

Cat. No	Description	Articles
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DAIHAN-brand® Digital Multi-point Magnetic Stirrers “MS-MP”, 4-/8-Points, Max. 500ml per Point with Digital Feedback Control System, Digital LCD Display, Synchronous Operation, 80~1,200 rpm, with Certi. & Traceability  
4-/8-멀티포인트 디지털 자력교반기, 디지털 피드백 컨트롤 시스템



(1) 4-Point Stirrer, Digital Multi-Point Magnetic Stirrer “MS-MP4”



(2) 8-Point Stirrer, Digital Multi-Point Magnetic Stirrer “MS-MP8”

- Made in Korea
- CE Certified
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Ideally Suitable for Use in Incubators and Climatic Chambers
- Excellent for Multi-use and wide range of Sample Testing
- Patented Jog-Shuttle Control System
- PL(Product Liability) Insurance

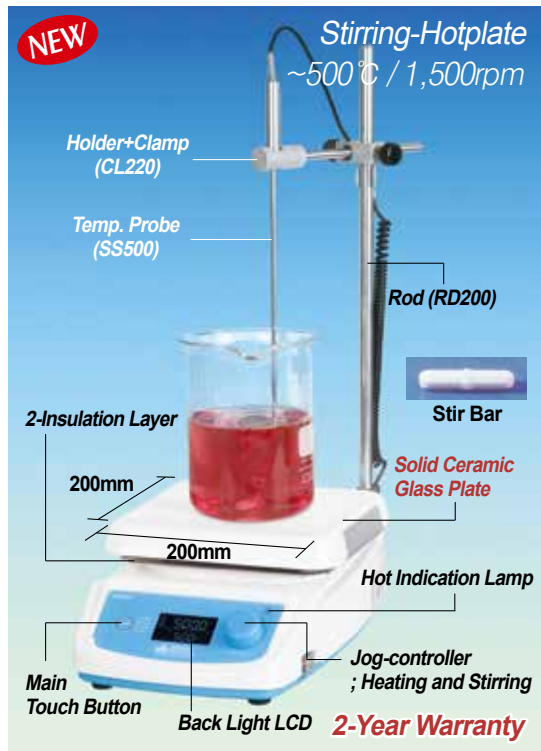
- \* Ideally Suitable for Use in Incubators and Climatic Chambers
- \* Excellent for Multi-use and wide range for Sample Testing
- \* Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
- \* Synchronous Operation of 4 / 8 Stirring Points
- \* Increased Effectiveness by Microprocessor Control
- \* Digital LCD 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

### Specifications & Ordering information

Spec.	Model	(1) “MS-MP4”	(2) “MS-MP8”
Number of Stirring Points		4 (2×2) Stirring Points	8 (4×2) Stirring Points
Plate Size (mm)		210×300	210×500
Stirring Capacity (H <sub>2</sub> 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 with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push)	
Stirring Bar		4ea 3cm bar-included, Usable : up to 3cm bar	8ea 3cm bar-included, Usable : up to 3cm bar
Permissible Ambient Temperature		Room Temp. +5 ~ 50℃	
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, PL(Product Liability) Insurance Storage Function (RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)	
Packing Size (w×d×h) (mm)		300×330×180	330×540×180
& Gross Weight		6 kg	
Power Consumption		20 W	
Electrical Reqts.		Free Voltage (1 Phase, AC 80 ~ 240 V, 50 / 60 Hz)	
Cat. No.	230V	DH.WMS03036	DH.WMS03038
	120V	DH.WMS02036	DH.WMS02038
Price, Each. ₩			

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

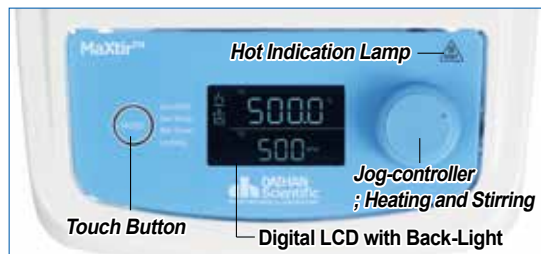
DAIHAN-brand® **New** 500°C Hi-Temp. Hotplate Stirrers “MaXtir™ MSH500”, Solid Ceramic Glass Plate, 200×200mm with Large LCD, Optimum Insulation Layer. Accurate Temp. Control, Touch-button Controller, Hot-Top Indicator, Max. 500°C, Accu. ±0.3°C 고온용 디지털 가열 자력 교반기, 최적의 방열구조, 디지털 피드백 온도 제어, 내열성/내화학성/내산성 솔리드 세라믹 글라스 플레이트 **NEW**



(a) “MaXtir™ MSH500” Package-set



(b) “MaXtir™ MSH500” Unit only



New Generation Controller of “MaXtir™ MSH500” model



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- Made in Korea
- PL(Product Liability) Insurance
- Ergonomic Design
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- High-quality Solid Ceramic Glass Plate : Heat-/Chemical-/Acid-Resistance and Easy to Clean
- Optimum Insulation Fourfold Layers : BTU + Ceramic Paper + 2×SUS Insulation Layers
- Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control, Minimization Noise
- Maximum Temperature of 500°C
- Microprocessor PID control
- Patented Controller “Jog-Dial” and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate with Back-Light Function
- 2×Internal K-type Temp. Sensor Operating Independently : 1×Temp. Control Sensor for Temperature Accuracy and 1×Over Temp. Detection Sensor for User Safety
- Hot Top Indicator LED Lamp : Hot Surface(Over 50°C) Warning Lamp for User Safety
- \* 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
- \* Minimization of Noise and Improved the Product Life
- \* Use of the Special Advanced Insulation for the safety of the Body Temp.
- \* Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)

### Specifications & Ordering information

Spec.		Model	(a) “MaXtir™ MSH500” (Package-set)	(b) “MaXtir™ MSH500” (Unit Only)
Material	Body	Powder Coated Aluminum		
	Plate	Solid Ceramic Glass Plate, 200×200mm		
Stirring Capa.		Max. 20 Lit.		
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm		
Temp. Range & Accuracy		Max. 500°C, ±0.3°C at Set Temperature		
Temp. Resolution		0.1 °C-Display, 0.5 °C-Control		
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less		
Heating Power / Consumption		850W		
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.		
Stirring Bar		3cm bar-included, Usable : up to 5cm bar		
Safety Circuit		Over Temp. Protection, Hot Top Indicator LED Lamp		
included Standard Acc.		Unit, *External Temp Probe-set, with 1ea Stir Bar	Unit with 1ea Stir Bar	
Permissible Temp. & RH %		Ambient +5 ~ 50°C, 85% RH		
Dimension & Weight		220×332×h114mm, 3.8kg		
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz, with Cord/Plug		
Cat. No.	230V	DH.WMH00500	DH.WMH01500	
	120V	DH.WMH00501	DH.WMH01501	
Price, Each. ₩				

\* Other Specifications are available upon Customer’s Request.

### Component of Package-set

- \* Package-set : ① Hotplate Unit ② “SS500” PT100 External / Direct Contact Temp. Probe, ③ “RD200” Stainless steel Support Rod φ 12 × L450mm ④ “CL220” Holder+Clamp for External Temp. Probe

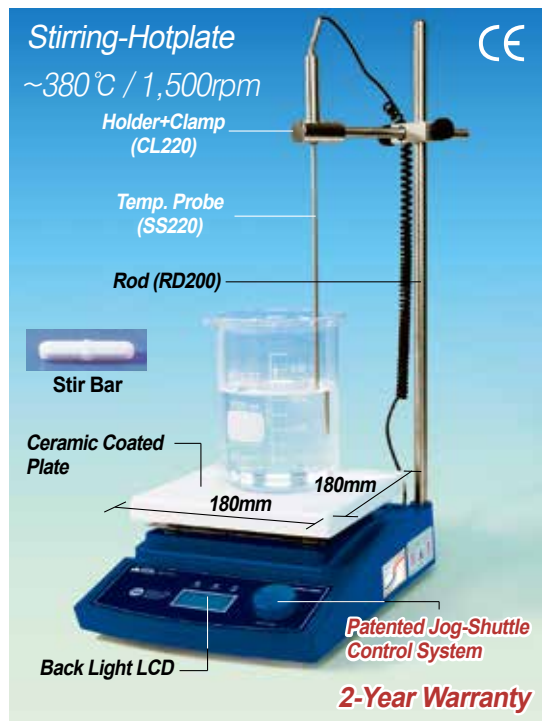
### Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

- DH.WHP503060 (1) Direct Contact Temp. Probe, “SS500”, “PT100”, Probe φ4×L250mm, Cable L190mm,  
 DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe, “SS510”, Probe φ4×L250mm, Cable L190mm,  
 DH.WHP503036 (3) Stand Rod, “RD200”, Stainless steel, φ 12 × L450mm, Screw, for “MaXtir™ HP500”, “MaXtir™ MSH500”  
 DH.WHP503012 (4) Holder/Clamp/Clip, “CL220”, for Temp. Probe

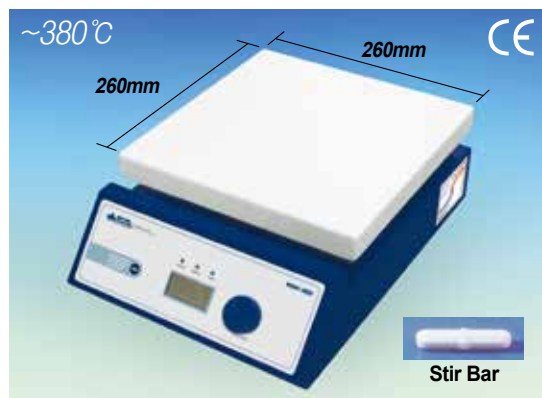
Ea. Price, ₩


Cat. No	Description	Articles
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**DAIHAN-brand® 380°C Digital Hotplate Stirrer “MSH-D”, Ceramic-Coated Plate, ±0.3°C, with Certi. & Traceability with Digital Feedback Control, Accurate Temp. Control, 180×180mm- or 260×260mm-Plate, 80 ~ 1,500 rpm**  
**디지털 가열 자력 교반기, 디지털 피드백 온도 제어, 우수한 온도균일성, 세라믹 코팅 플레이트**



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



**(b) 260×260mm Plate-type Digital Precise Hotplate “MSH-30D” Unit only**

- **Made in Korea**    ■ **CE Certified**    ■ **PL(Product Liability) Insurance**
- **with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System**
- **Digital Feedback Control by High-Performance Microprocessor**
- **Patented Jog-Shuttle Control System**
- \* User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±0.20°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

### Specifications & Ordering information

Spec.	Model	(a) “MSH-20D”	(b) “MSH-30D”
Plate Size(mm)		180×180mm Plate-type	260×260mm Plate-type
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	
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 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, 5kg	430×320×h200mm, 5kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

#### Unit Only

Cat. No.	230V	DH.WMH03020	DH.WMH03022
		120V	DH.WMH02020
Price, Each. ₩			

#### \* External Temp. Probe Package-set

Cat. No.	230V	DH.WMH03021	DH.WMH03023
		120V	DH.WMH02021
Price, Each. ₩			

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

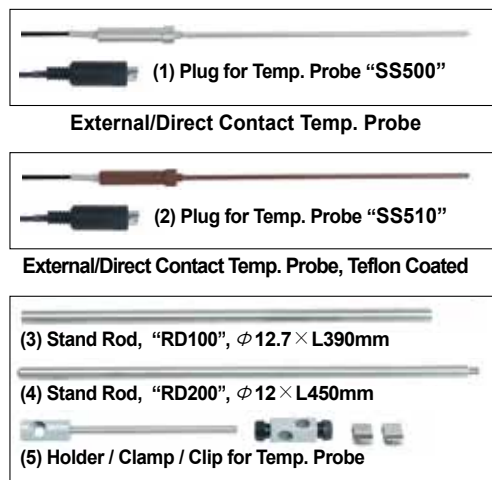
### Component of Package-set

- \* “MSH-20D” Package-set : Complete with ① Hotplate Unit ② : “SS500” PT100 External / Direct Contact Temp. Probe, ③ “RD200” Stainless steel Support Rod φ12×L450mm ④ “CL220” Holder+Clamp for External Temp. Probe
- \* “MSH-30D” Package-set : Complete with ① Hotplate Unit ② : “SS500” PT100 External / Direct Contact Temp. Probe, ③ “RD100” Stainless steel Support Rod φ12×L450mm ④ “CL220” Holder+Clamp for External Temp. Probe

