

DAIHAN Scientific

Homogenizer

Homogenizer, with Direct Controller	P. 96
, with Remote Digital Controller	P. 97
, Accessory	P. 98
Homogenizing Stirrer for Tissue Grinder	P. 99
Homogenizing Tissue Grinder	P. 99



● **Homogenizer with Direct Controller**
"HG-15A"
27,000 rpm

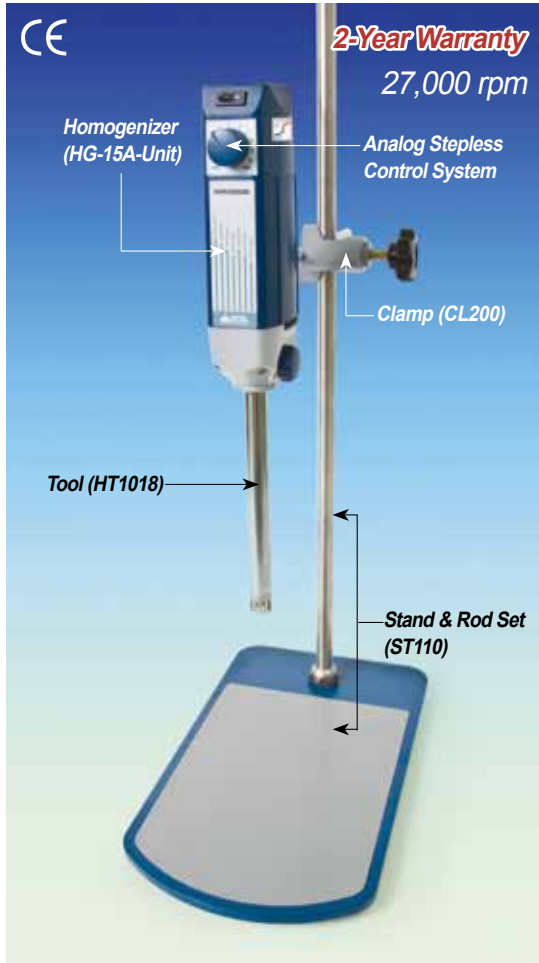


● **Digital Homogenizer with Remote Controller**
"HG-15D"
2,000~27,000 rpm



● **Homogenizing Stirrer for Tissue Grinder**
"HS-30E"
200~5,000 rpm

DAIHAN® 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
 균질기 / 호모게나이저, 아날로그 컨트롤러 내장, 초고속/저소음 모터



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

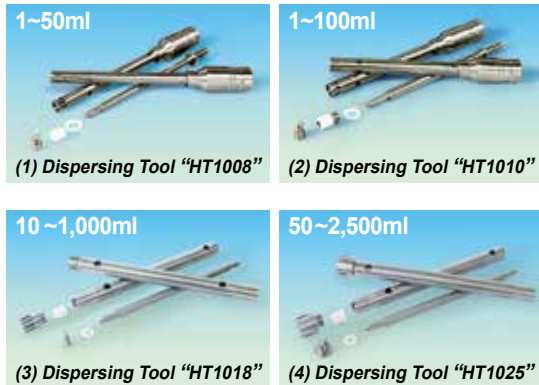
- Made in Korea
 - CE Certified
 - PL(Product Liability) Insurance
 - with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
 - Useful for All Dispersing and Homogenizing Applications
 - Over Heat Protection
- * Designed for Liquid 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

Specifications & Ordering information

Spec.	Model	A. "HG-15A-Set-A" with HT1018	B. "HG-15A-Set-B" with HT1025	C. "HG-15A" (Unit Only)
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		
Standard Component Acc.		"HT1018" Dispersing Tool, "CL200" Clamp, "ST110" Stand	"HT1025" Dispersing Tool, "CL200" Clamp, "ST110" Stand	Unit Only
Safety Device		Over Heat Protector		
Usable Dispersing Tool		φ 8mm Stator "HT1008", φ 10mm Stator "HT1010", φ 18mm Stator "HT1018", φ 25mm Stator "HT1025"		
Material		Aluminum Die-casting and ABS-Unit, Stainless-steel (# 304)-Tool		
Permissible Temp. & Moisture		Ambient +5 ~ 50 °C, 85%		
Extension Arm Size		φ 12.7 × L250mm		
Dimension & Weight		60 × 75 × h215mm, 2.5kg		
Packing Size & Gross Weight		320 × 300 × h190mm, 5 kg		
Power Consumption		160W		
Electrical Reqt.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz		
Cat. No.	230V	DH.WHG02016	DH.WHG02017	DH.WHG02015
	120V	DH.WHG01016	DH.WHG01017	DH.WHG01015
Price, Each. ₩				

* Other Specifications are available upon Customer's Request.

