

# SMART SCIENCE

Smart Science co.,ltd.

## Homogenizer

Price List 2023-2024



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**Benchmark** Scientific

 เลือกชม/สั่งซื้อสินค้า ออนไลน์ได้แล้ว

บริษัท สมาร์ท ไซเอนซ์ จำกัด

[www.smartscience.co.th](http://www.smartscience.co.th)

**SMART  
SCIENCE**  
Smart Science co.,ltd.

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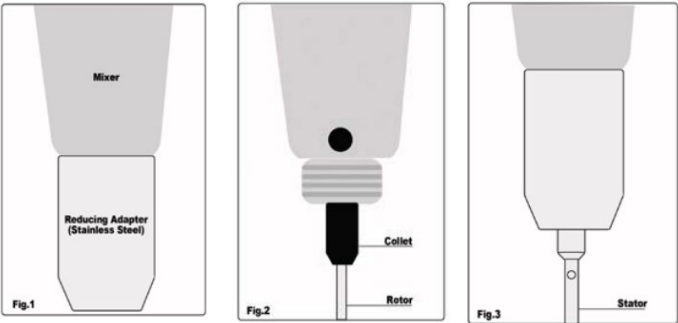


Handheld Homogenizer

(Ideal for microtubes)

Benchmark’s handheld homogenizer, the D1000, is designed to rapidly homogenize, emulsify, suspend and disrupt biological samples. Ideal for use with microtubes, the homogenizer works well with samples from 0.1ml to 250ml (depending upon the generator probe used).

The D1000 is a rotor stator homogenizer, and works by drawing the sample, in liquid, into the generator probe with the variable speed rotor, and then forcing it out through the slots in the stator. This achieves mechanical shearing of the sample. As the sample is repeatedly drawn up and forced through the stator, additional shearing takes place.



Specification

- Homogenize most samples in under 30 seconds
- For volumes from 100µl to 250ml
- Speed Range : 8500 to 30000rpm
- Noise Level : <70 db
- Operating Temp. Range : +4° to 65°C
- Dimensions : 1.9 x 2.3 x 9 in. / 4.5 x 5.8 x 22.5 cm
- Weight : 1.35 lbs / 0.62 kg



Ergonomic, “Slim-line” handle design

(# D1000-E) D1000 Homogenizer, includes 5mm and 7mm generators (ideal for microtubes)


[More information Click](#)

ราคา 70,250 บาท\*

Optional accessories


รหัสสินค้า	รายการ	ราคา* (บาท)
D1000-M5	Replacement generator pack, 5mm x 50mm for microtubes, pack of 5	36,390
D1000-M7	Replacement generator pack, 7mm x 50mm saw tooth for microtubes, pack of 5	38,650
D1000-M10	Optional generator, 10mm x 115mm saw tooth, for 15ml & 50ml tubes	21,690
D1000-M14	Optional generator 14mm x 130mm saw tooth, for 50ml tubes up to 250ml vessels	64,790
D1000-ST	Stand for D1000	29,050

D1000-M5 (5x50mm for microtubes) 5pk.




(1 Included)

D1000-M7 (7x50mm) 5pk.




(1 Included)

D1000-M10 (10 x 115mm for 15 to 50ml tubes) 1 ea.



D1000-M14 (14 x 130mm for 50 to 250ml tubes) 1 ea.





\* ราคายังไม่รวมภาษี 7%



## BeadBug™ 3 Microtube homogenizer

- Extremely powerful mixing for lysis, grinding or homogenization
- Faster and more effective than tissue grinders
- Homogenize 1, 2 or 3 tubes simultaneously
- Extremely compact, less than 7" wide
- Eliminates the cross contamination associated with handheld homogenizers
- Full range of beads in prefilled tubes and bulk available
- Speed Range : 2800 to 4000rpm
- Capacity : 3 x 2.0ml (Screw cap / non-skirted)
- Timer : 3 sec. to 3 min



Max. Capacity up to 3 x 2.0ml

(# D1030-E) include 2.0ml non-skirted Screw cap tubes with caps  
ราคา 53,250 บาท\*

More information [Click](#)  
Optional accessories next page

## BeadBug 6, Six Position Homogenizer

- Extremely powerful mixing for lysis, grinding or homogenization
- Faster and more effective than tissue grinders
- Homogenize up to 6 tubes simultaneously
- Extremely compact, less than 9" wide
- Eliminates the cross contamination associated with handheld homogenizers
- Full range of beads in prefilled tubes and bulk available
- Speed Range : 2500 to 4350rpm
- Capacity : 6 x 2.0ml (Screw cap / non-skirted)
- Timer : 1 sec. to 90 sec. with up to 10 cycles



