WD-2308A

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APPLICATION

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Particle Size Analyzer

Gold APP Instruments China

Lead You to Particle World Better

Laser Particle Size Analyzer WD-2308A

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INTRODUCTION

WD-2308A fully automatic particle size analyzer (PSA) adopts laser diffraction theory (Mie and Fraunhofer diffraction), be configured with fully integrated liquid and dry dispersion modules within one instrument, measurable size is from 0.01μ m to 2000μ m (dry 0.1μ m- 2000μ m), which offers reliable and repeatable particle size analysis for a diverse range of applications. Sample dispersion as well as the measurement take place inside the instrument. Such design eliminates the need for operators to handle several accessories, exchange hardware, or make manual adjustments.

It uses dual-beam & multiple spectral detection systems and side light scatter test technology to significantly improve precision and performance of test, It's the prior choice for industrial production quality control departments and research institutions.

FEATURES

• Compact 2-in-1 design to measure both wet and dry samples

WD-2308A intelligent laser particle size analyzer which is 1st set laser particle size analyzer integrated wet and dry dispersion testing as one in China, it successfully resolved the problem of dry and wet technology integration, realize one key to switch, apply to test all particles which particle size distribution from 0.01μ m-2000 μ m.

• Intelligent fully automatic and manual operation modes can be freely switched

With intelligent automatic mode of operation, to achieve a key test, click the "test", all process will be completed automatically, not only reduce the testing workload, but also eliminate the interference of human factors, to further improve the accuracy and authenticity of testing results.

Wet method: a key to complete water-supply, ultrasonic dispersion, circulation, testing, cleaning, data record, data analysis, save and print are automatically completed, only take 2 mins.

Dry method: a key to complete the dust collecting, compressed air supply, feeding, testing (the patented technology of turbulence dispersion and the sample window of the negative pressure device make the sample be fully dispersed), data processing and other operation, take 1 min.

• Stable and unique optical path system

Converging light Fourier transform path patented technology enables scattering light be not restricted to the lens aperture limit, using the double spectral plane optical path design, the photodetector channels can reach 127 pcs, the maximum detection angle is 145 degrees and the minimum detection angle is 0.0155 degrees. Using dual-laser orthogonal light patented technology, the measurement range is effectively extended to 2000 microns. Canon Fourier lens be used to ensure the stability and accuracy of particle measurement.

• Automatic optical path alignment system



instrument light path is at its best performance, enhanced the accuracy and stability of test results.

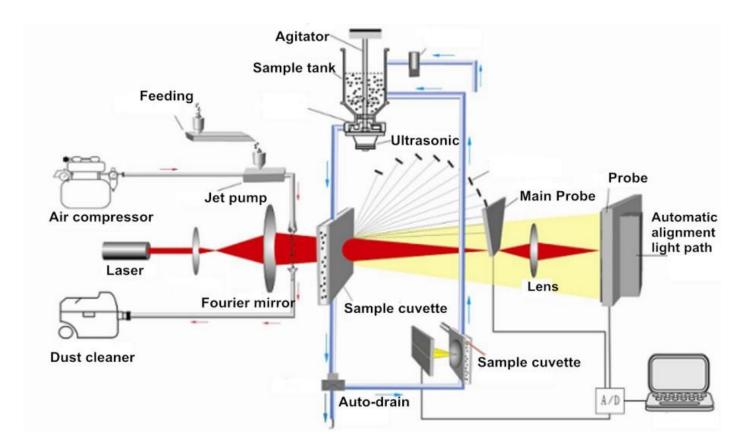
• Embedded sample wet and dry dispersion system

Auto wet dispersion system can realize one-key operation, be designed mechanical stirring, ultrasonic dispersion, and circulation path as one. It ensures particles uniform dispersion and distribution, avoids many bad phenomena, such as uneven distribution of particles, large particles deposit because of the long outer dispersing system tube, and it guarantees the meaningful of test result

For dry dispersion system, turbulence dispersion patented technology and normal shock shearing effect make particles sufficient dispersion, can test powders range from 0.1 micron to 2000 micron.

• Instrument software

Patented software system can collect scattering data automatically, make particle testing not be restricted by any functions, truly reflect particles size distribution. The instrument provides high precision data with 10 Khz data acquisition time.



