Propeller-type	4-bladed Ø110 x h40 mm	Ø10 x L1000 mm	PL118	DH.WOS501118
Diamond-type	4-bladed Ø110 x h25 mm	Ø10 x L650 mm	PL121	DH.WOS501121
Centrifugal-type PTFE-coated	2-bladed Ø100 x h24 mm	Ø10 x L650 mm	PL130	DH.WOS501130
Anchor-type	2-bladed Ø90 x h16 mm	Ø10 x L650 mm	PL135	DH.WOS501135
Anchor-type	2-bladed Ø140 x h25 mm	Ø10 x L800 mm	PL136	DH.WOS501136
Anchor-type	2-bladed Ø160 x h30 mm	Ø10 x L1000 mm	PL137	DH.WOS501137



Centrifugal-type PTFE-coated 2-bladed



Anchor-type 2-bladed

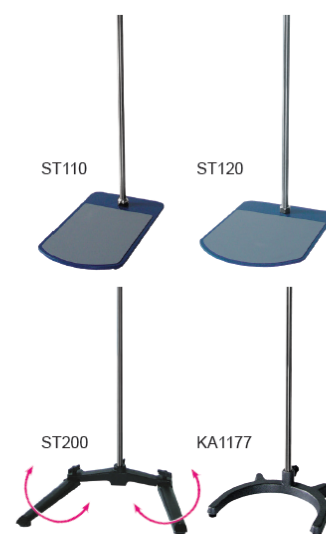
# Overhead stirrer | Jar tester

Accessories: Stirring impellers and plate stands

## Plate stand with stainless steel rod

- suitable for all overhead stirrer and homogenizer
- plate with silicone rubber pad (ST110, ST120) or heavy duty safety stand (ST200, KA1177)

Type	Rod	Plate	Article	Order number
Silicone rubber pad	Ø16xh800 mm with screw	20 x 35 cm	ST110	DH.WOS501510
Silicone rubber pad	Ø23xh1000 mm with screw	30 x 40 cm	ST120	DH.WOS501515
Heavy duty safety stand	Ø23xh1200 mm	39 x up to 75 cm adjustable	ST200	DH.WOS501520
Heavy duty safety stand	Ø23xh800 mm	34 x 29 cm	KA1177	DH.WOS1177



## Universal jumbo clamp holder for plate stand

- suitable for all overhead stirrer and homogenizer plate stands

Type	Material	Mounting	Article	Order number
Jumbo clamp holder	cast aluminium	for Ø23 mm rod	CL200	DH.WOS502020



## Rods for plate stands

- with and without screw
- made of stainless steel

Type	Rod	Article	Order number
without screw	Ø16 x h800 mm	RD501	DH.WOS502001
without screw	Ø16 x h1000 mm	RD502	DH.WOS502002
without screw	Ø16 x h1200 mm	RD503	DH.WOS502003
without screw	Ø23 x h800 mm	RD531	DH.WOS502031
without screw	Ø23 x 1200 mm	RD533	DH.WOS502033
with screw	Ø16 x h800 mm	RD511	DH.WOS502011
with screw	Ø16 x h1000 mm	RD512	DH.WOS502012
with screw	Ø16 x h1200 mm	RD513	DH.WOS502013
with screw	Ø23 x h800 mm	RD521	DH.WOS502021
with screw	Ø23 x h1000 mm	RD522	DH.WOS502022
with screw	Ø23 x h1200 mm	RD523	DH.WOS502023



## Flexible couplings for safety stirring

Type	for shafts	Article	Order number
basic rubber / metal	Ø6-8 mm	W1-COR-6	1 445 000
basic rubber / metal	Ø8-10 mm	W1-COR-8	1 445 010
PTFE / Polyamid	Ø8mm		1 445 500
PTFE / Polyamid	Ø10mm		1 445 510
PTFE / Polyamid	Ø14mm		1 445 514
PTFE / Polyamid	Ø16mm		1 445 516
heavy-duty stainless steel	Ø6-8 mm	PKK-10	KG.40477
heavy-duty stainless steel	Ø12-14 mm	PKK-16	KG.40478

