

Digital Overhead Stirrer

Product Line / Selection Guide

	High Speed						High Torque					
	Analog Model		Digital Model				Analog Model		Digital Model			
	Integrated Controller		Integrated Controller		Remote Controller		Integrated Controller		Integrated Controller		Remote Controller	
	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 (HzO)	10 Lit.	20 Lit.	10 Lit.	20 Lit.	10 Lit.	20 Lit.	40 Lit.	60 Lit.	40 Lit.	60 Lit.	40 Lit.	60 Lit.
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)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)
Max. Torque (Ncm) at Chuck	85	145	85	145	85	145	300	500	300	500	300	500
Max. Impeller Diameter (mm)	8						10					
Speed Range (rpm)	200 ~ 3,000						50 ~ 1,000					
Motor Rating (Input / Output)	Direct Driven Motor						3.5:1 Ratio Worm-Geared Motor					
Controller	Analog Phase Controller		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push)		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push), Remote type		Analog Phase Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push), Remote type	
Display	None		Digital LCD (Timer, RPM & Power Bar-graph)				None		Digital LCD (Timer, RPM & Power Bar-graph)			
Operating Environment	Ambient Temp. Range (°C)	0 ~ 40										
	Max. Permissible Humidity (%)	80										
Safety Device	Over Heat Protector for motor		Over Load & Heat Protector for motor				Over Heat Protector for motor		Over Load & Heat Protector for motor			
Body Dimension (w×d×h mm)	90×145×180				90×100×180		90×180×130	90×210×130	90×180×130	90×210×130	155×180×110	155×230×110
Body Weight (kg)	4.5	5.3	4.5	5.3	3*	3.8*	3.5	4	3.5	4	3.5	4
Others	- Smooth Start and Change of the Stirring Speed for stable running - Storage Function (RPM & Timer) : Only Digital Models						- Smooth Start and Change of the Stirring Speed for stable running - Storage Function (RPM & Timer) : Only Digital Models - Locking Mode (Jog-Shuttle Input disabled) : Only Digital Models - Alarm (Error Status and Timer-end) : Only Digital Models					
Power Supply**	AC 230V, 50/60Hz											

* Weight of Remote Controller = 2.5kg

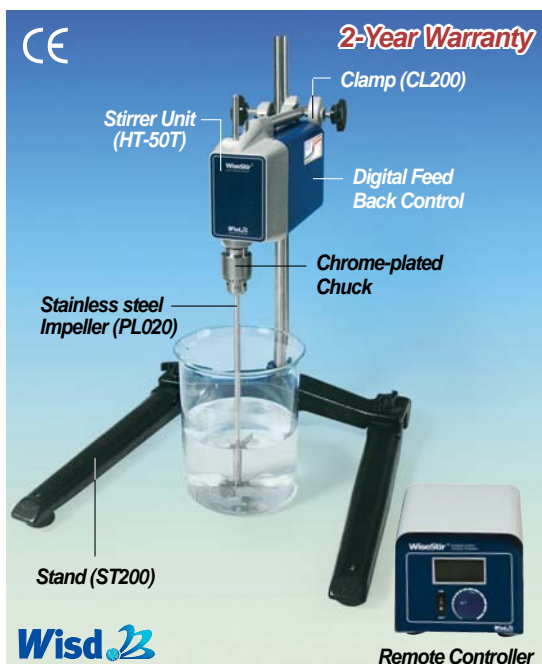
** Other Specifications are Available Upon Customer's Request.

Standard Viscosity

(Unit: mPas)

Material	Viscosity	Recommended Models			
Water	1	HS-30D HS-50A HS-30T	HS-100D HS-120A HS-100T	HT-50DX HT-50AX HT-50T	HT-120DX HT-120AX HT-120T
Milk	3				
Soybean oil	160				
Varnish	500				
Lacquer	1,000				
Honey	3,000				
Standard Viscosity	10,000				
Standard Viscosity	15,000				
Ketchup	30,000				
Standard Viscosity	50,000				
Mustard	70,000				
Corn Syrup	100,000				
Standard Viscosity	150,000				
Peanut Butter	250,000				

DAIHAN-brand® High-Torque Digital Overhead Stirrer, “HT-T”, with Remote Controller, with Certi. & Traceability with Remote Digital Feedback Controller, Steady & Constant Stirring Speed Against Viscosity, 50 ~ 1,000 rpm, to 150,000 mPas



Digital High-Torque Overhead Stirrer with Remote Controller “HT-120T-Set”



Digital High-Torque Overhead Stirrer “HT-120T-Unit”

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Remote Digital Feedback Controller : Steady and Constant Stirring Speed against Viscosity Change of a Sample during Reaction
- Patented Jog-Shuttle Control System
- CE Certified
- PL(Product Liability) Insurance

