

IPSA-3219

Full Automatic Image Particle Size Analyzer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

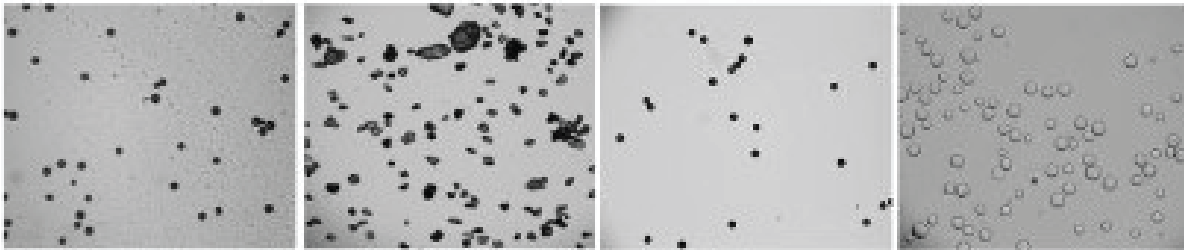
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IPSA-3219 which support dynamic and static two models for test particle size distribution and Morphology in 5um-10000um, standard model only support static mode

Particle morphology analysis:

Offer Sphericity, circularity, roundness, aspect ratio, sphericity and other particle morphology prepositional parameters, and also add self-de-veloped software for 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 ver-sion 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.



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

Specification:

Measurement range	5μm-10000μm
Maximum magnification	2000 times
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)
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 manage-ment mechanism, etc., standard exponential distribution grading, and customizable grading
Dimension	L54 W30 H54cm
N.W.	28KG

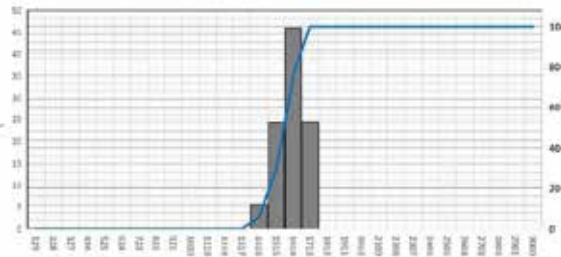
Report Particle size analysis:

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

D10	D25	D50	D75	D90	Dmax
1475.41	1493.21	1521.27	1587.79	1611.51	1689.15
1698.02					
10-50µm			~50µm		>150µm
0.02			0.02		99.97

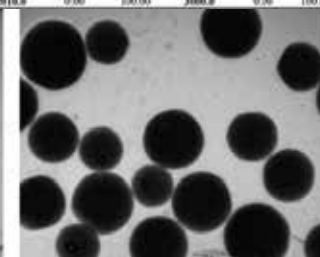
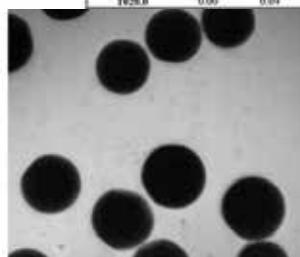
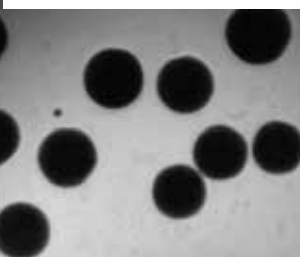
Characteristics of particle size:
The value of particle size characteristics

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



2. Particle Size Distribution Data

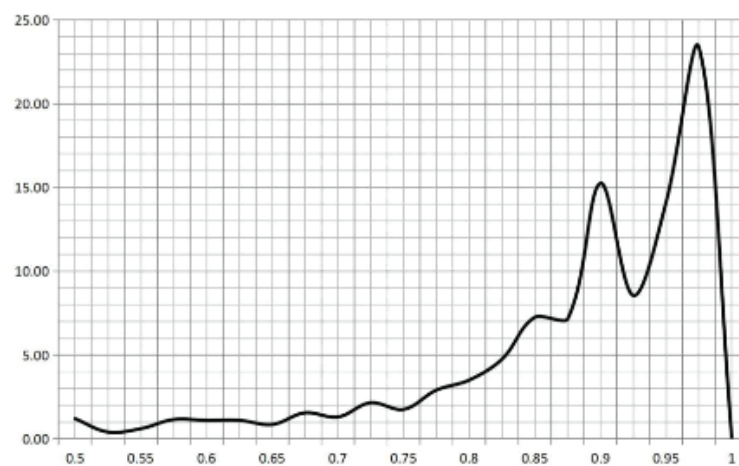
Diam(µm)	Vol.P(%)	Cum.P(%)	Diam(µm)	Vol.P(%)	Cum.P(%)	Diam(µm)	Vol.P(%)	Cum.P(%)
129.0	0.03	0.03	1119.0	0.00	0.04	2009.0	0.00	100.00
228.0	0.01	0.04	1218.0	0.00	0.04	2208.0	0.00	100.00
327.0	0.00	0.04	1317.0	0.00	0.04	2207.0	0.00	100.00
426.0	0.00	0.04	1416.0	5.53	5.57	2406.0	0.00	100.00
525.0	0.00	0.04	1515.0	24.22	29.78	2505.0	0.00	100.00
624.0	0.00	0.04	1614.0	45.55	75.33	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



