

# Homogenizers

- Useful for All Dispersing and Homogenizing Applications
- High Speed / High Quality / Low Noise : Max. 27,000 RPM (without load)
- Speed & Power Control Optimized for a Sample
- High Efficiency Dispersing Tools made of Stainless Steel and PTFE
- Compact Unit with Solid State Speed Control (HS-30 model)
- PL(Product Liability) Insurance

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❖ **Digital Homogenizer with Remote Controller (HG-15D model)**



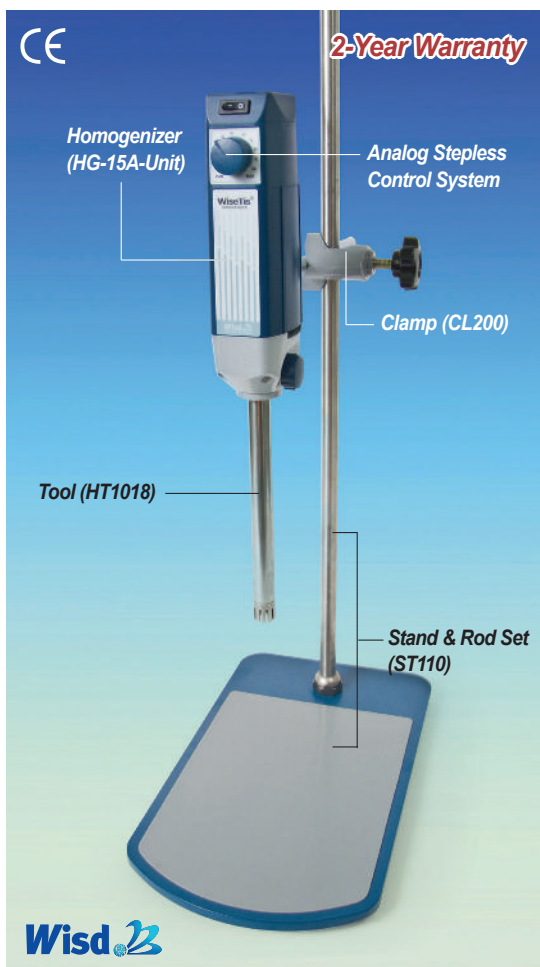
❖ **Homogenizer with Direct Controller (HG-15A model)**



❖ **Homogenizing Stirrer, for use with Tissue Grinders (HS-30E model)**



witeg® Homogenizer with Direct Controller, "HG-15A", up to 27,000 rpm, 1~2,500ml  
with Analog Stepless Control System, High Efficiency Dispersing Tools, High-Speed • High-Quality • Low Noise



Homogenizer Package-set "HG-15A-Set-A"

- with Certificate & Traceability:  
Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Useful for All Dispersing and Homogenizing Applications
- Over Heat Protection
- PL (Product Liability) Insurance ■ CE Certified
- \* Designed for Liquid and Tissue Samples
- \* Useful for All Dispersing and Homogenizing Applications
- \* High Speed / High Quality / Low Noise : Max. 27,000 RPM (without load)
- \* Speed & Power Control Optimized for a Sample
- \* High Efficiency Dispersing Tool made of Stainless Steel and PTFE

Specification

Model	Homogenizer Package-Set HG - 15A-Set
Speed Range & Adjustment	Max. 27,000 rpm (without load), Stepless
Working Range	1 ~ 2,500ml
Motor Rating (Input / Output)	Input : 300W, Output : 160 W
Controller	Analog Phase Controller
Safety Device	Over Heat Protector
Usable Dispersing Tool	Φ8mm Stator "HT1008", Φ10mm Stator "HT1010", Φ10mm Stator "HT1018", Φ25mm Stator "HT1025"
Material	Aluminum Die-casting and ABS-Unit, Stainless Steel (#304)-Tool
Permissible Temp. & Moisture	Ambient +5 ~ 50°C, 85%
Extension Arm Size	Φ12.7 X L250mm
Dimension & Weight	60 X 75 X h215mm, 2.5kg
Packing Size & Gross Weight	320 X 300 X h190mm, 5 kg
Power Consumption	160W
Power plug type	Hybrid E+F
Power Supply*	AC 230V, 1N~, 50/60Hz

\* Other Specifications are available upon Customer s Request.

