

Stirrers

- Smart Design of Body made by Aluminum Die-Casting (MS, MSH models)
- Digital LCD Display for RPM, Power Bar Graph and Status
- User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. ($\pm 20.0^{\circ}\text{C}$) (MSH model)
- Patented Jog-Shuttle Control system and Digital LCD with Back-light (Digital Model)
- Chrome-Plated & Stainless Steel Chuck - Prevention from Corrosion (HS, HT models)
- High-Speed and High-Torque Overhead Stirrer with Powerful DC Motor

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☉ Digital / Analog Magnetic Stirrer



☉ Multi-point Magnetic Stirrers



☉ High Torque Overhead Stirrer



☉ High Speed Overhead Stirrer



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Articles

“witeg” WiseStir® MS-A Premium Magnetic Stirrer, 180×180mm Ceramic-Coated Plate with PWM Control System, Precise Speed Control, Ceramic Coated Al-Plate, up to 1.500 rpm, Max. 20 Lit.

- Ceramic Coated Plate-Chemical/Acid Resistance
- CE Certified

- * Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
- * Mixing for Chemical, Laboratory, Pharmaceutical Materials
- * Superior Linearity for the Control of Stirring Speed by Specially Designed Control Circuitry (PWM Control)
- * Smart Design of Body : Made by Aluminum Die-Casting
- * Powerful Motor for Stirring Quantities of up to 20Lit. (Water)
- * Ceramic Coated Plate-Chemical/Acid Resistance
- * Free Voltage (AC 80V ~ 240V, 50 / 60Hz) by SMPS
- * Included 1ea 3cm Magnetic Stirrer Bar

Specification

Model	180×180mm Plate-type “MS-20A”
Plate Size (mm)	180×180
Stirring Capacity (H ₂ O)	Max. 20Lit.
Speed Range	Max. 1.500 rpm
Motor Rating	9 / 4 W
Controller	Superior Linearity PWM Controller
Stirring Bar	3cm bar-included, Usable : up to 5cm bar
Permissible Ambient Temperature	Ambient +5 ~ 50 °C
Permissible Relative Moisture	85%
Material	Plate
	Body
Dimension (w×d×h) (mm)	206×307×99
Weight (kg)	3,1 kg
Others	CE Certified
Packing Size (w×d×h) (mm) & Gross Weight	400×280×200 5 kg
Power Consumption	10 W
Power plug type	Hybrid E+F
Power Supply*	AC 230V, 1N~, 50/60Hz

* Other Specifications are available upon Customer's Request.

Ordering Information

DH.WMS03122 Magnetic Stirrer, 180×180mm, 230V, “MS-20A”, with stir bar

Optional Accessories

- DH.WHP503036 (1) Stand Rod, “RD200”, Stainless Steel, screw, $\phi 12 \times L450$ mm, for HP-20A/20D, MSH-20A/20D, MSH-50A/55A,MSH-50D/55D and SMHS
- DH.WHP503012 (2) Holder/Clamp/Clip, “CL220”, for Temp. Probe

※ You will find matching beakers and flasks in our general catalogue at following pages : 33, 34, 293–296.

※ You will find matching stirring bars in our general catalogue at following pages : 362, 363.



Premium Magnetic Stirrer with Stir Bar “MS-20A”



Specialized Features

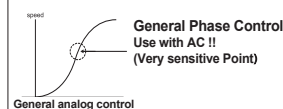
Long Life Power & Mechanism!

SMPS (Switching Mode Power Supply)
Use with Safety & Regular DC !!



SSR (Solid State Relay)-Non Contact
No Electronic Harm!
Realize **Long Life Cycle!**

High Stability in Very Low & High-speed



PWM Control
Use with DC !!
(Super linearity)

witeg Realize **Stable & Easy to Use!**

“witeg” WiseStir® MS-D Digital Magnetic Stirrer, 180×180mm Ceramic-Coated Plate
with Digital Feedback Control System, Precise Speed Control, Back Light LCD Display, 80~1.500 rpm, Max. 20 Lit.



Premium Magnetic Stirrer (MS-20D)

- Digital Feedback Control by High-Performance Microprocessor
- Ceramic Coated Plate -Chemical/Acid Resistance
- Patented Jog-Shuttle Control System
- CE Certified

- * Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
- * Mixing for Chemical, Laboratory, Pharmaceutical Materials
- * Digital Feedback Control by High-Performance Microprocessor
- * Digital LCD Display with Back-Light Function
- * Smart Design of Body made by Aluminum Die-Casting (MS-20D)
- * Ceramic Coated Plate-Chemical/Acid Resistance
- * Storage function for the set values : RPM and Time
- * Digital Timer Function (99hr 59min)
- * Alarm Function : Error Status and Timer-End
- * Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- * Free Voltage (AC 80V ~ 240V, 50 / 60Hz) by SMPS

Specification

Model	180×180mm Plate-type “MS-20D”	
Plate Size (mm)	180×180	
Stirring Capacity (H ₂ O)	Max. 20Lit.	
Speed Range	80 ~ 1.500 rpm	
Motor Rating	9 / 4 W	
Speed Accuracy (%)	± 5	
Speed Control Resolution	5 rpm	
Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end	
Display	Digital LCD Display with Back -Light Function	
Controller	Digital Feedback Controller with Jog Shuttle Switch(Turn+Push)	
Stirring Bar	3cm bar-included, Usable : up to 5cm bar	
Permissible Ambient Temperature	Ambient +5 ~ 50°C	
Permissible Relative Moisture	85%	
Material	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance)
	Body	Powder Coated Aluminum
Dimension (w×d×h) (mm)	206×307×99	
Weight (kg)	3,1 kg	
Others	CE Certified Storage Function (RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)	
Packing Size (w×d×h) (mm)	400×280×200	
& Gross Weight	5 kg	
Power Consumption	10 W	
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

DH.WMS03022 Magnetic Stirrer, 180×180mm, 230V, “MS-20D”, with stir bar

Optional Accessories

DH.WHP503036 (1) Stand Rod, “RD200”, Stainless Steel, screw, φ12×L450mm, for HP-20A/20D, MSH-20A/20D, MSH-50A/55A,MSH-50D/55D and SMHS

DH.WHP503012 (2) Holder/Clamp/Clip, “CL220”, for Temp. Probe

※ You will find matching beakers and flasks in our general catalogue at following pages : 33, 34, 293–296.

※ You will find matching stirring bars in our general catalogue at following pages : 362, 363.



Cat. No	Description
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Articles

“witeg” WiseStir[®] MS-MP Digital Multi-point Magnetic Stirrers, 4-/8- Points, Max. 500ml per Point with Digital Feedback Control System, Digital LCD Display, Synchronous Operation, 80~1.200 rpm

- Ideally Suitable for Use in Incubators and Climatic Chambers
- Excellent for Multi-use and wide range of Sample Testing
- Patented Jog-Shuttle Control System
- CE Certified

- * Ideally Suitable for Use in Incubators and Climatic Chambers
- * Excellent for Multi-use and wide range for Sample Testing
- * Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
- * Synchronous Operation of 4 / 8 Stirring Points
- * Increased Effectiveness by Microprocessor Control
- * Digital LCD Display with Back-Light Function * Up to 0.5 Lit. Stirring Capacity per Point
- * Smooth Start and Change of Stirring Speed * Digital Timer Function (99 hr 59 min)
- * Storage Function for the Set Values : RPM and Timer
- * Extraordinary Mechanical, Physical and Chemical Resistance
- * Locking Mode supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- * Free Voltage (AC 80V ~ 240V, 50 / 60Hz) by SMPS

Specification

Number of Stirring Points & Models	4 (2×2) Stirring Points “MS-MP4”	8 (4×2) Stirring Points “MS-MP8”
Plate Size (mm)	210×300	210×500
Stirring Capacity (H:O)	Max. 0,5 Lit. per Point	
Distance between Stirring Points	100 mm	
Speed Range	80 ~ 1.200 rpm	
Motor Rating	16/9 W	
Speed Control Resolution	5 rpm	
Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end	
Display	Digital LCD Display with Back-Light Function	
Controller	Digital Feedback Controller with Jog Shuttle Switch(Tum+Push)	
Stirring Bar	3cm bar-included, Usable : up to 3cm bar	
Permissible Ambient Temperature	Ambient +5 ~ 50 °C	
Permissible Relative Moisture	85%	
Material	Plate Stainless Steel (# 304)	Body Power Coated Steel
Dimension (w×d×h) (mm)	210×300×65	210×500×65
Weight	2,5 kg	3,5 kg
Others	CE Certified Storage Function (RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer -end)	
Packing Size (w×d×h) (mm) & Gross Weight	330×300×180	540×330×180
Power Consumption	6 kg	
Power plug type	20 W	
Power Supply*	Hybrid E+F	
	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

4 Points Magnetic Stirrer, “MS-MP4”, with Cord/Plug

DH.WMS03036 Multipoint Magnetic Stirrer, 230V, “MS-MP4”

8 Points Magnetic Stirrer, “MS-MP8”, with Cord/Plug

DH.WMS03038 Multipoint Magnetic Stirrer, 230V, “MS-MP8”

※ You will find matching beakers and flasks in our general catalogue at following pages : 33, 34, 293-296.

