

# PARTICLE COUNTER

## LPC-10 Series

LPC 10 series Resistance (Coulter) Particle Counter uses the Electrical Sensing Zone method, also called Coulter principle to measure the particle size. It is of high resolution since it counts particles one by one and then gives size distribution and quantity of the particles measured. Its resolution (channel) depends on the measuring accuracy of the pulse of the electrical system. It is especially suitable to measure:

1. Powders with high resolution requirements, or strict size distribution requirements, such as abrasive micro grits, copy powders.
2. Small volume of particles in liquid suspension.



LPC 10 A



LPC 10 B

## Features

It is fully automatic system with measuring unit, computer and oscillograph.

An Advance pulse measurement technology incorporates more than 8000 channels. A pressure sensor controls the degree of vacuum. Appropriately photoelectric liquid level detection technology makes the volume measurement more accurate and reliable.

## Specification and General Description of all Models

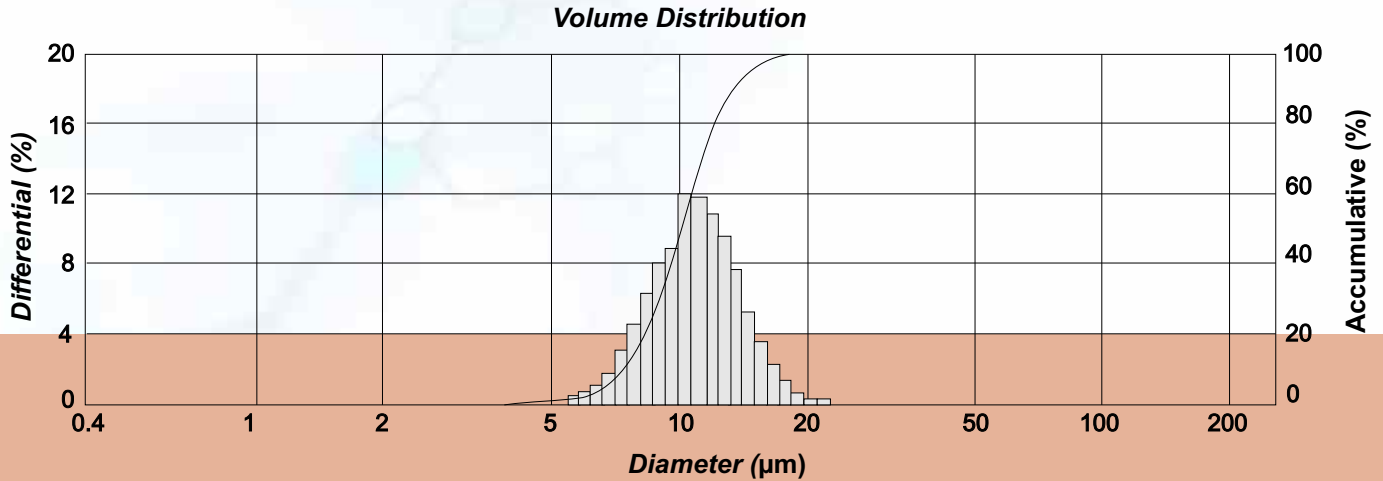
Model No.	LPC 10 A	LPC 10 B
Measuring Range ( $\mu\text{m}$ )	1-256	
Repeatability	< 2%	
Measurement Duration	15 seconds	
Channels	300 output ; 8,000 internal	
Computer Requirement	PC running Windows 98, 2000, Me or XP, Serial interface	None required; all computer functions fully integrated into system
Operating Temp. & Humidity	10-30°C, <85%	
Dimensions (L x W x H) mm	600 x 380 x 450	
Report Items	Particle Size Distribution & Graph, Average Diameter, Median Diameter, Standard Deviation, Relative Deviation, SSA, Particle Numbers etc.	
Catalog No.	29290501	29290502

## Software Function

- Four Statistical Modes: Based on volume, particle, area and particle number.
- Two Accumulative Directions; Small to Large; Large to small.
- Report Items can be selected according to customers requirements.
- Data Can be Replicated.

## Particle Counter Report

Sample ID: Carbon Powder Distribution Type: Volume File Name: Carbon rc3	Code: M Sam. Duration: 15 Par. Density: 1.00g/cub.cm	Amount Of Particles: 21659 Time: 17:41:51 Hole Diameter: 100 µm
SQ: 6 Char. Diameter: D 30: 9.56 µm D(1,0): 8.84 µm	CV: 24.11% D 50: 10.80 µm D (4,3): 11.02 µm	SD: 2.66 µm D 70: 12.20 µm S.S.A: 0.62sq.m/g



Diam (µm)	Diff (%)	Accum (%)	Diam (µm)	Diff (%)	Accum (%)	Diam (µm)	Diff (%)	Accum (%)
1.00	0.00	0.00	5.00	0.22	0.54	24.95	0.23	100.00
1.14	0.00	0.00	5.71	0.50	1.04	28.53	0.00	100.00
1.31	0.00	0.00	6.53	1.37	2.41	32.62	0.00	100.00
1.49	0.00	0.00	7.47	4.16	6.57	37.30	0.00	100.00
1.71	0.00	0.00	8.54	9.94	16.51	42.65	0.00	100.00
1.95	0.00	0.00	9.76	16.58	33.09	48.77	0.00	100.00
2.23	0.01	0.01	11.16	23.01	56.10	55.77	0.00	100.00
2.56	0.01	0.02	12.77	20.96	77.06	63.76	0.00	100.00
2.92	0.02	0.04	14.60	13.86	90.91	72.91	0.00	100.00
3.34	0.04	0.09	16.69	6.10	97.01	83.37	0.00	100.00
3.82	0.07	0.16	19.08	2.21	99.23	95.33	0.00	100.00
4.37	0.17	0.33	21.82	0.55	99.77	109.00	0.00	100.00