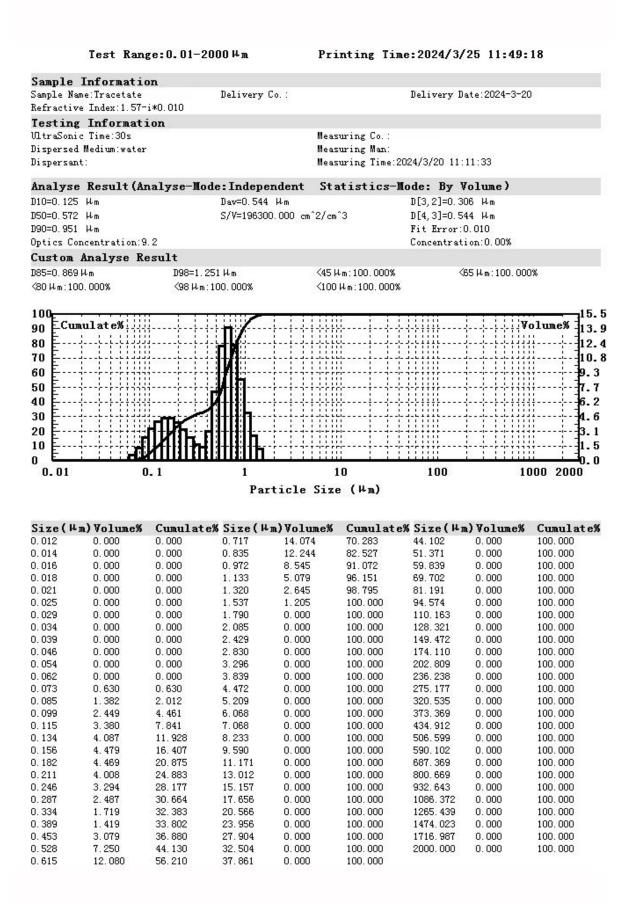
Analyzer Working Schematic



Model Name		WD-2308A	
Standards		IS013320-1:2009, GB/T19007-2016, Q/0100JWN001-2013	
		Compliance with 21 CFR Part 11	
Principle		laser diffraction principle	
Analysis		Mie and Fraunhofer scattering	
Detector Arrangement		log-spaced array, test angle from 0.015 degree to 145 degree	
Measuring Range		wet:0.01µm-2000 µm, dry: 0.1µm-2000µm	
Silicon Photodetectors		wet:127 pcs, dry:100 pcs	
Accuracy Error		wet<1%, dry<1% (CRM D50)	
Repeatability Error		wet<1%, dry<1% (CRM D50)	
Light Sources		high performance semiconductor red laser (λ =639nm) P $>$ 3.0MW	
		auxiliary green solid semiconductor laser (λ = 405 nm) P>2.0MW	
Optical Path		converging light Fourier transform optical path	
Effective Focal Length		500mm	
Laser Safety		class 1	
	Ultrasonic	frequency:40KHz, power:60W, time: \geq 1S	
Wet Dispersion	Stir	revolutions speed: 0-3000RPM (adjustable)	
	Circulate	rated flow:30L/min, rated power:70W	
	Water Level Sensor	prevent water overflow and effectively protect the instrument	
	Sample Tank	volume:1000ml	
	Micro-Sample Cuvette	volume: 10ml	
Dry Dispersion		dry-turbulence dispersion patent technology, normal shock wave shear technique	
Feeding Speed		adjustable	
Operation Modes		fully automatic / manual control, freely choose	
Dispersion Medium		compressed air, pressure: 0 to 6 bar	
Optical Bench Alignment System		fully automatic, precision is up to 0.2um	
Full Test Speed		wet:<2 Min, dry: <1min, interval time per test result: 500ms	
Dimension		L104cm×W44cm×H54cm	
Packing Weight		Around 70 kgs	

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ltems	Unit	Quantity
WD-2308A analyzer	Set	1
Power cable	PCs	2
COM cable	PCs	2
Oil-free air compressor	Set	1
Vacuum cleaner connector	PCs	1
Vacuum cleaner	Set	1
PU tube	Meters	5
Filter	PC	1
Wrench 5.5/7	PC	1
Wrench 8/10	PC	1
Wrench 17/19	PC	1
Sampling spoon	PCs	2
Balloon for clean dry sample tank	PC	1
Cleaning paper	PCs	3
Inner hexagon screwdriver	PC	1
Flathead screwdriver 3*75	PC	1
Flathead screwdriver 6*38	PC	1
Flathead screwdriver 5*75	PC	1
Software CD	PC	1
Quality card	PC	1
Medical silica tube	Meters	1.5
2A fuse	PCs	5
15A fuse	PCs	5
PTFE tape	Box	1
USB transform cable	PCs	2
Silica tube	Meters	1.5
Brush for sample tank	PCs	2
Quartz sample cuvette	PC	1
Sample cuvette brush	PCs	2
Tool bag	PC	1
Standard sample D50= 2.1µm	Bottle	1
Standard sample D50=110µm	Bottle	1
Manual	PC	1
Warranty card	Pr	1

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