Overhead stirrer

High-speed High-torque





	High-speed					High-torque						
	Analog			Dig	Digital			Analog		Digital		
	Integrated controller		Integrated controller		Remote controller		Integrated controller		Integrated controller		Remote controller	
Model	HS-50A	HS-120A	HS-30D	HS-100D	HS-30T	HS-100T	HT-50AX	HT-120AX	HT-50DX	HT-120DX	HT-50T	HT-120T
Max. stirring capacity (H ₂ O)	10	20 I	10	20 I	10	20 I	40	60 I	40 I	60 I	40 I	60 I
Max. viscosity (mPas)	10,000	50,000	10,000	50,000	10,000	50,000	100,000	150,000	100,000	150,000	100,000	150,000
Motor rating (input / output)	83/75 W (1/10 hp)	130/120 W (1/6 hp)	83/75 W (1/10 hp)	130/120 W (1/6 hp)	83/75 W (1/10 hp)	130/120 W (1/6 hp)	83/75 W (1/10 hp)	130/120 W (1/6 hp)	83/75 W (1/10 hp)	130/120 W (1/6 hp)	83/75 W (1/10 hp)	130/120 W (1/6 hp)
Max. torque (Ncm) at chuck	85	145	85	145	85	145	300	500	300	500	300	500
Max. impeller diameter	8 mm					10 mm						
Speed range (rpm)	200 - 3,000 rpm					50 - 1,000 rpm						
Motor rating	Direct driven motor					3.5 : 1 ratio; worm-geared motor						
Controller	Analog phase Jog-Shuttle				Shutlle emote	Analog phase		Jog-Shuttle		Jog-Shutlle via remote		
Display	- Digital LCD (for timer, rpm and			er, rpm and p	ower)	- Digital LCD (for timer, rpm and power)						
Operation envi- ronment	Temperature range: 0 - 40°C, maximal humidity: 80%											
Safety mechanism	overheat protection overheat and over				rerload protection		overheat protection		overheat and overload protection			
Dimensions (WxDxH mm)	90x145x180			90x100x180		90x180x130	90x210x130	90x180x130	90x210x130	155x180x110	155x230x110	
Weight (kg)	4.5	5.3	4.5	5.3	3 + 2.5*	3.8 . 2.5*	3.5	4	3.5	4	3.5 + 2.5*	4 + 2.5*
Others	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				smooth start and change of stirring speed while operation storage function for timer and speed impeller height adjustable chrome-plated stainless steel chuck CE certified and unique serial number for tracing							
Power supply	AC 230V or AC 120V											

weight of remote controller

Material	Viscosity (mPas)		Recommended	overhead stirrer	
Water	1				
Milk	3	HS-30D			
Soyabean oil	160		110 400D		
Varnish	500	HS-50A	HS-100D	LIT CODY	
Lacquer	1,000		HS-120A	HT-50DX	LIT 400DV
Honey	3,000	HS-30T	HO-12UA	HT-50AX	HT-120DX
Standard viscosity	10,000		HS-100T	TI-SUAA	HT-120AX
Standard viscosity	15,000		110-1001	HT-50T	TI-IZUAA
Ketchup	30,000			111-001	HT-120T
Standard viscosity	50,000				111-1201
Mustard	70,000				
Corn syrup	100,000				
Standard viscosity	150,000				
Peanut butter	250,000				

powerful DC motor for various stirring applications (direct-driven or worm-geared)

high-speed or high-torque versions available

digital feedback controller

steady and constant stirring speed

chrome-plated stainless steel chuck to prevent corrosion

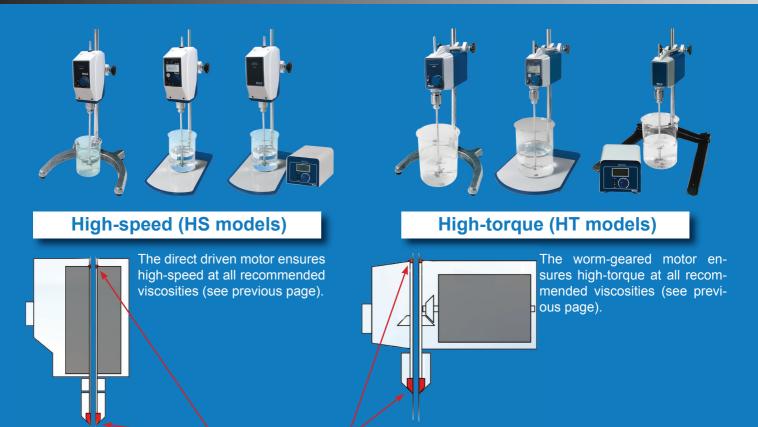
anti-trembling system - the impeller is fixed at two points within the body and chuck

adjustable impeller position (height)

motor overload and overheat protection for highest safety and long lifetime

available as set with impeller, plate stand and clamp

many different impellers and plate stands available (see page 122 & 123)



The impeller is fixed at two points within the body to ensure smooth operation without trembling.



Anti-rust chuck - chrome-plated stainless steel

The anti-rust chuck is chrome-plated to prevent from corrosion by dropping or smoking liquids.

The chuck also fixes the impeller within the body and allows smooth operation without trembling

Overhead stirrer | high-torque

analog, up to 40 / 60 liter, 100,000 / 150,000 mPas, up to 1,000 rpm



HT-AX high-torque analog

Ideal for:

- all mixing applications in the laboratory
- specialized for light watery solutions up to high-viscosity fluids

Features:

- maximal 40 / 60 liter
- up to 1,000 rpm
- maximal viscosity 100,000 / 150,000 mPas
- worm-geared motor (ratio 3.5:1)
- 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	HT-50AX	HT-120AX			
Design	high-torque				
Controller-type	analog, integrated, phase controller				
Stirring capacity (H ₂ O)	max. 40 l	max. 60 l			
Max. viscosity (mPas)	100,000 mPas	150,000 mPas			
Max. torque (N cm) at chuck	300 N cm	500 N cm			
Max. impeller shaft	Ø 10 mm				
Speed range	up to 1,000 rpm				
Controller	analog phase controller with control knob				
Permissible temperature & RH %	ambient temperature 0 ~ 40°C, 80% RH				
Safety device	overheat protection				
Dimension & weight	90x180xh130 mm, 3.5 kg	90x210xh130 mm, 4 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.WOS01251 Set: DH.WOS01252	Unit: DH.WOS01271 Set: DH.WOS01272			
Order number 120V	Unit: DH.WOS02251 Set: DH.WOS02252	Unit: DH.WOS02271 Set: DH.WOS02272			

Set includes: Unit HT-AX

Impeller PL020 4-bladed Ø90 mm

Clamp CL200 Plate stand KA1177 34x29 cm

Accessories: Impellers and plate stands on page 122 & 123