- * Food, Beverage, Dairy, Sugar & Candy Production
- * Ideal for Stirring Material of Viscosities Ranging from Light Watery Solutions to High-Viscosity Fluids
- * Digital LCD with Back-Light Function
- * Overload Protection and Over-Heat Protection Functions for Motor
- * High Torque Stirring by 3.5:1 Ratio Worm-gearred Motor
- * Smooth Start and Change of the Stirring Speed
- * Storage Function for the set Values : RPM and Timer
- * The Position (Height) of Impeller is Adjustable
- * Locking Mode supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- * Chrome-plated & Stainless steel Chuck-Prevention from Corrosion

Specification

Stirring Capacity & Models	Max. 40 Lit. (H ₂ O) “HT-50T”	Max. 60 Lit. (H ₂ O) “HT-120T”
Maximum Viscosity	100,000 mPas	150,000 mPas
Maximum Torque	300 Ncm	500 Ncm
Speed Range & Motor	50 ~ 1,000 rpm, Worm-Gearred Motor(3.5:1 Ratio)	
Motor Rating (Input / Output)	83 / 75 W, 1/10 HP	130 / 120 W, 1/6 HP
Timer & Alarm	99hr 59min (with Continuous run.), Timer-end Alarm	
Display	Digital LCD with Back - Light Function	
Controller	Remote type Digital Feedback Controller with Jog Shuttle Switch	
Max. Impeller Shaft Diameter	φ 10 mm	
Permissible Temp. & Humidity	0 ~ 40℃, 80%	
Safety Device	Overload & Heat Protector for motor	
Material	ABS and Aluminum	
Dimension & Weight*	155×180×h110mm, 3.5 kg	155×230×h110mm, 4 kg
Packing Size & Gross Weight	580×340×h230mm, 5 kg	580×340×h230mm, 8 kg
Power Consumption	75 W	120 W
Power Supply & Cord Plug**	1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

* Weight of Remote Controller = 2.5kg

** Other Specifications are available upon Customer's Request.

Ordering Information

- * “HT-50T”Package-set : Complete with ① Overhead Stirrer Unit with Remote Controller ② “PL020” Stainless steel Impeller(Rod φ 8×L500mm, Blade φ 90mm) ③ “CL200” Clamp ④ “ST120” Wide Plate Stand(Rod φ 23×L1000mm, Plate w30×d40cm)
- * “HT-120T”Package-set : Complete with ① Overhead Stirrer Unit with Remote Controller ② “PL020” Stainless steel Impeller(Rod φ 8×L500mm, Blade φ 90mm) ③ “CL200” Clamp ④ “ST200” Deluxe Safety Stand (Rod φ 23×L1,200mm, Stand Base 39×up to 75cm)

With Remote Controller, 40 Lit. Stirring Capa., 100,000 mPas, “HT-50T” Package-set & Unit

- DH.WOS01066 High Torque-type Overhead Stirrer, Package-set, 230V, 120V
- DH.WOS02066 High Torque-type Overhead Stirrer, Unit only, 230V, 120V

With Remote Controller, 60 Lit. Stirring Capa., 150,000 mPas, “HT-120T” Package-set & Unit

- DH.WOS01076 High Torque-type Overhead Stirrer, Package-set, 230V, 120V
- DH.WOS02076 High Torque-type Overhead Stirrer, Unit only, 230V, 120V

- ※ Refer to page 212 ~ 213 for Accessory Specifications.
- ※ Refer to page 204 for Product Line & Selection Guide

Standard Accessories for Overhead Stirrers

DAIHAN-brand® Stirring Impeller for Overhead Stirrer, Stainless steel #304



(1) Propeller-type 3×Bladed

- Specially designed Stainless steel #304 (High-grade) used
- Excellent Resistance of Acids, Chemicals, Corrosion and High Temperature.
- Universal-Types and Wide-Ranges

For Both High Speed-type & High Torque-type Overhead Stirrers

(1) Propeller-types, 3×Bladed, Rod $\phi 8 \times L500/650$ mm, Blade $\phi 50/60/80/100$ mm

DH.WOS501010 Impeller, "PL010", #304, $\phi 8 \times L500$ mm Rod, $\phi 50$ mm Blade
 DH.WOS501011 , "PL011", #304, $\phi 8 \times L500$ mm Rod, $\phi 60$ mm Blade
 DH.WOS501012 , "PL012", #304, $\phi 8 \times L650$ mm Rod, $\phi 80$ mm Blade
 DH.WOS501013 , "PL013", #304, $\phi 8 \times L650$ mm Rod, $\phi 100$ mm Blade



