Bettersize

BETTER PARTICLE SIZE SOLUTIONS

Bettersizer 2600 Plus

All-in-One Solution for Every Industry

Particle Size

Particle Shape

Reporting and Data Export

Highly Customizable Report

- Complete and detailed data: Frequency and cumulative distribution curves, simplified and complete distribution table, etc.
- Editability: Users can easily edit the reports and change the font, layout, format, etc.
- Convertibility: Users can switch the formats of reports freely among PDF, Excel, Text, etc.

① Basic information
② Typical values
③ Particle size distribution graph
④ Simplified table
⑤ Particle size distribution table
⑥ System status

Bettersize

Bettersizer 2600 Plus (Wet) Particle Size Analysis Report

Range : 0.02um - 3500um

Sample :	350nm PS	Number :	X009.0005.0100	Sample Source :	Bettersize
Operator :	NO.069	Test Time :	2025-09-01 15:26:13	Measured By :	Bettersize
Particle RI :	1.59	Particle AR :	0	Medium RI :	1.333
Optical :	Mie	Mode :	Adaptive	Distribution :	Volume
Sampling:		Speed (rpm):	500	Ultrasound:	Always ON, 35W, 30s, 0s
Medium :	Water	Dispersant :		Remark :	

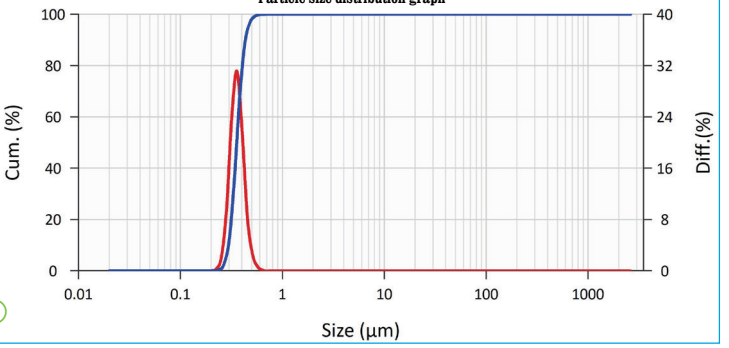
①

D[4,3] :	0.360 um	D[3,2] :	0.352 um	D[1,0] :	0.336 um	Peak Size :	0.354 um
SPAN :	0.384	SSA :	6312m^2/kg	Residual :	1.460 %	Obscuration :	2.79 %

D03 = 0.267 um	D06 = 0.279 um	D10 = 0.295 um	D16 = 0.305 um	D25 = 0.319 um
D75 = 0.396 um	D50 = 0.355 um	D80 = 0.407 um	D90 = 0.432 um	D97 = 0.481 um

②

Particle size distribution graph



③

Table

Diam um	Percent
0.020	0.00
0.050	0.00
0.100	0.00
0.200	0.05
0.500	98.01
1.000	100.00
2.000	100.00
5.000	100.00
10.00	100.00
20.00	100.00

④

Particle size distribution table

Diam um	Diff%	Cum%	Diam um	Diff%	Cum%	Diam um	Diff%	Cum%	Diam um	Diff%	Cum%
0.020-0.022	0.00	0.00	0.379-0.427	21.21	88.64	7.211-8.112	0.00	100.00	136.9-154.0	0.00	100.00
0.022-0.025	0.00	0.00	0.427-0.480	8.17	96.81	8.112-9.126	0.00	100.00	154.0-173.2	0.00	100.00
0.025-0.028	0.00	0.00	0.480-0.540	2.50	99.31	9.126-10.26	0.00	100.00	173.2-194.9	0.00	100.00
0.028-0.032	0.00	0.00	0.540-0.608	0.62	99.93	10.26-11.54	0.00	100.00	194.9-219.3	0.00	100.00
0.032-0.036	0.00	0.00	0.608-0.684	0.07	100.00	11.54-12.99	0.00	100.00	219.3-246.7	0.00	100.00
0.036-0.040	0.00	0.00	0.684-0.769	0.00	100.00	12.99-14.61	0.00	100.00	246.7-277.5	0.00	100.00
0.040-0.045	0.00	0.00	0.769-0.865	0.00	100.00	14.61-16.44	0.00	100.00	277.5-312.2	0.00	100.00
0.045-0.051	0.00	0.00	0.865-0.974	0.00	100.00	16.44-18.48	0.00	100.00	312.2-351.2	0.00	100.00
0.051-0.057	0.00	0.00	0.974-1.095	0.00	100.00	18.48-20.80	0.00	100.00	351.2-395.1	0.00	100.00
0.057-0.064	0.00	0.00	1.095-1.232	0.00	100.00	20.80-23.40	0.00	100.00	395.1-444.5	0.00	100.00
0.064-0.073	0.00	0.00	1.232-1.386	0.00	100.00	23.40-26.33	0.00	100.00	444.5-500.0	0.00	100.00
0.073-0.082	0.00	0.00	1.386-1.560	0.00	100.00	26.33-29.62	0.00	100.00	500.0-562.5	0.00	100.00
0.082-0.092	0.00	0.00	1.560-1.755	0.00	100.00	29.62-33.32	0.00	100.00	562.5-632.8	0.00	100.00
0.092-0.103	0.00	0.00	1.755-1.974	0.00	100.00	33.32-37.49	0.00	100.00	632.8-711.9	0.00	100.00
0.103-0.116	0.00	0.00	1.974-2.221	0.00	100.00	37.49-42.17	0.00	100.00	711.9-800.9	0.00	100.00
0.116-0.131	0.00	0.00	2.221-2.498	0.00	100.00	42.17-47.44	0.00	100.00	800.9-900.9	0.00	100.00
0.131-0.148	0.00	0.00	2.498-2.811	0.00	100.00	47.44-53.37	0.00	100.00	900.9-1013	0.00	100.00
0.148-0.166	0.00	0.00	2.811-3.162	0.00	100.00	53.37-60.04	0.00	100.00	1013-1140	0.00	100.00
0.166-0.187	0.02	0.02	3.162-3.557	0.00	100.00	60.04-67.55	0.00	100.00	1140-1282	0.00	100.00
0.187-0.210	0.05	0.07	3.557-4.002	0.00	100.00	67.55-75.98	0.00	100.00	1282-1443	0.00	100.00
0.210-0.237	0.29	0.36	4.002-4.502	0.00	100.00	75.98-85.49	0.00	100.00	1443-1623	0.00	100.00
0.237-0.266	2.19	2.55	4.502-5.065	0.00	100.00	85.49-96.17	0.00	100.00	1623-1826	0.00	100.00
0.266-0.300	9.75	12.30	5.065-5.698	0.00	100.00	96.17-108.1	0.00	100.00	1826-2054	0.00	100.00
0.300-0.337	23.99	36.29	5.698-6.410	0.00	100.00	108.1-121.7	0.00	100.00	2054-2311	0.00	100.00
0.337-0.379	31.14	67.43	6.410-7.211	0.00	100.00	121.7-136.9	0.00	100.00	2311-2600	0.00	100.00