※ You will find matching stirring bars in our general catalogue at following pages : 362, 363.



4-Point Stirrer, Digital Multi-Point Magnetic Stirrer “MS-MP4”



8-Point Stirrer, Digital Multi-Point Magnetic Stirrer “MS-MP8”

“witeg” **WiseStir® MSH-A** Premium Hotplate Stirrer, Ceramic-Coated Plate, up to 380°C, 1.500 rpm
 Built-in Linearity PWM Controller, Superior Temperature Uniformity, Precise Control of Temp. & RPM, 180×180mm or 260×260mm



180×180mm Plate-type Hotplate Stirrer “MSH-20A”



260×260mm Plate-type Hotplate Stirrer “MSH-30A”

- Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
- Superior Linearity for Temperature Control & Stirring Speed
- Ceramic Coated Plate-Chemical / Acid Resistance
- CE Certified

- * Excellent for Sample Drying and most General Lab Heating Applications
- * Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
- * Superior Linearity for Temperature Control & Stirring Speed by Specially Designed Control Circuitry.(PWM Control)
- * Smart Design of Body made by Aluminum Die-Casting (MSH-20A)
- * Ceramic Coated Plate-Chemical/Acid Resistance
- * Maximum Temperature of 380°C

Specification

Model		180×180mm Plate-type “MSH-20A”	260×260mm Plate-type “MSH-30A”
Material	Body	Powder Coated Aluminum	Powder Coated Steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Stirring Capa. & Motor Rating		Max. 20 Lit., 9 / 4 W	
Speed Range		Max. 1.500 rpm	
Temp. Range		Max. 380°C	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		600W	1,2 kW
Controller		Superior Linearity PWM Controller	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %		Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight		206×307×h99mm, 2,8kg	286×387×h99mm, 3,3kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Power plug type		Hybrid E+F	
Power Supply*		AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

With 180×180mm Plate-type Hotplate Stirrer, “MSH-20A”

DH.WMH03120 180×180mm Plate-type, 230V, with stir bar

With 260×260mm Plate-type Hotplate Stirrer, “MSH-30A”

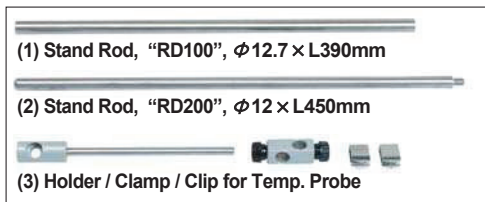
DH.WMH03121 260×260mm Plate-type, 230V, with stir bar

Optional Stand Rod & Holder/Clamp

DH.WHP503011 (1) Stand Rod, “RD100”, Stainless Steel, none screw
 φ 12.7×L390mm, for HP-30A / 30D, MSH-30A/30D

DH.WHP503036 (2) Stand Rod, “RD200”, Stainless Steel, 1.5p screw,
 φ 12×L450mm, for HP-20A / 20D, MSH-20A/20D,
 MSH-50A/55A,MSH-50D / 55D and SMHS

DH.WHP503012 (3) Holder / Clamp / Clip, “CL220”, for Temp. Probe



* You will find matching beakers and flasks in our general catalogue at following pages : 33, 34, 293-296.

* You will find matching stirring bars in our general catalogue at following pages : 362, 363.

Specialized Features

High Stability in Very Low & High-Temperature

General analog control
 General Phase Control
 Use with AC !!
 (Very sensitive Point)

PWM Control
 Use with DC !!
 (Super linearity)

witeg Realize **Stable & Easy to Use!**

Long Life Power & Mechanism!

SMPS (Switching Mode Power Supply)
 Use with Safety & Regular DC !!

AC → Stable DC !!

SSR (Solid State Relay)-Non Contact
 No Electronic Harm!
 Realize **Long Life Cycle!**

Cat. No	Description	Articles
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“witeg” WiseStir[®] MSH-50A Premium Compact Hotplate Stirrer, Round-Type Plate, ϕ 135 mm Ceramic Coated or Anodized Plate, Superior Temperature Uniformity, Precise Control of Temp. & RPM, up to 380 °C, 1.500 rpm

- Superior Temperature Uniformity : Less than 10 % on the Plate at Ambient Temperature
- Superior Linearity for the Control of Temperature & Stirring Speed
- Ceramic Coated Plate (MSH-50A) for Chemical/Acid Resistance or Anodized Plate (MSH-55A) for Scratch Prevention
- CE Certified

- * Excellent for Sample Drying and most General Lab Heating Applications.
- * Superior Temperature Uniformity : Less than 10 % on the Plate at Ambient Temperature.
- * Superior Linearity for Temperature Control & Stirring Speed by Specially Designed Control Circuitry. (PWM Control)
- * Smart Design of Body made by Aluminum Die-Casting.
- * Ceramic Coated Plate (MSH-50A) for Chemical/Acid Resistance or Anodized Plate (MSH-55A) for Scratch Prevention.
- * Maximum Temperature of 400 °C

Specification

Models	Ceramic Coated Aluminum Plate “MSH-50A”	Black Anodized Aluminum Plate “MSH-55A”
Features	Good Resistance of Chemicals & Acid, Easy to Clean	Prevention of Crack or Chip, and More Even Heating Surface
Plate Size(mm)	ϕ 135	
Stirring Capa. & Motor Rating	Max. 20 Lit.(H ₂ O), 9/4W	
Speed Range	Max. 1.500 rpm	
Temp. Range	Max. 400 °C (Over 70°C)	
Temp. Uniformity	Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption	400 W	
Controller	Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar	3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %	Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight	w160 × d280 × h95mm, 2,3kg	
Packing Size & Gross Weight	w400 × d280 × h200mm, 4 kg	
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

With Ceramic Coated Plate, “MSH-50A” Package-set & Unit

DH.WMH03150 Hotplate Stirrer, **MSH-50A**, ϕ 135 mm, Ceramic Coated Plate, 0~1.500 rpm, to 380 °C

With Black Al-anodized Plate, “MSH-55A” Package-set & Unit

DH.WMH03155 Hotplate Stirrer, **MSH-55A**, ϕ 135 mm, Anodized Plate, 0~1.500 rpm, to 380 °C

Additional Function Accessories

DH.WHP503036 Stand Rod, **RD200**, Stainless Steel, ϕ 12 × L 450 mm, for **HP-20A / 20D, MSH-20A / 20D MSH-50A/55A, MSH-50D / 55D** and **SMHS**

DH.WHP503012 Holder + Clamp, **CL220**, for Temperature Sensor

※ You will find matching beakers and flasks in our general catalogue at following pages : 33, 34, 293–296.

※ You will find matching stirring bars in our general catalogue at following pages : 362, 363.

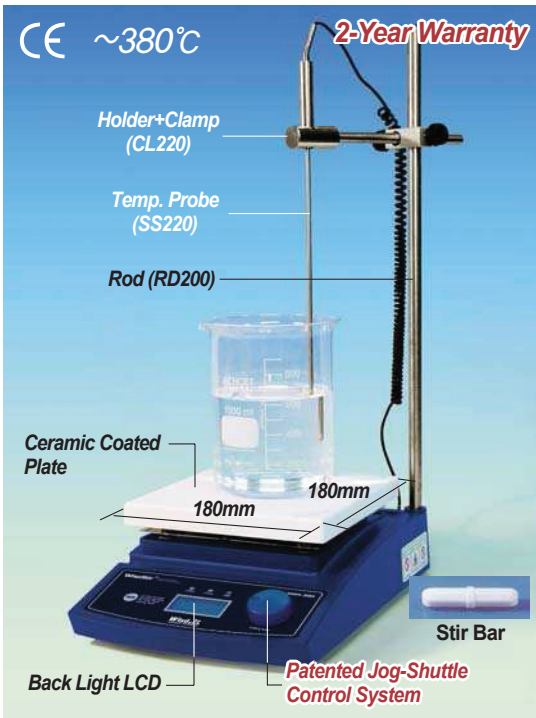


Premium Compact Hotplate Stirrer, Round Type & Anodized Plate (MSH-55A)

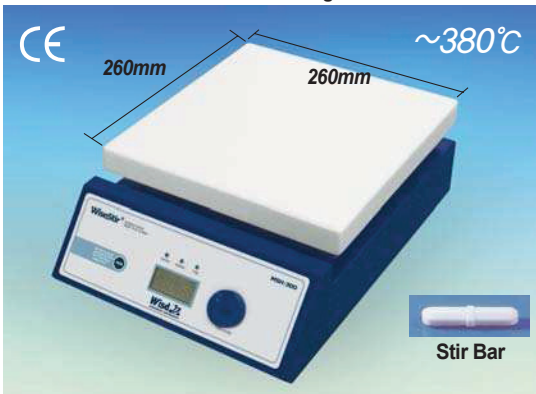


Premium Compact Hotplate Stirrer, Round Type & Ceramic-Coated Plate (MSH-50A)