Ordering Information

- \* Package-Set : "HG-15A-Set-A" –with (3) "HT1018" Dispersing Tool(Rotor Φ12.5, Stator Φ18), "CL200" Clamp, "ST110" Standard Plate Stand
- "HG-15A-Set-B" –with (4) HT1025 Dispersing Tool(Rotor Φ20, Stator Φ25), "CL200" Clamp, "ST110" Standard Plate Stand
- Package Dimension and Weight exclude ST110 Standard Plate Stand

with "HT1018" Dispersing Tool, HG-15A-Set-A Package-set

DH.WHG02016 Homogenizer Package, 230V, "HG-15A-Set-A"

with "HT1025" Dispersing Tool, HG-15A-Set-B Package-set

DH.WHG02017 Homogenizer Package, 230V, "HG-15A-Set-B"

without Dispersing Tool, Homogenizer Unit Only

DH.WHG02015 Homogenizer Unit, 230V, HG-15A-Unit

Spare Dispersing Tool & Clamp & Plate Stand

- DH.WHG02108 (1) Dispersing Tool, "HT1008", Rotor Φ6.1, Stator Φ8mm, 1~50ml
- DH.WHG02110 (2) "HT1010", Rotor Φ7.5, Stator Φ10mm, 1~100ml
- DH.WHG02118 (3) "HT1018", Rotor Φ12.5, Stator Φ18mm, 10~1000ml
- DH.WHG02125 (4) "HT1025", Rotor Φ20, Stator Φ25mm, 50~2500ml
- DH.WOS502020 Clamp, "CL200", for Stirrer or Homogenizer,  
Cast Aluminum, Grip Capacity Φ23mm for Stand/Rod
- DH.WOS501510 Standard Plate Stand, "ST110", for Stirrer or Homogenizer,  
Φ16 X h800 mm Rod, w20 X d35 cm Plate, with Silicone Pad
- DH.WOS501515 Wide Plate Stand, "ST120", for Stirrer or Homogenizer,  
Φ23 X h1000 mm Rod, w30 X d40 cm Plate, with Silicone Pad

\* See page 74 for the Specifications of Dispersing Tools and Accessories.



## witeg® Homogenizer with Remote Digital Controller, "HG-15D", 2,000~2,7000rpm with Microprocessor Digital-Control, High-Efficiency Dispersing Tools, Back Light LCD, 1~2,500ml

- with Certificate & Traceability :  
Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Patented Jog-Shuttle Control System
- PL(Product Liability) Insurance
- CE Certified

- \* Useful for All Dispersing and Homogenizing Applications
- \* Designed for Liquid and Tissue Samples
- \* High Speed / High Quality / Low Noise : Max. 27,000 RPM (without load)
- \* Remote Digital Controller : Fully Digital Controlled by Using Microprocessor
- \* Speed & Power Control Optimized for a Sample
- \* LCD Display of Speed(RPM) and Power Bar Graph
- \* High Efficiency Dispersing Tool made of Stainless Steel and PTFE

### Specification

Model	Homogenizer Package-Set HG-15D-Set
Speed Range & Resolution	2,000 ~ 27,000rpm (without load), 10 rpm-Control
Working Range	1 ~ 2,500ml
Motor Rating (Input / Output)	Input : 300W , Output : 160 W
Timer & Alarm	10sec ~ 15min, Timer-end Alarm
Display	Digital LCD Display with Back-Light Function
Controller	Digital Feedback Controller (Remote Type)
Safety Device	Over Load & Over Heat Protector
Usable Dispersing Tool	Φ8mm Stator "HT1008", Φ10mm Stator "HT1010", Φ10mm Stator "HT1018", Φ25mm Stator "HT1025"
Material	Aluminum Die-casting and ABS-Unit, Stainless Steel (#304)-Tool
Permissible Temp. & Moisture	Ambient +5 ~ 50°C, 85%
Extension Arm Size	Φ12.7 X L250mm
Dimension & Weight	60 X 75 X h215mm, 2.5kg
Packing Size & Gross Weight	580 X 340 X h230mm, 6 kg
Power Consumption	160W
Power plug type	Hybrid E+F
Power Supply*	AC 230V, 1N~, 50/60Hz

\* Other Specifications are available upon Customer s Request.

