

Infitek

HOMOGENIZER



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VERSION.2023

Homogenizer

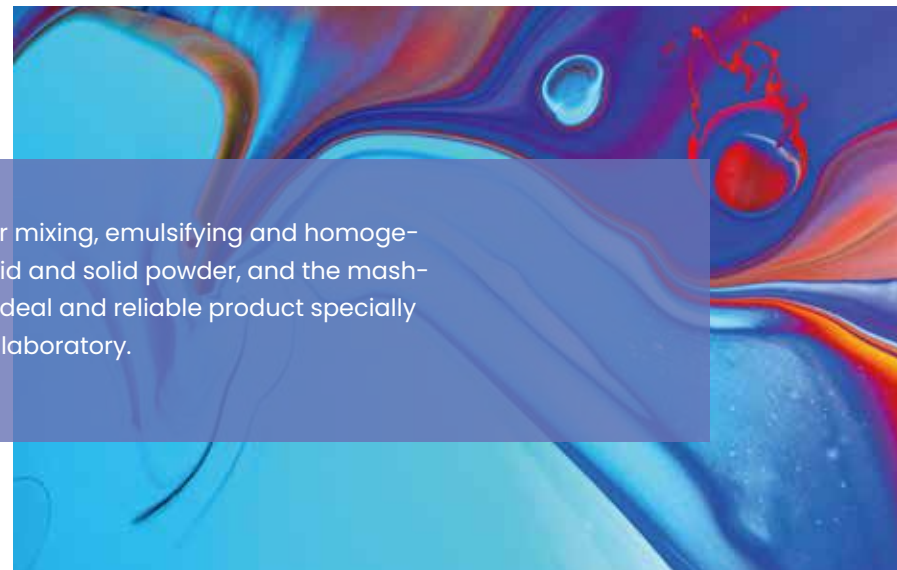
HMG-6



Note:
The machine can not be operated for a long time and needs to be used intermittently.

Application

HMG-6/HMG-6B product is suitable for mixing, emulsifying and homogenizing between liquids, dispersing liquid and solid powder, and the mashing and pulping of tissue cells. It is an ideal and reliable product specially designed for micro-processing in the laboratory.



It can be used in pharmaceutical, biochemical, food, nanomaterial, coatings, adhesives, daily chemicals, printing and dyeing, petrochemicals, paper chemistry, polyurethane, inorganic salts, asphalt, organic silicon, pesticides, water treatment, heavy oil emulsification, diesel emulsification, electronics, batteries and other industries.

It is also an ideal product for applications in scientific research, product development, quality control and production processes in factories, scientific research institutions, colleges, and medical institutions.

Features



One-handed control, humanized operation, exquisite motor contains super power, and the experimental effect is more ideal



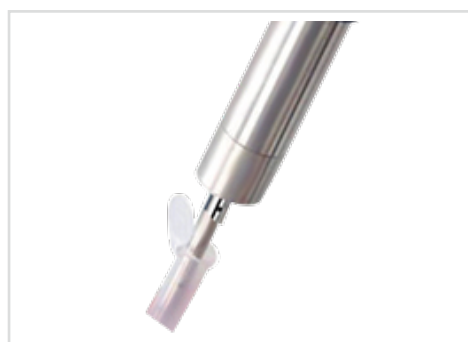
Double insulation protection to ensure safety



The speed regulating base adopts stepless speed regulator, which is convenient for speed regulation and stable operation.



The working head is connected with the driving motor by coupling, which is simple and flexible



All parts of the working head contacting materials are made of high-quality stainless steel with good corrosion resistance




Specifications

Model	HMG-6
Range of rotation	5000-35000r/min
Processing capacity	0.5-250ml (H2O)
Standard working head	10G
Processing viscosity	5500mPa·s
Power	160W
Rotation speed control	7-speed
Contact material material	SUS304
Material of shaft sleeve entering material part	PTFE
Allowable relative humidity	80%
Type of working procedure	Micro-batch processing
Weight	1kg
Power supply	220V 50HZ
Optional working head configuration	6G,8G,10G
Optional bracket	Single column bracket

Packing list

Name	Quantity
Host	1
Tool bit	1
Warranty Card (including Qualified Certificate)	1
Manual	1

Optional tool bit

Tool bit	Specif-ication	Processing capacity (ml)	Viscosity (cp)	Linear velocity(m/s)	Length of tool bit (mm)	Diameter of tool bit(mm)
	6G	0.5-50	100	5	115	6
	8G	1-100	500	8	150	8
	10G	5-250	2000	10	200	10

Homogenizer

HMG-160



Features



Ideal for manual operation due to its light weight and ergonomic design.



