

# DAIHAN® Overhead Stirrer Selection Guide of Product Line

## Key Specification of Product Line

| Speed or High Torque                                    | High Speed                                       |            |   |            |  |            |   | High Torque             |            |   |            |  |            |            |   |            |          |
|---|--|------------|---|------------|--|------------|---|-------------------------|------------|---|------------|--|------------|------------|---|------------|----------|
|   | Analog Model                                     |            | Digital Model   |            |  |            |   | Analog Model            |            | Digital Model   |            |  |            |            |   |            |          |
| Controller Type   | Integrated Controller                            |            | Integrated Controller   |            | Remote Controller  |            | New PREMIUM Digital Model<br>OVS-S05                              | Integrated Controller   |            | Integrated Controller   |            | Remote Controller  |            |            | New PREMIUM Digital Model                                       |            |          |
|   | HS-50A   | HS-120A    | HS-30D  | HS-100D    | HS-30T   | HS-100T    |   | HT-50AX                 | HT-120AX   | HT-50DX   | HT-120DX   | HT-50T   | HT-120T    | HT-140T    | OVS-T16   | OVS-G30    |          |
| Max. Stirring Capacity(H <sub>2</sub> O)                | 10Lit  | 20Lit      | 10Lit   | 20Lit      | 10Lit  | 20Lit      | 100Lit  | 40Lit                   | 60Lit      | 40Lit   | 60Lit      | 40Lit  | 60Lit      | 100Lit     | 100Lit  | 100Lit     |          |
| Max. Viscosity(mPas)<br>(Viscosity Standard Oil 1.5Lit) | 5,000  | 10,000     | 5,000   | 10,000     | 5,000  | 10,000     | 50,000  | 60,000                  | 90,000     | 60,000  | 90,000     | 60,000   | 90,000     | 120,000    | 200,000   | 350,000    |          |
| Motor Rating (Input / Output)                           | 83W /75W   | 130W /120W | 83W /75W  | 130W /120W | 83W /75W   | 130W /120W | 200W /180W  | 83W /75W                | 130W /120W | 83W /75W  | 130W /120W | 83W /75W   | 130W /120W | 130W /120W | 200W /180W  | 200W /180W |          |
| Max. Torque (N·cm)                                      | 70   | 80         | 70  | 80         | 70   | 80         | 200   | 180                     | 210        | 180   | 210        | 180  | 210        | 300        | 700   | 800        |          |
| Speed Range (RPM)                                       | 200 ~ 3,000                                      |            |   |            |  |            |   | 50 ~ 1,000              |            |   |            |  |            |            |   | 50 ~ 2,000 | 10 ~ 550 |
| Max. Push Through Shafts φ (mm)                         | 8  |            |   |            |  |            | 10  |                         |            |   |            |  |            |            |   |            |          |
| Max. Chcuk Grip Capa. φ (mm)                            | 10   |            |   |            |  |            |   | 12                      |            |   |            |  |            |            | 10  |            |          |
| Controller  | Analog Phase Controller                          |            | Digital Feedback Controller with Jog Shuttle Switch (Turn+Push) |            | Digital Feedback Controller with Jog Shuttle Switch (Turn+Push), Remote type |            | Digital Feedback Controller with Jog Shuttle Switch (Turn + Push) | Analog Phase Controller |            | Digital Feedback Controller with Jog Shuttle Switch (Turn+Push) |            | Digital Feedback Controller with Jog Shuttle Switch (Turn+Push), Remote type |            |            | Digital Feedback Controller with Jog Shuttle Switch (Turn+Push) |            |          |
| Display   | None   |            | Back Light LCD  |            |  |            |   | None                    |            | Back Light LCD  |            |  |            |            |   |            |          |
| Permissible Temp. & Humidity                            | 0 ~ 40°C / 80%                                   |            |   |            |  |            |   |                         |            |   |            |  |            |            |   |            |          |
| Power Supply  | 1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz |            |   |            |  |            |   |                         |            |   |            |  |            |            |   |            |          |