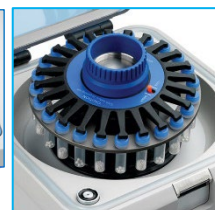
6 x 2.0ml Capacity

(# D1036-E) BeadBug 6, Six Position Homogenizer  
ราคา 142,150 บาท\*

More information [Click](#)  
Optional accessories next page

## BeadBlaster™ 24 Microtube homogenizer

- Fast, efficient homogenization in about 35 seconds
- For all sample types, from soft tissue to bone
- Mix up to 24 tubes simultaneously
- Sealed 2.0ml tubes – eliminates cross contamination
- Full range of beads in prefilled tubes and bulk available
- Speed Range : 2430 to 4260 rpm
- Capacity : 24 x 2.0ml
- Cycle Time : 1 to 90 sec. (up to 90 sec.)
- Pause between cycles : 0 to 2 min. (1 sec. increments)
- Accel./Decel Time : <2 sec. / <2 sec.



24 tube capacity

(# D2400-E) BeadBlaster™ Microtube homogenizer ราคา 545,490 บาท\*

More information [Click](#)  
Optional accessories next page

## BeadBlaster™ 24R Refrigerated Microtube Homogenizer

- High capacity – 24 x 2.0 ml
- Cooling function to protect temperature sensitive samples
- True refrigeration – no dry ice, liquid nitrogen or external connections
- Sealed 2.0ml tubes – eliminates cross contamination
- Full range of beads in prefilled tubes and bulk available
- Temperature range : -10°C to ambient
- Speed : 4.00 to 7.00 m/s, 0.05 increments
- Cycle Time : 1 to 90 sec. (up to 90 sec.)
- Pause between cycles : 0 to 2 min. (1 sec. increments)
- Accel./Decel Time : <4 sec. / <4 sec.



More information [Click](#)  
Optional accessories next page

(# D2400-R-E) BeadBlaster™ 24 Refrigerated Microtube Homogenizer ราคา 870,550 บาท\*