⑤

Bettersize Instruments Ltd. www.bettersizeinstruments.com Email:services@bettersize.com Tel:+86 (415) 618 4440

⑥

System Status A:0-0-0-0-0-0-0-0 0-10-0-25-0-75-0-90 1-1 E:87-0-0-6-3 J:1-8-0-10-0-5 K:1-12-1-1-0-1 L:1-50-1-20000-0.1 M:0.3-1-1-0-7.5-1.1-2-1.03-1-30-16-0.025-0-0-65

SW.01.01.08204.90 01.12.BA.000793 Print Time: 2026-02-06 11:31:23 Project Name: 01.12.BA.000793 Record No.: 51 SOP: Bettersize2600 BT-802 350nm羧基微球粒度标准物质 Test Method: Laser

Combination of Particle Size and Shape Analysis

The Bettersizer 2600 Plus with the PIC-1 module combines laser diffraction and dynamic imaging in a single, integrated system. The Bettersizer 2600 Plus features a patented Fourier and inverse Fourier optical design, delivering accurate particle size analysis across a wide range of 0.02 - 2600 µm with outstanding resolution and repeatability.

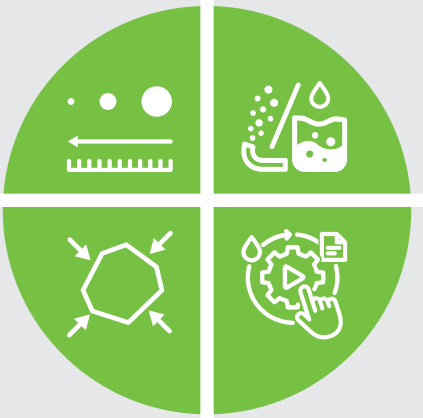
The PIC-1 module adds dynamic imaging capabilities covering 2 - 3500 µm, with dual cameras, up to 32 shape parameters, and high-speed image capture at 70 fps, with up to 5 MP resolution. Together, they provide comprehensive particle size and shape characterization in one convenient measurement.

WIDE PARTICLE RANGE

Combined laser diffraction and dynamic imaging achieve a particle size measurement range of **0.02 - 3500** µm.

DRY / WET METHOD

The **6** interchangeable **dry and wet** dispersion modules allow fast switching to measure powders, suspensions and slurries.



PARTICLE SHAPE

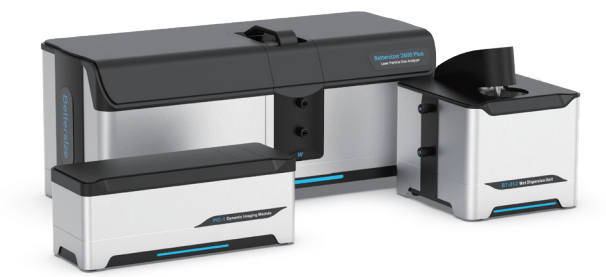
The Bettersizer 2600 Plus equips the PIC-1 with particle shape analysis capability, delivering **32** shape parameters

SMART FULL-PROCESS CONTROL

One click runs the **SOP** dispersion, measurement, cleaning, and reporting —in under **a minute**.