## Selection Guide for Standard Viscosity

(Unit : mPas)

| Material               | Viscosity | Recommended Models         |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
|------------------------|-----------|----------------------------|-------------------------------|---------|------------------------------|---------------------------------|---------|---------|---------|--|--|--|--|--|--|--|
| Water                  | 1         | HS-50A<br>HS-30D<br>HS-30T | HS-120A<br>HS-100D<br>HS-100T | OVS-S05 | HT-50AX<br>HT-50DX<br>HT-50T | HT-120AX<br>HT-120DX<br>HT-120T | HT-140T | OVS-T16 | OVS-G30 |  |  |  |  |  |  |  |
| Milk                   | 3         |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Soybean oil            | 160       |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Varnish                | 500       |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Lacquer                | 1,000     |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Honey                  | 3,000     |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Viscosity Standard Oil | 5,000     |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
|                        | 10,000    |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
|                        | 15,000    |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Ketchup                | 30,000    |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Viscosity Standard Oil | 50,000    |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
|                        | 60,000    |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Mustard                | 70,000    |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Viscosity Standard Oil | 90,000    |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Corn Syrup             | 100,000   |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Viscosity Standard Oil | 120,000   |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
|                        | 150,000   |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
|                        | 200,000   |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Peanut Butter          | 250,000   |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |
| Viscosity Standard Oil | 350,000   |                            |                               |         |                              |                                 |         |         |         |  |  |  |  |  |  |  |

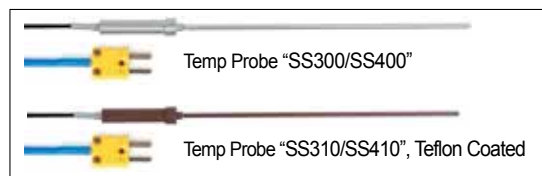
DAIHAN® PREMIUM Hi-Speed Overhead Stirrer “OVS-S05”, with Hi-Capacity BLDC-motor, 2:1, Max. 3,000rpm **NEW**  
 With Torque(Ncm)- / Viscosity(mPas)- / Temperature(°C)-Real Time Display, Optional Remote Control, 50,000mPas, Max. 100Lit  
 프리미엄 고속 교반기, 저/중점도용, 고사양 BLDC-motor, 토크- / 점도- / 온도-표시기능, “Push-Through” Shaft(φ 10mm or Less)



A. Max. 100Lit (H<sub>2</sub>O) PREMIUM “OVS-S05” Unit Only



B. Max. 100Lit (H<sub>2</sub>O) PREMIUM “OVS-S05” Package-set



(1) Direct Contact Temp Probes, K-type (Optional)



(2) K-type PTFE Encapsulated Stainless-steel Thermocouple Probe (Optional)

- Made in Korea
- PL (Product Liability) Insurance
- Patented Jog Dial & Touch Button
- Hi-Capacity Brushless DC-motor : High Efficiency Stirring Performance and Precise Speed Control(Minimize RPM Fluctuation), Low Maintenance Cost
- Torque Value(Ncm)-/Viscosity(mPas)-/Temperature(°C) Real-time Display Can be used with K-type Temp. Probe for Temperature Display.
- Can be used with Optional Digital Remote Controller.
- “Push-Through” Shafts(φ10mm or Less) ; Ideal for Raising or Lowering the Stir-Shafts without Moving the Motor Head - “Adjustable Height of Shaft”
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- \* Ideal for Low-/Middle-Viscosity \* Smooth Start and Change of the Stirring Speed.
- \* Large Size Digital LCD Display

Specifications & Ordering information

| Spec.                         | Model | “OVS-S05” Max. Speed 3,000rpm                                 |
|-------------------------------|-------|---|
| Stirring Capacity             |       | Max. 100 Lit (H <sub>2</sub> O)                               |
| Maximum Viscosity / Torque    |       | 50,000 mPas / 200 Ncm   |
| Speed Range & Motor           |       | 200 ~ 3,000RPM, Hi-Capacity Brushless DC-motor, 2:1           |
| Motor Rating (Input / Output) |       | 200 / 180W  |
| Controller / Safety Device    |       | Digital PID Control / Over Heat & Current Protector for Motor |
| Chuck Grip Capa. φmm          |       | dia φ3~10mm Shafts, Flex-Coupling(φ6~12mm)                    |
| “Push-Through” Shafts         |       | dia φ10mm or Less   |
| Permissible Temp. & Humidity  |       | 0 ~ 40 °C, 80%  |
| Dimension & Weight & Material |       | 84×205×h275mm, 3.5kg, Aluminum Die Casting                    |
| Power Consumption             |       | 250W  |
| Electrical Reqts.             |       | 1 Phase, AC 120V, 60 Hz or AC 230 V, 50 / 60 Hz               |

\* Other Specifications are available upon Customer’s Request

A. Unit-only

|  | Ea. Price, ₩ |
|--|--------------|
| DH.StiO0005 Hi-Speed Overhead Stirrer Unit “OVS-S05”, 230V |              |
| DH.StiO0005.1 , 120V                                       |              |