\* ราคายังไม่รวมภาษี 7%





รหัสสินค้า	รายการ	รุ่น	ราคา* (บาท)
<b>Pre-filled Tube Kits</b>			
D1031-01	Prefilled 2.0ml tubes, Silica (Glass) Beads, 0.1mm Acid Washed, 50pk	D1030-E, D2400-E, D2400-R-E	6,950
D1031-05	Prefilled 2.0ml tubes, Silica (Glass) Beads, 0.5mm Acid Washed, 50pk	D1030-E, D2400-E, D2400-R-E	6,950
D1031-10	Prefilled 2.0ml tubes, Silica (Glass) Beads, 1.0mm Acid Washed, 50pk	D1030-E, D2400-E, D2400-R-E	6,950
D1032-01	Prefilled 2.0ml tubes, Zirconium Beads, 0.1mm Triple-Pure - High Impact, 50pk	D1030-E, D1036-E, D2400-E, D2400-R-E	9,690
D1032-05	Prefilled 2.0ml tubes, Zirconium Beads, 0.5mm Triple-Pure - High Impact, 50pk	D1030-E, D1036-E, D2400-E, D2400-R-E	9,690
D1032-10	Prefilled 2.0ml tubes, Zirconium Beads, 1.0mm Triple-Pure - High Impact, 50pk	D1030-E, D1036-E, D2400-E, D2400-R-E	9,690
D1032-15	Prefilled 2.0ml tubes, Zirconium Beads, 1.5mm Triple-Pure - High Impact, 50pk	D1030-E, D1036-E, D2400-E, D2400-R-E	9,690
D1032-30	Prefilled 2.0ml tubes, Zirconium Beads, 3.0mm Triple-Pure - High Impact, 50pk	D1030-E, D1036-E, D2400-E, D2400-R-E	9,690
D1032-60	Prefilled 2.0ml tubes, 6 mm Ceria Based Zirconium Oxide Satellite, 50pk	D1036-E, D2400-R-E	9,690
D1034-MX	Prefilled 2.0ml tubes, 0.1mm Silica, 1.4 mm Zirconium & 4mm Silica Beads, 50pk	D1036-E, D2400-R-E	9,690
D1032-SK	Prefilled - Triple-Pure Starter Kit, 10 each of 0.1, 0.5, 1.0, 1.5 and 3.0mm	D1030-E, D2400-E, D2400-R-E	9,690
D1033-28	Prefilled 2.0ml tubes, Stainless Steel, 2.8mm Acid Washed, 50pk	D1030-E, D1036-E, D2400-E, D2400-R-E	9,690
D1033-30G	Prefilled 2.0ml tubes, Garnet Shards and one 6 mm Zirconium Bead, 50pk	D2400-R-E	9,690
D1034-28	Prefilled 5.0ml tubes, Stainless Steel beads, 2.8mm Acid Washed, 50pk	D1036-E, D2400-E, D2400-R-E	12,950
<b>Pre-filled Tube and Bulk Bead</b>			
D1131-01	Bulk Beads, Silica (glass), 0.1mm, acid washed, 200g (For gram positive and negative bacteria)		13,150
D1131-05	Bulk Beads, Silica (glass), 0.5mm, acid washed, 200g (For bacteria, fungi, spores, molds and small yeasts)		13,150
D1131-10	Bulk Beads, Silica (glass), 1.0mm acid washed, 200g (For fungi, spores, algae and larger yeasts)		13,150
D1132-01TP	Bulk Beads, Zirconium, 0.1mm, Triple-Pure Molecular Biology Grade, 250g (For gram positive and negative bacteria)		26,250
D1132-05TP	Bulk Beads, Zirconium, 0.5mm, Triple-Pure Molecular Biology Grade, 250g (For bacteria, fungi, spores, molds and small yeasts)		26,250
D1132-10TP	Bulk Beads, Zirconium, 1.0mm, Triple-Pure Molecular Biology Grade, 250g (For fungi, spores, algae and larger yeasts)		26,250
D1132-15TP	Bulk Beads, Zirconium, 1.5mm, Triple-Pure Molecular Biology Grade, 250g (For soft tissues such as adipose and liver, small insects)		26,250
D1132-30TP	Bulk Beads, Zirconium, 3.0mm, Triple-Pure Molecular Biology Grade, 300g (For harder tissues such as heart and lung, tumor samples)		26,250
D1133-28	Bulk Beads, Stainless Steel, 2.8mm, acid washed, 1,000/pk (For harder samples as well as dry grinding)		26,250
D1134-50	50 Bulk Beads, Stainless Steel, 5mm, alcohol washed, 1000/pk (For harder samples as well as dry grinding)		26,250
D1132-60	Bulk Beads, 6 mm Zirconium Oxide, Ceria Stabilized, 50/pk ( For very hard tissues such as seeds, dry grinding, hair)		2,250
D1133-G	Garnet shards, bulk, acid washed, 250g bottle (for samples that need to be torn)		13,450
<b>Empty Tube</b>			
D1031-T21	Tubes (empty) pack of 50 with caps and sealing ring	D1030-E, D2400-E	2,590
D1031-RFS	2ml tube, reinforced, with screw cap, skirted (not for BeadBug 3), pk/600	D1036-E	17,150
C1005-SC5	5ml Screw Cap Tubes, non-sterile, w/ caps packed separately, pk/500 ( 5 bags /100)	D1036-E	4,490
C1005-SC5-S	5ml Screw Cap Tubes, Sterile with caps attached, 50 per rack, (500 total)	D1036-E	5,090



Standard Glass beads (Acid Washed)



Triple-Pure™ (Molecular Biology Grade) Zirconium Beads



D1031-T21



Bulk Bead



D1031-RFS

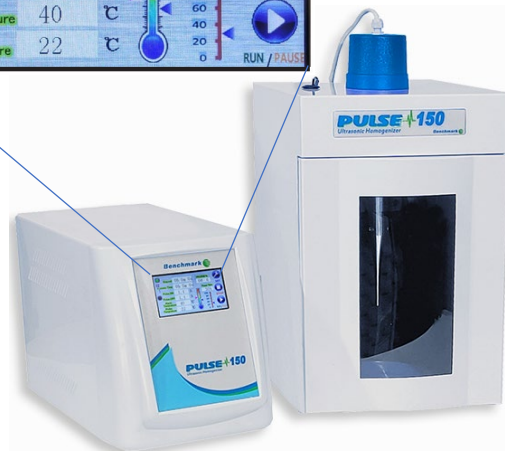
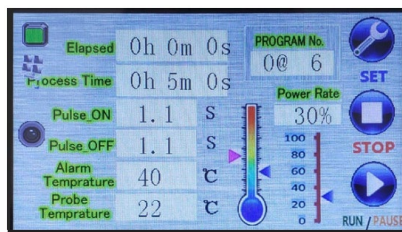