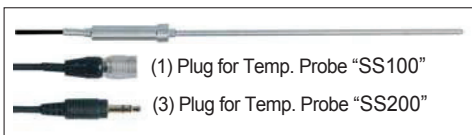
“witeg” **WiseStir® MSH-D** Digital Hotplate Stirrer, Ceramic-Coated Plate, up to 380°C, ±0,3°C with Digital Feedback Control, Accurate Temp. Control, 180×180mm- or 260×260mm- Plate, 80 ~ 1.500 rpm



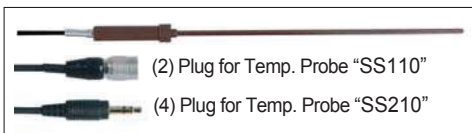
180×180mm Plate-type Digital Precise Hotplate “MSH-20D” Package-set



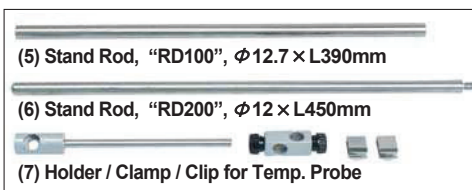
180×180mm Plate-type Digital Precise Hotplate “MSH-30D” Unit only



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



(5) Stand Rod, “RD100”, φ12.7×L390mm

(6) Stand Rod, “RD200”, φ12×L450mm

(7) Holder / Clamp / Clip for Temp. Probe

- Digital Feedback Control by High-Performance Microprocessor
- Patented Jog-Shuttle Control System
- CE Certified

- * Excellent for Sample Drying and most General Lab Heating Applications
- * User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20,0°C)
- * Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional)
- * Storage Function for the set Values : Temp. and Timer
- * Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- * Superior Temperature Uniformity : less than 10% on the Plate at Ambient Temperature

Specification

Model		180×180mm Plate-type “MSH-20D”	260×260mm Plate-type “MSH-30D”
Material	Body	Powder Coated Aluminum	Powder Coated Steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Stirring Capa. & Motor Rating		Max. 20 Lit., 9 / 4 W	
Speed & Control Resolution		80 ~ 1.500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 380°C, ±0,3°C at Set Temperature(Over 70°C)	
Temp. Resolution		0,1°C-Display, 0,5°C-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		600W	1,2 kW
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD Display with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Safety Circuit		Over Temp. Protection	
Permissible Temp. & RH %		Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight		206×307×h99mm, 3,3kg	286×387×h99mm, 3,5kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Power plug type		Hybrid E+F	
Power Supply*		AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

- * “MSH-20D” Package-set : Complete with ① Hotplate Stirrer Unit, ② : “SS200” PT100 External / Direct Contact Temp. Probe, ③ “RD200” Stainless steel Support Rod φ 12×L450mm, ④ “CL220” Holder + Clamp for External Temp. Probe
- * “MSH-30D” Package-set : Complete with ① Hotplate Stirrer Unit, ② : “SS100” PT100 External / Direct Contact Temp. Probe, ③ “RD100” Stainless steel Support Rod φ 12×L390mm, ④ “CL220” Holder + Clamp for External Temp. Probe

With 180×180mm Plate-type, “MSH-20D” Package-set & Unit

- DH.WMH03021 180×180mm Plate-type, Package-set, 230V
- DH.WMH03020 , Unit only, 230V, with stir bar

With 260×260mm Plate-type, “MSH-30D” Package-set & Unit

- DH.WMH03023 260×260mm Plate-type, Package-set, 230V
- DH.WMH03022 , Unit only, 230V, with stir bar

Additional Function Accessories

- DH.WHP503020 (1) External / Direct Contact Temp. Probe, “SS100”, PT100, for HP-30D, MSH-30D and SMHS Probe φ4×L250mm, Cable L190cm
- DH.WHP503021 (2) External / Direct Contact Temp. Probe, “SS110”, PT100, Teflon Coated, for HP-30D, MSH-30D, SMHS Probe φ4×L250mm, Cable L190cm
- DH.WHP503030 (3) External / Direct Contact Temp. Probe, “SS200”, PT100, for HP-20D, MSH-20D, Probe φ4×L250mm, Cable L190cm
- DH.WHP503031 (4) External / Direct Contact Temp. Probe, “SS210”, PT100, Teflon Coated, for HP-20D, MSH-20D Probe φ4×L250mm, Cable L190cm
- DH.WHP503011 (5) Stand Rod, “RD100”, Stainless Steel, φ 12,7×L390mm for HP-30A/30D, MSH-30A / 30D, none Screw
- DH.WHP503036 (6) Stand Rod, “RD200”, Stainless Steel, φ 12×L450mm for HP-20A / 20D, MSH-20A / 20D, MSH-50A / 55A, MSH-50D / 55D and SMHS, 1,5p Screw
- DH.WHP503012 (7) Holder/Clamp/Clip, “CL220”, for Temp. Probe

※ You will find matching beakers and flasks in our general catalogue at following pages : 33, 34, 293-296.
 ※ You will find matching stirring bars in our general catalogue at following pages : 362, 363.

Cat. No	Description	Articles
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“witeg” WiseStir® MSH-50D Digital Compact Hotplate Stirrer, Round-type Plate, ϕ 135mm
 with Ceramic Coated or Al-anodized Plate, Digital Feedback Control, Back Light LCD, up to 400°C, $\pm 0.3^\circ\text{C}$, 80 ~ 1.500 rpm

- Digital Feedback Control by High-Performance Microprocessor
- Choice of Models with Ceramic Coated Aluminum Plate (MSH-50D) for Chemical/Acid Resistance and Easy to Clean, or Anodized Aluminum Plate (MSH-55D) for Prevention of Crack/Chip and More Even Heating Surface
- Patented Jog-Shuttle Control System
- CE Certified

- * Excellent for Mixing and most General Lab Heating Applications.
- * Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional).
- * User's Self-Compensation Function :
 To Control Difference between Real Temp. and Indicated Temp. ($\pm 20.0^\circ\text{C}$).
- * Smart Design of Body made by Aluminum Die-Casting, Powder Coated.
- * Storage Function for the set Values : RPM, Temp. and Timer.
- * Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled).

Specification

Models	Ceramic Coated Aluminum Plate "MSH-50D"	Black Anodized Aluminum Plate "MSH-55D"
Features	Good Resistance of Chemicals & Acid, Easy to Clean	Prevention of Crack or Chip, and More Even Heating Surface
Plate Size(mm)	ϕ 135	
Stirring Capa. & Motor Rating	Max. 20 Lit.(HzO), 9/4W	
Speed & Control Resolution	80 ~ 1.500 rpm, 5 rpm	
Temp. Range & Accuracy	Max. 400 °C, $\pm 0.3^\circ\text{C}$ at Set Temp.(Over 70 °C)	
Temp. Resolution	0,1 °C -Display, 0,5 °C -Control	
Temp. Uniformity	Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption	400 W	
Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end	
Display	Digital LCD Display with Back -Light Function	
Controller	Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar	3cm bar-included, Usable : up to 5cm bar	
Safety Circuit	Over Temp. Protection, Auto-off : 420 °C Over	
Permissible Temp. & RH %	Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight	w160 × d280 × h95mm, 2,3kg	
Packing Size & Gross Weight	w400 × d280 × h200mm, 4 kg	
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

- * Package-Set : Complete with (1) Hotplate Stirrer Unit with 3cm Stirrer Bar, (2) "SS500" PT100 External / Direct Contact Temp. Probe, (3) "RD200"Stainless steel Support Rod ϕ 12 × L450mm, and (4) "CL220"Holder + Clamp for External Temp. Probe

With Ceramic Coated Plate, "MSH-50D" Package-set & Unit

- DH.WMH03051 Ceramic Plate-type, **Package-set, 230V**
- DH.WMH03050 , **Unit only, 230V**, with stir bar

With Black Al-anodized Plate, "MSH-55D" Package-set & Unit

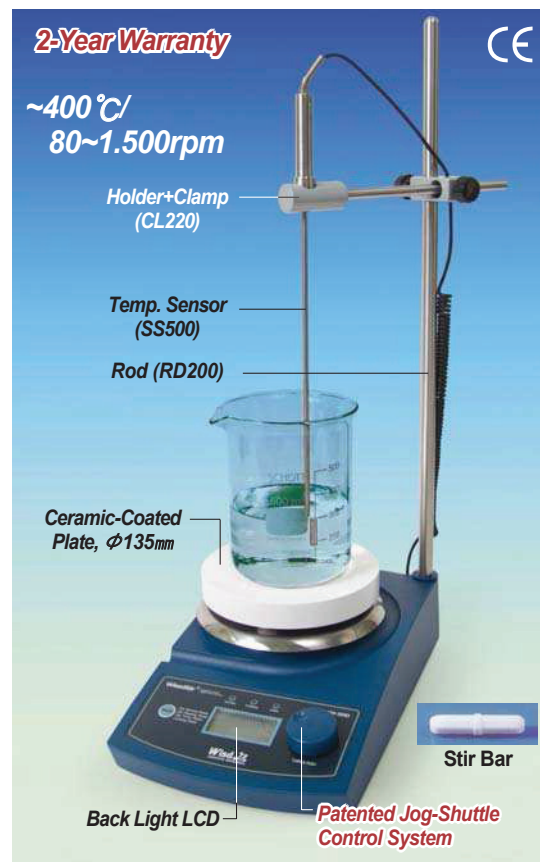
- DH.WMH03056 Al-anodized Plate-type, **Package-set, 230V**
- DH.WMH03055 , **Unit only, 230V**, with stir bar

Additional Function Accessories

- DH.WHP503060 (1) Direct Contact Temp. Probe, **SS500, PT100**, for MSH50D/55D
 Probe $\phi 4 \times L250\text{mm}$, Cable L190cm
- DH.WHP503061 (2) Direct Contact **Teflon Coated** Temp. Probe, **SS510**
PT100, for MSH50D/55D, Probe $\phi 4 \times L250\text{mm}$, Cable L190cm
- DH.WHP503036 (3) Stand Rod, "RD200", Stainless Steel, $\phi 12 \times L450\text{mm}$
 for **HP-20A / 20D, MSH-20A / 20D, MSH-50A / 55A, MSH-50D / 55D** and **SMHS**, Screw
- DH.WHP503012 (4) Holder/Clamp/Clip, "CL220", for Temp. Probe

※ You will find matching beakers and flasks in our general catalogue at following pages : 33, 34, 293-296.