B. Package-set

- \* Complete with ① “OVS-S05” StirrerUnit
- ② “S723” Stainless-steel Impeller (Rod φ8×L650mm, 3-Blade φ80mm)
- ③ “CL200” Clamp
- ④ “KA1177” Safety Stand (Rod φ23×L800mm, Base 34×29cm)

|  | Ea. Price, ₩ |
|--|--------------|
| DH.StiO0105 Overhead Stirrer “OVS-S05” Package-set, 230V |              |
| DH.StiO0105.1 , 120V                                     |              |

C. Optional Digital Remote Controller, with Connecting Cable 1.5m

- \* Assembly-type, Torque / Viscosity / Temp-Control & Display
- \* Connecting Cable 1.5m(Included) and 2m(Optional)
- \* Size : w75×d150×h30mm, Weight : 150g

|   | Ea. Price, ₩ |
|---|--------------|
| DH.WOS50010 Digital Remote Controller with 1.5m Connecting Cable & Plug |              |
| DH.Cabi002 Optional Connecting Cable & Plug, 2m                         |              |

Optional Temperature Probe

(1) Direct Contact Temp Probe, K-type

|  | Ea. Price, ₩ |
|--|--------------|
| DH.WHP503040 Temp Probe, K-type, “SS300”, L250×φ 4.8 mm              |              |
| DH.WHP503050 , “SS400”, L380×φ 4.8 mm                                |              |
| DH.WHP503041 Temp Probe, K-type, “SS310”, Teflon Coated, L250×φ 5 mm |              |
| DH.WHP503051 , “SS410”, Teflon Coated, L380×φ 5 mm                   |              |

(2) K-type PTFE Encapsulated Stainless-steel Thermocouple Probe

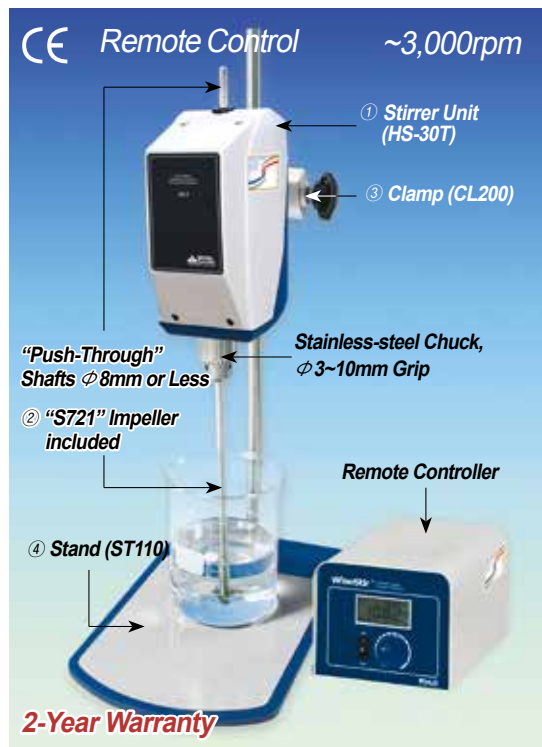
※ Note! For the Optional Probe ⇒ See the “Measuring, Thermometer” Section  
 For the Optional Impeller ⇒ See the “Stirrer, Accessory” Section



**DAIHAN® High-Speed Digital Overhead Stirrers “HS-D” & “HS-T”, for Low-/Middle-Viscosity, Max. 10 · 20Lit**  
 With “Push-Through” Shaft and Chuck grip  $\phi$  3~10mm, Flex-Coupling  $\phi$  6~12mm, Max. 3,000rpm, up to 5,000 · 10,000mPas  
 디지털 고속 교반기, 저/중점도용, 사용교반용 ; ①기본은  $\phi$  3~10mm, ②관통은  $\phi$  3~8mm, & ③별도의 Flex-Coupling 활용시  $\phi$  6~12mm



(I-A) Max. 10 Lit (H<sub>2</sub>O) High-Speed Digital Overhead Stirrer “HS-30D” Package-set



(II-A) Max. 10 Lit (H<sub>2</sub>O) High-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
- Patented Jog-Shuttle Control System
- \* with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- \* “Push-Through” Shafts( $\phi$  8mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts Moving the Motor Head - “Adjustable Height of Shaft”
- \* Smooth Start and Change of the Stirring Speed