## Pulse 150™ Ultrasonic Homogenizer

The Pulse 150™ Ultrasonic Homogenizer uses cavitation and ultrasonic waves to break cells in suspension, shear DNA and prepare samples for ChIP assays. With up to 150 watts of power, the unit can process samples from 0.1 ml to 150 ml (with the appropriate horn).

### Specification

- Ideal for cell disruption, DNA shearing and ChIP assays
- Programmable with touch screen control and pulsed operation
- Power 150W, for volumes 0.1 to 150 ml (requires appropriate horn)
- Frequency : 20 - 25 KHz
- Cycle time (pulse on/off) : 0.1 - 99.9 sec
- Timer : 1 sec - 99 hours, 59 min, 59 sec
- Alarms : No load, over load, end of run, over temperature
- Volume\* : 0.1 - 150 ml
- \*Volume dependent upon the installed horn. Supplied with 6mm horn for volumes 10 - 100 ml.



(# DP0150-E) Pulse 150™ Ultrasonic Homogenizer with 6mm horn and soundproof box  
ราคา 186,150 บาท\*

[More information Click](#)

### Optional accessories

รหัสสินค้า	รายการ	ราคา* (บาท)
DP0150-2	Horn, 2mm diameter, for 0.1-5ml, fits DP0150	17,190
DP0150-3	Horn, 3mm diameter, for 3-10ml, fits DP0150	17,190
DP0150-6	Horn, 6mm diameter, for 10-100ml, fits DP0150	17,190
DP0150-8	Horn, 8mm diameter, for 25-150ml, fits DP0150	17,190

Horn				
Horn size	2mm	3mm	6mm*	8mm
Process capacity	0.1 - 5ml	3-10ml	10-100ml	20-150ml
Power ratio	1 - 45%	1 - 55%	1 - 75%	1 - 90%

## BENCHMASHER™ 400

The BenchMasher™ provides fast and effective mixing, ensuring consistent homogenization. It is ideal for preparation of samples where eliminating contamination is critical, such as pathogen and microbial detection in food and water filters. The BenchMasher also has applications anywhere larger solid samples need broken down or products such as powders and polymers need mixed.

### Specification

- Touch screen control with variable mixing speed and temperature control
- Adjustable stroke length to accommodate samples of various types
- Window for sample visualization
- Built in UV light for chamber decontamination
- Capacity : 3 to 400ml
- Temperature range : Ambient to 65°C
- Timer : 1 sec. to 100 min. or continuous
- Speed : 3 to 12 SPS (strokes per second)
- Bag Size : 16-18cm (W) x 25-30cm (H)
- UV Bulb : 254nm

Thorough sample homogenization



[More information Click](#)

### Optional accessories

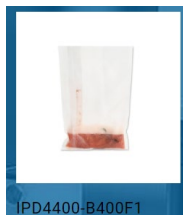
(# IPD4400) BenchMasher™ 400 Paddle Blender ราคา 287,890 บาท\*



BLENDER BAG, 400ML X 60MM, 300 X 180CM, 500PK (10 PACKS OF 50)

IPD4400-B400

ราคา 4,850 บาท\*



BLENDER BAG, 400ML X 60MM, 300 X 180CM, 500PK (10 PACKS OF 50)

IPD4400-B400F1

ราคา 21,150 บาท\*



BLENDER BAG, 400ML X 70MM WITH FULL NYLON FILTER, 300 X 190MM, 500PK (10 PACKS OF 50)

IPD4400-B400F2

ราคา 26,050 บาท\*



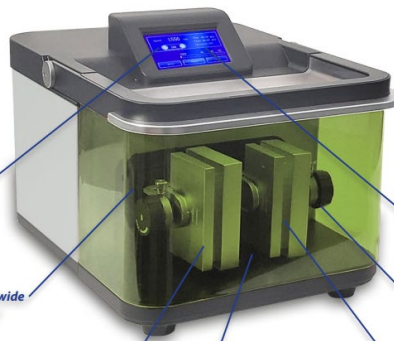
**BeadBlaster™ 96 Ball Mill omogenizer****Specification**

