

X2000 batch disperser, 600W motor, compact and exquisite design, wide speed range of 3,500–30,000 rpm, Volume Range from 0.5ml to 4,500ml sample liquid. Equipped with a load constant speed and overheat protection system, it can efficiently, safely and reliably complete operations such as dispersion, homogenization, emulsification and mixing, and ensure the high repeatability of experimental results. It is a classic device in the fields of laboratory analysis, quality control and sample preparation.

X2000 Batch Disperser

Compact Design | Precise Constant Speed | Laboratory Benchmark



Outstanding Quality

- High-performance motor, powerful, efficient and more durable
- Low excitation impedance, low heat generation during long-term operation
- Compact structure and light weight, only 1.3 kg

Speed

- Wide speed range for low & high-speed homogenization
- Load constant speed technology, which automatically adjusts according to the sample viscosity to maintain a constant rotational speed

Safety

- Soft start ensures smooth start-up and motor protection
- PTC temperature monitoring, motor overheat protection, safe and reliable
- LED carbon brush indicator light, intelligent warning prompt for excessive wear limit
- ClickLock quick-plug interface makes it convenient and fast to install tools

Dispersion Tools

- 50 types of tools to meet the needs of diverse samples (standard /serrated /fiber /turbulent /emulsified , etc.)
- Specially made Polyflon™ PTFE shaft sleeve, excellent wear resistance and chemical stability
- Resistant to chemical, steam and dry heat sterilization

Quality Assurance

- CE certification; 3-year warranty

Batch Dispenser | X2000



Project Name	Technical Data
Model	X2000
Order Number	22263.02
Drive Motor	Carbon Brush
Input/Output Power	600/380W
Speed Range	3500~30000rpm; 6th Gear
Speed Display	Scale Indication
Governor	Microprocessor
Soft Start	Support
Overheat Protection	Support
Overload Protection	Support
Volume range(H ₂ O)	0.5~4500ml
Maximum Viscosity	5000mPa.s
Maximum Line Speed	26m/s
Blade Diameter	Ø 5, 7, 10, 12, 14, 18, 20, 25mm
No-load Noise	78dB (A)
Sample-contacting Material	AISI 316L/PTFE
Contact with Sample Solution PH	2~13
Processing Type*	Batch/Continuous Type
Arm Diameter	Ø 13mm
Arm Length	210mm
Dimensions (Driver)	56 × 62 × 255mm
Weight	1.3kg
Working Environment	5~40°C, ≤85%RH
Rated Voltage	AC 220~240V, 50/60Hz
Protection Level	IP 20

*Optional flow device: continuous sample processing



Pharmaceuticals



Biology



Food



Chemical Coatings



Daily Chemicals



New Material



New Energy

Batch Dispenser | X2000

Standard Type S

Special geometric stator, paddle/double-toothed blade rotor, large vortex, uniform sample dispersion. Applicable to shearing, dispersing, dissolving, mixing and homogenizing most samples.

Order No.	Model	Diameter/Length	Volume Range
130511	T5S	Ø 5mm/80mm	0.5~10ml
130711	T7S	Ø 7.8mm/110mm	0.5~50ml
131011	T10S	Ø 10mm/120mm	1~100ml
131211	T12S	Ø 12mm/120mm	1.5~200ml
131411	T14S	Ø 14mm/160mm	5~500ml
131811	T18S	Ø 18mm/160mm	10~1500ml
232071	CT20/S20S	Ø 20mm/190mm	10~2000ml
232571	CT20/S25S	Ø 25mm/190mm	15~2500ml



Serrated Type W

Sawtooth and slotted stator, double-toothed blade rotor, high shear force. Applicable to shearing, dispersion, mixing and homogenization of most samples, especially animal and plant tissues and fine fiber samples.

Order No.	Model	Diameter/Length	Volume Range
130521	T5W	Ø 5mm/80mm	0.5~5ml
130721	T7W	Ø 7.8mm/110mm	0.5~50ml
131021	T10W	Ø 10mm/120mm	1~100ml
131221	T12W	Ø 12mm/120mm	1.5~200ml
131421	T14W	Ø 14mm/160mm	5~500ml
131821	T18W	Ø 18mm/160mm	10~1500ml
232073	CT20/S20W	Ø 20mm/190mm	10~2000ml
232573	CT20/S25W	Ø 25mm/190mm	15~2500ml



Pre-cut Type W+

The stator adopts a serrated and strip-shaped hole design, and the double-tooth rotor protrudes, providing a large shear force. Applicable to crushing, shearing, mixing and component extraction of animal, plant, fiber and large particle samples with diameters larger than the rotor.