**I. Digital Standard-type “HS-D”**

| Spec.                         | Models | (A) “HS-30D”  | (B) “HS-100D”              |
|-------------------------------|--------|---|----------------------------|
|                               |        | Max. Stirring Capa. 10 Lit  | Max. Stirring Capa. 20 Lit |
| Maximum Viscosity / Torque    |        | 5,000 mPas / 70 Ncm   | 10,000 mPas / 80 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   | 130 / 120 W                |
| 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. $\phi$ mm    |        | dia $\phi$ 3~10mm Shafts  |                            |
| “Push-Through” Shafts         |        | dia $\phi$ 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 Reqts.             |        | 1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz                    |                            |

| Unit-only   |      |             |             |
|---|------|-------------|-------------|
| Cat. No.  | 230V | DH.WOS01015 | DH.WOS01025 |
|   | 120V | DH.WOS02015 | DH.WOS02025 |
| Price, Each. ₩  |      |             |             |
| Digital Package-set (with ① Stirrer Unit, ② Impeller, ③ Clamp, ④ Stand) |      |             |             |
| Cat. No.  | 230V | DH.WOS01016 | DH.WOS01026 |
|   | 120V | DH.WOS02016 | DH.WOS02026 |
| Price, Each. ₩  |      |             |             |

**II. Digital Remote Controlled-type “HS-T”**

| Spec.                         | Model | (A) “HS-30T”   | (B) “HS-100T”              |
|-------------------------------|-------|--|----------------------------|
|                               |       | Max. Stirring Capa. 10 Lit   | Max. Stirring Capa. 20 Lit |
| Maximum Viscosity / Torque    |       | 5,000 mPas / 70 Ncm  | 10,000 mPas / 80 Ncm       |
| Speed Range & Motor           |       | 200 ~ 3,000 rpm, Direct Driven DC Motor                            |                            |
| Motor Rating (Input / Output) |       | 83 / 75 W  | 130 / 120 W                |
| Timer & Alarm                 |       | 99hr 59min (with Continuous run.), Timer-end Alarm                 |                            |
| Controller / Display          |       | Digital Feedback Controller / Digital LCD with Back-Light Function |                            |
| Chuck Grip Capa. $\phi$ mm    |       | dia $\phi$ 3~10mm Shafts   |                            |
| “Push-Through” Shafts         |       | dia $\phi$ 8mm or Less   |                            |
| Permissible Temp. & Humidity  |       | 0 ~ 40 °C, 80%   |                            |
| Safety Device / Material      |       | Overload & Heat Protector for motor / 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                      |
| Electrical Reqts.             |       | 1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz                   |                            |

| Unit & Remote Controller   |      |             |             |
|--|------|-------------|-------------|
| Cat. No.   | 230V | DH.WOS01035 | DH.WOS01045 |
|  | 120V | DH.WOS02035 | DH.WOS02045 |
| Price, Each. ₩   |      |             |             |
| Remote Package-set (with ① Stirrer Unit + Remote Controller, ② Impeller, ③ Clamp, ④ Stand) |      |             |             |
| Cat. No.   | 230V | DH.WOS01036 | DH.WOS01046 |
|  | 120V | DH.WOS02036 | DH.WOS02046 |
| Price, Each. ₩   |      |             |             |

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

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

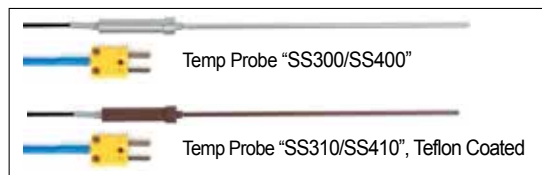
DAIHAN® PREMIUM Hi-Torque Overhead Stirrer "OVS-T16", with Hi-Capacity BLDC-motor, Max. 14:1, 200,000mPas With Torque(Ncm)- / Viscosity(mPas)- / Temperature(°C)-Real Time Display, Optional Remote Control, Max. 2,000rpm **NEW**  
 프리미엄 중/고점도용 교반기, 고사양 BLDC-motor, 토크- / 점도- / 온도-표시기능, "Push-Through" Shaft(φ 10mm or Less)



A. Max. 100Lit (H<sub>2</sub>O) PREMIUM "OVS-T16" Unit Only



B. Max. 100Lit (H<sub>2</sub>O) PREMIUM "OVS-T16" Package-set



(1) Direct Contact Temp Probe, K-type (Optional)



(2) K-type PTFE Encapsulated Stainless-steel Thermocouple Probe (Optional)

- Made in Korea
- PL(Product Liability) Insurance
- Patented Jog Dial & Touch Button
- Hi-Capacity Brushless DC-motor : High Efficiency Stirring Performance and Precise Speed Control(Minimize RPM Fluctuation), Low Maintenance Cost
- Torque Value(Ncm)-/Viscosity(mPas)-/Temperature(°C) Real-time Display Can be used with K-type Temp. Probe for Temperature Display.
- Can be used with Optional Digital Remote Controller.
- "Push-Through" Shafts(φ10mm or Less) ; Ideal for Raising or Lowering the Stir-Shafts without Moving the Motor Head - "Adjustable Height of Shaft"
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- \* Ideal for Low-/Middle-Viscosity
- \* Smooth Start and Change of the Stirring Speed.
- \* Large Size Digital LCD Display