### Optional External Temp Probes/Stand Rods/Holder, Clamp, Clip

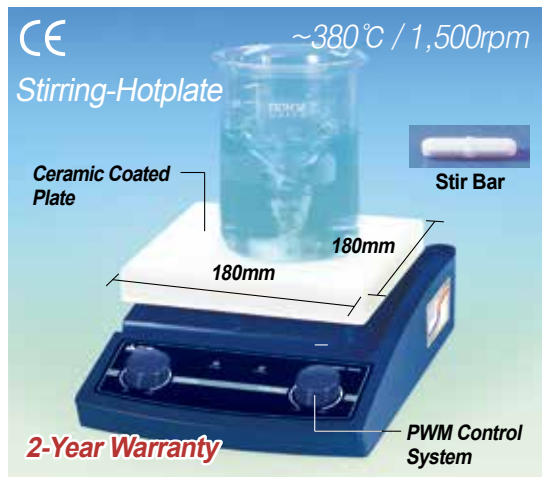
- DH.WHP503060** (1) Direct Contact Temp. Probe, “SS500”, “PT100”, Probe φ4×L250mm, Cable L190mm
- DH.WHP503061** (2) Direct Contact Teflon Coated Temp. Probe, “SS510”, Probe φ4×L250mm, Cable L190mm
- DH.WHP503011** (3) Stand Rod, “RD100”, Stainless steel, φ12.7×L450mm for “HP-30A/30D”, “MSH-30A/30D”, Non-screw
- DH.WHP503036** (4) Stand Rod, “RD200”, Stainless steel, φ12×L450mm for “HP-20A/20D”, “MSH-20A/20D”, “MSH-50A/55A”, “MSH-50D/55D” and “SMHS”, Screw
- DH.WHP503012** (5) Holder / Clamp / Clip, “CL220”, for Temp. Probe

Ea. Price, ₩





DAIHAN-brand® 380°C Analog Premium Hotplate Stirrer “MSH-A”, Ceramic-Coated Plate, 1,500 rpm, with Certi. & Traceability Built-in Linearity PWM Controller, Superior Temperature Uniformity, Precise Control of Temp. & RPM, 180×180mm or 260×260mm  
 아날로그 가열 자력 교반기, 우수한 온도균일성, 세라믹 코팅 플레이트



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



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

- Made in Korea
- CE Certified
- PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- 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
- \* 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

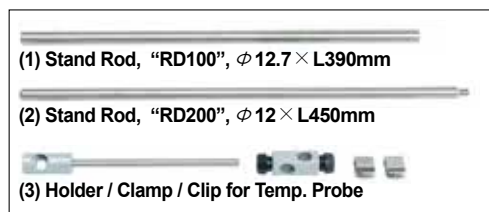
### Specifications & Ordering information

Spec.	Model	(a) “MSH-20A”	(b) “MSH-30A”
Plate Size		180×180mm Plate-type	260×260mm Plate-type
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, 5kg	430×320×h200mm, 5kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	DH.WMH03120	DH.WMH03121
	120V	DH.WMH02120	DH.WMH02121
Price, Each. ₩			

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

### Optional Stand Rod & Holder/Clamp

- | <p>DH.WHP503011 (1) Stand Rod, “RD100”, Stainless steel, Non-screw <math>\phi</math> 12.7×L390mm, for “HP-30A/30D”, “MSH-30A/30D”</p> <p>DH.WHP503036 (2) Stand Rod, “RD200”, Stainless steel, 1.5p screw, <math>\phi</math> 12×L450mm, for “HP-20A/20D”, “MSH-20A/20D”, “MSH-50A/55A”, “MSH-50D/55D” and “SMHS”</p> <p>DH.WHP503012 (3) Holder / Clamp / Clip, “CL220”, for Temp. Probe</p> | <table border="1"> <thead> <tr> <th>Ea. Price, ₩</th> </tr> </thead> <tbody> <tr> <td style="height: 100px;"> </td> </tr> </tbody> </table> | Ea. Price, ₩ |  |
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| Ea. Price, ₩   |   |              |  |
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### Specialized Features

#### High Stability in Very Low & High-Temperature

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

General analog control

PWM Control  
Use with DC !!  
(Super linearity)

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

#### Long Life Power & Mechanism!

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

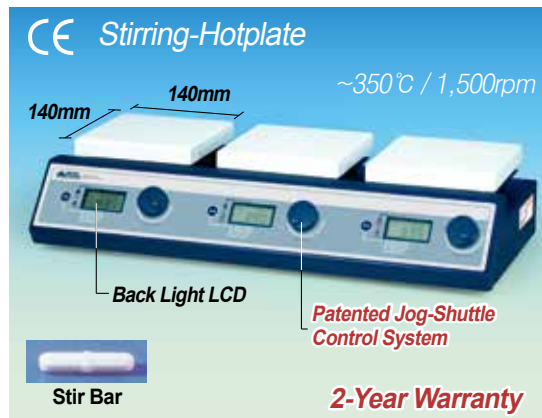
AC → Stable DC !!

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

Cat. No	Description	Articles
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DAIHAN-brand® 350°C Systematic Multi-Hotplate Stirrers “SMHS”, 3- or 6-Places, Ceramic-Coated Plates with Digital Feedback Control, Independent Heating & Stirring Control, up to 350°C, 80~1,500 rpm

멀티 가열 자력 교반기, 우수한 온도균일성, 3- or 6- 구 개별 조절 가능



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

- Made in Korea
- CE Certified
- PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceability Data Base System
- Excellent for Multi-use and wide range Sample Testing
- Patented Jog-Shuttle Control System
- \* 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 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

### Specifications & Ordering information

Spec.	Model	(a) “SMHS-3”	(b) “SMHS-6”
Plate-type		3×1 Plates-type	3×2 Plates-type
Material		Plate : Ceramic Coated Aluminum, Body : Powder Coated steel	
Plate Size(mm)		140×140	
Stirring Capa. & Motor Rating		Max. 20 Lit.(H <sub>2</sub> O), 9/4W×3	Max. 20 Lit.(H <sub>2</sub> 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.	
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 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 %		Room Temp. +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
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

Cat. No.	230V	DH.WMH03503	DH.WMH03506
	120V		DH.WMH02503

Price, Each. ₩

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

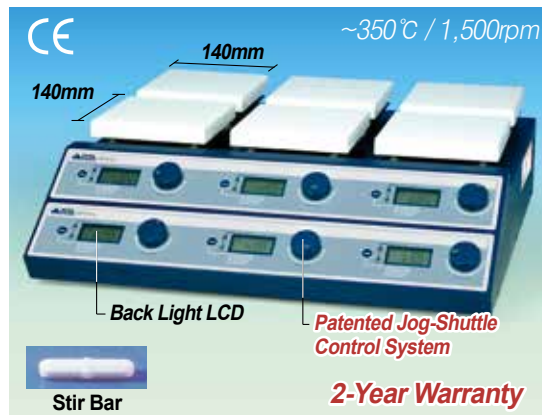
※ 3 Rear Hotplate Stirrer SMHS-6 have 3 Ports available to connect External Temp. Probe.

※ 운임 약 ₩ 9.000 별도!

### Optional External Temp Probes/Stand Rods/Holder, Clamp, Clip

- DH.WHP503060 (1) Direct Contact Temp. Probe, “SS500”, “PT100”, Probe  $\phi 4 \times L250$ mm, Cable L190mm
- DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe, “SS510”, Probe  $\phi 4 \times L250$ mm, Cable L190mm
- DH.WHP503036 (3) Stand Rod, “RD200”, Stainless-steel,  $\phi 12 \times L450$ mm 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

Ea. Price, ₩



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



## DAIHAN-brand® Overhead Stirrer Product Line / Selection Guide

Speed & Torque		High Speed						High Torque						
Control		Analog Model		Digital Model				Analog Model		Digital Model				
Controller-type		Integrated Controller		Integrated Controller		Remote Controller		Integrated Controller		Integrated Controller		Remote Controller		
Models		HS-50A	HS-120A	HS-30D	HS-100D	HS-30T	HS-100T	HT-50AX	HT-120AX	HT-50DX	HT-120DX	HT-50T	HT-120T	HT-140T
Max. Capacity(H <sub>2</sub> O)		10 Lit.	20 Lit.	10 Lit.	20 Lit.	10 Lit.	20 Lit.	40 Lit.	60 Lit.	40 Lit.	60 Lit.	50 Lit.	80 Lit.	100 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	160,000
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)	130/120W (1/6 hp)
Max. Torque(Ncm)		85	145	85	145	85	145	300	500	300	500	300	500	550
Impeller Dia.(mm)		8						10						
Speed Range (rpm)		200 ~ 3,000						50 ~ 1,000						
Motor Rating (In / Out)		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	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	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

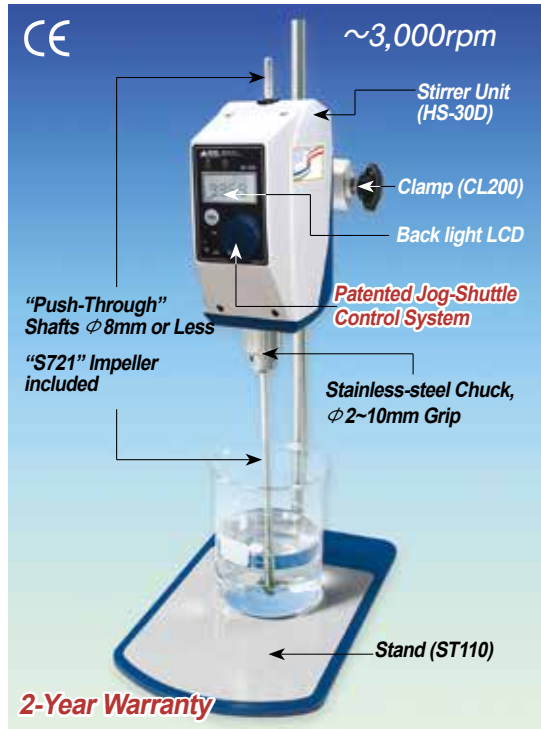
(Unit : mPas)

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 HT-140T
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-Speed Digital Overhead Stirrers “HS-D”, for Low-/Middle-Viscosity, Max. 10/20Lit, Max. 3,000rpm with “Push-Through” Shaft(φ 8mm or Less) and Chuck grip φ 3~10mm, Flex-Coupling φ 6~12mm, up to 50,000 mPas  
 디지털 고속 교반기, 저/중점도용, 사용교반봉 ; ①기본은 φ 3~10mm, ②관통은 φ 3~8mm, & ③별도의 Flex-Coupling 활용시 φ 6~12mm



Max. 10 Lit. (H<sub>2</sub>O) Hi-Speed Digital Overhead Stirrer “HS-30D-Set”