Order No.	Model	Diameter/Length	Volume Range
232074	CT20/S20W+	Ø 20mm/195mm	10~2000ml
232574	CT20/S25W+	Ø 25mm/195mm	15~2500ml



Fiber Type F

"V"-tooth stator prevents soft/filamentous fibers entangling in dispersion tools. Suits shearing/homogenizing high-fiber samples, stirring/mixing/dissolving high-viscosity ones.

Order No.	Model	Diameter/Length	Volume Range
131431	T14F	Ø 14mm/160mm	5~500ml
131831	T18F	Ø 18mm/160mm	10~1500ml
232075	CT20/S20F	Ø 20mm/190mm	10~2000ml
232575	CT20/S25F	Ø 25mm/190mm	15~2500ml



Emulsified Type E

Single/multi-row tooth stators & multi-tooth rotors, finer shearing, smaller droplets. Applicable to the dispersion, dissolution, mixing, emulsification and homogenization of low-viscosity fine particle solutions. Especially the oil-water mixture, uniform distribution and long-term stability.

Order No.	Model	Diameter/Length	Volume Range
232078	CT20/S20E	Ø 20mm/190mm	10~2000ml
232578	CT20/S25E	Ø 25mm/190mm	15~2500ml



Turbulent Type M

Fluid mechanics design, stator inclined holes and moving blades form good vortices, efficient heat transfer, low shear and heat. Quickly remove foam and supernatant particles. Applicable to mixing and dissolving medium and high viscosity samples.

Order No.	Model	Diameter/Length	Volume Range
131441	T14M	Ø 14mm/160mm	5~600ml
131841	T18M	Ø 18mm/160mm	10~1800ml
232079	CT20/S20M	Ø 20mm/190mm	10~3500ml
232579	CT20/S25M	Ø 25mm/190mm	15~4500ml



Honeycomb Type H

It adopts a biomimetic honeycomb-shaped design, composed of multiple precise unit holes, which increases the dispersion area. It can generate a strong fluid effect, forming a dense shear zone, enabling the samples to reach a uniform dispersion state within a short period of time. It is suitable for the pre-treatment of most samples, and is particularly suitable for the dispersion treatment of samples with medium to high viscosity, agglomerated particles, and multiphase mixtures.

Order No.	Model	Diameter/Length	Volume Range
232592	CT20/S25H	Ø 25mm/220mm	400~5000ml
233092	CT20/S30H	Ø 30mm/220mm	500~7000ml



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Dissolved Type D

Flat plate serrated rotor: During rotation, there is edge turbulence. High-speed shearing crushing, dispersion, influence. Applicable to rapid mixing, dissolution, dispersion and refining of medium and high viscosity materials.

Order No.	Model	Diameter/Length	Volume Range*
232091	CT20/S20D	Ø 20mm/200mm	250~2000ml
232591	CT20/S25D	Ø 25mm/200mm	350~4000ml
233091	CT20/S30D	Ø 30mm/200mm	500~6000ml
233591	CT20/S35D	Ø 35mm/200mm	600~8000ml

*The volume range is based on low-viscosity samples. For rotor diameter selection, please refer to the "Selection Table for Dissolved Type".



Broken Type K

Four-edge cross design (2-up/2-down), sharp edges, high-speed cutting, crushing, stirring and mixing. Applicable to strong crushing and homogenization of block and large particle samples. And it can efficiently mix liquid-liquid, dissolve and destroy cells.

Order No.	Model	Diameter/Length	Volume Range
233590	CT20/S35K	Ø 35mm/215mm	200~1000ml
235690	CT20/S56K	Ø 56mm/215mm	200~2000ml



Drive Units

Order Number	Description
22263.02	X2000 drive units, AC230V, 50/60Hz, 600W; includes main unit, arm, wrench, manual, warranty card, certificate



Standard Set

Order Number	Description
21205.02	X2000 drive units, T14W serrated tool, STL2 double-rod stand, DC150 container clamp, SR2 safety ring
21212.02	X2000 drive units, CT20/S20W serrated tool, STL2 double-rod stand, DC150 container clamp, SR2 safety ring



Dispenser Stand

Order Number	Description
170210	STL2 double-rod stand: L-shaped, AISI316L/aluminum, L200 × W310 × H600mm
170220	STH2 double-rod stand: H-shaped, AISI316L/aluminum, L300 × W340 × H600mm
271131	eST3 electric stand: lifting range 325–545mm, L290 × W410 × H600mm



Accessories

Order Number	Description
273031	DC150 universal clamp: nylon strap, clamping range Ø 50–150mm, for beakers/flasks
175020	SR2 safety positioning ring: stainless steel, fits double-rod stand
174015	LP15 container lift: 150 × 150mm, stainless steel, with anti-slip pad
174020	LP20 container lift: 200 × 200mm, galvanized steel, with anti-slip pad
174030	LP30 container lift: 300 × 300mm, stainless steel, with anti-slip pad

