

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!



TEL:+86-0531-88876213

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



Wechat

Winner219

Full Automatic Microscope Particle Size Analyzer

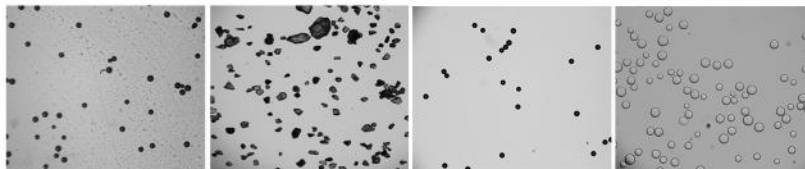
Jinan Winner Particle Instrument Stock Co., Ltd. launched an exclusive automatic particle image analyzer --Winner219, which support dynamic and static two models for test particle size distribution and Morphology in 5um--10000um, standard model only support static mode.



Advantages:

● Particle morphology analysis:

Offer Sphericity, circularity, roundness, aspect ratio, sphericity and other particle morphology prepositional parameters, and also add self-developed software for particle circularity (roundness) computation module. the analysis of the particle circularity in line with US oil and gas standards: API_RP58. And geological plates suitable for this abrasive, oil and gas and other industry standards.



● Support Dynamic, static dual-mode test:

Static mode, you can get the best observation results, clearly see the status of the sample surface by Image system.

Dynamic mode is available for customized need, the particles keep fast going through the sample cuvette to collect large numbers of sample data, which solve the problem of image analyzer low representation. If add self-cleaning accessories of sample window and the online version of the software, Simple line detection could be achieved also.

● Full automatic control system

High-precision three-axis control mechanism could automatically control platform movement and focus adjustment, It could more effectively to take photos, ensure select all the information of samples.

Humanize software setting: Customize route, the acquisition of memory multi-point, auto-focus, memory-focus and other functions.



Technical parameter:

Model Name	Winner219
Measurement range	5μm-10000μm
Maximum magnification	2000 times
Implementation standards	ISO/DIS-13322-2
light source	Low-angle LED reflective light source and high-brightness parallel LED transmitted light source
2D mobile platform	Standard stroke 100*100mm (can be customized)
Electric focus	Stroke 60mm
Accuracy error	≤1.0% (CRM D50)
Calibration method	Chinese national standard materials
High speed imaging module	5 million high speed industrial camera
Decentralized approach	Disperser (dry method), wet method dispersion
Analysis Project	Particle size: including particle size distribution, D10, D50, D90 and other typical particle size values (can be customized), maximum particle size, customizable: interval content, content greater than or less than a certain particle size, particle gradation. Particle shape: aspect ratio and distribution, circularity and distribution, particle image photos. particle counting
Other functions of the software	Customized header to display logo, tester and other report information, task management mechanism, etc., standard exponential distribution grading, and customizable grading
Dimension	L54*W30*H54cm
N.W.	28KG

Application

Ceramics, pharmaceuticals, paints, dyes, pigments, fillers, chemical products, catalysts, coal, sediment, dust, flour, food additives, pesticides, explosives, graphite, photographic materials, fuel , metal and non-metal powder, calcium carbonate, kaolin and other powder industry.

Fertilizer



Paint



Cement



Ceramic



Coffee



Drug



Report interpretation



WINNER-219 Particle size analysis report

Header section:
Instrument parameters , sample information

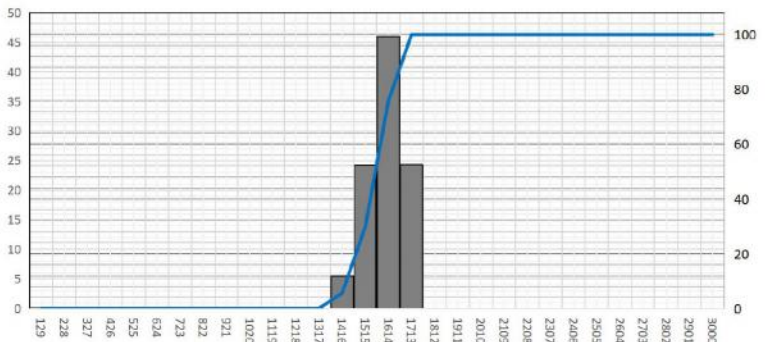
Sample:	Sample	Company:	
User:	1	Particle No.:	2000
Delivery date:	2025.09.24	Measured by:	Winner
Distribution:	Vol	Test Date:	2026/3/23 14:04

