GaoHong2000 Wet Laser Particle Size Analyzer

Brief Introduction:

As high efficient-cost model, GaoHong2000 laser particle size analyzer with wet dispersion is most economical and popular since launched. After more than ten years of tests and numerous technical improvements, the structure and software are very mature, stable performance so that it could meet industrial testing general requirements.

Main Specification:

Model Name	GaoHong2000		
Standard	ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009		
Measuring Range	0.1μm-300μm		
Channels Number	39		
Accuracy error	<1% (National Standard Sample D50)		
Repeatability error	<1% (National Standard Sample D50)		
Light source	High performance semiconductor laser (λ= 632.8nm, P>2MW,Life >25000hour)		
Dispersion Method	Ultrasonic	Frequency:40KHz Power:35W, Time: ≥1S	
	Stir	Revolutions Speed: 0-3000RPM (Adjustable)	
	Circulate	Rated Flow:8L/min Rated Power:10W	
	Sample Pool	Volume:350mL	
	Micro-Sample Pool	Volume: 10mL (Optional)	
Operation Mode	Display control+computer analysis		
Optical Calibration System	Manual		
Test Speed	<2mins for each time		
Volume	L25.98×W12.6×H15.75"		
Net Weight	25Kg/55.12pound		

Main Features:

1) Mie Scattering Theory.

2) High efficient-cost model, semi automatic key-operation.

3)Full built-in integrated dispersion system, contains Ultrasonic stirring, ultrasonic dispersion and cycling system, prevent large particle sediment in the pipe.

4) Unique unconstrained free fitting technology, make particle analysis not restricted by any function, truly reflect particles distribution, ensure the good accuracy.

5) Converging light Fourier transform light path, efficiently improve resolution ratio of sub-micron particles.

6) Main & auxiliary detectors are log-shaped, guarantee the effective capture of the scattered signal.

Software Function:

1. Analysis Mode

Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh number classification etc.

meet different demands of particle size statistic in different industries.

2. Statistic Method

Volume Distribution, Quantity Distribution

3. 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.

4. 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.

5. Test Report

Word, Excel, Photo(Bmp), Text etc.

6. Multi-language Support

Chinese&English (Others are available)

7. Intelligent Operation Mode

Automatically control water inflow, dispersion,test and analysis.

Better Repeatability after remove human-factor

Application:

GaoHong2000 is widely used for cement, ceramic, medicine, emulsion, dope, dye, padding, chemical products, catalyst, drilling fluid, abrasive, lubricant, braize, cell, germ, food, additive, pesticide, explosive, graphite, photosensitive material, fuel, ink, metal and nonmetal powder, calcium carbonate, kaolin, water-coal-slurry and other powder materials.
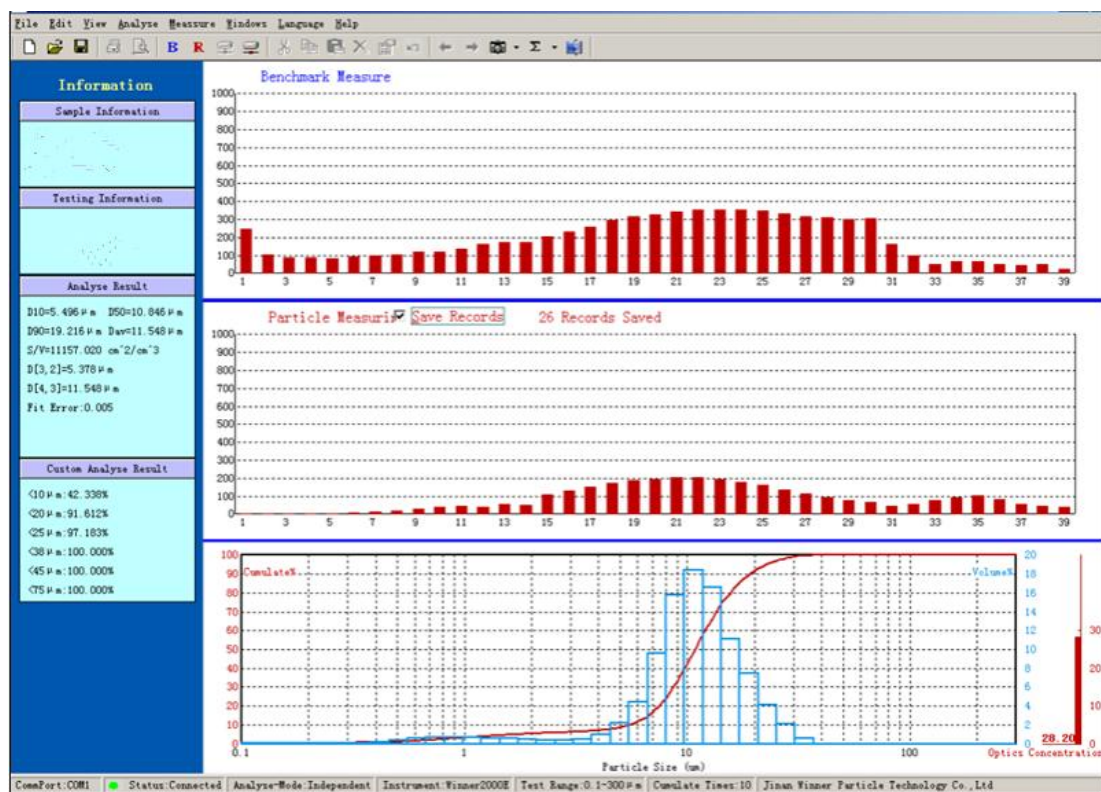
Operation Interface:

I Operation interface：

Run the software, access control systems interface, manually start the sample testing.

II Testing analysis interface and report

After completed test, according to requirement to select records, Average result will be calculated, system generate analysis records form. When test in automatic mode, without data processing, the system automatically get analysis report and save the test records after a comprehensive analysis.

Adopt Patents Technology:

- Optical bench design is protected by patent No.- ZL 2014 2 0378380.8,
- MIE scattering principle application patent is protected by patent No.- ZL 2013 2 0812021.4.
- Wet circulation installation is protected by patent No.-ZL2010 2 0593526.2.