Processing range: 0.1-50mL or 1-250mL.



316L stainless steel shafts are fully autoclavable and inert for highly corrosive solutions.



All shafts are interchangeable for easy dismantling and cleaning.



Speed from 8,000rpm to 32,000 rpm.

Description

The sample is cyclically introduced into the narrow space between the stator and rotor moving relatively at high speed, and is rapidly sheared and broken. Tissues like muscle, liver, breast, etc. can be completely homogenized in 10-30 seconds.

It can be used in biopharmaceuticals, genetic research, tissue fragmentation, cytoplasmization, pathological analysis, oil-water emulsification, nanomaterial dispersion, dairy homogenization, polymerization, daily cosmetics, ink coatings, fine chemicals, pesticides, prospecting, environmental protection, energy and other fields.

Specifications

Model	HMG-160
Power Supply	110V-120V/60Hz 220-240V/ 0-60 Hz
Motor Type	Universal motor
Motor Power	160 W AC carbon brush motor
Speed Range	8000rpm-32000rpm
Max. Circum. Speed	6.3-14m/sec
Speed Control	Dial knob
Working Volume (H ₂ O)	0.1-50mL (Dispersing shaft DS-160/5) 1-250mL (Dispersing shaft DS-160/10)
Max. Viscosity	5,000mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE
Weight	0.54 kg
Dimension (L×W×H)	45mm×55mm×190mm
Noise	72 dB(A)
Operating Environment	0-40 C, 85% rel. humidity
Protection Class	IP20

Combination

Cat. No.	Function	Treatable Volume (refer to water)
18900543	dispersing tool for solid/liquid media	0.1-50ml
18900544	dispersing tool for solid/liquid media	1-250ml

Cat. No.
18900543



Volume 0.1-50ml
Max. Circum. Speed 6.3m/sec
Material: 316L
Application: small amounts of solid-liquid mixed

Cat. No.
18900544



Volume 1-250mL
Max. Circum. Speed 14m/sec
Material: 316L
Application: small amounts of solid-liquid mixed

Homogenizer, Digital Benchtop Type

LC-8 LC-9 LC-H11L



Aseptic homogenizer, also known as beating homogenizer, is widely used in homogenization treatment of animal tissues and biological samples.

It can be used in food, drug, cosmetics, clinical, molecular, toxin and bacterial detection fields, especially for the preparation of microbial test samples.



Features



The device can effectively separate the surface of solid sample and the microorganisms contained in it. The sample is packed in a disposable sterile homogenization bag without contacting with the instrument.



It meets the requirements of fast, accurate results and good repeatability.

It has the characteristics of soft homogenization, no pollution, no damage, no temperature rise, no sterilization and no washing of utensils.

This product is also suitable for homogenization of tumor tissues (such as liver cancer, colorectal cancer, gastric cancer and breast cancer). It can not only obtain a large number of single cells (up to 2×10^5 in 2 minutes). If necessary, it can extend the homogenization time and accelerate the homogenization speed, so as to achieve soft fragmentation of tissue cells (such as liver, etc.).

Specifications

Model	LC-11L (Heating sterilization type)	LC-9 (Sterile type)	LC-8 (Standard type)
Control mode	Microcomputer control	Microcomputer control	Microcomputer control
Parameter storage	8-segment combination programming	8-segment combination programming	8-segment combination programming
Display mode	4.3 inch touch screen display	4.3 inch touch screen display	4.3 inch touch screen display
Operation mode	touch screen	touch screen	touch screen
Slap	1s-99H59M59S	1s-99H59M59S	1s-99H59M59S
Time	or continuous operation	or continuous operation	or continuous operation
Clapper Material	Stainless steel with special extrusion protective cover	Stainless steel with special extrusion protective cover	Stainless steel with special extrusion protective cover
Slap speed	3-12 times / S	3-12 times / S	3-12 times / S
Heating function	Yes	-	-
Temperature range	Room temperature - 80 C	-	-
Disinfection function	Yes,the disinfection wavelength is 253.7nm	Y,the disinfection wavelength is 253.7nm	-
Effective volume	3~400ml	3~400ml	3~400ml
Aseptic bag size	17*30cm	17*30cm	17*30cm
Tank body	Stainless steel with anticorrosive plastic spraying	Stainless steel with anticorrosive plastic spraying	Stainless steel with anticorrosive plastic spraying
Slap spacing	0~50mm	0~50mm	0~50mm
Startup mode	slow-start	slow-start	slow-start
Pause function	Yes	Yes	Yes
Power	220V/500W	220V/220W	220V/200W
Anti pinch function	With automatic stop anti pinch function	With automatic stop anti pinch function	With automatic stop anti pinch function
Other function	Removable window with terpering glass	Removable window with terpering glass	Removable window with terpering glass
Voice prompt function	Yes	Yes	Yes
Size	420*230*330mm	420*230*330mm	420*230*330mm
Weight (net weight)	19KG	18.5KG	18KG
Outer package size	540*310*410	540*310*410	540*310*410