Characteristics of particle size:
The value of particle size characteristics

1. Custom Range Proportion & Distribution Curve of Typical Particle Size (μm)

D10	D25	D32	D50	D75	D90	Dmax
1475.41	1493.21	1521.27	1587.70	1611.51	1689.15	1698.02
10—50μm			<50μm		>150μm	
0.02			0.02		99.97	

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



2. Particle Size Distribution Data

Particle size table;
Cumulative distribution and frequency distribution of particle size

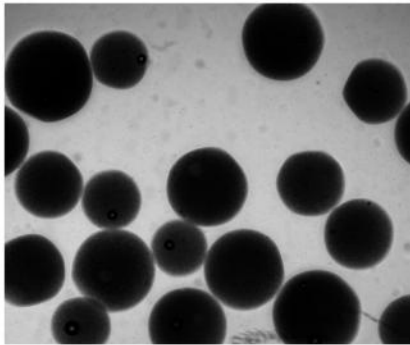
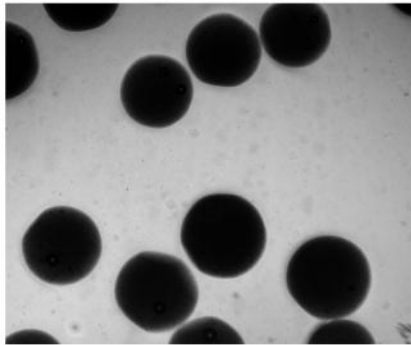
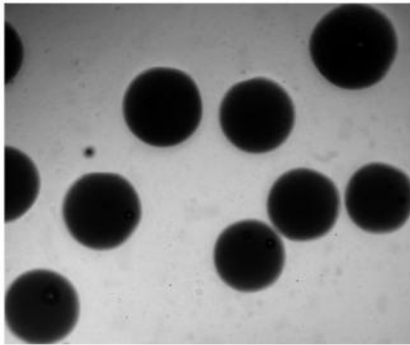
Diam(μm)	Vol.P(%)	Cumu.P(%)	Diam(μm)	Vol.P(%)	Cumu.P(%)	Diam(μm)	Vol.P(%)	Cumu.P(%)
129.0	0.03	0.03	1119.0	0.00	0.04	2109.0	0.00	100.00
228.0	0.01	0.04	1218.0	0.00	0.04	2208.0	0.00	100.00
327.0	0.00	0.04	1317.0	0.00	0.04	2307.0	0.00	100.00
426.0	0.00	0.04	1416.0	5.53	5.57	2406.0	0.00	100.00
525.0	0.00	0.04	1515.0	24.22	29.78	2505.0	0.00	100.00
624.0	0.00	0.04	1614.0	45.95	75.73	2604.0	0.00	100.00
723.0	0.00	0.04	1713.0	24.27	100.00	2703.0	0.00	100.00
822.0	0.00	0.04	1812.0	0.00	100.00	2802.0	0.00	100.00
921.0	0.00	0.04	1911.0	0.00	100.00	2901.0	0.00	100.00
1020.0	0.00	0.04	2010.0	0.00	100.00	3000.0	0.00	100.00