Specifications & Ordering information

| Spec.                         | Model | "OVS-T16" Max. Torque 200,000mPas                               |
|-------------------------------|-------|---|
| Stirring Capacity             |       | Max. 100 Lit (H <sub>2</sub> O)                                 |
| Maximum Viscosity / Torque    |       | 200,000 mPas / 700 Ncm  |
| Speed Range & Motor           |       | 50~2,000RPM, Hi-Capacity Brushless DC-motor, Gear(2.6:1 / 14:1) |
| Motor Rating (Input / Output) |       | 200 / 180W  |
| Controller / Safety Device    |       | Digital PID Control / Over Heat & Current Protector for Motor   |
| Chuck Grip Capa. φ mm         |       | dia φ6~10mm Shafts, Flex-Coupling(φ6~16mm)                      |
| "Push-Through" Shafts         |       | dia φ10mm or Less   |
| Permissible Temp. & Humidity  |       | 0 ~ 40°C, 80%   |
| Dimension & Weight & Material |       | 84 × 205 × h275mm, 3.5kg, Aluminum Die Casting                  |
| Power Consumption             |       | 250W  |
| Electrical Reqts.             |       | 1 Phase, AC 120V, 60 Hz or AC 230 V, 50 / 60 Hz                 |

\* Other Specifications are available upon Customer's Request

A. Unit-only

| Code          | Description                                     | Ea. Price, ₩ |
|---------------|---|--------------|
| DH.Sti00016   | Hi-Torque Overhead Stirrer Unit "OVS-T16", 230V |              |
| DH.Sti00016.1 | , 120V  |              |

B. Package-set

- \* Complete with ① "OVS-T16" Stirrer Unit
- ② "S732" Stainless-steel Impeller (Rod φ8 × L500mm, 4-Blade φ70mm)
- ③ "CL200" Clamp
- ④ "KA1177" Safety Stand (Rod φ23 × L800mm, Base 34 × 29cm)

| Code          | Description                                  | Ea. Price, ₩ |
|---------------|--|--------------|
| DH.Sti00116   | Overhead Stirrer "OVS-T16" Package-set, 230V |              |
| DH.Sti00116.1 | , 120V                                       |              |

C. Optional Digital Remote Controller, with Connecting Cable 1.5m

- \* Assembly-type, Torque / Viscosity / Temp-Control & Display
- \* Connecting Cable 1.5m(Included) and 2m(Optional)
- \* Size : w75 × d150 × h30mm, Weight : 150g

| Code        | Description   | Ea. Price, ₩ |
|-------------|---|--------------|
| DH.WOS50010 | Digital Remote Controller with 1.5m Connecting Cable & Plug |              |
| DH.Cabl002  | Optional Connecting Cable & Plug, 2m                        |              |

Optional Temperature Probes

(1) Direct Contact Temp Probe, K-type

| Code         | Description   | Ea. Price, ₩ |
|--------------|---|--------------|
| DH.WHP503040 | Temp Probe, K-type, "SS300", L250 × φ 4.8 mm              |              |
| DH.WHP503050 | , "SS400", L380 × φ 4.8 mm                                |              |
| DH.WHP503041 | Temp Probe, K-type, "SS310", Teflon Coated, L250 × φ 5 mm |              |
| DH.WHP503051 | , "SS410", Teflon Coated, L380 × φ 5 mm                   |              |

(2) K-type PTFE Encapsulated Stainless-steel Thermocouple Probe

\* Note! For the Optional Probe ⇒ See the "Measuring, Thermometer" Section  
 For the Optional Impeller ⇒ See the "Stirrer, Accessory" Section

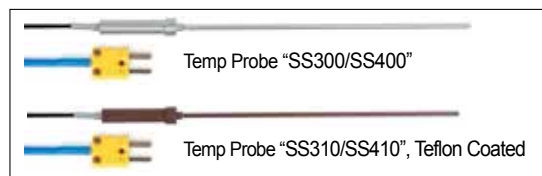
DAIHAN® **PREMIUM Ultra** Hi-Torque Overhead Stirrer “OVS-G30”, with Hi-Capacity BLDC-motor, Max. 60:1 **NEW**  
 With Planetary-gear, Torque(Ncm)- / Viscosity(mPas)- / Temperature(°C)-Real Time Display, Optional Remote Control  
 프리미엄 초고점도용 교반기, 고사양 BLDC-motor, 토크- / 점도- / 온도-표시기능, Max. 550rpm, 350,000mPas