- Made in Korea ■ CE Certified ■ PL (Product Liability) Insurance
  - Ensure Minimize RPM Fluctuation : Very Stable Stirring Speed(RPM) Performance
  - with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
  - “Push-Through” Shafts(φ 8mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - “Adjustable Height of Shaft”
  - Ideal for Low-/Middle-Viscosity ■ Patented Jog-Shuttle Control System
- \* Smooth Start and Change of the Stirring Speed \* Stainless-steel Chuck : Grip φ 3~10mm

Specifications & Ordering information

Spec.	Models	(1) “HS-30D”	(2) “HS-100D”
Stirring Capacity		Max. 10 Lit. (H <sub>2</sub> O)	Max. 20 Lit. (H <sub>2</sub> O)
Maximum Viscosity / Torque		10,000 mPas / 85 Ncm	50,000 mPas / 145 Ncm
Speed Range & Resolution		200 ~ 3,000 rpm, 1 rpm-Display / 1 rpm-Control	
Motor / Safety		Device Direct Driven DC Motor / Overload & Heat Protector for 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	
Controller / Display		Digital Feedback Controller / Digital LCD with Back-Light Function	
Chuck Grip Capa. φ mm		dia φ 3~10mm Shafts	
“Push-Through” Shafts		dia φ 8mm or Less	
Permissible Temp. & Humidity		0 ~ 40°C, 80%	
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
Electrical Reqt.s.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

Stand Package-set

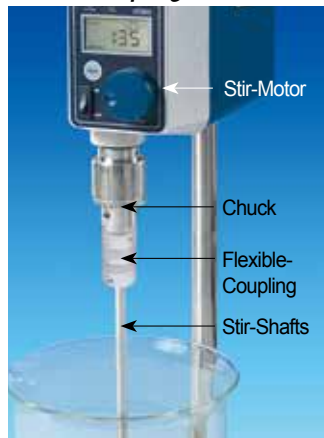
Cat. No.	230V	DH.WOS01016	DH.WOS01026
	120V	DH.WOS02016	DH.WOS02026
Price, Each. ₩			

Unit-only

Cat. No.	230V	DH.WOS01015	DH.WOS01025
	120V	DH.WOS02015	DH.WOS02025
Price, Each. ₩			

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

The Figure ;  
Use of Coupling



\* “HS-30D” Package-set : Complete with ① “HS-30D” Stirrer Unit, ② “S721” Stainless-steel Impeller (Rod φ 8 × L500mm, 3-Blade φ 50mm), ③ “CL200” Clamp, and ④ “ST110” Standard Plate Stand(Rod φ 16 × L800mm, Base w20 × d35cm)

\* “HS-100D” Package-set : Complete with ① “HS-100D” Stirrer Unit, ② “S723” Stainless-steel Impeller (Rod φ 8 × L650mm, 3-Blade φ 80mm), ③ “CL200” Clamp, and ④ “ST120” Wide Plate Stand(Rod φ 23 × L1,000mm, Base w30 × d40cm)

Flexible Couplings, for Safety Stirring of φ 6~12mm Shafts of Overhead Stirrers  
for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 커플링

■ Used to Compensate Any Vibrations Between The Motor and Stirring Shafts

(1) UTILITY High-Flex. Metal Coupling, with 2 × Flex-band, for φ 6~12mm Stir-Shafts  
Ideal for Low/High Viscosity and High/Low Speed

\* Made in Korea \* Shaft Fastening by Screw Clamp Band \* Made of DURALUMIN  
\* with Exchangeable STS Chucking Rod φ 8 & 10mm, L40mm

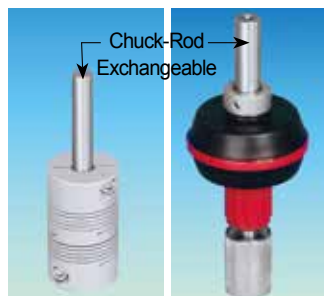
SL.StiC011	Stir-Coupling, Hi-flex, φ 8mm Chuck-rod , for-φ 6mm Stir-Shaft , 56g, φ 25 × h44mm	Ea.	Price, ₩
SL.StiC012	-φ 8mm Stir-Shaft , 53g, φ 25 × h44mm		
SL.StiC013	-φ 10mm Stir-Shaft, 49g, φ 25 × h44mm		
SL.StiC014	Stir-Coupling, Hi-flex, φ 10mm Chuck-rod, for-φ 8mm Stir-Shaft , 49g, φ 25 × h44mm		
SL.StiC015	-φ 10mm Stir-Shaft, 43g, φ 25 × h44mm		
SL.StiC016	-φ 12mm Stir-Shaft, 33g, φ 25 × h44mm		

(2) Very Flexible Rubber Based Coupling, for φ 7~10mm Shafts  
Especially, Ideal for GLASS Shafts and Low/Middle Viscosity & High Speed

\* Made in Germany \* Shaft Fastening by Screw Compression Rubber Ring Pad.  
\* with φ 10 × L40mm Exchangeable Stainless-steel Chucking Rod

WL.1445000 Stir-Coupling, Rubber Based, for φ 7~φ 10mm Shafts, 72.5g, Body φ 46 × h80mm

※ Note! Details of Wide-Range Couplings : See the “Stirrer Accessories”



(1) Hi-flex Metal ; (2) Rubber Based for φ 6~12 Shafts ; for φ 7~10 Shafts

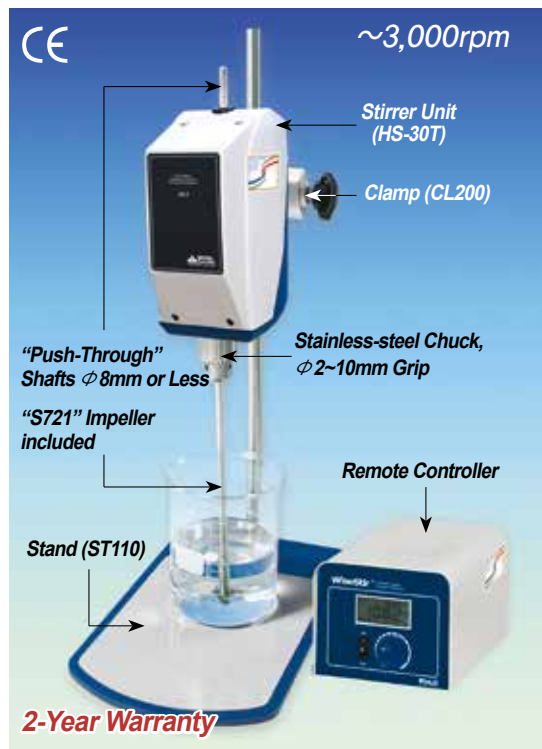
Ea.	Price, ₩

Ea.	Price, ₩



Cat. No	Description	Articles
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**DAIHAN-brand® Remote Controlled High-Speed Digital Overhead Stirrer “HS-T”, for Low-/Middle-Viscosity, Max. 3,000 rpm with “Push-Through” Shaft(φ 8mm or Less) and Chuck grip φ 3~10mm, Flex-Coupling φ 6~12mm, up to 50,000 mPas**  
 원격조절식 디지털 고속 교반기, 저/중점도용, 사용교반봉 ; ①기본은 φ 3~10mm, ②관통은 φ 3~8mm, & ③별도의 Flex-Coupling 활용시 φ 6~12mm



Max. 10 Lit. (H<sub>2</sub>O) Hi-Speed Digital Overhead Stirrer, with Remote Controller “HS-30T” Package-set

- Made in Korea ■ CE Certified ■ PL (Product Liability) Insurance
  - Ensure Minimize RPM Fluctuation : Very Stable Stirring Speed(RPM) Performance
  - with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
  - “Push-Through” Shafts(φ 8mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - “Adjustable Height of Shaft”
  - Ideal for Low-/Middle-Viscosity ■ Patented Jog-Shuttle Control System
- \* Smooth Start and Change of the Stirring Speed \* Stainless-steel Chuck : Grip φ 3~10mm

**Specifications & Ordering information**

Spec.	Model	(1) “HS-30T”	(2) “HS-100T”
<b>Stirring Capacity</b>		Max. 10 Lit. (H <sub>2</sub> O)	Max. 20 Lit. (H <sub>2</sub> O)
<b>Maximum Viscosity / Torque</b>		10,000 mPas / 85 Ncm	50,000 mPas / 145 Ncm
<b>Speed Range &amp; Motor</b>		200 ~ 3,000 rpm, Direct Driven DC Motor	
<b>Motor Rating (Input / Output)</b>		83 / 75 W, 1/10 HP	130 / 120 W, 1/6 HP
<b>Timer &amp; Alarm</b>		99hr 59min (with Continuous run.), Timer-end Alarm	
<b>Controller / Display</b>		Digital Feedback Controller / Digital LCD with Back-Light Function	
<b>Chuck Grip Capa. φ mm</b>		dia φ 3~10mm Shafts	
<b>“Push-Through” Shafts</b>		dia φ 8mm or Less	
<b>Permissible Temp. &amp; Humidity</b>		0 ~ 40 °C, 80%	
<b>Safety Device / Material</b>		Overload & Heat Protector for motor / ABS and Aluminum	
<b>Dimension &amp; Weight*</b>		90 × 100 × h180mm, 3 kg	90 × 100 × h180mm, 3.8 kg
<b>Packing Size &amp; Gross Weight</b>		580 × 340 × h230mm, 5 kg	580 × 340 × h230mm, 8 kg
<b>Power Consumption</b>		75 W	120 W
<b>Electrical Reqts.</b>		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

Stand Package-set			
Cat. No.	230V	DH.WOS01036	DH.WOS01046
	120V	DH.WOS02036	DH.WOS02046
Price, Each. ₩			
Unit & Remote Controller			
Cat. No.	230V	DH.WOS01035	DH.WOS01045
	120V	DH.WOS02035	DH.WOS02045
Price, Each. ₩			

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

The Figure :  
Use of Coupling



(1) Hi-flex Metal ; (2) Rubber Based for φ 6~12 Shafts ; for φ 7~10 Shafts

- \* “HS-30T” Package-set : Complete with ① “HS-30T” Stirrer Unit with Remote Controller, ② “S721” Stainless-steel Impeller(Rod φ 8 × L500mm, 3-Blade φ 50mm), ③ “CL200” Clamp, and ④ “ST110” Standard Plate Stand(Rod φ 16 × L800mm, Base w20 × d35cm)
- \* “HS-100T” Package-set : Complete with ① “HS-100T” Stirrer Unit with Remote Controller, ② “S723” Stainless-steel Impeller(Rod φ 8 × L650mm, 3-Blade φ 80mm), ③ “CL200” Clamp, and ④ “ST120” Wide Plate Stand(Rod φ 23 × L1,000mm, Base w30 × d40cm)

**Flexible Couplings, for Safety Stirring of φ 6~12mm Shafts of Overhead Stirrers for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 커플링**

■ Used to Compensate Any Vibrations Between The Motor and Stirring Shafts

**(1) UTILITY High-Flex. Metal Coupling, with 2 × Flex-band, for φ 6~12mm Stir-Shafts Ideal for Low/High Viscosity and High/Low Speed**

- \* Made in Korea \* Shaft Fastening by Screw Clamp Band \* Made of DURALUMIN
- \* with Exchangeable STS Chucking Rod φ 8 & 10mm, L40mm

	Ea.	Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, φ 8mm Chuck-rod , for-φ 6mm Stir-Shaft , 56g, φ 25 × h44mm	
SL.StiC012	-φ 8mm Stir-Shaft , 53g, φ 25 × h44mm	
SL.StiC013	-φ 10mm Stir-Shaft, 49g, φ 25 × h44mm	
SL.StiC014	Stir-Coupling, Hi-flex, φ 10mm Chuck-rod, for-φ 8mm Stir-Shaft , 49g, φ 25 × h44mm	
SL.StiC015	-φ 10mm Stir-Shaft, 43g, φ 25 × h44mm	
SL.StiC016	-φ 12mm Stir-Shaft, 33g, φ 25 × h44mm	