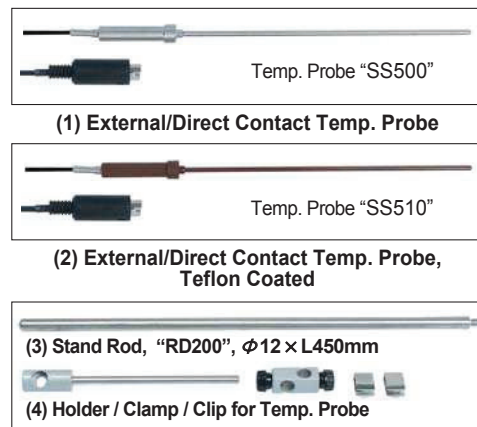
※ You will find matching stirring bars in our general catalogue at following pages : 362, 363.



Ceramic Coated Plate-type : Package-set "MSH-50D"



Black Al-anodized Plate-type : Unit only "MSH-55D"



“witeg” WiseStir® SMHS Systematic Multi-Hotplate Stirrers, 3- or 6- Places, Ceramic-Coated Plates with Digital Feedback Control, Independent Heating & Stirring Control, Back Light LCD, up to 350°C, 80~1.500 rpm



3 × 1 Plates-type Multi-Hotplate Stirrer “SMHS-3”

- Excellent for Multi-use and wide range Sample Testing
- Patented Jog-Shuttle Control System
- CE Certified

- * Systemized 3- and 6-Hotplate Stirrer
- * Independent Heating and Stirring Control
- * Digital Feedback Control by High-Performance Microprocessor
- * Ceramic Coated Plate-Chemical/Acid Resistance
- * Maximum Temperature of 350°C with ±0,3°C Control Accuracy
- * Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (Optional)
- * Digital LCD Display with Back-Light Function
- * Digital Timer Function Included : 99 hr 59 min
- * Storage Function for the Set Values : Temperature, RPM and Timer
- * Locking Mode for Experimental Safety Supported

Specification

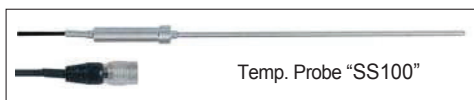
Number of Plates, Models	3 × 1 Plates-type “SMHS-3”	3 × 2 Plates-type “SMHS-6”
Material	Plate : Ceramic Coated Aluminum, Body : Powder Coated Steel	
Plate Size(mm)	140 × 140	
Stirring Capa. & Motor Rating	Max. 20 Lit.(H ₂ O), 9/4W × 3	Max. 20 Lit.(H ₂ O), 9/4W × 6
Speed & Control Resolution	80 ~ 1.500 rpm, 5 rpm	
Temp. Range & Accuracy	Max. 350 °C, ±0,3°C at Set Temp.(Over 70 °C)	
Temp. Resolution	0,1 °C-Display, 0,5 °C-Control	
Temp. Uniformity	Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption	400 W × 3 Plates	400 W × 6 Plates
Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end	
Display	Digital LCD Display with Back-Light Function	
Controller	Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar	3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %	Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight	510 × 240 × h100mm, 10kg	510 × 410 × h180mm, 18kg
Packing Size & Gross Weight	540 × 330 × h170mm, 10kg	570 × 540 × h230mm, 18kg
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

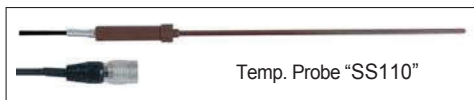


3 × 2 Plates-type Multi-Hotplate Stirrer “SMHS-6”

※ 3 Rear Hotplate Stirrer SMHS-6 have 3 Ports available to connect External Temp. Probe



(1) External/Direct Contact Temp. Probe



(2) External/Direct Contact Temp. Probe, Teflon Coated



(3) Stand Rod, “RD200”, φ12 × L450mm

(4) Holder / Clamp / Clip for Temp. Probe

Ordering Information

3 × 1 Plates-type Multi-Hotplate Stirrers “SMHS-3”, with Cord / Plug

DH.WMH03503 3 × 1 Plate-type, 230V, “SMHS-3”, with stir bar

3 × 2 Plates-type Multi-Hotplate Stirrers “SMHS-6”, with Cable

DH.WMH03506 3 × 2 Plate-type, 230V, “SMHS-6”, with stir bar

※ 3 Rear Hotplate Stirrer SMHS-6 have 3 Ports available to connect External Temp. Probe.

Additional Function Accessories

DH.WHP503020 (1) External / Direct Contact Temperature Sensor, “SS100”, PT100, for HP-30D, MSH-30D and SMHS Probe φ4 × L250mm, Cable L190cm

DH.WHP503021 (2) External / Direct Contact Temperature Sensor, “SS110”, PT100, Teflon Coated, for HP-30D, MSH-30D, SMHS Probe φ4 × L250mm, Cable L190cm

DH.WHP503036 (3) Stand Rod, “RD200”, Stainless Steel, φ12 × L450mm for HP-20A/20D, MSH-20A/20D, MSH-50A/55A, MSH-50D/55D and SMHS, 1,5p Screw

DH.WHP503012 (4) Holder / Clamp / Clip, “CL220”, for Temp. Probe

※ You will find matching beakers and flasks in our general catalogue at following pages : 33, 34, 293-296.

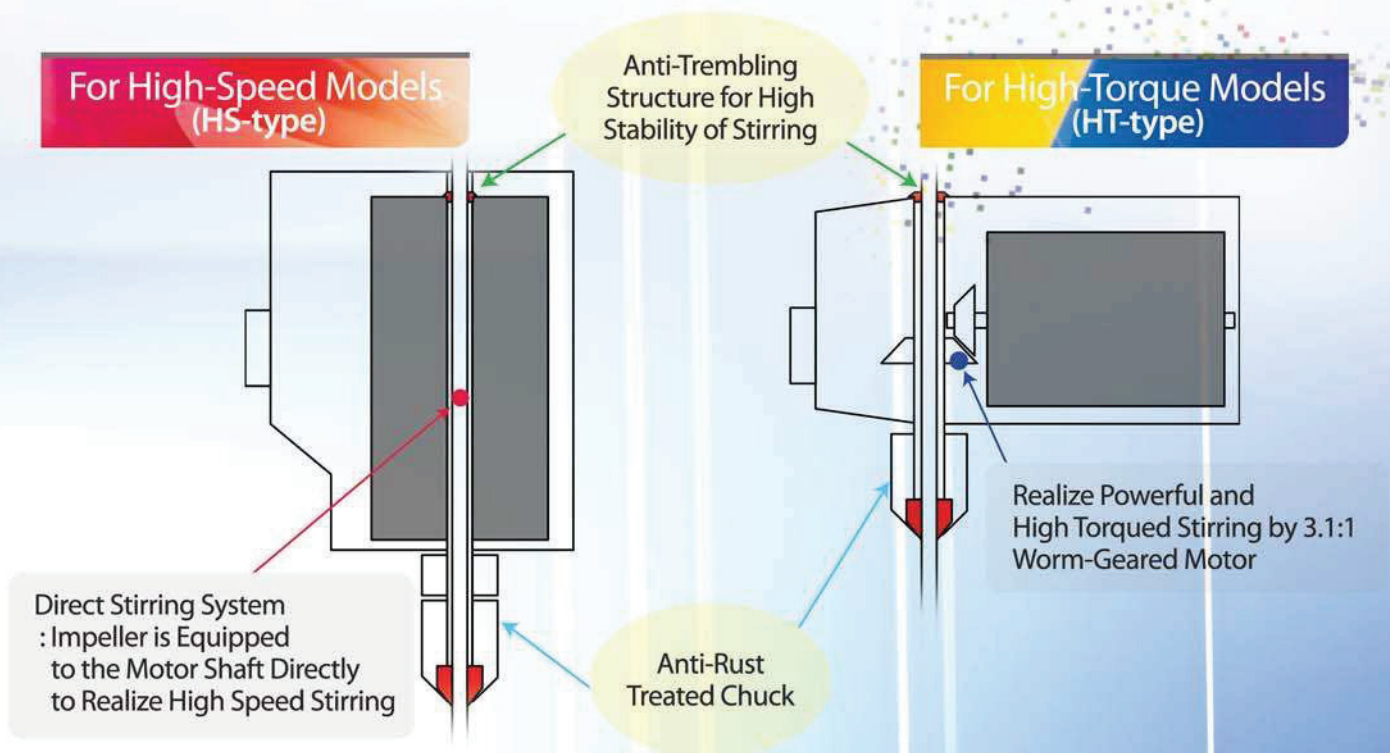
※ You will find matching stirring bars in our general catalogue at following pages : 362, 363.