JINAN WINNER PARTICLE INSTRUMENT STOCK CO.,LTD

WEB: www.jnwinner.com

Sale Tel: 0531-88873313

Adoption Standard: ISO 13322-2:2021 Particle size analysis



■ Report interpretation

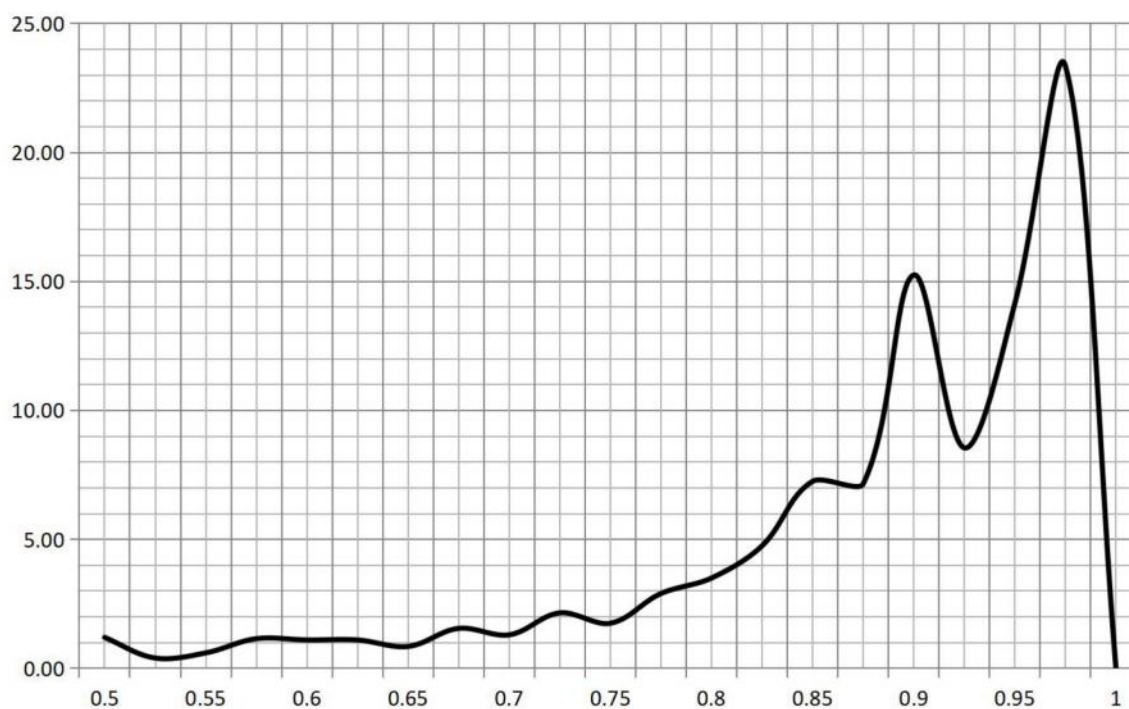


WINNER-219 Roundness Analysis Report

Sample:	Sample	Company:	
User:	1	Particle No.:	2000
Delivery date:	2025.09.24	Measured by:	Winner
Distribution:	Vol	Test Date:	2026/3/23 14:04

1. Roundness Statistics & Standard Deviation

Roundness (Statistical Value) standard deviation (SD)
0.866 **0.1106**



2. Roundness Distribution Table

Roundness	Number	Frequency	Roundness	Number	Frequency	Roundness	Number	Frequency
0.5	24	1.20	0.675	31	1.55	0.85	145	7.25
0.525	8	0.40	0.7	26	1.30	0.875	143	7.15
0.55	12	0.60	0.725	43	2.15	0.9	305	15.25
0.575	23	1.15	0.75	35	1.75	0.925	171	8.55
0.6	22	1.10	0.775	58	2.90	0.95	283	14.15
0.625	22	1.10	0.8	70	3.50	0.975	467	23.35
0.65	17	0.85	0.825	95	4.75	1	0	0.00