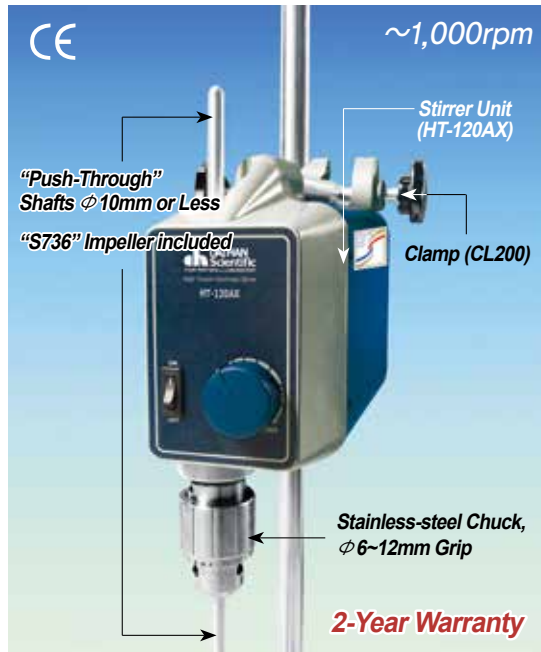
**(2) Very Flexible Rubber Based Coupling, for φ 7~10mm Shafts Especially, Ideal for GLASS Shafts and Low/Middle Viscosity & High Speed**

- \* Made in Germany \* Shaft Fastening by Screw Compression Rubber Ring Pad.
- \* with φ 10 × L40mm Exchangeable Stainless-steel Chucking Rod

	Ea.	Price, ₩
WI.1445000	Stir-Coupling, Rubber Based, for φ 7~φ 10mm Shafts, 72.5g, Body φ 46 × h80mm	

※ Note! Details of Wide-Range Couplings : See the “Stirrer Accessories”

DAIHAN-brand® High-Torque Analog Overhead Stirrer "HT-AX", for Middle-/High-Viscosity, Max.50-/80-Lit, Max.1,000rpm with "Push-Through" Shaft( $\phi$  10mm or Less) and Chuck grip 6~12mm, Flex-Coupling  $\phi$  6~16mm, 150,000 mPas  
 아날로그 중/고점도용 강력교반기, 사용교반봉; ①기본은  $\phi$  6~12mm, ②관통은  $\phi$  6~10mm, & ③별도의 Flex-Coupling 활용시  $\phi$  6~16mm



Max. 80 Lit. (H<sub>2</sub>O) Hi-Torque Analog Overhead Stirrer, "HT-120AX"

- Made in Korea
- CE Certified
- PL (Product Liability) Insurance
- Ensure Minimize RPM Fluctuation : Very Stable Stirring Speed (RPM) Performance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- 3.5:1 Ratio Worm-gear Motor
- "Push-Through" Shafts ( $\phi$  10mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - "Adjustable Height of Shaft"
- \* Ideal for Middle-/High-Viscosity
- \* Easy-to-use Dial for Speed Setting
- \* Smooth Start and Change of the Stirring Speed
- \* Stainless-steel Chuck : Grip  $\phi$  6~12mm

### Specifications & Ordering information

Spec.	Model	(1) "HT-50AX"	(2) "HT-120AX"
Stirring Capacity		Max. 50 Lit. (H <sub>2</sub> O)	Max. 80 Lit. (H <sub>2</sub> O)
Maximum Viscosity / Torque		100,000 mPas / 300 Ncm	150,000 mPas / 500 Ncm
Speed Range & Motor		0 ~ 1,000 rpm, Worm-Gear 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	
Chuck Grip Capa. $\phi$ mm		dia $\phi$ 6~12mm Shafts	
"Push-Through" Shafts		dia $\phi$ 10mm or Less	
Permissible Temp. & Humidity		0 ~ 40°C, 80%	
Safety Device / Material		Over Heat Protector for motor / 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
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

#### Stand Package-set

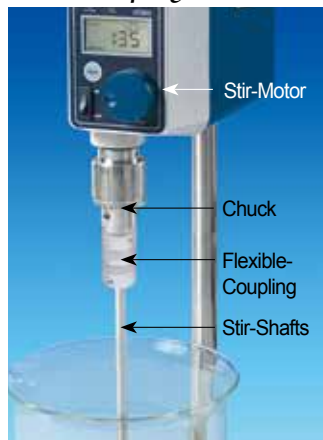
Cat. No.	230V	DH.WOS01252	DH.WOS01272
	120V	DH.WOS02252	DH.WOS02272
Price, Each. ₩			

#### Unit-only

Cat. No.	230V	DH.WOS01251	DH.WOS01271
	120V	DH.WOS02251	DH.WOS02271
Price, Each. ₩			

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

### The Figure ; Use of Coupling



- \* "HT-50AX" Package-set : Complete with ① "HT-50AX" Stirrer Unit, ② "S732" Stainless-steel Impeller (Rod  $\phi$  8 × L500mm, 4-Blade  $\phi$  70mm), ③ "CL200" Clamp, and ④ "KA1177" Safety Stand (Rod  $\phi$  23 × L800mm, Base w34 × d29cm)
- \* "HT-120AX" Package-set : Complete with ① "HT-120AX" Stirrer Unit, ② "S736" Stainless-steel Impeller (Rod  $\phi$  10 × L650mm, 4-Blade  $\phi$  90mm), ③ "CL200" Clamp, and ④ "KA1177" Safety Stand (Rod  $\phi$  23 × L800mm, Base w34 × d29cm)

### Flexible Couplings, for Safety Stirring of $\phi$ 6~16mm Shafts of Overhead Stirrers for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 커플링

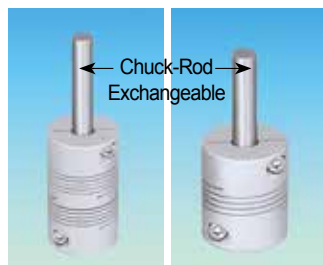
- Used to Compensate Any Vibrations Between The Motor and Stirring Shafts \* Shaft Fastening by Screw Clamp Band
- \* Made in Korea \* Made of DURALUMIN \* with Exchangeable STS Chucking Rod  $\phi$  8 / 10 / 12mm, L40mm

#### (1) UTILITY High-Flex. Metal Coupling, with 2 × Flex-band, for $\phi$ 6~16mm Stir-Shafts Ideal for Low/High Viscosity and High/Low Speed

SL.StiC011	Stir-Coupling, Hi-flex, $\phi$ 8mm Chuck-rod, for- $\phi$ 6mm Stir-Shaft, 56g, $\phi$ 25 × h44mm	Ea.	Price, ₩
SL.StiC012	- $\phi$ 8mm Stir-Shaft, 53g, $\phi$ 25 × h44mm		
SL.StiC013	- $\phi$ 10mm Stir-Shaft, 49g, $\phi$ 25 × h44mm		
SL.StiC014	Stir-Coupling, Hi-flex, $\phi$ 10mm Chuck-rod, for- $\phi$ 8mm Stir-Shaft, 49g, $\phi$ 25 × h44mm		
SL.StiC015	- $\phi$ 10mm Stir-Shaft, 43g, $\phi$ 25 × h44mm		
SL.StiC016	- $\phi$ 12mm Stir-Shaft, 33g, $\phi$ 25 × h44mm		
SL.StiC017	Stir-Coupling, Hi-flex, $\phi$ 12mm Chuck-rod, for- $\phi$ 10mm Stir-Shaft, 33g, $\phi$ 25 × h44mm		
SL.StiC018	- $\phi$ 12mm Stir-Shaft, 123g, $\phi$ 32 × h60mm		
SL.StiC019	- $\phi$ 14mm Stir-Shaft, 120g, $\phi$ 32 × h60mm		
SL.StiC020	- $\phi$ 16mm Stir-Shaft, 118g, $\phi$ 32 × h60mm		

#### (2) Heavy-duty Metal Coupling, with Short Flex-band, for $\phi$ 10~16mm Stir-Shafts Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed

SL.StiC023	Stir-Coupling, Low-flex, $\phi$ 10mm Chuck rod, for- $\phi$ 10mm Stir-Shafts., 45g, $\phi$ 25 × h30	Ea.	Price, ₩
SL.StiC024	- $\phi$ 12mm Stir-Shafts., $\phi$ 25 × h30		
SL.StiC025	Stir-Coupling, Low-flex, $\phi$ 12mm Chuck rod, for- $\phi$ 12mm Stir-Shafts., 105g, $\phi$ 32 × h38		
SL.StiC026	- $\phi$ 14mm Stir-Shafts., $\phi$ 32 × h38		
SL.StiC027	- $\phi$ 16mm Stir-Shafts., $\phi$ 32 × h38		

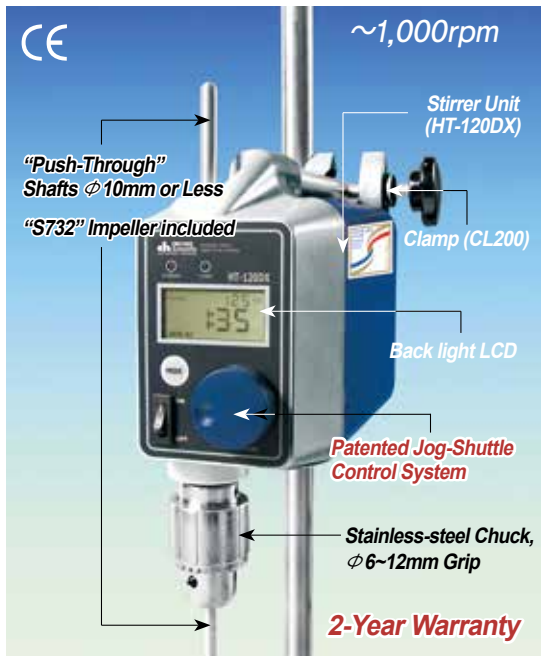


(1) Hi-flex Metal ; (2) Heavy-duty Metal for  $\phi$  6~16 Shafts; for  $\phi$  10~16 Shafts

※ Details of Wide-Range Couplings : See the "Stirrer Accessories"

Cat. No	Description	Articles
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DAIHAN-brand® High-Torque Digital Overhead Stirrer “HT-DX”, for Middle-/High-Viscosity, Max.50-/80-Lit, Max.1,000rpm with “Push-Through” Shaft(φ 10mm or Less) and Chuck grip 6~12mm, Flex-Coupling φ 6~16mm, 150,000 mPas  
 디지털 중/고점도용 강력교반기, 사용교반용 ; ①기본은 φ 6~12mm, ②관통은 φ 6~10mm, & ③별도의 Flex-Coupling 활용시 φ 6~16mm



Max. 80 Lit. (H<sub>2</sub>O) Hi-Torque Digital Overhead Stirrer, “HT-120DX” Package-set

- Made in Korea
- CE Certified
- PL(Product Liability) Insurance
- Ensure Minimize RPM Fluctuation : Very Stable Stirring Speed(RPM) Performance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- 3.5:1 Ratio Worm-gear Motor
- “Push-Through” Shafts(φ 10mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - “Adjustable Height of Shaft”
- Patented Jog-Shuttle Control System
- \* Ideal for Middle-/High-Viscosity