Homogenizer

HMG-6B

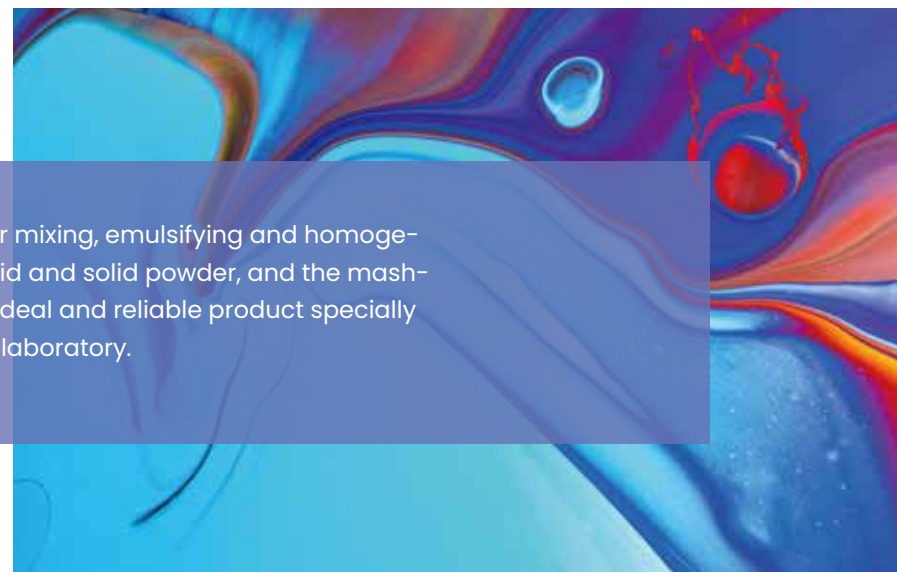


(Optional bracket)

Note:
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Application

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It can be used in pharmaceutical, biochemical, food, nanomaterial, coatings, adhesives, daily chemicals, printing and dyeing, petrochemicals, paper chemistry, polyurethane, inorganic salts, asphalt, organic silicon, pesticides, water treatment, heavy oil emulsification, diesel emulsification, electronics, batteries and other industries.

It is also an ideal product for applications in scientific research, product development, quality control and production processes in factories, scientific research institutions, colleges, and medical institutions.

Features



One-handed control, humanized operation, exquisite motor contains super power, and the experimental effect is more ideal



Double insulation protection to ensure safety



The speed regulating base adopts stepless speed regulator, which is convenient for speed regulation and stable operation.



The working head is connected with the driving motor by coupling, which is simple and flexible



All parts of the working head contacting materials are made of high-quality stainless steel with good corrosion resistance







Specifications

Model	HMG-6B
Range of rotation	1000-35000r/min
Processing capacity	2-150ml (H ₂ O)
Standard working head	10G
Processing viscosity	5000mpas
Power	120W
Rotation speed control	6-speed
Contact material material	SUS316
Material of shaft sleeve entering material part	PTEE
Allowable relative humidity	80%
Type of working procedure	Micro-batch processing
Weight	0.6kg
Power supply	220V 50HZ
Optional working head configuration	HR-6G HR-8G HR-6GST HR-8GST HR-10GST
Optional bracket	Single column bracket

Packing list

Name	Quantity
Host	1
Tool bit	1
Warranty Card (including Qualified Certificate)	1
Manual	1

Optional tool bit

Tool bit	Specif-ication	Processing capacity (ml)	Viscosity (cp)	Linear velocity(m/s)	Length of tool bit (mm)	Diameter of tool bit(mm)
	6G	2-50	100	5	125	6
	8G	10-60	500	8	150	8
	10G	30-150	2000	10	185	10
	6G-ST	0.2-50	100	5	125	6
	8G-ST	10-60	500	8	150	8
	10G-ST	30-150	2000	10	185	10

High speed dispersing homogenizer

DH-1500



Features



All parts of the working head contacting materials are made of high-quality stainless steel with good corrosion resistance.