### Ordering Information

- \* Package-Set : "HG-15D-Set-A" – with (3) "HT1018" Dispersing Tool(Rotor Φ12.5, Stator Φ18), "CL200" Clamp, "ST110" Standard Plate Stand
- "HG-15D-Set-B" –with (4) HT1025 Dispersing Tool(Rotor Φ20, Stator Φ25), "CL200" Clamp, "ST110" Standard Plate Stand
- Package Dimension and Weight exclude "ST110" Standard Plate Stand

### with "HT1018" Dispersing Tool, "HG-15D-Set-A" Package-set

DH.WHG02019 Homogenizer Package, 230V, "HG-15D-Set-A"

### with "HT1025" Dispersing Tool, "HG-15D-Set-B" Package-set

DH.WHG02020 Homogenizer Package, 230V, "HG-15D-Set-B"

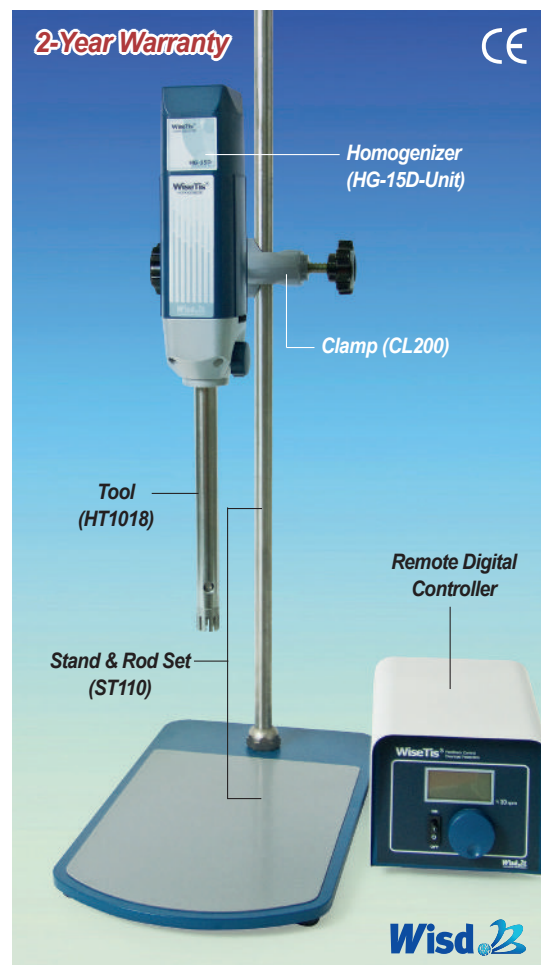
### without Dispersing Tool, Homogenizer Unit Only

DH.WHG02018 Homogenizer Unit, 230V, "HG-15D-Unit"

### Spare Dispersing Tool & Clamp & Plate Stand

- DH.WHG02108 (1) Dispersing Tool, "HT1008", Rotor Φ6.1, Stator Φ8mm, 1~50ml
- DH.WHG02110 (2) , "HT1010", Rotor Φ7.5, Stator Φ10mm, 1~100ml
- DH.WHG02118 (3) , "HT1018", Rotor Φ12.5, Stator Φ18mm, 10~1000ml
- DH.WHG02125 (4) , "HT1025", Rotor Φ20, Stator Φ25mm, 50~2500ml
- DH.WOS502020 Clamp, "CL200", for Stirrer or Homogenizer,  
Cast Aluminum, Grip Capacity Φ23mm for Stand/Rod
- DH.WOS501510 Standard Plate Stand, "ST110", for Stirrer or Homogenizer,  
Φ16 X h800 mm Rod, w20 X d35 cm Plate, with Silicone Pad
- DH.WOS501515 Wide Plate Stand, "ST120", for Stirrer or Homogenizer,  
Φ23 X h1000 mm Rod, w30 X d40 cm Plate, with Silicone Pad

\* See page 74 for the Specifications of Dispersing Tools and Accessories.