Specifications & Ordering information

Spec.	Model	(1) “HT-50DX”	(2) “HT-120DX”
Stirring Capacity		Max. 50 Lit. (H <sub>2</sub> O)	Max. 80 Lit. (H <sub>2</sub> O)
Maximum Viscosity / Torque		100,000 mPas / 300 Ncm	150,000 mPas / 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	
Controller / Display		Digital Feedback Controller / Digital LCD with Back-Light Function	
Chuck Grip Capa. φ mm		dia φ 6~12mm Shafts	
“Push-Through” Shafts		dia φ 10mm or Less	
Permissible Temp. & Humidity		0 ~ 40℃, 80%	
Safety Device / Material		Overload & Heat Protector for Motor / 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
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	



HT-120DX

- \* “HT-50DX” Package-set : Complete with ① “HT-50DX” Stirrer Unit, ② “S732” Stainless-steel Impeller (Rod φ 8×L500mm, 4-Blade φ 70mm), ③ “CL200” Clamp, and ④ “ST120” Wide Plate Stand (Rod φ 23×L1000mm, Base w30×d40cm)
- \* “HT-120DX” Package-set : Complete with ① “HT-120DX” Stirrer Unit, ② “S736” Stainless-steel Impeller (Rod φ 10×L650mm, 4-Blade φ 90mm), ③ “CL200” Clamp, and ④ “ST200” Deluxe Safety Stand (Rod φ 23×L1200mm, Base w39×up to 75cm)

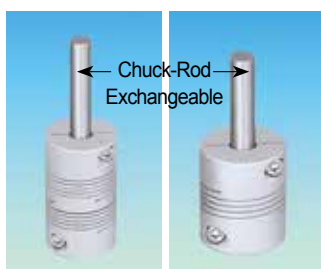
Stand Package-set			
Cat. No.	230V	DH.WOS01052	DH.WOS01072
	120V	DH.WOS02052	DH.WOS02072
Price, Each. ₩			
Unit-only			
Cat. No.	230V	DH.WOS01051	DH.WOS01071
	120V	DH.WOS02051	DH.WOS02071
Price, Each. ₩			

Flexible Couplings, for Safety Stirring of φ 6~16mm Shafts of Overhead Stirrers for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 커플링

- Used to Compensate Any Vibrations Between The Motor and Stirring Shafts
- \* Shaft Fastening by Screw Clamp Band
- \* Made in Korea
- \* Made of DURALUMIN
- \* with Exchangeable STS Chucking Rod φ 8 / 10 / 12mm, L40mm

(1) UTILITY High-Flex. Metal Coupling, with 2× Flex-band, for φ 6~16mm Stir-Shafts  
 Ideal for Low/High Viscosity and High/Low Speed

	Ea.	Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, φ 8mm Chuck-rod , for-φ 6mm Stir-Shaft , 56g , φ 25×h44mm	
SL.StiC012	-φ 8mm Stir-Shaft , 53g , φ 25×h44mm	
SL.StiC013	-φ 10mm Stir-Shaft, 49g , φ 25×h44mm	
SL.StiC014	Stir-Coupling, Hi-flex, φ 10mm Chuck-rod, for-φ 8mm Stir-Shaft , 49g , φ 25×h44mm	
SL.StiC015	-φ 10mm Stir-Shaft, 43g , φ 25×h44mm	
SL.StiC016	-φ 12mm Stir-Shaft, 33g , φ 25×h44mm	
SL.StiC017	Stir-Coupling, Hi-flex, φ 12mm Chuck-rod, for-φ 10mm Stir-Shaft, 33g , φ 25×h44mm	
SL.StiC018	-φ 12mm Stir-Shaft, 123g, φ 32×h60mm	
SL.StiC019	-φ 14mm Stir-Shaft, 120g, φ 32×h60mm	
SL.StiC020	-φ 16mm Stir-Shaft, 118g, φ 32×h60mm	



(1) Hi-flex Metal ; (2) Heavy-duty Metal for φ 6~16 Shafts ; for φ 10~16 Shafts

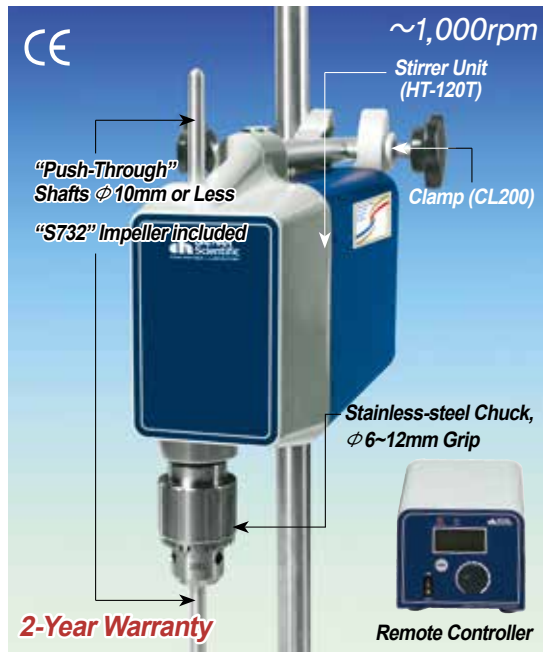
(2) Heavy-duty Metal Coupling, with Short Flex-band, for φ 10~16mm Stir-Shafts  
 Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed

	Ea.	Price, ₩
SL.StiC023	Stir-Coupling, Low-flex, φ 10mm Chuck rod, for-φ 10mm Stir-Shafts., 45g , φ 25×h30	
SL.StiC024	-φ 12mm Stir-Shafts., , φ 25×h30	
SL.StiC025	Stir-Coupling, Low-flex, φ 12mm Chuck rod, for-φ 12mm Stir-Shafts., 105g, φ 32×h38	
SL.StiC026	-φ 14mm Stir-Shafts., , φ 32×h38	
SL.StiC027	-φ 16mm Stir-Shafts., , φ 32×h38	

※ Details of Wide-Range Couplings : See the “Stirrer Accessories”



DAIHAN-brand® Remote Control Hi-Torque Digital Overhead Stirrer “HT-T”, for Middle-/High-Viscosity, Max.50-/80-/100-Lit with “Push-Through” Shaft(φ 10mm or Less) and Chuck grip 6~12mm, Flex-Coupling φ 6~16mm, 160,000 mPas, Max.1,000rpm  
원격조절식 디지털 중/고점도용 강력교반기, 사용교반봉 : ①기본은 φ 6~12mm, ②관통은 φ 6~10mm, & ③별도의 Flex-Coupling 활용시 φ 8~16mm



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



“HT-140T” Digital High-Torque Overhead Stirrer, (included Stirring Speed Remote Controller and Temp. Display) with Modular Reactor System

- Made in Korea      ■ CE Certified      ■ PL(Product Liability) Insurance
- Ensure Minimize RPM Fluctuation : Very Stable Stirring Speed(RPM) Performance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System      ■ 3.5:1 Ratio Worm-gear Motor
- “Push-Through” Shafts(φ 10mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - “Adjustable Height of Shaft”
- Patented Jog-Shuttle Control System      \* Ideal for Middle-/High-Viscosity
- Included Remote-type Digital Feedback Controller :
  - “HT-50T”, “HT-120T” model : Included Stirring-speed Remote Controller
  - “HT-140T” model : Ideal for Reaction System.
 Included Stirring-speed Control and Temperature Display Remote Controller for Reactor Module.  
(Can be Controlled Stirring Speed and Temperature Display of vessel)

Specifications & Ordering information

Spec.	Model	“HT-50T”	“HT-120T”	“HT-140T”
Stirring Capacity(H <sub>2</sub> O)		Max. 50 Lit.	Max. 80 Lit.	Max. 100 Lit.
Maximum Viscosity / Torque		100,000 mPas / 300 Ncm	150,000 mPas / 500 Ncm	160,000 mPas / 550 Ncm
Speed Range & Motor		50 ~ 1,000 rpm Worm-Gear Motor(3.5:1 Ratio)		50 ~ 800 rpm
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		
Controller / Display		Digital Feedback Remote Controller / Digital LCD with Back-Light Function		
		Stirring Speed Remote Controller		Stirring Speed & Temp. Display Remote Controller
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	
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		

Stand Package-set

Cat. No.	230V	DH.WOS01066	DH.WOS01076	-
	120V	DH.WOS02066	DH.WOS02076	-
Price, Each. ₩				-

Unit & Remote Controller

Cat. No.	230V	DH.WOS01065	DH.WOS01075	DH.WOS01085
	120V	DH.WOS02065	DH.WOS02075	DH.WOS02085
Price, Each. ₩				

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

\* “HT-50T” Package-set : Complete with ① “HT-50T” Stirrer Unit with Remote Controller ② “S732” Stainless-steel Impeller (Rod φ 8 × L500mm, 4-Blade φ 70mm) ③ “CL200” Clamp, and ④ “ST120” Wide Plate Stand(Rod φ 23 × L1000mm, Base w30 × d40cm)

\* “HT-120T” Package-set : Complete with ① “HT-120T” Stirrer Unit with Remote Controller ② “S736” Stainless-steel Impeller (Rod φ 10 × L650mm, 4-Blade φ 90mm) ③ “CL200” Clamp, and ④ “ST200” Deluxe Safety Stand (Rod φ 23 × L1,200mm, Base 39 × up to 75cm)

※ Details of Wide-Range Couplings : See the “Stirrer Accessories”

Cat. No	Description	Articles
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**DAIHAN-brand® Digital Jar Tester “JT-M6C”, 6-Paddle Stirrer for Flocculation Test, 300 rpm, with Certi. & Traceability with Programmable Digital Feedback Control, 6 Impellers, 6 Independent Light Source, up to 6 × 1Lit. Beakers**  
**프로그램/디지털 자 테스터, 정밀 직류 기어드 모터와 특화된 타이밍벨트, 디지털 피드백 컨트롤**



Jar Tester, φ8×L400mm Shaft “JT-M6C”

- Made in Korea    ■ CE Certified    ■ PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Ideal for Flocculation Testing in Water Treatment Laboratories
- 6 Independent Light Source for Each Stirring Point

- \* Deciding on Coagulant Chemistries    \* Digital Display for RPM, Power Bar-Graph and Status
- \* Digital Feedback Control using Microprocessor : Stable and Accurate Stirring Speed
- \* Geared DC Motor and Specially Designed Timing Belt used
- \* Stable and Accurate Stirring Speed by Feedback Control
- \* Digital LCD with Back-Light Function    \* Programmable Operation : 10 Steps, 6 Programs

**Specifications & Ordering information**

Spec.	Model	“JT-M6C”
<b>6×Paddler (Stainless steel Shaft)</b>		φ8×L400mm
		Straight Blade w75×h25mm
<b>Stirring Capacity</b>		6×1 Liter Beaker
<b>Motor &amp; Power</b>		Geared DC Motor with Timing Belt (10:1 ratio), 40W
<b>Speed &amp; Accuracy</b>		20~300 rpm, ±5 rpm
<b>Timer</b>		99hr 59min 59sec (Programmable)
<b>Display</b>		Digital LCD with Back-Light for RPM, Power Bar-Graph and Status
<b>Controller</b>		Programmable Digital Feedback Controller with Jog-Shuttle Switch (Turn + Push)
<b>Program Function</b>		10 Steps, 6 Programs, and Storage for Set Values : RPM and Timer
<b>Florescent Lamp</b>		20W×6 (Independent Light Source for Each Sample)
<b>Dimension (w×d×h) (mm)</b>		1,000×310×535
<b>Safety Device</b>		Overload & Over Heat Protector for motor
<b>Others</b>		CE Certified, PL(Product Liability) Insurance and Storage Function (RPM, Timer)
<b>Packing and Gross Weight</b>		1,120×430×h740mm, 69 kg
<b>Electrical Reqts.</b>		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz



Geared DC Motor with Special Timing Belt

<b>Cat. No.</b>	230V	DH.WJT06020
<b>Price, Each. ₩</b>	120V	DH.WJT06021

※ 운임 약 ₩ 18,000 별도!

