

WINNER

Winner Particle Size Analyzer Since 1985

THE LEADER OF PARTICLE TESTING TECHNOLOGY IN CHINA

Jinan Winner Particle Instrument Stock Co., Ltd. is a national high-tech enterprise integrating R&D, production and sales of particle testing related instruments and equipment (Securities Name: "Winner Particles", stock code 430410). Leading by technology research and development, Winner has won the National Key New Product Award, the Gold Award of the First China Science and Technology Expo, the Third Prize of Shandong Science and Technology Progress Award, the National High-tech Enterprise and other honorary titles, and has passed CE, SGS, CNAS, ISO9001 international quality system, National Science and Technology SME Innovation Fund Project and other certification acceptance.

The founder of the company, Professor Zhongjing Ren, is a national expert. Since the beginning of the National Seventh Five-Year Science and Technology Project in 1982, Winner invented the 1st particle size analyzer in China, which made up for the lack of domestic particle size analyzers, and developed and produced various particle size analyzers. It has a history of more than 30 years. By now, There are more than 30 national patents, including laser optical path research and development, particle size distribution testing and dispersion invention technology patents, utility model patent technology and self-owned software calculation patent technology, software copyright, etc.

There are more than 10 kinds of products, laser particle size analyzer, nanometer particle size analyzer, spray particle size analyzer, microscopic image particle size analyzer and online particle size analyzer can test the particle size distribution and image morphology of emulsion, suspension, powder, spray of nanometer and micrometer, and are widely used in a variety of product quality control, product research and development of manufacturers in the industry, as well as material research and development applications of the China National Medical Device Inspection Institute and domestic and foreign universities, Its high quality, strong technical support and services to get good feedback from the users, the China Industry's most innovative strength of the enterprise, The honor of China particle testing technology leader, and the top 50 enterprises in Asia etc.

Survive by quality, develop by innovation, adhere to the product concept of excellence and technology-led, Winner strives to provide customers with more accurate, more stable and durable instruments!



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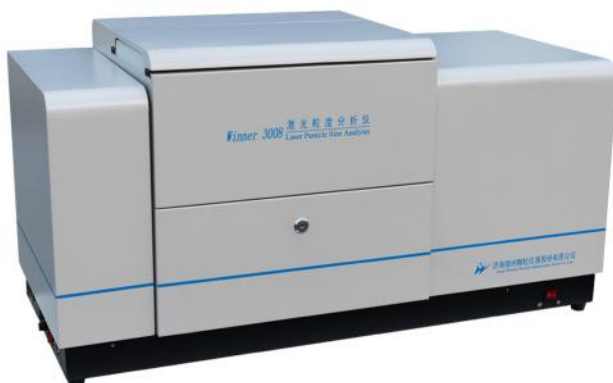
Website: <https://www.winner-psa.com/>



Wechat

Winner3008B

Intelligent Dry Laser Particle Size Analyzer



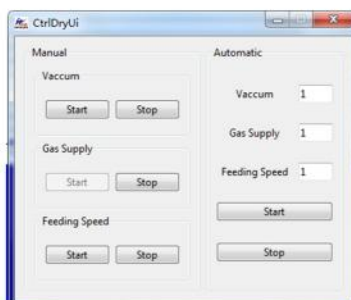
Winner3008B is intelligent laser particle size analyzer with dry dispersion unit, manual and full automatic operation modes. MIE scattering principle as basic, Converging light Fourier transform light path, Highly stable He-Ne laser and High sensitive ring photoelectric detector, guarantee good repeatability and accuracy.

It use air as dispersion medium, and use turbulent dispersion principle with High precision feeding device, patent powder spray pump and oil-free silent gas source guaranteeing the samples to be fully dispersed. It's fit for any dry powder materials, especially the powder that takes chemical reaction with water or changes its shape in liquid. Compared to the wet laser particle size analyzer, It's with the same accuracy and repeatability.