1. Roundness Statistics & Standard Deviation

Roundness (Statistical Value)
0.866

standard deviation (SD)
0.1106



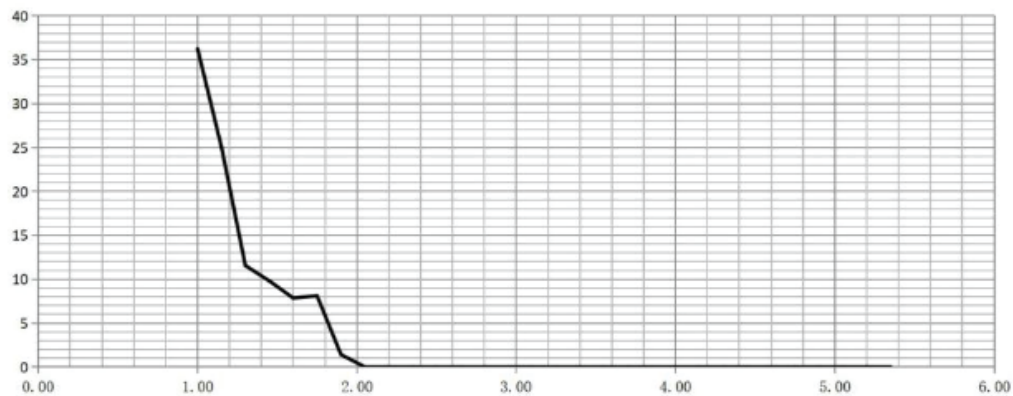
2. Roundness Distribution Table

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

1. Aspect Ratio Parameters

Aspect Ratio
1.289

standard deviation (SD)
0.273



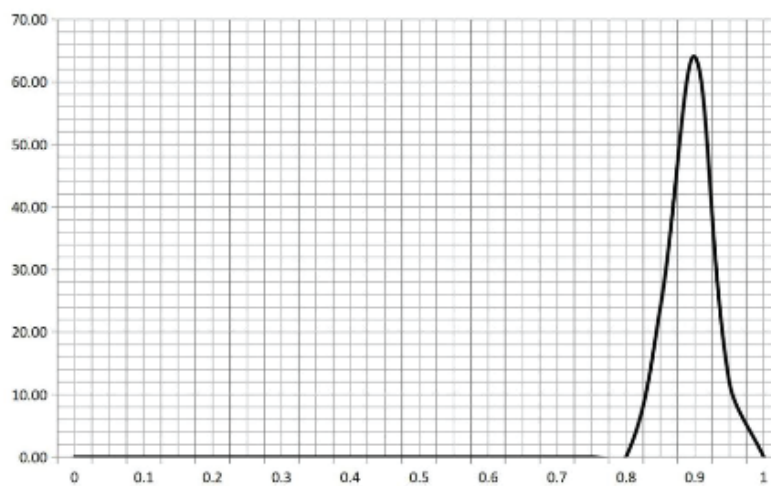
2. Aspect Ratio Distribution Table

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

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

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Chromatography system



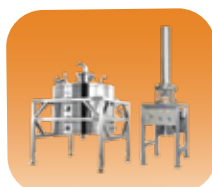
Maldi TOF



Optima Gas
Chromatograph



Flash
Chromatograph



DAC
Column



GCMS
3068



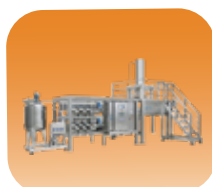
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HPTLC



Ion Chromatograph



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HPLC



HPLC



Column



DLS



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system

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