WiseStir® HS-/HT-type Overhead Stirrers

The World Best Selling Overhead Stirrer!!

Anti-Trembling System!!

- ☒ Powerful DC Motor Designed by witeg **Wisd.2** Technology which is Ideal for Various Stirring Applications in Laboratories
- ☒ Two Main Categories for High-Speed(HS-type) and High-Torque(HT-type) (Refer Selection Guide on Page. 149)
- ☒ Digital Feedback Control System : Offered the Steady and Constant Stirring Speed Accurately Against the Viscosity Change of Sample (for all Digital Models)
- ☒ Chrome-plated Stainless Steel Chuck : Prevented from Corrosion During Operation in Fume Generated Solution
- ☒ The Position(Height) of Impeller is Adjustable
- ☒ Anti-Trembling System : Impeller is Fixed at Two Points of Both the Chuck and the Shaft
- ☒ Over-Load Protection and Over-Heat Protection Functions For Motor
- ☒ Various Kinds of Impellers and Stands are Available (Refer to Standard Accessories on Page. 156~157)



Superior Anti-rusted Chuck for All Overhead Stirrer Models



- Impeller Holding Part which is Requires Precision and Anti-Oxidization Stainless Steel
- Handle to Tighten and Loosen the Chuck
- Chrome-plated : Prevent from Corrosion During Operation in Fume Generated Solution for Long Time

WiseStir® 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 / 75 W	130 / 120 W	83 / 75 W	130 / 120 W	83 / 75 W	130 / 120 W	83 / 75 W	130 / 120 W	83 / 75 W	130 / 120 W	83 / 75 W	130 / 120 W
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, 1N~, 50/60Hz											

* Weight of Remote Controller = 2,5 kg

** 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				

Cat. No	Description	Articles
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“witeg” WiseStir® HS-A High-Speed Analog Overhead Stirrers, Max. 10/20Lit., Max. 3.000rpm
 With Easy-to-Use Dial for Speed Setting, for Low- to Medium-Viscous Samples, up to 50.000 mPas

- High Speed Stirring by Direct Driven Motor
- Over-Heat Protection Function for motor
- CE Certified
- * General Purpose Basic Laboratory Mixing
- * Ideal for Stirring Low-to Medium-Viscous Material
- * Ideal for Schools, Universities and Inspection Laboratories
- * Smooth Start and Change of the Stirring Speed
- * Easy-to-use Dial for Speed Setting
- * The Position (Height) of Impeller is Adjustable
- * Over-Heat Protection Function for Motor
- * Chrome-Plated & Stainless Steel Chuck - Prevention from Corrosion

Specification

Stirring Capacity & Models	Max. 10 Lit. (H ₂ O) “HS-50A”	Max. 20 Lit. (H ₂ O) “HS-120A”
Maximum Viscosity	10,000 mPas	50,000 mPas
Maximum Torque	85 Ncm	145 Ncm
Speed Range & Motor	0 ~ 3.000 rpm, Worm-Geared DC Motor	
Motor Rating (Input / Output)	83 / 75 W, 1 / 10 HP	130 / 120 W, 1 / 6 HP
Controller	Analog Phase Controller	
Max. Impeller Shaft Diameter	10 mm	
Permissible Temp. & Humidity	0 ~ 40°C, 80%	
Safety Device	Over Heat Protector for motor	
Material	ABS and Aluminum	
Dimension & Weight	90 × 145 × h180mm, 4,5 kg	90 × 145 × h180mm, 5,3 kg
Packing Size & Gross Weight	320 × 300 × h180mm, 5 kg	320 × 300 × h180mm, 8 kg
Power Consumption	85 W	130 W
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

- * “HS-50A”Package-set : Complete with ① Overhead Stirrer Unit ② “PL010” Stainless Steel Impeller (Rod ϕ 8 × L500mm, Blade ϕ 50mm)
 ③ “CL200” Clamp ④ “KA1177” Safety Stand (Rod ϕ 23 × L800mm, Stand Base w34 × d29cm)
- * “HS-120A”Package-set : Complete with ① Overhead Stirrer Unit ② “PL015” Stainless Steel Impeller (Rod ϕ 8 × L500mm, Blade ϕ 70mm)
 ③ “CL200” Clamp ④ “KA1177” Safety Stand (Rod ϕ 23 × L800mm, Stand Base w34 × d29cm)

With 10 Lit. Stirring Capa., 10.000 mPas, “HS-50A” Package-set & Unit

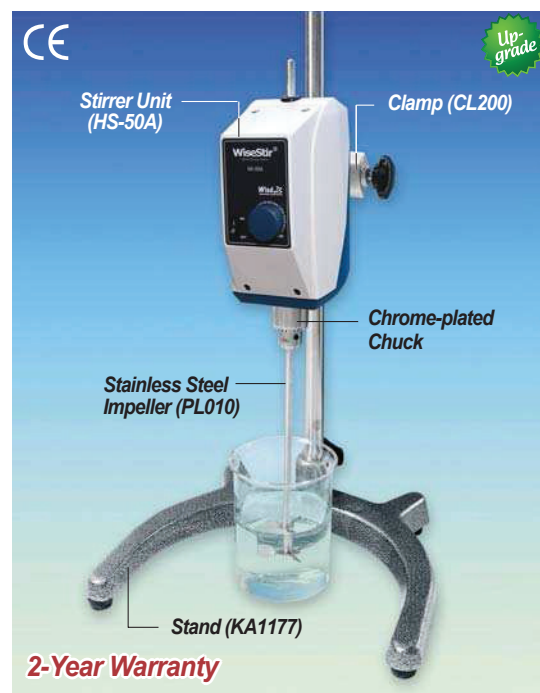
DH.WOS01211 High Speed-type Overhead Stirrer, **Package-set, 230V**
 DH.WOS01210 , **Unit only, 230V**

With 20 Lit. Stirring Capa., 50.000 mPas, “HS-120A” Package-set & Unit

DH.WOS01216 High Speed-type Overhead Stirrer, **Package-set, 230V**
 DH.WOS01215 , **Unit only, 230V**

※ You will find matching beakers in our general catalogue at following pages : 292

- ※ Refer to page 156, 157 for Accessory Specifications.
- ※ Refer to page 149 for Product Line & Selection Guide



2-Year Warranty
 High-Speed Analog Overhead Stirrer “HS-50A -Set”



High-Speed Analog Overhead Stirrer “HS-120A -unit”

“witeg” WiseStir® HS-D High-Speed Digital Overhead Stirrer, Max. 10/20Lit., 200 ~ 3.000 rpm with Digital Feedback Control, Steady & Constant Stirring Speed Against Viscosity, up to 50.000 mPas



High-Speed Digital Overhead Stirrer “HS-30D -Set”

- **Digital Feedback Control: Steady and Constant Stirring Speed against Viscosity Change of a Sample during Reaction**
- **Patented Jog-Shuttle Control System**
- **CE Certified**

- * General Purpose Basic Laboratory Mixing
- * Ideal for Stirring Low-to Medium-Viscous Material
- * Digital Feedback Control: Steady and Constant Stirring Speed against Viscosity Change of a sample during Reaction
- * Digital LCD Display with Back-Light Function
- * Smooth Start and Change of the Stirring Speed
- * Overload Protection and Over-Heat Protection Functions for Motor
- * High Speed Stirring by Direct Driven Motor
- * Digital Timer Function (99hr 59min)
- * Alarm Function : Error status and Timer-end
- * The Position(Height) of Impeller is Adjustable.
- * Storage Function for Set Value : RPM & Timer
- * Chrome-Plated & Stainless Steel Chuck-Prevention from Corrosion

Specification

Stirring Capacity & Models	Max. 10 Lit. (HzO) “HS-30D”	Max. 20 Lit. (HzO) “HS-100D”
Maximum Viscosity	10.000 mPas	50.000 mPas
Maximum Torque	85 Ncm	145 Ncm
Speed Range & Resolution	200 ~ 3.000 rpm, 1 rpm-Display / 1 rpm-Control	
Motor	Worm-Geared DC Motor	
Motor Rating (Input / Output)	83 / 75 W, 1 / 10 HP	130 / 120 W, 1 / 6 HP
Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end	
Display	Digital LCD Display with Back-Light Function	
Controller	Digital Feedback Controller with Jog Shuttle Switch (Turn + Push)	
Max. Impeller Shaft Diameter	10 mm	
Permissible Temp. & Humidity	0 ~ 40°C, 80%	
Safety Device	Overload & Heat Protector for Motor	
Material	ABS and Aluminum	
Dimension & Weight	90 × 145 × h180mm, 4,5 kg	90 × 145 × h180mm, 5,3 kg
Packing Size & Gross Weight	320 × 300 × h180mm, 5 kg	320 × 300 × h180mm, 8 kg
Power Consumption	85 W	130 W
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