Advantages:

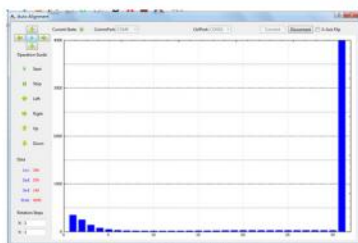
● Human-based operation mode

Manual and Full automatic, easy choose.



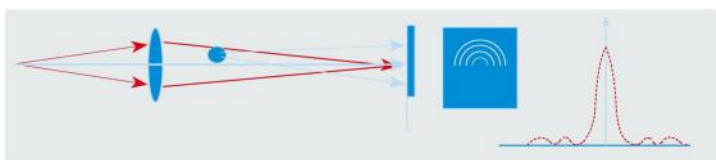
● Automatic optical calibration:

It's composed of precise four phase hybrid stepper motor, Its inching precision is reach to micron level, so light path is always in a good state.



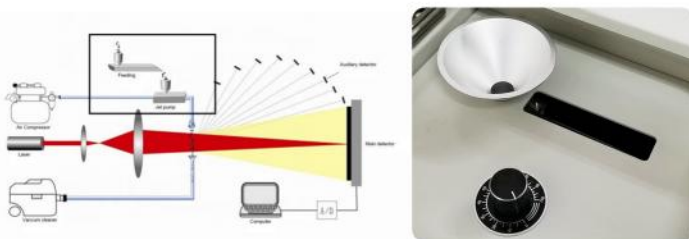
● Advanced optical path design:

Converging light Fourier transform light patented technology, make scattering light not be restricted to lens aperture. Use main detector and large angle auxiliary detector efficiently collect all angles of scattering light in the testing range, ensure good testing accuracy and reliability in the whole range.



● Scientific dispersion system

Turbulence dispersion patented technology and Normal shock shearing effect, make particles sufficient dispersion, Adopt wearable ceramics improve dispersion system's working life.

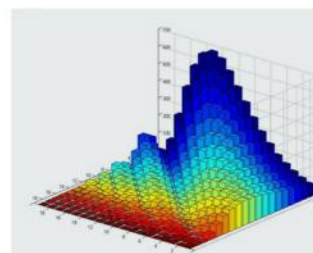


● Precision test report

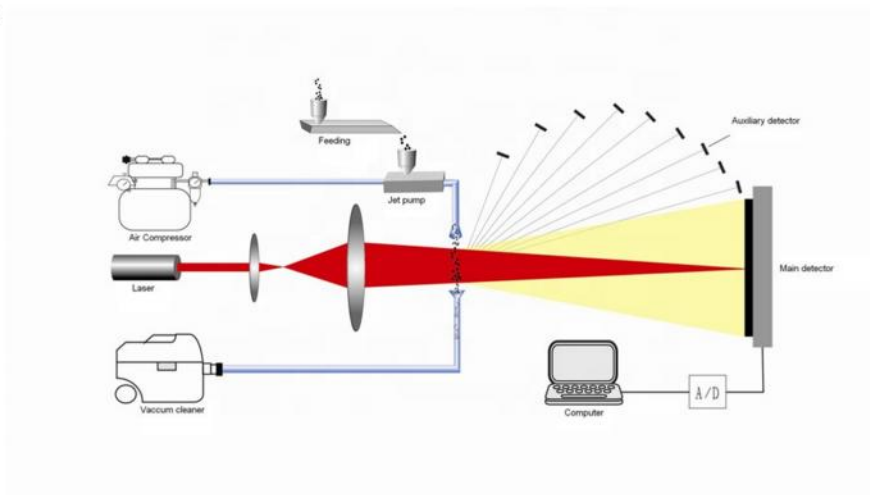
The results not only show particle distribution, the cumulative value curve and typical particle sizes(D10, D50, D90.), but also support user-defined analyze result, such as any features particle diameter from D0 to D100, Cumulative percent(bigger than or less than a certain particle diameter).

● Unconstrained free fitting technique:

Analysis software collect large quantity of particle information in high speed, and inverse particle distribution by unconstrained free fitting technology, then intelligent statistics and analysis of testing data, ensure accuracy and repeatability of the output.