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Report interpretation



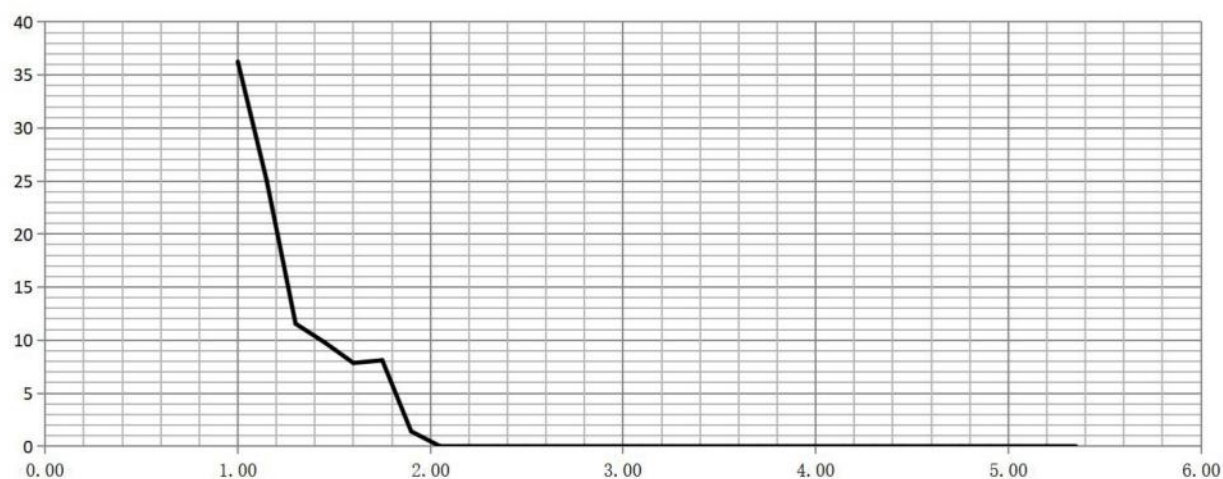
WINNER-219 Aspect Ratio Analysis Report

Sample:	Sample	Company:	
User:	1	Particle No.:	2000
Delivery date:	2025.09.24	Measured by:	Winner
Distribution:	Vol	Test Date:	2026/3/23 14:04

1. Aspect Ratio Parameters

Aspect Ratio
1.289

standard deviation (SD)
0.273



2. Aspect Ratio Distribution Table

Aspect Ratio	Frequency	Accumulation	Aspect Ratio	Frequency	Accumulation	Aspect Ratio	Frequency	Accumulation
1.00	36.25	36.25	2.50	0.00	100.00	4.00	0.00	100.00
1.15	25.05	61.30	2.65	0.00	100.00	4.15	0.00	100.00
1.30	11.55	72.85	2.80	0.00	100.00	4.30	0.00	100.00
1.45	9.80	82.65	2.95	0.00	100.00	4.45	0.00	100.00
1.60	7.85	90.50	3.10	0.00	100.00	4.60	0.00	100.00
1.75	8.10	98.60	3.25	0.00	100.00	4.75	0.00	100.00
1.90	1.40	100.00	3.40	0.00	100.00	4.90	0.00	100.00
2.05	0.00	100.00	3.55	0.00	100.00	5.05	0.00	100.00
2.20	0.00	100.00	3.70	0.00	100.00	5.20	0.00	100.00
2.35	0.00	100.00	3.85	0.00	100.00	5.35	0.00	100.00

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WEB: www.jnwinner.com

Sale Tel: 0531-88873313

Adoption Standard: ISO 13322-2:2021 Particle size analysis

Report interpretation



WINNER-219 Psephicity Ratio Analysis Report

Sample:	Sample	Company:	
User:	1	Particle No.:	2000
Delivery date:	2025.09.24	Measured by:	Winner
Distribution:	Vol	Test Date:	2026/3/23 14:04