A. Max. 100Lit (H<sub>2</sub>O) **PREMIUM Ultra** “OVS-G30” Unit Only



B. Max. 100Lit (H<sub>2</sub>O) **PREMIUM Ultra** “OVS-G30” Package-set



(1) Direct Contact Temp Probe, K-type (Optional)

(2) K-type PTFE Encapsulated Stainless-steel Thermocouple Probe (Optional)

- Made in Korea
- PL (Product Liability) Insurance
- Patented Jog Dial & Touch Button
- High Performance Brushless DC-motor : High Efficiency Stirring Performance and Precise Speed Control(Minimize RPM Fluctuation), Low Maintenance Cost
- Torque Value(Ncm)-/Viscosity(mPas)-/Temperature(°C) Real-time Display  
Can be used with K-type Temp. Probe for Temperature Display.
- Excellent Planetary Gear Design for High Torque(60:1 Ratio)
- Can be used with Optional Wire Digital Remote Controller.
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- \* Ideal for Low-/Middle-Viscosity
- \* Smooth Start and Change of the Stirring Speed.
- \* Large Size Digital LCD Display

Specifications & Ordering information

| Spec.                         | Model | “OVS-G30” Max. Torque 350,000mPas                             |
|-------------------------------|-------|---|
| Stirring Capacity             |       | Max. 100 Lit (H <sub>2</sub> O)                               |
| Maximum Viscosity / Torque    |       | 350,000 mPas / 800 Ncm  |
| Speed Range & Motor           |       | 10~550RPM, Hi-Capacity Brushless DC-motor, Gear(11:1 / 60:1)  |
| Motor Rating (Input / Output) |       | 200 / 180W  |
| Controller / Safety Device    |       | Digital PID Control / Over Heat & Current Protector for Motor |
| Chuck Grip Capa. φmm          |       | dia φ6~10mm Shafts, Flex-Coupling(φ6~16mm)                    |
| Permissible Temp. & Humidity  |       | 0 ~ 40 °C, 80%  |
| Dimension & Weight & Material |       | 84×205×h355mm, 3.5kg, Aluminum Die Casting                    |
| Power Consumption             |       | 250W  |
| Electrical Reqts.             |       | 1 Phase, AC 120V, 60 Hz or AC 230 V, 50 / 60 Hz               |

\* Other Specifications are available upon Customer's Request

A. Unit-only

| Model         | Description   | Ea. Price, ₩ |
|---------------|---|--------------|
| DH.StiO0030   | Ultra Hi-Torque Overhead Stirrer Unit “OVS-G30”, 230V |              |
| DH.StiO0030.1 | , 120V  |              |

B. Package-set

- \* Complete with ① “OVS-G30” Stirrer Unit
- ② “S732” Stainless-steel Impeller (Rod φ8×L500mm, 4-Blade φ70mm)
- ③ “CL200” Clamp
- ④ “KA1177” Safety Stand (Rod φ23×L800mm, Base 34×29cm)

| Model         | Description                                  | Ea. Price, ₩ |
|---------------|--|--------------|
| DH.StiO0130   | Overhead Stirrer “OVS-G30” Package-set, 230V |              |
| DH.StiO0130.1 | , 120V                                       |              |

C. Optional Digital Remote Controller, with Connecting Cable 1.5m

- \* Assembly-type, Torque / Viscosity / Temp-Control & Display
- \* Connecting Cable 1.5m(Included) and 2m(Optional)
- \* Size : w75 × d150 × h30mm, Weight : 150g

| Model       | Description   | Ea. Price, ₩ |
|-------------|---|--------------|
| DH.WOS50010 | Digital Remote Controller with 1.5m Connecting Cable & Plug |              |
| DH.Cabi002  | Optional Connecting Cable & Plug, 2m                        |              |

Optional Temperature Probes

(1) Direct Contact Temp Probe, K-type

| Model        | Description   | Ea. Price, ₩ |
|--------------|---|--------------|
| DH.WHP503040 | Temp Probe, K-type, “SS300”, L250 × φ 4.8 mm              |              |
| DH.WHP503050 | , “SS400”, L380 × φ 4.8 mm                                |              |
| DH.WHP503041 | Temp Probe, K-type, “SS310”, Teflon Coated, L250 × φ 5 mm |              |
| DH.WHP503051 | , “SS410”, Teflon Coated, L380 × φ 5 mm                   |              |