Test principle



Application

Winner3008 is widely used for cement, ceramic, medicine, dope, dye, padding, chemical products, catalyst, braize, dust, additive, pesticide, explosive, graphite, photosensitive material, fuel, metal and nonmetal powder, calcium carbonate, kaolin, coffee and other powder materials.

It has unique applicability and practicability, especially for those occurs chemical reactions, change shapes and loss in liquid, such as Chinese herbal medicine, magnetic materials and powder industry with wide distribution and large particle size.

Standard Accessories List:

NO.	Items	Quantity	Unit	Remark
1	Winner 3008 Laser particle size analyzer	1	Set	
2	Software	1	Set	
3	Dongel	1	PCS	
4	Air compressor	1	PCS	
5	Dust cleaner	1	PCS	
6	Standard sample	2	PCS	
7	Power cable	2	PCS	
8	Communication cable	1	PCS	
9	Negative pressure gauge	1	PCS	
10	Screw driver	3	Set	
11	Wrench	2	PCS	
12	Balloon	1	PCS	
13	Brush	1	PCS	
14	Cleaning mirror paper	3	PCS	
15	PU pipe Φ8	1	PCS	
16	Silicone tube	1	PCS	
17	Spoon	1	PCS	
18	2A fuse	5	PCS	
19	Quality certificate	1	PCS	
20	Warranty Card	1	PCS	
21	Manual	1	PCS	

Technical parameter:

Model Name		Winner3008B
Size Range		0.1-1200 μ m
Channels Number		84 pcs
Accuracy error		$\leq 1\%$ (Deviation of D50 on national standard sample)
Repeatability error		$\leq 1\%$ (Deviation of D50 on national standard sample)
Light Source		Semi conductor laser ($\lambda = 632.8\text{nm}$, $P > 2.0\text{MW}$)
Dispersion Method		Dry-turbulence dispersion mode, normal shock wave shear technique
Operation Mode		Manual & Full automatic
Optical Path Calibration System		Automatic
Sample Feeding		Automatic vibration feeding
Dispersing Medium		Compressed air
Operation temperature		+5°C to +40°C
GMP		Optional
Software function	Analysis mode	Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh number classification etc.
	Statistic Method	Volume Distribution, Quantity Distribution
	Statistic Comparison	Several Testing Results of samples Different batches of samples testing result, Samples before and after processing, Test result of samples in different time.
	User-defined Analysis	Figure out percentage according to the particle size Figure out particle size according to the percentage Figure out percentage according to the particle size range Meet demands of representation of particle test in different industries.
	Test Report	Word, Excel, Photo(Bmp), Text etc
	Multi-language Support	Chinese&English
	Intelligent Operation Mode	Automatically control Air flow speed, dispersion, test and analysis. Better Repeatability after remove human-factor
Test Speed		<1min for each time
Power supply		220V
Outer dimension		L104cm×W44cm×H54cm
Net Weight		58KG

Report interpretation

Header section:

Instrument parameters , sample information

Characteristics of particle size:

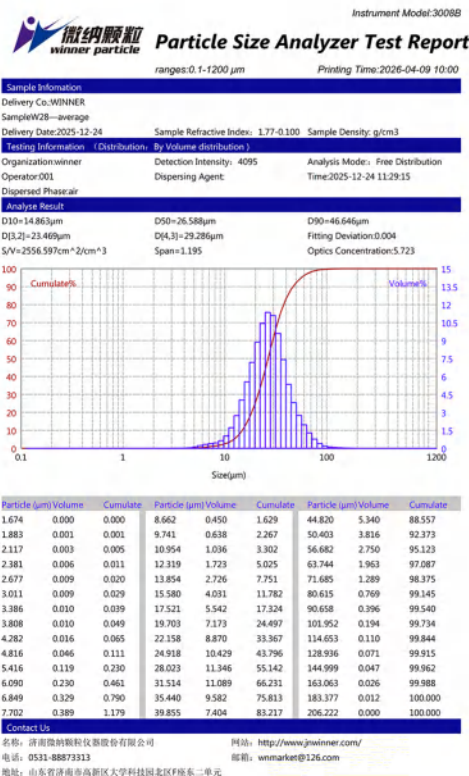
The value of particle size characteristics