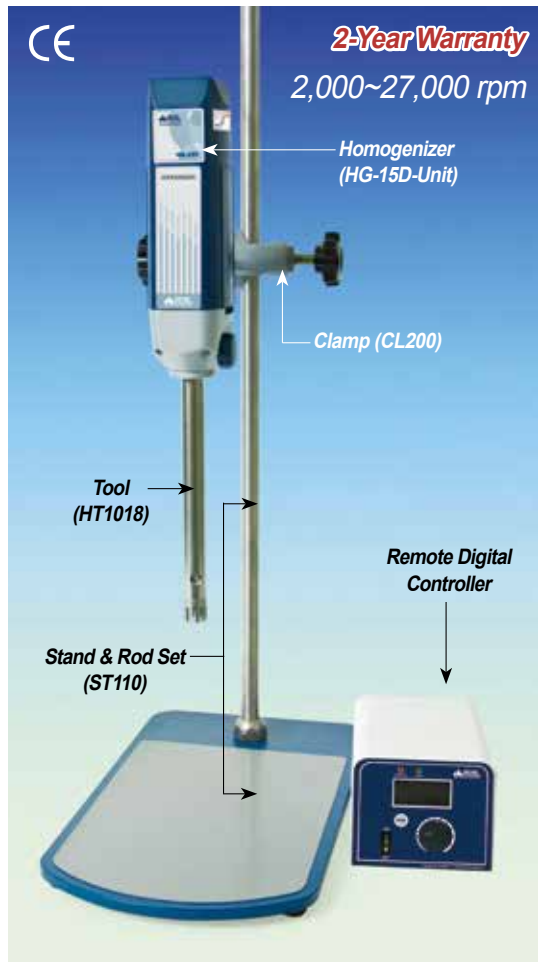
Spare Dispersing Tool & Clamp & Plate Stand



		Ea. Price, ₩
DH.WHG02108	(1) Dispersing Tool, "HT1008", Rotor φ 6, Stator φ 8mm, 1~50ml	
DH.WHG02110	(2) Dispersing Tool, "HT1010", Rotor φ 7.96, Stator φ 10mm, 1~100ml	
DH.WHG02118	(3) Dispersing Tool, "HT1018", Rotor φ 12.8, Stator φ 18mm, 10~1000ml	
DH.WHG02125	(4) Dispersing Tool, "HT1025", Rotor φ 20, Stator φ 25mm, 50~2500ml	
SL.Cla8011	Clamp, "CL200", for Stirrer or Homogenizer, Cast Aluminum, Grip Capacity φ 23mm for Stand/Rod	
DH.WOS501510	Standard Plate Stand, "ST110", for Stirrer or Homogenizer, φ 16 × h800 mm Rod, w20 × d35 cm Plate, with Silicone Pad	
DH.WOS501515	Wide Plate Stand, "ST120", for Stirrer or Homogenizer, φ 23 × h1000 mm Rod, w30 × d40 cm Plate, with Silicone Pad	

※ See page 98 for the Specifications of Dispersing Tools and Accessories.

DAIHAN® Homogenizer with Remote Digital Controller “HG-15D”, 2,000~27,000rpm
 With Microprocessor Control, High-Efficiency Dispersing Tools, Back Light LCD, 1~2,500ml
 디지털 균질기 / 호모게나이저, 분리형 리모트 컨트롤러, 초고속/저소음 모터



A. Homogenizer with Remote Digital Controller “HG-15D-Set-A”

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

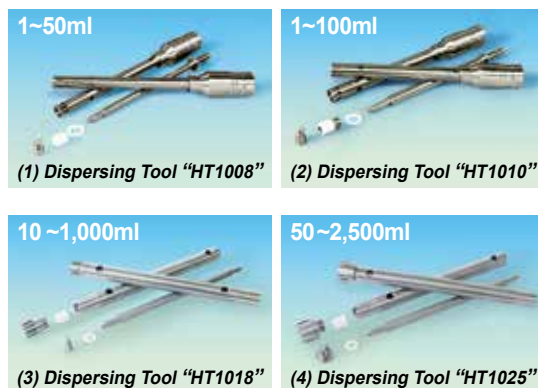
- * Useful for All Dispersing and Homogenizing Applications
- * Designed for Liquid and Tissue Samples
- * High Speed / High Quality / Low Noise : Max. 27,000 RPM (without load)
- * Remote Digital Controller : Fully Digital Controlled by Using Microprocessor
- * Speed & Power Control Optimized for a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