Homogenizer with Remote Digital Controller  
"HG-15D-Set-A"

1~50ml



(1) Dispersing Tool "HT1008"

1~100ml



(2) Dispersing Tool "HT1010"

10~1,000ml

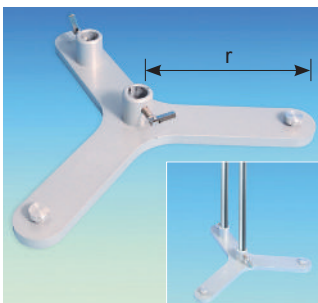
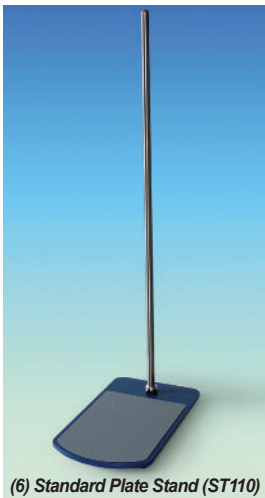


(3) Dispersing Tool "HT1018"

10~2,500ml

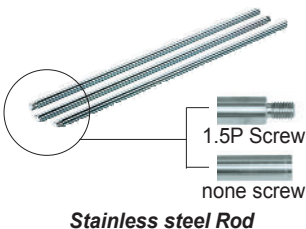


(4) Dispersing Tool "HT1025"



Steel Retort Base Duo Stand

## witeg® High-Quality Stainless Steel (#304) Rod. for Plate Stand, Φ16/23 mm



## Homogenizer Accessories, Dispersing Tools & Plate Stand for Homogenizer

- Accurate Stator & Rotor made of Stainless Steel
- High Efficiency Dispersing Tool made of Stainless Steel and PTFE
- Low Cost & High Efficiency

Model	(1) HT1008	(2) HT1010	(3) HT1018	(4) HT1025
Working Range	1 ~ 50ml	1 ~ 100ml	10 ~ 1,000ml	50 ~ 2,500ml
Stator Diameter	Φ8 mm	Φ10 mm	Φ10 mm	Φ25 mm
Rotor Diameter	Φ6.1 mm	Φ7.5 mm	Φ8.3mm	Φ20 mm
Gap between Rotor & Stator	0.25 mm	0.2 mm	0.25 mm	0.35 mm
Allowable Max. Speed	27,000 rpm		20,000 rpm	15,000 rpm
Immersion Depth Min.	35 mm		60 mm	
Immersion Depth Max	70 mm		130 mm	
Shaft Length	138 mm		225 mm	
Bearing Material	PTFE			
Suitable for Solvent	Yes			
Max. Temperature	180°C			
Sterilization Method	All Methods			
Suspensions & Emulsions	Suspension : 10 ~ 50µm, Emulsion : 1 ~ 10µm			

\* Test Condition : 1.8 liters of water in the 2 liters capacity beaker.

### Spare Dispersing Tool & Clamp & Plate Stand

- DH.WHG02108 (1) Dispersing Tool, "HT1008", Rotor Φ6.1, Stator Φ8mm, 1~50ml  
 DH.WHG02110 (2) "HT1010", Rotor Φ7.5, Stator Φ10mm, 1~100ml  
 DH.WHG02118 (3) "HT1018", Rotor Φ12.5, Stator Φ18mm, 10~1000ml  
 DH.WHG02125 (4) "HT1025", Rotor Φ20, Stator Φ25mm, 50~2500ml  
 DH.WOS02020 (5) Clamp, "CL200", for Stirrer or Homogenizer, Cast Aluminum, Grip Capacity Φ23mm for Stand/Rod  
 DH.WOS050150 (6) Standard Plate Stand, ST110, for Stirrer or Homogenizer, Φ16 X h800 mm Rod, w20 X d35 cm Plate, with Silicone Pad  
 DH.WOS0501515 (7) Wide Plate Stand, ST120, for Stirrer or Homogenizer, Φ23 X h1000 mm Rod, w30 X d40 cm Plate, with Silicone Pad