Particle size chart:

Cumulative distribution and frequency distribution of particle size. It's corresponding to data of particle size distribution table

Particle size table;

Cumulative distribution and frequency distribution of particle size



Our some customers

1) Institutions of higher learning and research institutes

Peking University,	Tsinghua University,	Renmin University of China,	Zhejiang University,	Shandong University,	Jiangsu University,
Tianjin University,	Australian University,	Indian Institute of Technology,	Mongolia University,	Beihang University,	Southeast University,
China Agricultural University,		Shanghai Jiaotong University,	Xi'an Jiaotong University,		Nanjing University,
The University of Hong Kong,		University Of Wollongong,	Dalian University of Technology,		Ocean University of China,
PSG College of Technology,		Institute of Engineering Physics,	Beijing Institute of Technology,		
Shanghai Medical Device Testing Institute,		Guangdong Provincial Medical Device Testing Institute,		Beijing Medical Device Testing Institute,	
Huazhong University of Science and Technology,				University of Science and Technology Beijing,	
Chinese Academy of Sciences, Institute of Metal Research, etc.				Nanjing University of Aeronautics and Astronautics,	

2) Industrial enterprises

Shougang Group Co., Ltd.,	Jiangsu Shagang Group Co., Ltd.,	Pangang Group Co., Ltd.,	Shanghai Huayi Polymer Co., Ltd.,
Jiaozuo Qianye Cement Co., Ltd.,	Shanshui Cement Group Co., Ltd.,	China National Petroleum Corporation,	Shengli Oilfield,
China Ping An Coal Group, BYD Co., Ltd.,	Tianneng Battery Group Co., Ltd.,	Chaowei Power Supply Co., Ltd.,	
Guangzhou Libai Enterprise Group Co., Ltd.,	Nippon Paint Co., Ltd.,	Zhenjiang Titanium Dioxide Co., Ltd.,	
Moze biological Co. Ltd.,	Korea Conformity Laboratories,	PPG Powder Coating Co., Ltd.,	
Otsuka Pharmaceutical ,	SIM (USA) INTERNATIONAL INC,	Mundipharma. India,	
TAIYO INK. Japan,	Heraeus. Germany,	Osram lighting. Germany,	

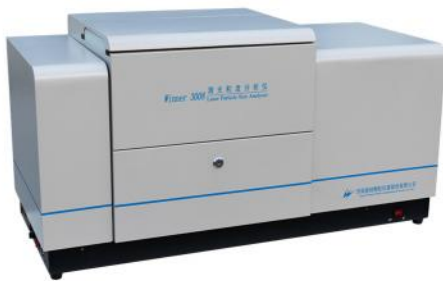


Winner Particle Instrument Quality Assurance

Provide customers with the most professional particle testing solutions

■ Long service time

Laser particle size analyzer, as an analysis instrument, it doesn't have consumable parts except for the stirring parts, it has no transmission parts and no wearing parts; high performance laser, with a long service time of more than 25000 hours, high sensitive photodetectors is a core part, it will not be easily damaged if operated normally; the photodetector array is a key part, as long as it is used properly, it will not be automatically damaged. Therefore, users do not have to worry about the service time of winner instruments at all. According to the customer feedback from Jinan winner return visit, the instrument with the longest service life of the product is more than 15 years.



■ Low failure rate

The after-sales department Jinan Winner has made statistics on the maintenance failures of the sold instruments, and the failure rate of the instruments is within 3%.



■ High industry recognition

After 30 years of technical precipitation, Jinan winner has continuously improved its technology in the R&D and production process of instruments according to the characteristics of different industries. With its excellent product quality and high-quality service, it has been highly recognized by practitioners in the powder industry.