Specifications & Ordering information

Spec.	Model	A. “HG-15D-Set-A” with HT1018	B. “HG-15D-Set-B” with HT1025	C. “HG-15D” (Unit Only)
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 with Back-Light Function		
Controller		Digital Feedback Controller (Remote Type)		
Standard Component Acc.		“HT1018” Dispersing Tool, “CL200” Clamp, “ST110” Stand	“HT1025” Dispersing Tool, “CL200” Clamp, “ST110” Stand	Unit Only
Safety Device		Over Load & Over Heat Protector		
Usable Dispersing Tool		φ 8mm Stator “HT1008”, φ 10mm Stator “HT1010”, φ 18mm Stator “HT1018”, φ 25mm Stator “HT1025”		
Material		Aluminum Die-casting and ABS-Unit, Stainless-steel (# 304)-Tool		
Permissible Temp. & Moisture		Ambient +5 ~ 50℃, 85%		
Extension Arm Size		φ 12.7 × L250mm		
Dimension & Weight		60 × 75 × h215mm, 2.5kg		
Packing Size & Gross Weight		580 × 340 × h230mm, 6 kg		
Power Consumption		160W		
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz		

Cat. No.	230V	DH.WHG02019	DH.WHG02020	DH.WHG02018
	120V		DH.WHG01019	DH.WHG01020
Price, Each. ₩				

* Other Specifications are available upon Customer’s Request.



Spare Dispersing Tool & Clamp & Plate Stand

		Ea. Price, ₩
DH.WHG02108	(1) Dispersing Tool, “HT1008”, Rotor φ 6, Stator φ 8mm, 1~50ml	
DH.WHG02110	(2) Dispersing Tool, “HT1010”, Rotor φ 7.96, Stator φ 10mm, 1~100ml	
DH.WHG02118	(3) Dispersing Tool, “HT1018”, Rotor φ 12.8, Stator φ 18mm, 10~1000ml	
DH.WHG02125	(4) Dispersing Tool, “HT1025”, Rotor φ 20, Stator φ 25mm, 50~2500ml	
SL.Cla8011	Clamp, “CL200”, for Stirrer or Homogenizer, Cast Aluminum, Grip Capacity φ 23mm for Stand/Rod	
DH.WOS501510	Standard Plate Stand, “ST110”, for Stirrer or Homogenizer, φ 16 × h800 mm Rod, w20 × d35 cm Plate, with Silicone Pad	
DH.WOS501515	Wide Plate Stand, “ST120”, for Stirrer or Homogenizer, φ 23 × h1000 mm Rod, w30 × d40 cm Plate, with Silicone Pad	

* See page 98 for the Specifications of Dispersing Tools and Accessories.



Homogenizer Accessory, Dispersing Tool & Plate Stand

(1) Dispersing Tool

- 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	φ 8 mm	φ 10 mm	φ 18 mm	φ 25 mm
Rotor Diameter	φ 6 mm	φ 7.96 mm	φ 12.8mm	φ 20 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 ~ 50 μ m, Emulsion : 1 ~ 10 μ m			

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

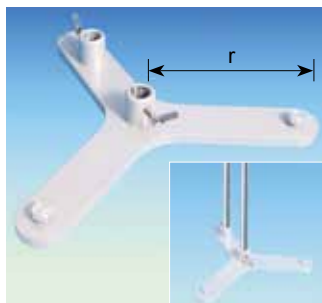
- DH.WHG02108 ① Dispersing Tool, "HT1008"
 DH.WHG02110 ② , "HT1010"
 DH.WHG02118 ③ , "HT1018"
 DH.WHG02125 ④ , "HT1025"

Ea. Price, ₩

(2) Clamp & Plate Stand

- SL.Cla8011 ⑤ Clamp, "CL200", for Stirrer or Homogenizer, L135mm, Cast Aluminum, Grip Capacity φ23mm for Stand/Rod
 DH.WOS501510 ⑥ Standard Plate Stand, "ST110", for Stirrer or Homogenizer, φ16×h800 mm Rod, w20×d35 cm Plate, with Silicone Pad
 DH.WOS501515 ⑦ Wide Plate Stand, "ST120", for Stirrer or Homogenizer, φ23×h1000 mm Rod, w30×d40 cm Plate, with Silicone Pad