(2) Propeller-type 4×Bladed

(2) Propeller-types, 4×Bladed, Rod $\phi 8 \times L500/650$ mm, Blade $\phi 70/90/100$ mm

DH.WOS501015 Impeller, "PL015", #304, $\phi 8 \times L500$ mm Rod, $\phi 70$ mm Blade
 DH.WOS501016 , "PL016", #304, $\phi 8 \times L650$ mm Rod, $\phi 90$ mm Blade
 DH.WOS501017 , "PL017", #304, $\phi 8 \times L650$ mm Rod, $\phi 100$ mm Blade



(3) Diamond-type 4×Bladed

(3) Diamond-types, 4×Bladed, Rod $\phi 8 \times L500/650$ mm, Blade $\phi 90/100$ mm

DH.WOS501020 Impeller, "PL020", #304, $\phi 8 \times L500$ mm Rod, $\phi 90$ mm Blade
 DH.WOS501021 , "PL021", #304, $\phi 8 \times L650$ mm Rod, $\phi 100$ mm Blade

(4) Centrifugal-type, 2×Bladed, Rod $\phi 8 \times L500$ mm, Blade $\phi 100$ mm

DH.WOS501025 Impeller, "PL025", #304, $\phi 8 \times L500$ mm Rod, $\phi 100$ mm Blade

(5) Teflon Coated Centrifugal-type, 2×Bladed, Rod $\phi 8 \times L500/650$ mm, Blade $\phi 90/120$ mm

DH.WOS501030 Impeller, "PL030", #304, $\phi 8 \times L500$ mm Rod, $\phi 90$ mm Blade
 DH.WOS501031 , "PL031", #304, $\phi 8 \times L650$ mm Rod, $\phi 120$ mm Blade

(6) Anchor-types, 2×Bladed, Rod $\phi 8 \times L500/650$ mm, Blade $\phi 70/90$ mm

DH.WOS501035 Impeller, "PL035", #304, $\phi 8 \times L500$ mm Rod, $\phi 70$ mm Blade
 DH.WOS501036 , "PL036", #304, $\phi 8 \times L650$ mm Rod, $\phi 90$ mm Blade



(4) Centrifugal-type 2×Bladed

For High Torque-type Overhead Stirrers (HT-AX, HT-DX, HT-T)

(1) Propeller-types, 3×Bladed, Rod $\phi 10 \times L500/650/800$ mm, Blade $\phi 60/80/100$ mm

DH.WOS501111 Impeller, "PL111", #304, $\phi 10 \times L500$ mm Rod, $\phi 60$ mm Blade
 DH.WOS501112 , "PL112", #304, $\phi 10 \times L650$ mm Rod, $\phi 80$ mm Blade
 DH.WOS501113 , "PL113", #304, $\phi 10 \times L650$ mm Rod, $\phi 100$ mm Blade

(2) Propeller-types, 4×Bladed, Rod $\phi 10 \times L650$ mm, Blade $\phi 90/100$ mm

DH.WOS501116 Impeller, "PL116", #304, $\phi 10 \times L650$ mm Rod, $\phi 90$ mm Blade
 DH.WOS501117 , "PL117", #304, $\phi 10 \times L650$ mm Rod, $\phi 100$ mm Blade

(3) Diamond-types, 4×Bladed, Rod $\phi 10 \times L650$ mm, Blade $\phi 100$ mm

DH.WOS501121 Impeller, "PL121", #304, $\phi 10 \times L650$ mm Rod, $\phi 100$ mm Blade

(6) Anchor-types, 2×Bladed, Rod $\phi 10 \times L650/800$ mm, Blade $\phi 90/140$ mm

DH.WOS501135 Impeller, "PL135", #304, $\phi 10 \times L650$ mm Rod, $\phi 90$ mm Blade
 DH.WOS501136 , "PL136", #304, $\phi 10 \times L800$ mm Rod, $\phi 140$ mm Blade



(5) Teflon Coated Centrifugal-type



(6) Anchor-type 2×Bladed

※ Please Note!

Other Specification of a Rod or Blade is available upon Customer's Request.