(2) K-type PTFE Encapsulated Stainless-steel Thermocouple Probe

※ Note! For the Optional Probe ⇒ See the “Measuring, Thermometer” Section  
 For the Optional Impeller ⇒ See the “Stirrer, Accessory” Section

DAIHAN® High-Torque Overhead Stirrer “HT-AX” & “HT-DX”, for Middle-/High-Viscosity, Max.40 · 60Lit, 60,000 · 90,000mPas With “Push-Through” Shaft(φ 10mm or Less) and Chuck grip φ 6~12mm, Flex-Coupling φ 6~16mm, Max.1,000rpm  
 중/고점도용 강력교반기, 사용교반봉; ①기본은 φ 6~12mm, ②관통은 φ 6~10mm, & ③별도의 Flex-Coupling 활용시 φ 6~16mm



(III-B) Max. 60Lit Analog “HT-120AX” Package-set



(IV-B) Max. 60Lit Digital “HT-120DX” Package-set



(II-B) HT-120DX

- 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”

### I. Analog Control Stirrer “HT-AX”

- \* Easy-to-use Dial for Speed Setting
- \* Speed Range : 50 ~ 1,000 rpm
- \* Smooth Start and Change of the Stirring Speed

### II. Digital Control Stirrer “HT-DX”

- Patented Jog-Shuttle Control System
- \* Digital LCD with Back-Light Function
- \* Speed Range : 50 ~ 1,000 rpm, Control and Display by 1 rpm
- \* Timer : 99hr 59min (with Continuous run), Error status & Timer-end Alarm

### III. Analog Stirrer Package-set

- \* III-A. “HT-50AX” Set : Complete with ① “HT-50AX” Stirrer Unit, ② “S732” Stainless-steel Impeller(Rod φ 8×L500mm, 4-Blade φ 70mm), ③ “CL200” Clamp, and ④ “KA1177” Safety Stand(Rod φ 23×L800mm, Base w34×d29cm)
- \* III-B. “HT-120AX” Set : Complete with ① “HT-120AX” Stirrer Unit, ② “S736” Stainless-steel Impeller(Rod φ 10×L650mm, 4-Blade φ 90mm), ③ “CL200” Clamp, and ④ “KA1177” Safety Stand(Rod φ 23×L800mm, Base w34×d29cm)

### IV. Digital Stirrer Package-set

- \* IV-A. “HT-50DX” 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)
- \* IV-B. “HT-120DX” 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)

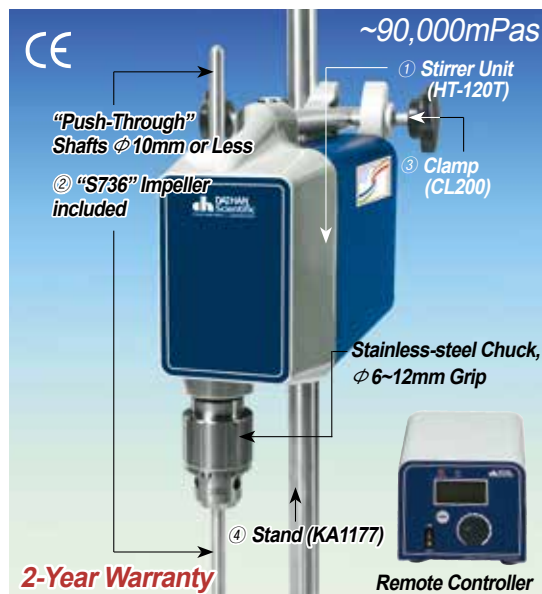
### Specifications & Ordering information

| Spec.                         | Model | A. Max. Stirring Capa. 40Lit                           | B. Max. Stirring Capa. 60 Lit                        |
|-------------------------------|-------|--|--|
|                               |       | (I-A) Analog “HT-50AX”<br>(II-A) Digital “HT-50DX”     | (I-B) Analog “HT-120AX”<br>(II-B) Digital “HT-120DX” |
| Stirring Capacity             |       | Max. 40 Lit (H <sub>2</sub> O)                         | Max. 60 Lit (H <sub>2</sub> O)                       |
| Maximum Viscosity / Torque    |       | 60,000 mPas / 180 Ncm                                  | 90,000 mPas / 210 Ncm                                |
| Motor                         |       | Worm-Geared DC Motor (3.5:1 Ratio)                     |  |
| Motor Rating (Input / Output) |       | 83 / 75 W  | 130 / 120 W  |
| 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 Reqt.s.            |       | 1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz       |  |