## Steel Retort Base Duo Stand, up to Φ16mm Rods, for 2 Rods Nonskid Feet equipped, with Hinged Screw M6, Rod Excluded

- \* Can Fix Rods up to 2ea (Below Φ16mm)
- \* Stand Thickness : 8mm

### Retort Stand, Only Stand Base

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

### Optional Stainless Steel Rod

- DH.WOS02001 Stainless steel Rod, "RD501", Φ16 X h800mm, non-screw  
 DH.WOS02002 "RD502", Φ16 X h1000mm, non-screw  
 DH.WOS02003 "RD503", Φ16 X h1200mm, non-screw

### Plain-type Φ16mm Rod, without Screw

- DH.WOS02001 Stainless steel Rod, "RD501", Φ16 X h800mm, non-screw  
 DH.WOS02002 "RD502", Φ16 X h1000mm, non-screw  
 DH.WOS02003 "RD503", Φ16 X h1200mm, non-screw  
 DH.WOS02031 "RD531", Φ23 X h800mm, non-screw  
 DH.WOS02033 "RD533", Φ23 X h1200mm, non-screw

### 1.5P Screw-type Φ16 & 23mm Rod

- DH.WOS02011 Stainless steel Rod, "RD511", Φ16 X h800mm, 1.5P Screw  
 DH.WOS02012 "RD512", Φ16 X h1000mm, 1.5P Screw  
 DH.WOS02013 "RD513", Φ16 X h1200mm, 1.5P Screw  
 DH.WOS02021 "RD521", Φ23 X h800mm, 1.5P Screw  
 DH.WOS02022 "RD522", Φ23 X h1000mm, 1.5P Screw  
 DH.WOS02023 "RD523", Φ23 X h1200mm, 1.5P Screw

## witeg® Homogenizing Stirrer, "HS-30E", for Tissue Grinder, 200~5,000rpm For Tissue Grinders, Analog Phase Control, without Tissue Grinder, with Certi. & Traceability

- with Certificate & Traceability :  
Controlled by Serial Number, Certificate, Delivery-information,  
and Traceable Data Base System
- Ideal for usage with Tissue Grinders
- CE Certified                      ■ **PL (Product Liability) Insurance**

- \* Designed for most Laboratory Applications such as Homogenizing or Mixing
- \* Compact Unit with Solid State Speed Control

### Specification

Model	Homogenizing Stirrer "HS-30E"
Speed Range & Max. Torque	200 ~ 5,000 rpm, 85 Ncm
Stirring Capacity	Max. 10 Lit.
Motor Rating	Input : 83 W, Output : 75 W, 1/10 HP
Safety Device	Over Heat Protector
Controller	Analog Phase Controller
Dimension & Weight	90 X 145 X h180mm, 3.5 kg
Packing Size & Gross Weight	320 X 300 X h190mm, 5 kg
Power Consumption	75W
Power plug type	Hybrid E+F
Power Supply*	AC 230V, 1N~, 50/60Hz

\* Other Specifications are available upon Customer s Request.

### Ordering Information

- \* Package-Set : "HS-30E-Set" - with "CL200" Clamp, "ST110" Standard Plate Stand

- Package Dimension and Weight exclude ST110  
Standard Plate Stand

DH.WOS01011 Homogenizing Stirrer Package-Set, 230V, "HS-30E-Set"

DH.WOS01010 Homogenizing Stirrer, 230V, HS-30E-Unit



Homogenizing Stirrer Package-Set "HS-30E-Set"

### ※ **NOTE!**

**The Package does not Include a Tissue Grinder**