Cat. No	Description	Articles
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DAIHAN-brand® Premium Plate Stand, High Quality, with Stainless steel Rod ϕ 16/23 mm

- High-Quality Plate-type Stand with Support Rod
- Silicon Rubber Pad adhered
- Wide and Thick Steel Plate for Safety Mechanism
- Support Rod made of Stainless steel specially designed

- DH.WOS501510 (1) Standard Plate Stand, "ST110", for Stirrer and Homogenizer
 ϕ 16 × h800 mm/1.5P Screw Rod, "RD 511",
20 × 35 cm Plate, with Silicone Pad
- DH.WOS501515 (2) Wide Plate Stand, "ST120", for Stirrer and Homogenizer
 ϕ 23 × h1000 mm/1.5P Screw Rod, Rod, "RD 522",
30 × 40 cm Plate, with Silicone Pad



(1) "ST110" (2) "ST120"

DAIHAN-brand® Heavy Duty Safety Stand, High Safety, with Stainless steel Rod ϕ 23 mm

- Never Fall Down by Safety Mechanism.
- High-Safety H-/U-type Stand with Support Rod
- Provides Sturdy Support for Stirrers during Mixing Procedure
- Support Rod made of Stainless steel specially designed
- Adjustable Foot Distance (ST200)

- DH.WOS501520 (3) Deluxe Safety Stand, "ST200", H-type
 ϕ 23 × h1200 mm Rod, 39 × up to 75cm Stand Base
- DH.WOS1177 (4) Safety Stand, "KA1177", U-type
 ϕ 23 × h800 mm Rod, 34 × 29 cm Stand Base



(3) "ST200" (4) "KA1177"

DAIHAN-brand® Universal Jumbo Clamp Holder, for Stand/Rod

- DH.WOS502020 (5) Clamp Holder, "CL200"
Cast Aluminum, Grip Capacity, ϕ 23mm for Stand/Rod



(5) Clamp "CL200"

Usbeck® Steel Retort Base Duo Stand, up to ϕ 16mm Rods, for 2 Rods

Nonskid Feet equipped, with Hinged Screw M6, Rod Excluded

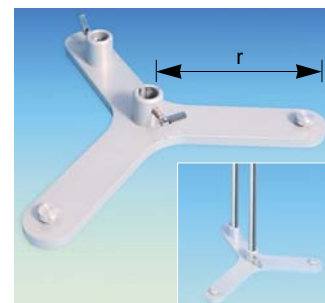
* Can Fix Rods up to 2ea (Below ϕ 16mm) * Stand Thickness : 8mm

Retort Stand, Only Stand Base

- US.2040 Stand, "US2040", r = 150 mm
US.2041, "US2041", r = 185 mm

Optional Stainless steel Rod

- DH.WOS502001 Stainless steel Rod, "RD501", ϕ 16 × h800mm, Non-screw
DH.WOS502002, "RD502", ϕ 16 × h1000mm, Non-screw
DH.WOS502003, "RD503", ϕ 16 × h1200mm, Non-screw



Steel Retort Base Duo Stand

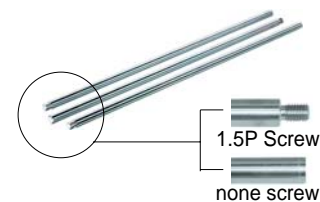
DAIHAN-brand® High-Quality Stainless steel (#304) Rod. for Plate Stand, ϕ 16/23 mm

Plain-type ϕ 16mm Rod, without Screw

- DH.WOS502001 Stainless steel Rod, "RD501", ϕ 16 × h800mm, Non-screw
DH.WOS502002, "RD502", ϕ 16 × h1000mm, Non-screw
DH.WOS502003, "RD503", ϕ 16 × h1200mm, Non-screw
DH.WOS502031, "RD531", ϕ 23 × h800mm, Non-screw
DH.WOS502033, "RD533", ϕ 23 × h1200mm, Non-screw

1.5P Screw-type ϕ 16 & 23mm Rod

- DH.WOS502011 Stainless steel Rod, "RD511", ϕ 16 × h800mm, 1.5P Screw
DH.WOS502012, "RD512", ϕ 16 × h1000mm, 1.5P Screw
DH.WOS502013, "RD513", ϕ 16 × h1200mm, 1.5P Screw
DH.WOS502021, "RD521", ϕ 23 × h800mm, 1.5P Screw
DH.WOS502022, "RD522", ϕ 23 × h1000mm, 1.5P Screw
DH.WOS502023, "RD523", ϕ 23 × h1200mm, 1.5P Screw



Stainless steel Rod

DAIHAN-brand® Flexible Coupling for Safety Stirring, Up to ϕ 14mm Shafts

(6) "Witeg" Basic Rubber / Metal Coupling, for ϕ 6~10mm Shafts

- WI.1445000 Coupling, "W1-COR-6", for ϕ 6~8mm Shafts
WI.1445010, "W1-COR-8", for ϕ 8~10mm Shafts



(6) Basic-type Coupling

(7) "KGW" Heavy-duty Metal Coupling, for ϕ 6~ ϕ 14mm Shafts

- KG.40477 Coupling, Metal, "PKK-10", for ϕ 6~8mm Shafts
KG.40478, "PKK-16", for ϕ 12~14mm Shafts



(7) Heavy-duty Metal Coupling