**Stirrers, Accessories**



**SciLab® DURAN glass Stirring Rods, with Round Ends, φ7 ~ φ10, L200 ~ 650mm**  
**Borosilicate Glass α 3.3, 글라스핸디 교반봉, 끝부분이 둥근모양, 굽힘방지**

- Made of DURAN® Glass Rod : by SciLab Korea.    \* Rounded Ends for Extra Safety    \* Non-Scratching

(1) L200~350mm Length

SL.StiS	Product Description	Ea. Price, ₩
SL.StiS201	Glass Rod, φ7, L200mm	
SL.StiS202	, L250mm	
SL.StiS203	, L300mm	
SL.StiS204	Glass Rod, φ8, L300mm	
SL.StiS205	, L350mm	

(2) L400~650mm Length

SL.StiS	Product Description	Ea. Price, ₩
SL.StiS206	Glass Rod, φ8, L400mm	
SL.StiS207	, L500mm	
SL.StiS208	Glass Rod, φ10, L450mm	
SL.StiS209	, L500mm	
SL.StiS210	, L650mm	



Glass Double-ended Stirring Rods

**SciLab® DURAN glass Double-ended Stirring Rods, φ6 ~ φ10mm, L200 ~ L500mm**  
**Useful for Crushing Clumped Powder and Solids, Borosilicate Glass α 3.3**

- Made of DURAN® Borosilicate Glass 3.3 Rod : by SciLab Korea.

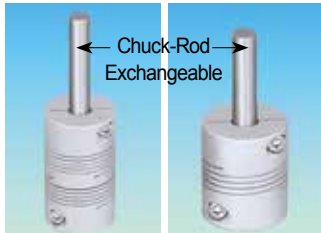
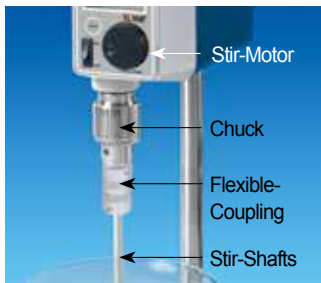
- \* With Rounded Button and Paddle Ends for Extra Safety and to Minimize Scratching
- \* Button End is Useful for Crushing Clumped Powder and Solids

(1) L200~300mm Length

SL.StiS	Product Description	Ea. Price, ₩
SL.StiS211	2-end Rod, φ6, L200mm	
SL.StiS212	, L250mm	
SL.StiS213	, L300mm	
SL.StiS214	2-end Rod, φ9, L300mm	

(2) L350~500mm Length

SL.StiS	Product Description	Ea. Price, ₩
SL.StiS215	2-end Rod, φ 9, L350mm	
SL.StiS216	, L400mm	
SL.StiS217	2-end Rod, φ10, L450mm	
SL.StiS218	, L500mm	



(1) Hi-flex Metal for  $\phi 6\sim 16$  Shafts ; (2) Heavy-duty Metal for  $\phi 10\sim 16$  Shafts



(3) Rubber Based for  $\phi 7\sim 10$  Shafts

**Flexible Couplings, for Safety Stirring of  $\phi 6\sim 16$ mm Shafts of Overhead Stirrers for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 커플링**

■ **Used to Compensate Any Vibrations Between The Motor and Stirring Shafts**

\* Made in Korea \* Shaft Fastening by Screw Clamp Band \* Made of DURALUMIN  
\* with Exchangeable STS Chucking Rod  $\phi 8 / 10 / 12$ mm, L40mm

**(1) UTILITY High-Flex. Metal Coupling, with 2  $\times$  Flex-band, for  $\phi 6\sim 16$ mm Stir-Shafts  
Ideal for Low/High Viscosity and High/Low Speed**

		Ea.	Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, $\phi 8$ mm Chuck-rod, for- $\phi 6$ mm Stir-Shaft, 56g, $\phi 25 \times h44$ mm		
SL.StiC012	- $\phi 8$ mm Stir-Shaft, 53g, $\phi 25 \times h44$ mm		
SL.StiC013	- $\phi 10$ mm Stir-Shaft, 49g, $\phi 25 \times h44$ mm		
SL.StiC014	Stir-Coupling, Hi-flex, $\phi 10$ mm Chuck-rod, for- $\phi 8$ mm Stir-Shaft, 49g, $\phi 25 \times h44$ mm		
SL.StiC015	- $\phi 10$ mm Stir-Shaft, 43g, $\phi 25 \times h44$ mm		
SL.StiC016	- $\phi 12$ mm Stir-Shaft, 33g, $\phi 25 \times h44$ mm		
SL.StiC017	Stir-Coupling, Hi-flex, $\phi 12$ mm Chuck-rod, for- $\phi 10$ mm Stir-Shaft, 33g, $\phi 25 \times h44$ mm		
SL.StiC018	- $\phi 12$ mm Stir-Shaft, 123g, $\phi 32 \times h60$ mm		
SL.StiC019	- $\phi 14$ mm Stir-Shaft, 120g, $\phi 32 \times h60$ mm		
SL.StiC020	- $\phi 16$ mm Stir-Shaft, 118g, $\phi 32 \times h60$ mm		

**(2) Heavy-duty Metal Coupling, with Short Flex-band, for  $\phi 10\sim 16$ mm Stir-Shafts  
Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed**

		Ea.	Price, ₩
SL.StiC023	Stir-Coupling, Low-flex, $\phi 10$ mm Chuck rod, for- $\phi 10$ mm Stir-Shafts., 45g, $\phi 25 \times h30$		
SL.StiC024	- $\phi 12$ mm Stir-Shafts., $\phi 25 \times h30$		
SL.StiC025	Stir-Coupling, Low-flex, $\phi 12$ mm Chuck rod, for- $\phi 12$ mm Stir-Shafts., 105g, $\phi 32 \times h38$		
SL.StiC026	- $\phi 14$ mm Stir-Shafts., $\phi 32 \times h38$		
SL.StiC027	- $\phi 16$ mm Stir-Shafts., $\phi 32 \times h38$		

**(3) Very Flexible Rubber Based Coupling, for  $\phi 7\sim 10$ mm Shafts  
Especially, Ideal for GLASS Shafts and Low/Middle Viscosity & High Speed**

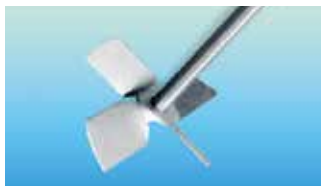
\* Made in Germany \* Shaft Fastening by Screw Compression Rubber Ring Pad.  
\* with  $\phi 10 \times L40$ mm Exchangeable Stainless-steel Chucking Rod

		Ea.	Price, ₩
WL.1445000	Stir-Coupling, Rubber Based, for $\phi 7\sim \phi 10$ mm Shafts, 72.5g, Body $\phi 46 \times h80$ mm		

**SciLab® Stainless-steel Stirring Shafts, for Lab & Industrial Overhead Stirrers, Rod  $\phi 8\sim 12 \times L500\sim 1000$ mm  
Ideal for Universal-use of Wide-range Speed & Viscosity, 스텐레스 교반봉 / 임펠러**



(1) 3-bladed Propeller-type Universal-use



(2) 4-bladed Propeller-type Standard-model

■ **Made in Korea** ■ **Made of Rustless Stainless-steel #304**  
■ **Recommended to use with Flexible Coupling for Gentle Stirring & Safety Working**  
■ **The Rod may be Cut to Any Length with a Hacksaw**  
■ **Good Finished : Surface & Stirring Center**

**(1) 3-bladed Propeller-type, ideal for Universal-use in Middle/High Speed  
with Rod  $\phi 8\sim 12 \times L500\sim 1000$ , Rotor  $\phi 50\sim 140$  mm, and Good for Low/Middle Viscosity**

\* Designed for Efficient Flow : mixed from Top to Bottom of Vessel  
\* Minimum Shearing

		Ea.	Price, ₩
SL.StiS721	Stir-Shaft, "S721", #304, Rod- $\phi 8 \times L500$ , Rotor- $\phi 50 \times h15$ mm		
SL.StiS722	, "S722", $\phi 8 \times L500$ , $\phi 60 \times h15$ mm		
SL.StiS723	, "S723", $\phi 8 \times L650$ , $\phi 80 \times h20$ mm		
SL.StiS724	, "S724", $\phi 8 \times L650$ , $\phi 100 \times h24$ mm		
SL.StiS726	Stir-Shaft, "S726", #304, Rod- $\phi 10 \times L500$ , Rotor- $\phi 60 \times h15$ mm		
SL.StiS727	, "S727", $\phi 10 \times L650$ , $\phi 80 \times h20$ mm		
SL.StiS728	, "S728", $\phi 10 \times L800$ , $\phi 100 \times h24$ mm		
SL.StiS729	Stir-Shaft, "S729", #304, Rod- $\phi 12 \times L1000$ , Rotor- $\phi 140 \times h30$ mm		

**(2) Standard 4-bladed Propeller-type, ideal for Low/Middle Speed & Viscosity  
Popular-model, with Rod  $\phi 8\sim 12 \times L500\sim 1000$ , Rotor  $\phi 50\sim 140$  mm, 45° Angled**

		Ea.	Price, ₩
SL.StiS731	Stir-Shaft, "S731", #304, Rod- $\phi 8 \times L500$ , Rotor- $\phi 50 \times h20$ mm		
SL.StiS732	, "S732", $\phi 8 \times L500$ , $\phi 70 \times h25$ mm		
SL.StiS733	, "S733", $\phi 8 \times L650$ , $\phi 90 \times h35$ mm		
SL.StiS734	, "S734", $\phi 8 \times L650$ , $\phi 110 \times h35$ mm		
SL.StiS736	Stir-Shaft, "S736", #304, Rod- $\phi 10 \times L650$ , Rotor- $\phi 90 \times h35$ mm		
SL.StiS737	, "S737", $\phi 10 \times L800$ , $\phi 110 \times h40$ mm		
SL.StiS738	, "S738", $\phi 10 \times L1000$ , $\phi 110 \times h40$ mm		
SL.StiS739	Stir-Shaft, "S739", #304, Rod- $\phi 12 \times L1000$ , Rotor- $\phi 140 \times h40$ mm		



Cat. No	Description	Articles
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<Continued From...SciLab® Stainless-steel Stirring Shafts>

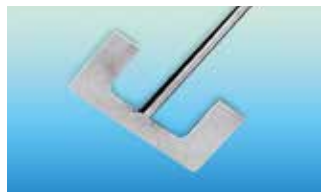


(3) 4-bladed Dissolver Diamond-type

(3) 4-bladed Dissolver Diamond-type, Good for Particle Reduction in Middle/High Speed with Rod  $\phi$  8 & 10  $\times$  L500~650, Rotor  $\phi$  70~110 mm, and Good for Low/Middle Viscosity

SL.StiS741	Stir-Shaft, "S741", #304, Rod- $\phi$ 8 $\times$ L500, Rotor- $\phi$ 70 $\times$ h20mm
SL.StiS742	, "S742", - $\phi$ 8 $\times$ L500, - $\phi$ 90 $\times$ h25mm
SL.StiS743	, "S743", - $\phi$ 8 $\times$ L650, - $\phi$ 110 $\times$ h25mm
SL.StiS744	Stir-Shaft, "S744", #304, Rod- $\phi$ 10 $\times$ L650, Rotor- $\phi$ 110 $\times$ h25mm

Ea. Price, ₩



(4) Heavy-duty Anchor-type

(4) Heavy-duty Anchor-type, ideal for Middle/High Viscosity, Rod  $\phi$  8~12mm Good for Low/Middle Speed, Rotor  $\phi$  70~180 mm

SL.StiS751	Stir-Shaft, "S751", #304, Rod- $\phi$ 8 $\times$ L500, Rotor- $\phi$ 70 $\times$ h14mm
SL.StiS752	, "S752", - $\phi$ 8 $\times$ L650, - $\phi$ 90 $\times$ h16mm
SL.StiS753	Stir-Shaft, "S753", #304, Rod- $\phi$ 10 $\times$ L650, Rotor- $\phi$ 90 $\times$ h16mm
SL.StiS754	, "S754", - $\phi$ 10 $\times$ L800, - $\phi$ 140 $\times$ h25mm
SL.StiS755	, "S755", - $\phi$ 10 $\times$ L1000, - $\phi$ 160 $\times$ h30mm
SL.StiS757	Stir-Shaft, "S757", #304, Rod- $\phi$ 12 $\times$ L1000, Rotor- $\phi$ 180 $\times$ h30mm

Ea. Price, ₩



(5) Heavy-duty Helical Ribbon-type

(5) Heavy-duty Helical Ribbon-type, ideal for Middle/High Viscosity and Lab~Industry with Rod  $\phi$  8~12mm, L500~1000, Rotor  $\phi$  60~190mm, Good for Reaction-system. **NEW**

- \* Patented Helical Ribbon High Efficient Mixing Performance
- \* Generates Axial Flow.
- \* Designed for Middle / High Viscosity. High Flow Rate and Efficient Mixing.
- \* For Homogeneous Mixing and Medium is Conveyed from the Bottom upwards.