- * **“HS-30D”**Package-set : Complete with ① Overhead Stirrer Unit ② **“PL010”** Stainless Steel Impeller (Rod ϕ 8 × L500mm, Blade ϕ 50mm) ③ **“CL200”** Clamp ④ **“ST110”** Standard Plate Stand (Rod ϕ 16 × L800mm, Plate w20 × d35cm)
- * **“HS-100D”**Package-set : Complete with ① Overhead Stirrer Unit ② **“PL015”** Stainless Steel Impeller (Rod ϕ 8 × L500mm, Blade ϕ 70mm) ③ **“CL200”** Clamp ④ **“ST120”** Wide Plate Stand (Rod ϕ 23 × L1.000mm, Plate w30 × d40cm)

With 10 Lit. Stirring Capa., 10,000 mPas, “HS-30D” Package-set & Unit

DH.WOS01016 High Speed-type Overhead Stirrer, **Package-set, 230V**
 DH.WOS01015 , **Unit only, 230V**

With 20 Lit. Stirring Capa., 50,000 mPas, “HS-100D” Package-set & Unit

DH.WOS01026 High Speed-type Overhead Stirrer, **Package-set, 230V**
 DH.WOS01025 , **Unit only, 230V**

※ You will find matching beakers in our general catalogue at following pages : 292

※ Refer to page 156, 157 for Accessory Specifications.

※ Refer to page 149 for Product Line & Selection Guide



High-Speed Digital Overhead Stirrer “HS-100D -Unit”

Cat. No	Description	Articles
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“witeg” WiseStir® HS-T High-Speed Digital Overhead Stirrer, with Remote Controller, 200 ~ 3.000 rpm with Remote Digital Feedback Control System, Steady & Constant Stirring Speed Against Viscosity, up to 50.000 mPas

- Remote Digital Feedback Controller : Steady and Constant Stirring Speed against Viscosity Change of a Sample during Reaction
- Patented Jog-Shuttle Control System
- CE Certified

- * Ideal for Stirring Low-to Medium-Viscous Material, General Purpose Basic Laboratory Mixing
- * Digital LCD Display for RPM, Power Bar Graph and Status
- * Overload Protection and Over-Heat Protection Functions for Motor
- * Smooth Start and Change of the Stirring Speed
- * High Speed Stirring by Direct Driven Motor
- * The Position(height) of Impeller is Adjustable
- * Storage Function for Set Value : RPM and Timer
- * Chrome-Plated & Stainless Steel Chuck - Prevention from Corrosion

Specification

Stirring Capacity & Models	Max. 10 Lit. (H ₂ O) “HS-30T”	Max. 20 Lit. (H ₂ O) “HS-100T”
Maximum Viscosity	10.000 mPas	50.000 mPas
Maximum Torque	85 Ncm	145 Ncm
Speed Range & Motor	200 ~ 3.000 rpm, Direct Driven DC Motor	
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 Display with Back - Light Function	
Controller	Remote type Digital Feedback Controller with Jog Shuttle Switch	
Max. Impeller Shaft Diameter	φ 8 mm	
Permissible Temp. & Humidity	0 ~ 40°C, 80%	
Safety Device	Overload & Heat Protector for motor	
Material	ABS and Aluminum	
Dimension & Weight*	90 × 100 × h180mm, 3 kg	90 × 100 × h180mm, 3.8 kg
Packing Size & Gross Weight	580 × 340 × h230mm, 5 kg	580 × 340 × h230mm, 8 kg
Power Consumption	75 W	120 W
Power plug type	Hybrid E+F	

* Weight of Remote Controller = 2.5kg ** Other Specifications are available upon Customer's Request.

Ordering Information

- * “HS-30T”Package-set : Complete with ① Overhead Stirrer Unit with Remote Controller
② “PL010” Stainless Steel Impeller(Rod φ 8 × L500mm, Blade φ 50mm) ③ “CL200” Clamp ④ “ST110” Standard Plate Stand(Rod φ 16 × L800mm, Plate w20 × d35cm)
- * “HS-100T”Package-set : Complete with ① Overhead Stirrer Unit with Remote Controller
② “PL015” Stainless Steel Impeller(Rod φ 8 × L500mm, Blade φ 70mm) ③ “CL200” Clamp ④ “ST120” Wide Plate Stand (Rod φ 23 × L1.000mm, Plate w30 × d40cm)

With Remote Controller, 10 Lit. Stirring Capa., 10.000 mPas,
“HS-30T” Package-set & Unit

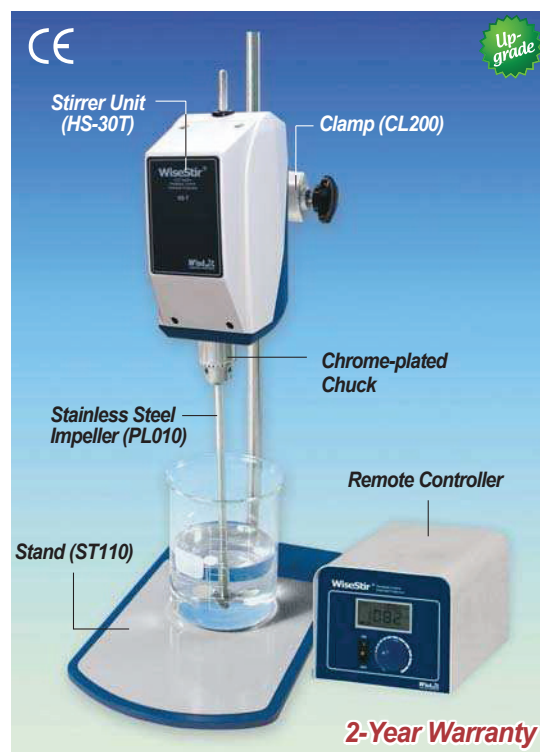
DH.WOS01036 High Speed-type Overhead Stirrer, Package-set, 230V
DH.WOS01035 , Unit only, 230V

With Remote Controller, 20 Lit. Stirring Capa., 50.000 mPas,
“HS-100T” Package-set & Unit

DH.WOS01046 High Speed-type Overhead Stirrer, Package-set, 230V
DH.WOS01045 , Unit only, 230V

※ You will find matching beakers in our general catalogue at following pages : 292

- ※ Refer to page 156, 157 for Accessory Specifications.
- ※ Refer to page 149 for Product Line & Selection Guide

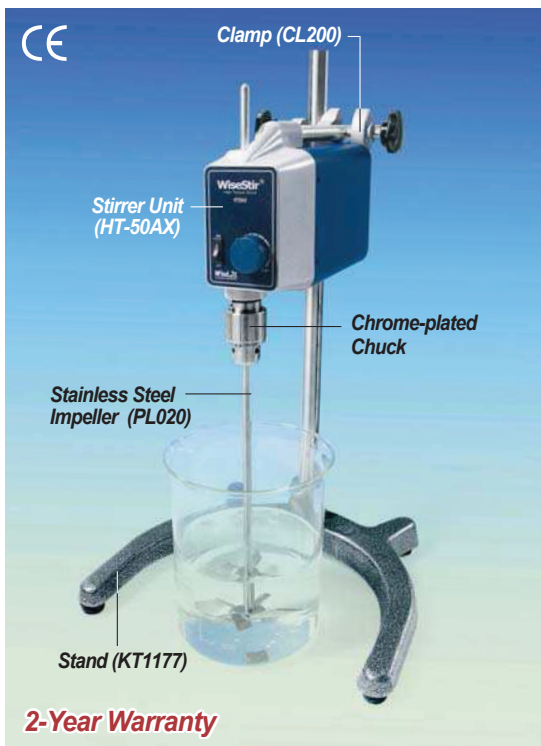


High-Speed Digital Overhead Stirrer, with Remote Controller, “HS-30T” Package-set



High-Speed Digital Overhead Stirrer, with Remote Controller, “HS-100T” Unit only

“witeg” **WiseStir® HT-AX** High-Torque Analog Overhead Stirrer, Max.40-/60-Lit., Max.1.000rpm with Chrome-Plated & Stainless Steel Chuck , Easy-to-Use Dial for Speed Setting, for High-Viscosity Fluids, 150.000 mPas



High-Torque Analog Overhead Stirrer, “HT-50AX” Package-set

- High Torque Stirring by 3,5:1 Ratio Worm -geared Motor
- Smooth Start and Change of the Stirring Speed
- CE Certified