Speed governor base adopts stepless governor, convenient speed control and stable operation.



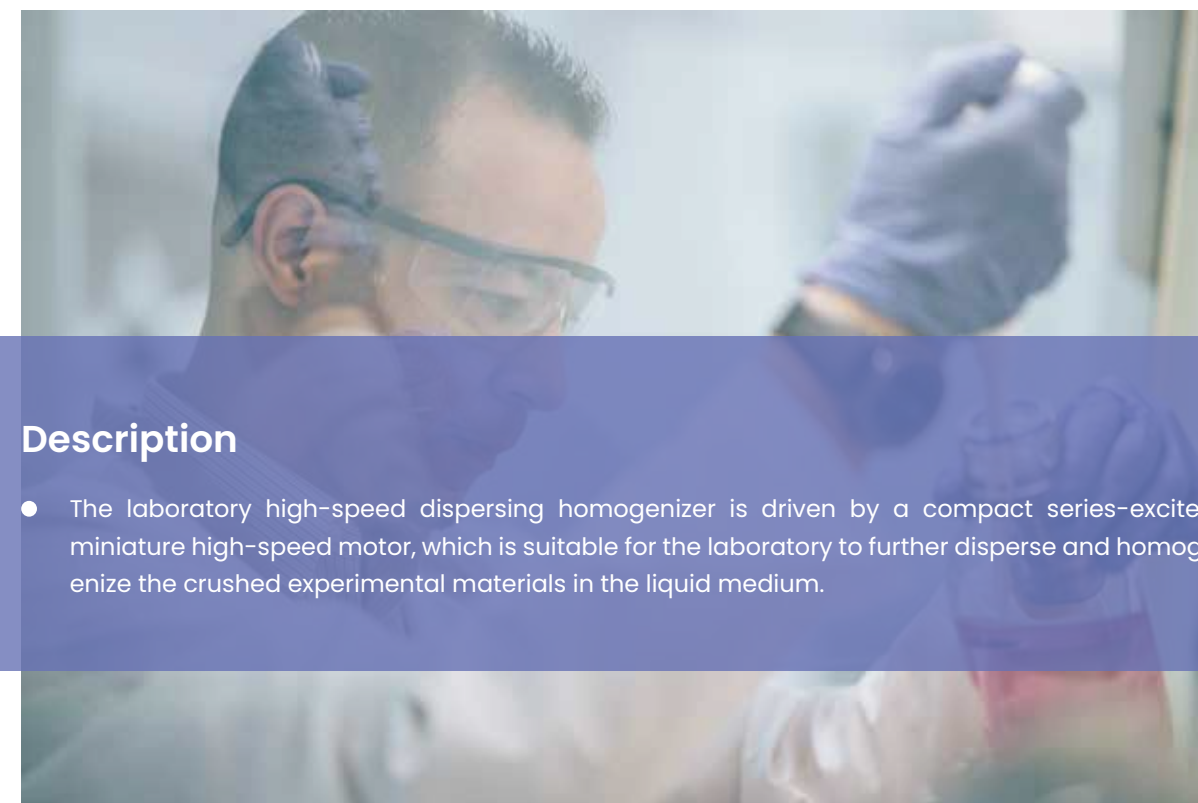
The drive motor adopts a series-excited micro motor with high output power and compact structure, and the design is safe and reliable.



The working head is connected with the drive motor by a coupling, which is easy to disassemble and assemble.



Note:
The machine can not be operated for a long time and needs to be used intermittently.



Description

- The laboratory high-speed dispersing homogenizer is driven by a compact series-excited miniature high-speed motor, which is suitable for the laboratory to further disperse and homogenize the crushed experimental materials in the liquid medium.

Specifications

Model	DH-1500
Range of rotation	300-23000r/min
Processing capacity	30-1500ml
Input power	280W
Output power	200W
Electricity	AC 220V/50 Hz
Rated torque	68N.cm
Working head configuration	φ12 mm φ18mm
Mode of operation	Intermittent
Dimensions	250x350x600mm

Homogenizer

HMG-Q250



Features



Innovative product design and advanced technology.