Ea. Price, ₩



Steel Retort Base Duo Stand, up to φ 16mm Rods, for 2 Rods With Hinged Screw M6, Nonskid Feet equipped, Rod Excluded

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

Retort Stand, Only Stand Base

* Supplied by Usbeck® in Germany

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

Optional Stainless-steel Rod

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

Ea. Price, ₩

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

(1) Plain-type φ 16mm Rod, without Screw

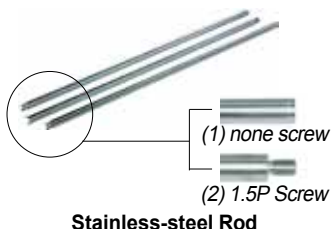
- DH.WOS502001 Stainless-steel Rod, "RD501", φ 16×h800mm , Non-screw
 DH.WOS502002 , "RD502", φ 16×h1000mm, Non-screw
 DH.WOS502003 , "RD503", φ 16×h1200mm, Non-screw
 DH.WOS502031 , "RD531", φ 23×h800mm , Non-screw
 DH.WOS502033 , "RD533", φ 23×h1200mm, Non-screw

Ea. Price, ₩

(2) 1.5P Screw-type φ 16 & 23mm Rod

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

Ea. Price, ₩



DAIHAN® Homogenizing Stirrer “HS-30E”, for Tissue Grinder, 200~5,000rpm Analog Phase Control, without Tissue Grinder, with Certi. & Traceability, 호모게나이저 스티러



Homogenizing Stirrer Package-Set “HS-30E”

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

Specifications & Ordering information

Spec.	Model	“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 × 145 × h180mm, 3.5 kg
Packing Size & Gross Weight		320 × 300 × h190mm, 5 kg
Power Consumption		75W
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz
Cat. No.	230V	DH.WOS01010
	120V	DH.WOS02010
Price, Each. ₩		
Component of Package-set		included “CL200” Clamp and “ST110” Stand-set(Rod, Plate)
Cat. No.	230V	DH.WOS01011
	120V	DH.WOS02011
Price, Each. ₩		

* Other Specifications are available upon Customer's Request.

※ **Note! The Package does not include a Tissue Grinder**

Cowie® Tissue Grinder, with PTFE Pestle Head · Borosilicate Glass Mortar, 2~50ml, Separately Good for Chemical/Heat Resistance, Standard- / Serrated-type PTFE Head Pestles, STS Pestle Rod is Perfect for Motor Drive, 티슈 그라인더



(3) Serrated-type Pestle

■ Supplied by Cowie® in U.K

- * Use for the Controlled Reduction of Particle Size and Homogenisation for a Variety of Substances, especially Biological Material.
- * The pestle head is pure PTFE and pestle rod Stainless-steel, ϕ 6.5mm
- * Pestle Length : 230~270mm * The Mortar is precision borosilicate glass.

(1) Glass Mortar, Borosilicate, 2~50ml

CW.011.102	Mortar, 2ml , ϕ 8 × L120mm
CW.011.105	, 5ml , ϕ 12 × L135mm
CW.011.110	, 10ml, ϕ 15 × L150mm
CW.011.115	, 15ml, ϕ 19 × L155mm
CW.011.130	, 30ml, ϕ 25 × L175mm
CW.011.150	, 50ml, ϕ 32 × L195mm

Ea. Price, ₩

(2) Standard-type Pestle

CW.011.202	Pestle, Standard-type, for 2ml , L230mm
CW.011.205	, for 5ml , L235mm
CW.011.210	, for 10ml, L270mm
CW.011.215	, for 15ml, L270mm
CW.011.230	, for 30ml, L270mm
CW.011.250	, for 50ml, L270mm

Ea. Price, ₩

(3) Serrated-type Pestle

CW.011.302	Pestle, Serrated-type, for 2ml , L230mm
CW.011.305	, for 5ml , L235mm
CW.011.310	, for 10ml, L270mm
CW.011.315	, for 15ml, L270mm
CW.011.330	, for 30ml, L270mm
CW.011.350	, for 50ml, L270mm

Ea. Price, ₩

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