SL.Sti761	Stir-Shaft, "S761", #304, Rod- $\phi$ 8 $\times$ L500, Rotor- $\phi$ 60 $\times$ h70mm
SL.Sti762	, "S762", - $\phi$ 8 $\times$ L650, - $\phi$ 80 $\times$ h90mm
SL.Sti763	Stir-Shaft, "S763", #304, Rod- $\phi$ 10 $\times$ L650, Rotor- $\phi$ 115 $\times$ h130mm
SL.Sti764	, "S764", - $\phi$ 10 $\times$ L800, - $\phi$ 125 $\times$ h165mm
SL.Sti765	, "S765", - $\phi$ 10 $\times$ L1000, - $\phi$ 160 $\times$ h215mm
SL.Sti766	Stir-Shaft, "S766", #304, Rod- $\phi$ 12 $\times$ L1100, Rotor- $\phi$ 190 $\times$ h400mm

Ea. Price, ₩

SciLab® PTFE Stirring Shafts, with Stainless-steel Insert, for Lab & Industrial Overhead Stirrers, Rod  $\phi$  8~14  $\times$  L500~1100mm Ideal for PURE Working & Universal-use of Wide-range Speed & Viscosity, Chemically Inert, -200°C +280°C-stable, PTFE 교반봉/임펠러

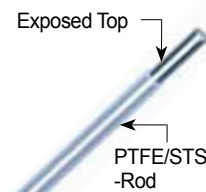
■ Made in Korea ■ Recommended to Use with a Flexible Coupling for Gentle Stirring & Safety Working.

- The PTFE Rod with Stainless Steel Insert : (1) OD  $\phi$  8mm with  $\phi$  6mm Steel Insert-" $\phi$  8/6", (2) OD  $\phi$  10mm with  $\phi$  8mm Steel Insert-" $\phi$  10/8", (3) OD  $\phi$  12mm with  $\phi$  10mm Steel Insert-" $\phi$  12/10", and OD  $\phi$  14mm with  $\phi$  12mm Steel Insert-" $\phi$  14/12".

■ Rod may be Cut to Any Length with a Hacksaw.

■ Ideal for PURE-Working / Chemically Inert / Non-Contaminating /Thermally Stable, -200°C +280°C-stable.

■ Exposed Top Rod 4~5cm (Stainless steel Core) : For Strong Clamping in the Stir-Chuck or Flexible Coupling. ⇒



(1) 2-bladed Centrifugal-type Good for Narrow-Neck <ex>  $\text{㉔}24/-$  &  $\text{㉔}34/-$  Joint neck

(1) 2-bladed Centrifugal-type, ideal for  $\text{㉔}24/-$  &  $\text{㉔}34/-$  Joints(Narrow) Necks & Low Viscosity with Rod  $\phi$  8 & 10  $\times$  L500~650, Rotor  $\phi$  50~100 mm, and Good for Middle/High Speed

SL.StiS403	Stir-Shaft, PTFE, Rod- $\phi$ 8/6 $\times$ L500, Swingrotor- $\phi$ 50 $\times$ h14mm, fit to $\text{㉔}24/-$ joints
SL.StiS404	- $\phi$ 8/6 $\times$ L500, - $\phi$ 70 $\times$ h17mm, fit to $\text{㉔}24/-$ joints
SL.StiS405	- $\phi$ 8/6 $\times$ L650, - $\phi$ 100 $\times$ h24mm, fit to $\text{㉔}34/-$ joints
SL.StiS406	Stir-Shaft, PTFE, Rod- $\phi$ 10/8 $\times$ L650, Swingrotor- $\phi$ 100 $\times$ h24mm, fit to $\text{㉔}34/-$ joints

Ea. Price, ₩



(2) Standard 4-bladed Propeller-type

(2) Standard 4-bladed Propeller-type, ideal for Low/Middle Speed and High Viscosity Good for Reactors, with Rod  $\phi$  8~14  $\times$  L500~1100 and Rotor  $\phi$  50~140 mm, 45° Angled

\* Standard Stirring Shafts. \* Designed for Efficient Mixing : from Top to Bottom of Vessel

SL.StiS410	Stir-Shaft, PTFE, Rod- $\phi$ 8/6 $\times$ L500, Rotor- $\phi$ 50 $\times$ h20mm
SL.StiS411	- $\phi$ 8/6 $\times$ L500, - $\phi$ 70 $\times$ h25mm
SL.StiS412	- $\phi$ 8/6 $\times$ L650, - $\phi$ 70 $\times$ h25mm
SL.StiS413	Stir-Shaft, PTFE, Rod- $\phi$ 10/8 $\times$ L650, Rotor- $\phi$ 90 $\times$ h35mm, Good for 5~10 Lit Vessels
SL.StiS414	- $\phi$ 10/8 $\times$ L800, - $\phi$ 90 $\times$ h35mm, Good for 10~20 Lit Vessels
SL.StiS415	- $\phi$ 10/8 $\times$ L1000, - $\phi$ 90 $\times$ h35mm, Good for 20~50 Lit Vessels
SL.StiS416.1	Stir-Shaft, PTFE, Rod- $\phi$ 12/10 $\times$ L800, Rotor- $\phi$ 110 $\times$ h40mm, Good for 10~20 Lit Vessels
SL.StiS416.2	- $\phi$ 12/10 $\times$ L1000, - $\phi$ 110 $\times$ h40mm, Good for 30~50Lit Vessels
SL.StiS416.3	- $\phi$ 12/10 $\times$ L1000, - $\phi$ 140 $\times$ h40mm, Good for 30~80Lit Vessels <b>New</b>
SL.StiS417	Stir-Shaft, PTFE, Rod- $\phi$ 14/12 $\times$ L1100, Exchangeable Rotor- $\phi$ 140 $\times$ h40mm, Good for 50~100Lit Reactors

Ea. Price, ₩

<Continued From...SciLab® PTFE Stirring Shafts>



(3) with 2-Rotors, Propeller-type

(3) with 2-Exchangeable Rotors of 4-bladed Propeller-type, for 20~100Lit Reaction Vessels  
Ideal for High Viscosity/ Large Volume Stirring, with Rod  $\phi$  12 & 14  $\times$  L 800~1100 mm

\* Translucent PFA Shaft with Stainless-steel Insert, Totally Chemical Inert

		Ea. Price, ₩
SL.StiS416.4	Stir-Shaft, PTFE, for 20~30Lit, Rod- $\phi$ 12/10 $\times$ L800, 2-Rotors of (1) Exchangeable <b>New</b> 1st Rotor $\phi$ 110 $\times$ h40 and (2) Bottom Rotor $\phi$ 110 $\times$ h40mm	
SL.StiS418	Stir-Shaft, PTFE, for 30~80Lit, Rod- $\phi$ 12/10 $\times$ L1000, 2-Rotors of (1) Exchangeable 1st Rotor $\phi$ 110 $\times$ h40 and (2) Bottom Rotor $\phi$ 140 $\times$ h40mm	
SL.StiS419	Stir-Shaft, PTFE, for 50~100Lit, Rod- $\phi$ 14/12 $\times$ L1100, 2-Rotors of (1) Exchangeable 1st Rotor $\phi$ 140 $\times$ h40 and (2) Bottom Rotor $\phi$ 140 $\times$ h40mm	



(4) Heavy-duty Anchor-type

(4) Heavy-duty Anchor-type, ideal for Middle/High Viscosity, Rod  $\phi$  8~12mm  
Good for Low/Middle Speed, Rotor  $\phi$  80~140 mm ■ **Made in UK.**

		Ea. Price, ₩
CW.005.340.82	Shaft, $\phi$ 8 $\times$ L400mm Rod, $\phi$ 80mm Anchor	
CW.005.350.82	, $\phi$ 8 $\times$ L500mm Rod, $\phi$ 80mm Anchor	
CW.005.355.2	, $\phi$ 10 $\times$ L550mm Rod, $\phi$ 100mm Anchor	
CW.005.0365.102	, Ex-type, $\phi$ 10 $\times$ L650mm Rod, $\phi$ 140mm Anchor	
CW.005.0375.102	, $\phi$ 10 $\times$ L750mm Rod, $\phi$ 140mm Anchor	
CW.005.0375.122	, $\phi$ 12 $\times$ L750mm Rod, $\phi$ 140mm Anchor	
CW.005.03100.122	, $\phi$ 12 $\times$ L1000mm Rod, $\phi$ 140mm Anchor	



(1) Glass-shafts



(2) PTFE-shafts

**GLASS and PTFE/Steel Cored Shafts and PTFE Blades, Exchangeable**  
Ideal for  $\text{ㄱ}24/-$  &  $\text{ㄱ}34/-$ Joint (Narrow) Necks, 교체형 글라스 & PTFE 교반봉과 임펠러

\* Glass Shafts : DURAN Borosilicate Glass 3.3 Rod  $\phi$  8 & 10mm : Made in Korea

\* PTFE Encapsulated Stainless-steel Shafts  $\phi$  8 & 12mm, -200 $^{\circ}$ C +280 $^{\circ}$ C Stable : Made in U.K.