- * Ideal for Stirring Material of Viscosities Ranging from Light Watery Solutions to High-Viscosity Fluids
- * Ideal for Schools, Universities and Inspection Laboratories
- * Food, Beverage, Dairy, Sugar & Candy Production
- * Smooth Start and Change of the Stirring Speed
- * Easy-to-use Dial for Speed Setting
- * The Position(height) of Impeller is Adjustable
- * Over-Heat Protection Function for Motor
- * Chrome-Plated & Stainless Steel Chuck-Prevention from Corrosion

Specification

Stirring Capacity & Models	Max. 40 Lit. (HzO) “HT-50AX”	Max. 60 Lit. (HzO) “HT-120AX”
Maximum Viscosity	100.000 mPas	150.000 mPas
Maximum Torque	300 Ncm	500 Ncm
Speed Range & Motor	0 ~ 1.000 rpm, Worm-Geared DC Motor (3,5:1 Ratio)	
Motor Rating (Input / Output)	83 / 75 W, 1 / 10 HP	130 / 120 W, 1 / 6 HP
Controller	Analog Phase Controller	
Max. Impeller Shaft Diameter	10 mm	
Permissible Temp. & Humidity	0 ~ 40°C, 80%	
Safety Device	Over Heat Protector for motor	
Material	ABS and Aluminum	
Dimension & Weight	90×180×h130mm, 3,5 kg	90×210×h130mm, 4 kg
Packing Size & Gross Weight	320×300×h180mm, 5 kg	320×300×h180mm, 8 kg
Power Consumption	85 W	130 W
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

- * “HT-50AX”Package-set : Complete with ① Overhead Stirrer Unit ② “PL020” Stainless Steel Impeller (Rod ϕ 8×L500mm, Blade ϕ 90mm) ③ “CL200” Clamp ④ “KA1177” Safety Stand (Rod ϕ 23×L800mm, Stand Base w34×d29cm)
- * “HT-120AX”Package-set : Complete with ① Overhead Stirrer Unit ② “PL020” Stainless Steel Impeller (Rod ϕ 8×L500mm, Blade ϕ 90mm) ③ “CL200” Clamp ④ “KA1177” Safety Stand (Rod ϕ 23×L800mm, Stand Base w34×d29cm)

With 40 Lit. Stirring Capa., 100.000 mPas, “HT-50AX” Package-set & Unit

DH.WOS01252 High Torque-type Overhead Stirrer, Package-set, 230V
DH.WOS01251 , Unit only, 230V

With 60 Lit. Stirring Capa., 150.000 mPas, “HT-120AX” Package-set & Unit

DH.WOS01272 High Torque-type Overhead Stirrer, Package-set, 230V
DH.WOS01271 , Unit only, 230V

※ You will find matching beakers in our general catalogue at following pages : 292

※ Refer to page 156, 157 for Accessory Specifications.

※ Refer to page 149 for Product Line & Selection Guide



Analog High-Torque Overhead Stirrer, “HT-120AX” Unit only

Cat. No	Description	Articles
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“witeg” WiseStir® HT-DX High-Torque Digital Overhead Stirrer, Max.40-/60-Lit., 50 ~ 1.000 rpm with Digital Feedback Control, Steady & Constant Stirring Speed Against Viscosity, for High-Viscosity Fluids, up to 150.000 mPas

- **Patented Jog-Shuttle Control System**
- **CE Certified**

- * Ideal for Stirring Material of Viscosities Ranging from Light Watery Solutions to High-Viscosity Fluids
- * Food, Beverage, Dairy, Sugar & Candy Production
- * Digital Feedback Control: Steady and Constant Stirring Speed Against Viscosity Change of a Sample during Reaction.
- * High Torque Stirring by 3,5:1 Ratio Worm-Geared Motor
- * Digital LCD Display with Back-Light Function * Smooth Start and Change of the Stirring Speed
- * The Position (Height) of Impeller is Adjustable
- * Storage Function for the set values : RPM and Timer
- * 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-50DX”	Max. 60 Lit. (H ₂ O) “HT-120DX”
Maximum Viscosity	100.000 mPas	150.000 mPas
Maximum Torque	300 Ncm	500 Ncm
Speed Range & Resolution	50 ~ 1.000 rpm, 1 rpm-Display / 1 rpm-Control	
Motor	Worm-Geared DC 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.), Error status & Timer-end	
Display	Digital LCD Display with Back-Light Function	
Controller	Digital Feedback Controller with Jog Shuttle Switch (Turn + Push)	
Max. Impeller Shaft Diameter	10 mm	
Permissible Temp. & Humidity	0 ~ 40°C, 80%	
Safety Device	Overload & Heat Protector for Motor	
Material	ABS and Aluminum	
Dimension & Weight	90 × 180 × h130mm, 3,5 kg	90 × 210 × h130mm, 4 kg
Packing Size & Gross Weight	320 × 300 × h180mm, 5 kg	320 × 300 × h180mm, 8 kg
Power Consumption	85 W	130 W
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

- * **“HT-50DX”Package-set** : Complete with ① Overhead Stirrer Unit ② **“PL020”** Stainless Steel Impeller (Rod ϕ 8 × L500mm, Blade ϕ 90mm)
③ **“CL200”** Clamp ④ **“ST120”** Wide Plate Stand (Rod ϕ 23 × L1,000mm, Plate w30 × d40cm)
- * **“HT-120DX”Package-set** : Complete with ① Overhead Stirrer Unit 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 w39 × up to 75cm)

With 40 Lit. Stirring Capa., 100.000 mPas, “HT-50DX” Package-set & Unit

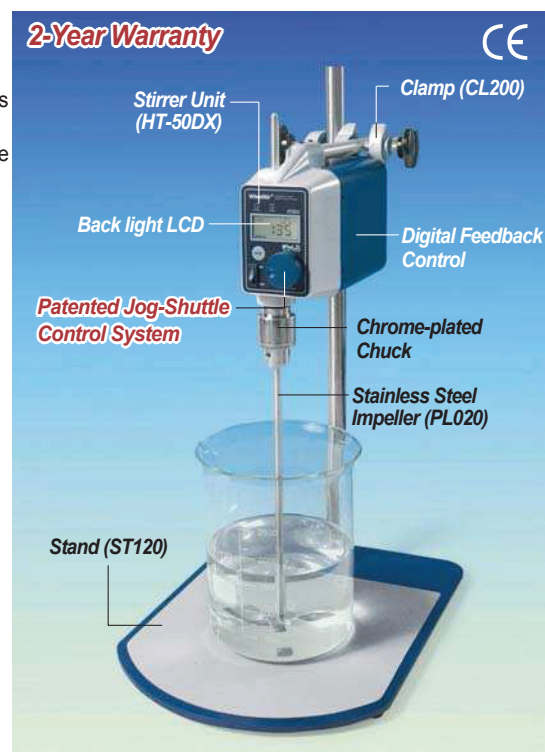
DH.WOS01052 High Torque-type Overhead Stirrer, **Package-set, 230V**
DH.WOS01051 , **Unit only, 230V**

With 60 Lit. Stirring Capa., 150.000 mPas, “HT-120DX” Package-set & Unit

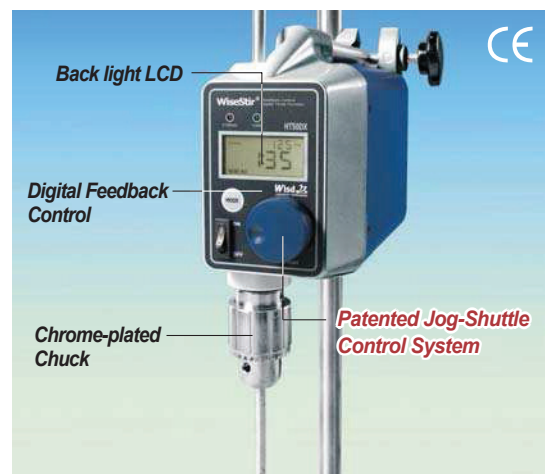
DH.WOS01072 High Torque-type Overhead Stirrer, **Package-set, 230V**
DH.WOS01071 , **Unit only, 230V**

※ You will find matching beakers in our general catalogue at following pages : 292

- ※ Refer to page 156, 157 for Accessory Specifications.
- ※ Refer to page 149 for Product Line & Selection Guide



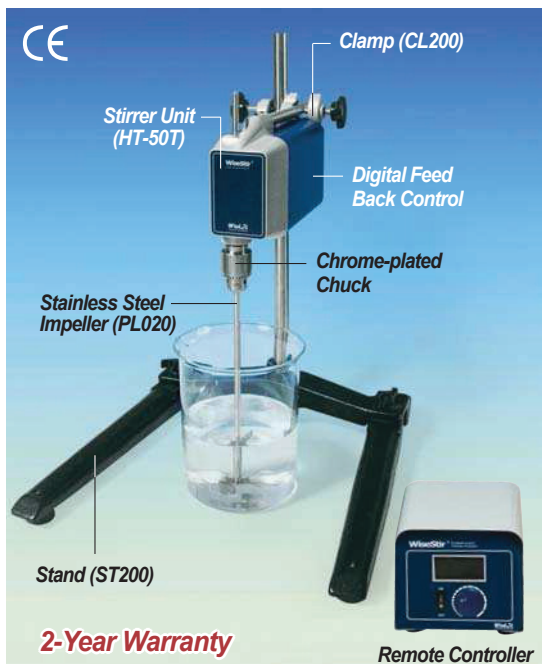
High-Torque Digital Overhead Stirrer, “HT-50DX” Package-set