| I. Analog Stirrer Only   |      | (I-A) “HT-50AX”       | (I-B) “HT-120AX”       |
|--------------------------|------|-----------------------|------------------------|
| Cat. No.                 | 230V | DH.WOS01251           | DH.WOS01271            |
|                          | 120V | DH.WOS02251           | DH.WOS02271            |
| Price, Each. ₩           |      |                       |                        |
| II. Digital Stirrer Only |      | (II-A) “HT-50DX”      | (II-B) “HT-120DX”      |
| Cat. No.                 | 230V | DH.WOS01051           | DH.WOS01071            |
|                          | 120V | DH.WOS02051           | DH.WOS02071            |
| Price, Each. ₩           |      |                       |                        |
| III. Analog Package Set  |      | (III-A) “HT-50AX” Set | (III-B) “HT-120AX” Set |
| Cat. No.                 | 230V | DH.WOS01252           | DH.WOS01272            |
|                          | 120V | DH.WOS02252           | DH.WOS02272            |
| Price, Each. ₩           |      |                       |                        |
| IV. Digital Package Set  |      | (IV-A) “HT-50DX” Set  | (IV-B) “HT-120DX” Set  |
| Cat. No.                 | 230V | DH.WOS01052           | DH.WOS01072            |
|                          | 120V | DH.WOS02052           | DH.WOS02072            |
| Price, Each. ₩           |      |                       |                        |

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

DAIHAN® Remote Control High-Torque Digital Overhead Stirrer “HTT”, for Middle-/High-Viscosity, Max.40 · 60 · 100Lit With “Push-Through” Shaft(φ 10mm or Less) and Chuck grip φ6~12mm, Flex-Coupling φ6~16mm, 120,000mPas, Max.1,000rpm  
 원격조절식 디지털 중/고점도용 강력교반기, 사용교반봉; ①기본은 φ6~12mm, ②관통은 φ6~10mm, & ③별도의 Flex-Coupling 활용시 φ8~16mm



2-Year Warranty

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



“HT-140T” Digital High-Torque Overhead Stirrer (included Stirring Speed Remote Controller and Temp. Display) in 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
- Patented Jog-Shuttle Control System

\* “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”  
 \* 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.

Specifications & Ordering information

| Spec.                               | Model | “HT-50T”<br>Max. Stirring Capa. 40L                                       | “HT-120T”<br>Max. Stirring Capa. 60L | “HT-140T”<br>Max. Stirring Capa. 100L            |
|-------------------------------------|-------|---|--------------------------------------|--|
| Stirring Capacity(H <sub>2</sub> O) |       | Max. 40 Lit   | Max. 60 Lit                          | Max. 100 Lit                                     |
| Maximum Viscosity / Torque          |       | 60,000 mPas / 180 Ncm   | 90,000 mPas / 210 Ncm                | 120,000 mPas / 300 Ncm                           |
| Speed Range & Motor                 |       | 50 ~ 1,000 rpm<br>Worm-Geared Motor(3.5:1 Ratio)                          |                                      | 50 ~ 800 rpm                                     |
| Motor Rating (Input / Output)       |       | 83 / 75 W   | 130 / 120 W                          |  |
| Timer & Alarm                       |       | 99hr 59min (with Continuous run.), Timer-end Alarm                        |                                      |  |
| Controller / Display                |       | Digital Feedback Remote Controller / Digital LCD with Back-Light Function |                                      | 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                          |                                      |  |

Unit & Remote Controller

| Cat. No.   | 230V | DH.WOS01065 | DH.WOS01075 | DH.WOS01085 |
|--|------|-------------|-------------|-------------|
|  | 120V | DH.WOS02065 | DH.WOS02075 | DH.WOS02085 |
| Price, Each. ₩   |      |             |             |             |
| Package-set (with ① Stirrer+Remote Controller, ② Impeller, ③ Clamp, ④ Stand) |      |             |             |             |
| Cat. No.   | 230V | DH.WOS01066 | DH.WOS01076 | -           |
|  | 120V | DH.WOS02066 | DH.WOS02076 | -           |
| 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 φ8×L500mm, 4-Blade φ70mm) ③ “CL200” Clamp, and ④ “ST120” Wide Plate Stand(Rod φ23×L1000mm, Base w30×d40cm)
- \* “HT-120T” Package-set : Complete with ① “HT-120T” Stirrer Unit with Remote Controller ② “S736” Stainless-steel Impeller (Rod φ10×L650mm, 4-Blade φ90mm) ③ “CL200” Clamp, and ④ “ST200” Deluxe Safety Stand (Rod φ23× L1,200mm, Base 39×up to 75cm)

※ Details of Wide-Range Coupling : See the “Stirrer Accessory”