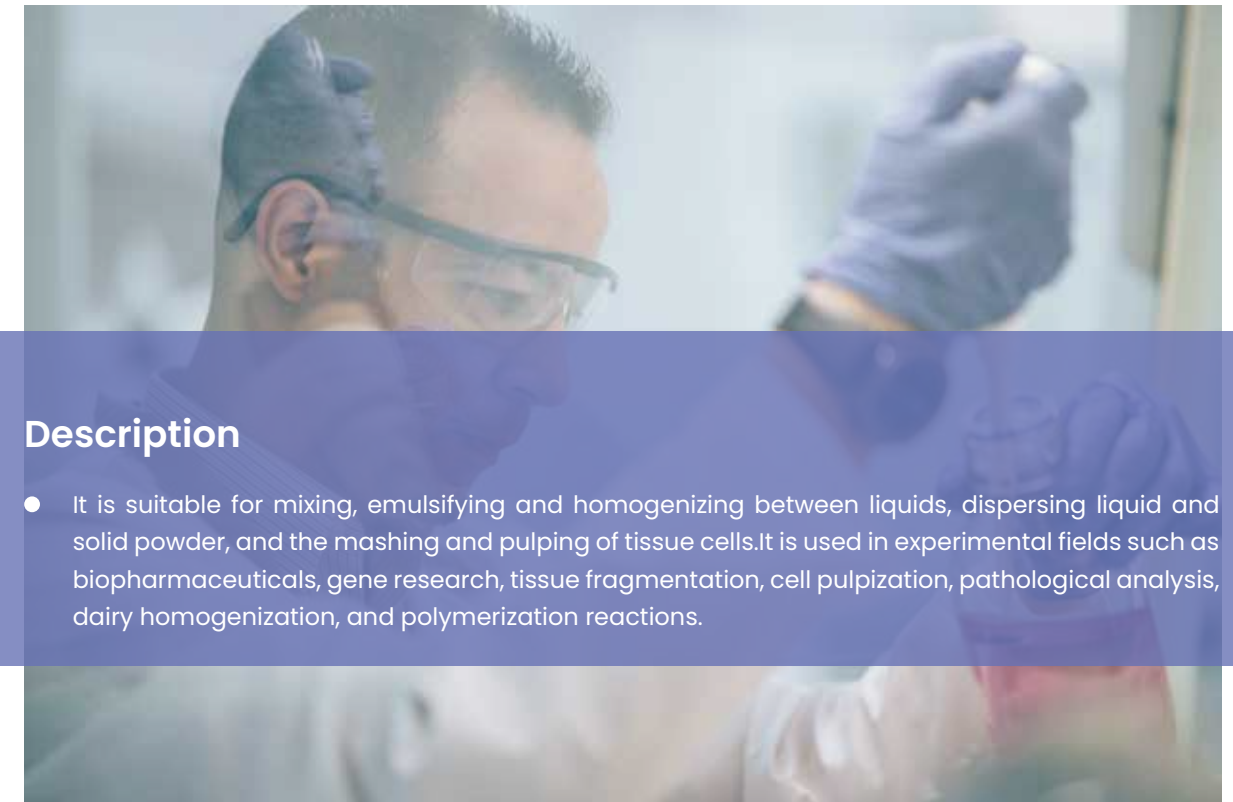
Large output power, high running speed, and simple experimental operation.



The unique function of stepless speed regulation to control the running state enables the equipment to arbitrarily choose the experimental running speed within the speed range.



The unique structure of the ultra-fine homogenate working head ensures that the rotor of the working head has a high linear speed under the high-speed drive of the motor, resulting in strong liquid shearing force and severe high-frequency mechanical effect.



Description

- It is suitable for mixing, emulsifying and homogenizing between liquids, dispersing liquid and solid powder, and the mashing and pulping of tissue cells. It is used in experimental fields such as biopharmaceuticals, gene research, tissue fragmentation, cell pulping, pathological analysis, dairy homogenization, and polymerization reactions.

Specifications

Model	HMG-Q250
Speed	8000-30000rpm
Processing capacity	0.2-250ml
Standard working head	10mm
Speed regulation mode	6-speed stepless speed regulation
Contact material material	316L
Material of shaft sleeve immersed in liquid	PTFE
Electricity	220V/50Hz
Power	180W
Fitting specification of working head	φ6mm/φ8mm/φ10mm
Weight	6.5kg (including support)
External dimension(W*D*H)	380*380*165mm(including support)
Optional accessories	Flat support, German cross clip, Ring hoop, Working head(φ6mm/φ8mm)