High-Torque Digital Overhead Stirrer, “HT-120DX” Unit only

“witeg” **WiseStir® HT-T** High-Torque Digital Overhead Stirrer, with Remote Controller

with Remote Digital Feedback Controller, Steady & Constant Stirring Speed Against Viscosity, 50 ~ 1.000 rpm, to 150.000 mPas



2-Year Warranty
Digital High-Torque Overhead Stirrer with Remote Controller
“HT-50T-Set”

- Remote Digital Feedback Controller : Steady and Constant Stirring Speed against Viscosity Change of a Sample during Reaction
- Patented Jog-Shuttle Control System
- CE Certified

- * Food, Beverage, Dairy, Sugar & Candy Production
- * Ideal for Stirring Material of Viscosities Ranging from Light Watery Solutions to High-Viscosity Fluids
- * Digital LCD Display with Back-Light Function
- * Overload Protection and Over-Heat Protection Functions for Motor
- * High Torque Stirring by 3,5:1 Ratio Worm-gear 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-Gear 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 Display 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°C, 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 plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Weight of Remote Controller = 2.5kg

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



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

Ordering Information

- * “HT-50T”Package-set : Complete with ① Overhead Stirrer Unit with Remote Controller ② “PL020” Stainless Steel Impeller(Rod φ8×L500mm, Blade φ90mm) ③ “CL200” Clamp ④ “ST120” Wide Plate Stand(Rod φ23×L1.000mm, Plate w30×d40cm)
- * “HT-120T”Package-set : Complete with ① Overhead Stirrer Unit with Remote Controller ② “PL020” Stainless Steel Impeller(Rod φ8×L500mm, Blade φ90mm) ③ “CL200” Clamp ④ “ST200” Deluxe Safety Stand (Rod φ23×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
DH.WOS01065 , Unit only, 230V

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
DH.WOS01075 , Unit only, 230V

※ You will find matching beakers in our general catalogue at following pages : 292

※ Refer to page 156, 157 for Accessory Specifications.

※ Refer to page 149 for Product Line & Selection Guide

Cat. No	Description	Articles
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Standard Accessories for **WiseStir®** Overhead Stirrers

“witeg” Stirring Impeller for Overhead Stirrer, Stainless Steel #304

- **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-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-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
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(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

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
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(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

※ Please Note!

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



(1) Propeller-type 3 × Bladed



(2) Propeller-type 4 × Bladed



(3) Diamond-type 4 × Bladed



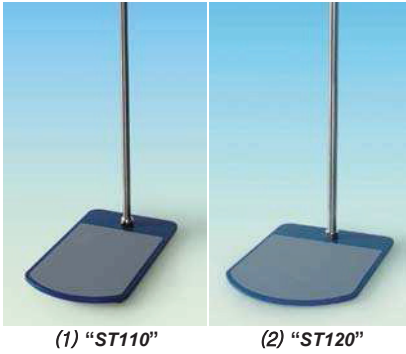
(4) Centrifugal-type 2 × Bladed



(5) Teflon Coated Centrifugal-type



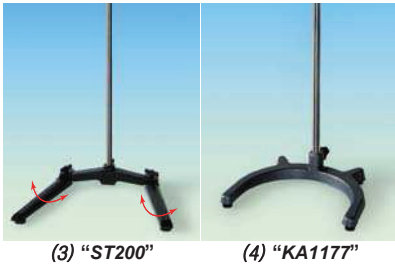
(6) Anchor-type 2 × Bladed



WiseStir® 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 \times h800 mm/1,5P Screw Rod, "RD 511",
 20 \times 35 cm Plate, with Silicone Pad
- DH.WOS501515 (2) Wide Plate Stand, "ST120", for Stirrer and Homogenizer
 ϕ 23 \times h1.000 mm/1,5P Screw Rod, Rod, "RD 522",
 30 \times 40 cm Plate, with Silicone Pad



WiseStir® Heavy Duty Safety Stand, High Safety, with Stainless Steel Rod ϕ 23 mm

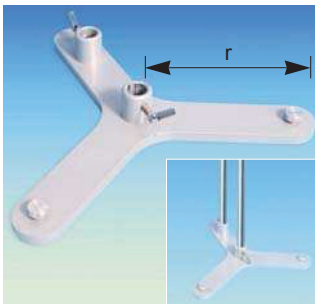
- Never Fall Down by Safety Mechanism.
- Provides Sturdy Support for Stirrers during Mixing Procedure
- Support Rod made of Stainless Steel specially designed
- Adjustable Foot Distance (ST200)
- High-Safety H-/U-type Stand with Support Rod

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



WiseStir® Universal Jumbo Clamp Holder, for Stand/Rod

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



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

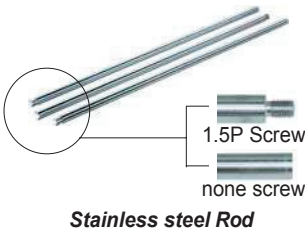
- US.2040 Stand, "US2040", r = 150 mm
 US.2041 , "US2041", r = 185 mm

Optional Stainless Steel Rod

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

Steel Retort Base Duo Stand

"witeg" WiseStir® 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 \times h800mm, non-screw
 DH.WOS502002 , "RD502", ϕ 16 \times h1000mm, non-screw
 DH.WOS502003 , "RD503", ϕ 16 \times h1200mm, non-screw
 DH.WOS502031 , "RD531", ϕ 23 \times h800mm, non-screw
 DH.WOS502033 , "RD533", ϕ 23 \times h1200mm, non-screw

1.5P Screw-type ϕ 16 & 23mm Rod

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

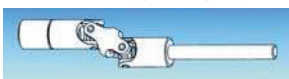


(6) Basic-type Coupling

"witeg" WiseStir® 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



(7) Heavy-duty Metal 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

Cat. No	Description
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Articles

“witeg” WiseStir® JT-M6 Digital Jar Tester, 6-Paddle Stirrer for Flocculation Test, 300 rpm with Programmable Digital Feedback Control, 6 Impellers, 6 Independent Light Source, up to 6 × 1 Lit. Beakers

- Ideal for Flocculation Testing in Water Treatment Laboratories
- 6 Independent Light Source for Each Stirring Point
- Geared DC Motor and Specially Designed Timing Belt Used
- CE Certified

- * Deciding on Coagulant Chemistries
- * Ideal for Flocculation Testing in Water Treatment Laboratories
- * 6 Independent Light Source for each Stirring Point
- * Digital Feedback Control using Microprocessor
- * Geared DC Motor and Specially Designed Timing Belt used
- * Stable and Accurate Stirring Speed by Feedback Control
- * Digital Display for RPM, Power Bar-Graph and Status
- * Digital LCD with Back-Light Function
- * Programmable Operation : 10 Step, 6 Programs
- * Overload Protection and Over-Heat Protection Functions for Motor
- * Storage Function for Set Values : RPM and Timer

Specification

Model	Shaft : $\phi 6 \times L400\text{mm}$ “JT-M6”	Shaft : $\phi 8 \times L400\text{mm}$ “JT-M6C”
6 × Paddler (Stainless steel Shaft)	$\phi 6 \times L400\text{mm}$	$\phi 8 \times L400\text{mm}$
	Straight Blade w75 × h25mm	
Stirring Capacity	6 × 1 Liter Beaker	
Motor	Geared DC Motor (10 : 1 ratio), 40W	
Speed	20~300 rpm	
Speed Accuracy	± 5 rpm	
Timer	99hr 59min 59sec (Programmable)	
Display	Digital LCD with Back-Light Function	
Controller	Programmable Digital Feedback Controller with Jog-Shuttle Switch (Turn + Push)	
Program Function	10 Steps, 6 Programs	
Florescent Lamp	20W × 6 (Independent Light Source for Each Sample)	
Dimension (w × d × h) (mm)	1.000 × 310 × 535	
Safety Device	Overload & Over Heat Protector for motor	
Others	CE Certified Storage Function (RPM, Timer)	
Packing Dimension (w × d × h) (mm)	1.120 × 430 × 740	
Gross Weight	69 kg	
Power Consumption	40 W	
Power plug type	Hybrid E+F	
Power Supply*	AC 230V, 1N~, 50/60Hz	

* Other Specifications are available upon Customer’s Request.

Ordering Information

with $\phi 6\text{mm} \times L400\text{mm}$ Shaft, 6 Impellers, “JT-M6”
 DH.WJT06010 Jar Tester, 230V, “JT-M6”, 300 rpm

with $\phi 8\text{mm} \times L400\text{mm}$ Shaft, 6 Impellers, “JT-M6C”
 DH.WJT06020 Jar Tester, 230V, “JT-M6C”, 300 rpm



2-Year Warranty

Jar Tester, $\phi 6 \times L400\text{mm}$ Shaft “JT-M6”



Timing Belt