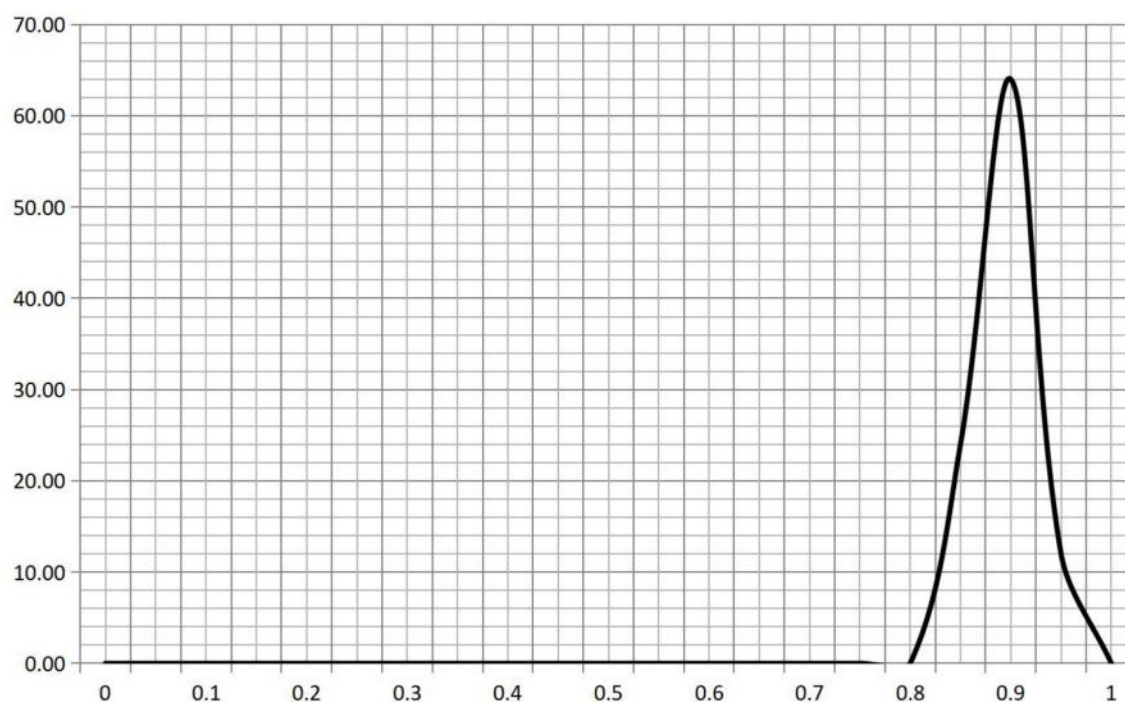
1. Psephicity Ratio Statistics & Standard Deviation

Psephicity Ratio(Statistical Value)

0.866

standard deviation (SD)

0.0234



2. Psephicity Ratio Distribution Table

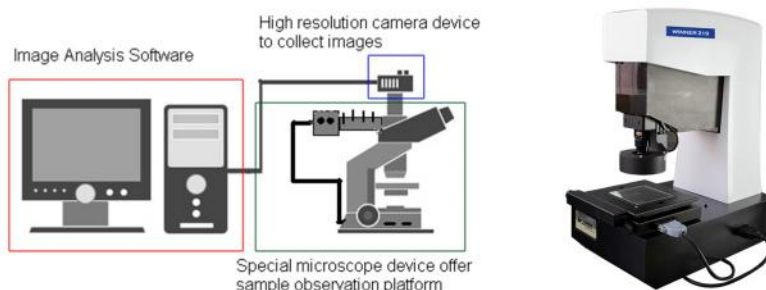
Psephicity Ratio	Number	Frequency	Psephicity Ratio	Number	Frequency	Psephicity Ratio	Number	Frequency
0	0	0	0.35	0	0	0.7	0	0
0.05	0	0	0.4	0	0	0.75	0	0
0.1	0	0	0.45	0	0	0.8	0	0
0.15	0	0	0.5	0	0	0.85	6	24
0.2	0	0	0.55	0	0	0.9	16	64
0.25	0	0	0.6	0	0	0.95	3	12
0.3	0	0	0.65	0	0	1	0	0

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.