- Wet, dry or cryogrinding
- Accepts a variety of tubes, plates and jars
- Large, digital touch screen control panel
- See-through safety lid
- Speed range : 180 to 1800rpm
- Ambient operating temp. : 4°C to 40°C
- Cycle duration : 1 sec to 59 min: 59 sec
- Pause : 1 sec to 59 min: 59 sec
- Feed size : <10mm
- Final fineness\* : <5µm

(\*Dependent on sample material and grinding configuration)



Large, touchscreen control panel



Powerful brushless motor and wide arcing motion for quick results



Precise, digital control for reproducible results

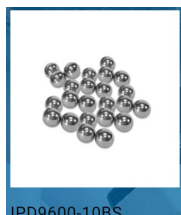
Easy to use - no complicated training

Cryogrinding accessories available

Accepts deepwell plates and tubes from 0.2ml to 50ml (adapters and jars sold separately)

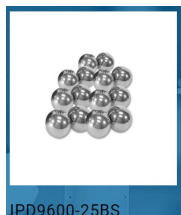
See-through safety lid

(# IPD9600) BeadBlaster™ 96 Ball Mill omogenizer for plates, tubes and jars  
 ราคา 738,450 บาท\*

[More information Click](#)**Optional accessories**

IPD9600-10BS  
 10MM STAINLESS STEEL GRINDING BALLS, 500G

ราคา 6,350 บาท\*



IPD9600-25BS  
 25MM STAINLESS STEEL GRINDING BALL

ราคา 3,450 บาท\*



IPD9600-25S  
 STAINLESS STEEL GRINDING JAR, 25ML, SET OF 2

ราคา 148,250 บาท\*



IPD9600-50S  
 STAINLESS STEEL GRINDING JAR, 50ML, SET OF 2

ราคา 179,150 บาท\*



IPD9600-25TC  
 25ML GRINDING JAR, TUNGSTEN CARBIDE, PACK OF 2

ราคา 312,890 บาท\*



IPD9600-50T  
 ADAPTER FOR 4X50ML TUBES, SET OF 2

ราคา 119,750 บาท\*



IPD9600-35ZO  
 ZIRCONIUM OXIDE JAR 35ML, SET OF 2

ราคา 312,890 บาท\*



IPD9600-4PE  
 4ML POLYETHYLENE VIAL WITH LINED CAP, BAG OF 240, FOR USE WITH 3/8" SS GRINDING BALL

ราคา 17,950 บาท\*



IPD9600-4PC  
 4ML POLYCARBONATE VIAL, BAG OF 240, FOR USE WITH 3/8" SS GRINDING BALL

ราคา 17,950 บาท\*



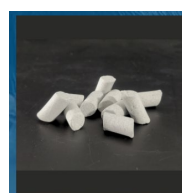
IPD1196-MP  
 96 DEEP SQUARE WELL 2.0ML POLYETHYLENE TOUGHENED GENOMICS PLATE

ราคา 6,050 บาท\*



IPD9600-BD28  
 96 WELL BALL DROPPER FOR 2.8MM BALLS

ราคา 34,550 บาท\*



IPD9600-3878-1  
 CERAMIC GRINDING BARS 3/8X5/8, 45°, ANGLED MEDIUM CERAMIC HOMOGENIZERS PACK OF 100

ราคา 2,450 บาท\*



IPD9600-1520  
 ADAPTER FOR 40X2ML TUBES, SET OF 2, ALUMINUM, REQUIRES IPD9600-96

ราคา 312,890 บาท\*



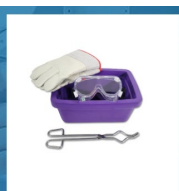
IPD9600-96  
 ADAPTER FOR 96 WELL PLATE, SET OF 2

ราคา 82,290 บาท\*



IPD9600-96A2  
 TUBE RACK FOR 96 WELL ADAPTER 20 X 2.0ML, PACK OF 2

ราคา 34,390 บาท\*



IPD9600-CK  
 CRYO KIT, CONTAINS BUCKET, GLOVES, GOGGLES AND TONGS

ราคา 6,050 บาท\*



IPD1196-40  
 96 WELL PLATE, PREFILLED WITH 4MM BEADS, PACK OF 10

ราคา 127,650 บาท\*