(1) GLASS-Shafts,  $\phi$  8/10, L400~600mm

		Ea. Price, ₩			Ea. Price, ₩
SL.StiS260	Glass-Shaft, $\phi$ 8, L400mm		SL.StiS265	Glass-Shaft, $\phi$ 10, L400mm	
SL.StiS261	, L500mm		SL.StiS266	, L500mm	
SL.StiS262	, L600mm		SL.StiS267	, L600mm	

(2) Cowie® PTFE/Steel Cored Shafts,  $\phi$  8 & 12mm, L400~750mm, without Blade

\* The Rod may by Cut to Any Length with a Hacksaw

		Ea. Price, ₩			Ea. Price, ₩
CW.005.540.81	Shaft, PTFE, $\phi$ 8 $\times$ L400mm		CW.005.565.1	Shaft, PTFE, $\phi$ 10 $\times$ L650mm	
CW.005.550.81	, $\phi$ 8 $\times$ L500mm		CW.005.0575.101	, $\phi$ 10 $\times$ L750mm	
CW.005.555.1	, $\phi$ 10 $\times$ L550mm		CW.005.0575.121	, $\phi$ 12 $\times$ L750mm	



(3) PTFE Blade, with  $\phi$  6.5 Connect-hole

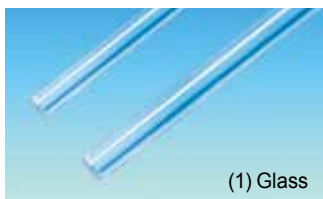
(3) Cowie® PTFE Stir-Blades, Thick-3.2mm, Ideal for  $\text{ㄱ}24/-$  &  $\text{ㄱ}34/-$ Joint Necks

① with Square End, Fit to  $\text{ㄱ}24/-$ Joints

		Ea. Price, ₩
CW.002.052.1	Blade, Squ. 52 $\times$ h14mm	
CW.002.076.1	. 76 $\times$ h19mm	
CW.002.090.1	. 90 $\times$ h28mm	

② with Plain End, Fit to  $\text{ㄱ}34/-$ Joints

		Ea. Price, ₩
CW.002.1065.1	Blade, Pla. 65 $\times$ h25mm	
CW.002.1075.1	. 75 $\times$ h25mm	
CW.002.1105.1	. 105 $\times$ h25mm	
CW.002.1125.1	. 125 $\times$ h25mm	
CW.002.1150.1	. 150 $\times$ h25mm	



(1) Glass

**Glass & PFA (Stainless-steel Insert) PLAIN Shafts, for Exchangeable Rotors**  
for Exchangeable Rotors, 글라스 및 스텐심 PFA 교반봉

■ **Made in Korea**

(1) DURAN® Glass Shaft, Round Ends, Boro. Glass 3.3,  $\phi$  8 & 10, L400~650mm

\* Good for Eco-Pure Work

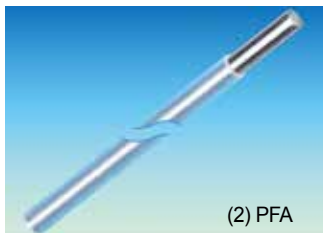
		Ea. Price, ₩			Ea. Price, ₩
SL.StiS206	Glass Shaft, $\phi$ 8 $\times$ L400mm		SL.StiS208	Glass Shaft, $\phi$ 10 $\times$ L450mm	
SL.StiS207	, $\phi$ 8 $\times$ L500mm		SL.StiS209	, $\phi$ 10 $\times$ L550mm	
			SL.StiS210	, $\phi$ 10 $\times$ L650mm	

(2) PFA with Stainless-steel Insert Shafts,  $\phi$  8~14 $\times$ L500~1100mm

\* The Rod may by Cut to Any Length with a Hacksaw

\* Translucent PFA, Totally Chemical Inert, -200 $^{\circ}$ C +260 $^{\circ}$ C

		Ea. Price, ₩			Ea. Price, ₩
SL.StiS451	Shaft, PFA, $\phi$ 8/6 $\times$ L500mm		SL.StiS455	Shaft, PFA, $\phi$ 10/8 $\times$ L800mm	
SL.StiS452	, $\phi$ 8/6 $\times$ L650mm		SL.StiS456	, $\phi$ 12/10 $\times$ L800mm	
SL.StiS453	, $\phi$ 8/6 $\times$ L800mm		SL.StiS457	, $\phi$ 12/10 $\times$ L1000mm	
SL.StiS454	, $\phi$ 10/8 $\times$ L650mm		SL.StiS458	, $\phi$ 14/12 $\times$ L1100mm	



(2) PFA

Cat. No	Description	Articles
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(1) "Screw Propeller" only  
φ50 ~ φ140mm

### All PTFE Adjustable / Exchangeable Rotors, for Shaft φ8~16mm for Shaft φ8~16mm, PTFE 교체형/조절식 교반 임펠러

■ The Exchangeable Rotors fit to φ8~16mm Rods and Lock in place with Screw Nut

(1) SciLab® Exchangeable "Screw Propeller" Rotor, 45° Angled 4 Blade

\* Made in Korea

SL.StiS461	Rotor, PTFE, for Shaft-φ8, Rotor-φ50×h20mm
SL.StiS462	-φ70×h25mm
SL.StiS463	, for Shaft-φ10, Rotor-φ70×h25mm
SL.StiS464	-φ90×h35mm
SL.StiS465	, for Shaft-φ12, Rotor-φ110×h40mm
SL.StiS466	, for Shaft-φ14, Rotor-φ140×h40mm

Ea.	Price, ₩
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(2) "Turbine" Rotor Only  
φ50 ~ φ150mm

(2) Cowie® Exchangeable "Turbine" Rotor only, φ50~150mm

\* Made in UK.

CW.005.90850	PTFE Turbine, for Shaft-φ8mm, Rotor-φ50mm
CW.005.90875	-φ75mm
CW.005.91075	, for Shaft-φ10mm, Rotor-φ75mm
CW.005.910100	-φ100mm
CW.005.912100	, for Shaft-φ12mm, Rotor-φ100mm
CW.005.916150	, for Shaft-φ16mm, Rotor-φ150mm

Ea.	Price, ₩
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(1) (2) (3) (4)

### Kartell® PP & PVC Plastic Stirring Shafts, PP-Blade, PVC-Rod with Steel Core, Rod φ8×L350mm Good for Acid & Chemicals resistance, PP & PVC 플라스틱 교반봉/임펠러

■ Supplied by Kartell® in Italy

■ Ideal for Acids, Chemicals and Anti-corrosion

■ Material : PP-Blade, PVC-Rod with Steel Core: φ8×L350 mm

KA.428	(1) Stirring Paddle, with 2 fixed blade (w39×h15 mm), Rod φ8×L350mm
KA.430	(2) , "U" shaped blade (w65×h78 mm), Rod φ8×L350mm
KA.431	(3) , with 2 flexible paddle (Swing w57 mm), Rod φ8×L350mm
KA.432	(4) , with 2 flexible paddle (Swing w98 mm), Rod φ8×L350mm

Ea.	Price, ₩
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(1) "ST110"

(2) "ST120"

### DAIHAN-brand® Premium Plate Stand, High Quality with Stainless-steel Rod φ16/23mm

■ Made in Korea ■ High-Quality Plate-type Stand with Support Rod

■ Wide and Thick Steel Plate for Safety Mechanism ■ Silicon Rubber Pad adhered

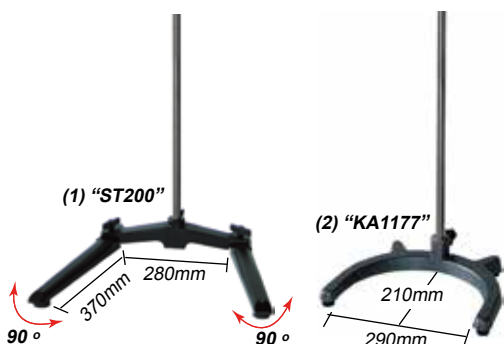
■ with 1.5P Screwed Support Rod made of Stainless-steel specially designed

DH.WOS501510	(1) "ST110" Standard Steel Plate Stand, Powder Coated, with Base Plate/Silicone Pad, for Stirrer and Homogenizer, Base Plate w20×35cm "RD 511" 1.5P Screw Rod, φ16×h800 mm
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Ea.	Price, ₩
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DH.WOS501515	(2) "ST120" Wide Steel Plate Stand, Powder Coated, with Base Plate/Silicone Pad, for Stirrer and Homogenizer, Base Plate w30×40 cm "RD 522" 1.5P Screw Rod, φ23×h1000 mm
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Ea.	Price, ₩
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(1) "ST200"

(2) "KA1177"

### DAIHAN-brand® Heavy Duty Safety Stand, High Safety with Stainless-steel Rod φ23mm

■ Made in Korea

■ Never Fall Down by Safety Mechanism.

■ High-Safety H-/U-type Stand with Stainless-steel Support Rod

■ Adjustable Foot Distance (ST200)

(1) Adjustable Foot Distance Deluxe Safety Stand

DH.WOS501520	Deluxe Safety Stand, "ST200", H-type Base w39~75cm adjust, Rod φ23×h1200mm
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Ea.	Price, ₩
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(2) U-type Safety Stand

DH.WOS1177	Safety Stand, "KA1177", U-type Base w34/29×27/21cm, Rod φ23×h800mm
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Ea.	Price, ₩
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Clamp "CL200"

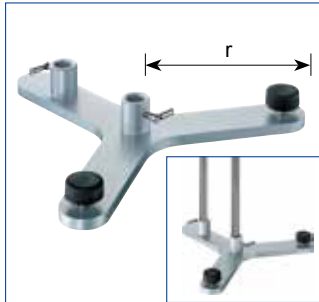
**SciLab-brand® Universal Jumbo Clamp Holder, for Stand/Rod**

■ **Made in Korea**

- \* Cast-Aluminium
- \* Ideal for Reactor Flame

**SL.Cla8011** Clamp Holder, "CL200", Cast Aluminum, Grip Capacity,  $\phi$  23mm for Stand/Rod

Ea.	Price, ₩
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Steel Retort Base Duo Stand

**Steel Retort Base Duo Stand, for 2 x Plain Rods of up to  $\phi$  16mm, without Rods with Hinged Set Screw M6, Nonskid Feet equipped, 2 x Level Screw Nut, and Base Thick-8mm**

■ **Made in Germany**

- \* Can Fix Rods up to 2ea (Below  $\phi$  16mm)

Retort Stand Base only

**US.2040** Stand Base only, "US2040",  $r = 150$  mm

**US.2041** , "US2041",  $r = 185$  mm

Ea.	Price, ₩
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Optional Stainless-steel Rod of  $\phi$  16mm, without Screw

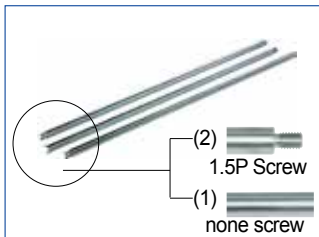
**DH.WOS502001** Stainless-steel Rod, "RD501",  $\phi 16 \times h800$ mm, non-screw

**DH.WOS502002** , "RD502",  $\phi 16 \times h1000$ mm, non-screw

**DH.WOS502003** , "RD503",  $\phi 16 \times h1200$ mm, non-screw

Ea.	Price, ₩
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**DAIHAN-brand®  $\phi$  16 & 23mm High-Quality Stainless-steel (#304) Rods, for Stand Bases**



Stainless-steel Rods  
With or Without 1.5P Screw

(1) Plain-type  $\phi$  16mm Rod, without Screw

**DH.WOS502001** Stainless-steel Rod, "RD501",  $\phi 16 \times h800$ mm, non-screw

**DH.WOS502002** , "RD502",  $\phi 16 \times h1000$ mm, non-screw

**DH.WOS502003** , "RD503",  $\phi 16 \times h1200$ mm, non-screw

**DH.WOS502031** Stainless-steel Rod, "RD531",  $\phi 23 \times h800$ mm, non-screw

**DH.WOS502033** , "RD533",  $\phi 23 \times h1200$ mm, non-screw

Ea.	Price, ₩
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(2) 1.5P Screw-type  $\phi$  16 & 23mm Rod

**DH.WOS502011** Stainless-steel Rod, "RD511",  $\phi 16 \times h800$ mm, 1.5P Screw

**DH.WOS502012** , "RD512",  $\phi 16 \times h1000$ mm, 1.5P Screw

**DH.WOS502013** , "RD513",  $\phi 16 \times h1200$ mm, 1.5P Screw

**DH.WOS502021** Stainless-steel Rod, "RD521",  $\phi 23 \times h800$ mm, 1.5P Screw

**DH.WOS502022** , "RD522",  $\phi 23 \times h1000$ mm, 1.5P Screw

**DH.WOS502023** , "RD523",  $\phi 23 \times h1200$ mm, 1.5P Screw

Ea.	Price, ₩
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