Bettersizer 2600 Plus	
Principle	Laser diffraction technology
Analysis	Mie scattering Fraunhofer diffraction
Measuring range	0.02 - 2,600 µm (wet)* 0.1 - 2,600 µm (dry)*
Measurement time	Less than 10 seconds
Accuracy	≤ 0.5%*
Repeatability	≤ 0.5%*
Number of size classes	100 (adjustable)
Laser	10 mW, 635 nm, Class 1
Detector	92 detectors
Measuring angle	0.016 - 165°

*Sample and sample preparation dependent



PIC-1*	
Magnification	0.5x and 10x
Measuring range	2 - 3,500 µm**
Frame rate	70 fps

*Wet method only
**Sample and sample preparation dependent

Wet Dispersion

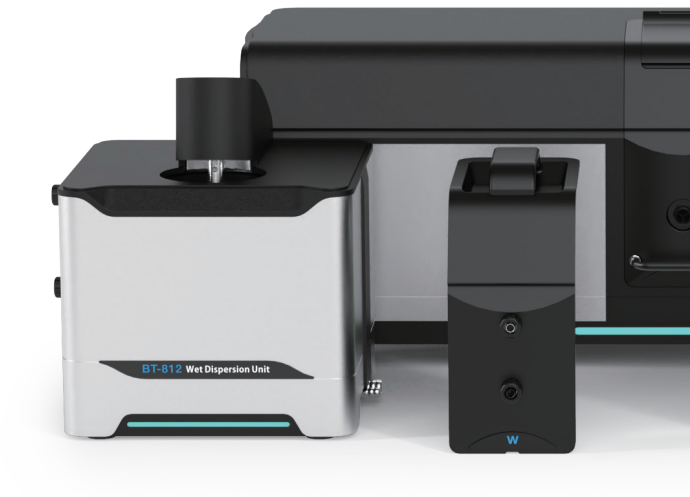
Wet dispersion uses a liquid medium, such as water or organic solvent, to separate particles and prevent agglomeration. Combined with stirring, ultrasound and dispersants dosing, it ensures stable, reliable results for powders, suspensions, or slurries. The Bettersizer 2600 Plus offers dedicated wet dispersion units designed to meet diverse requirements in terms of sample volume, media compatibility, and automation needs.

BT-812

Automatic Wet Dispersion Unit

The BT-812 is designed for efficient particle dispersion when sufficient sample volume is available, using water as the medium. It features automatic surfactant dosing to achieve stable and reliable dispersion quality with minimal operator effort.

BT-812	
Stirring speed	300 - 2,500 rpm
Ultrasonic power	50 W max
Volume	500 mL
Medium	Water
SOP	Yes



BT-80N Pro

Automatic Anti-corrosive Wet Dispersion Unit

The BT-80N Pro is engineered to withstand harsh chemical environments, enabling particle dispersion in many organic solvents.

BT-80N Pro	
Stirring speed	300 - 2,500 rpm
Ultrasonic power	50 W max
Volume	80 - 200 mL
Medium	Water, organic solvent*
SOP	Yes

*Compatibility depends on specific chemicals.
Please contact technical support for guidance.

BT-80N

Anti-corrosive Wet Dispersion Unit

The manual BT-80N is an entry-level wet dispersion unit, compatible with many organic solvents.

BT-80N	
Stirring speed	300 - 3,000 rpm
Ultrasonic power	50 W max
Volume	50 - 80 mL
Medium	Water, organic solvent*
SOP	No

*Compatibility depends on specific chemicals.
Please contact technical support for guidance.

Dry Dispersion

Dry dispersion uses high-speed gas flow and the Venturi principle to generate strong shear forces, particle collisions, and wall impacts, ensuring agglomerates are fully separated for accurate measurement. Bettersizer 2600 Plus offers two dry dispersion units to suit different sample volumes.

BT-912

Automatic Dry Dispersion Unit

The BT-912 is the primary dry dispersion unit for routine powder dispersion using compressed gas. It integrates compressed gas dispersion with an electromagnetic vibration feeder and a high-efficiency Venturi tube to ensure consistent, reliable deagglomeration. A high-transparency observation window allows real-time monitoring of the feeding and dispersion process.

BT-912	
Powder mass	0.2 - 10 g
Air pressure	0.1 - 0.8 MPa
Funnel height	0.7 - 2.9 mm
Medium	Air, nitrogen or noble gases
SOP	Yes

BT-814

Small Volume Wet Dispersion Unit

The BT-814 is specifically designed for small or high-value samples, with dispersion in either aqueous or non-aqueous media.

BT-814	
Stirring speed	Semi-automated
Volume	8 mL
Medium	Water, organic solvent
SOP	No

BT-903

Small Volume Dry Dispersion Unit

The BT-903 is optimized for dispersing small quantities of dry powders. It features automated tube lifting for easy loading and intelligent gas control for precise, effective dispersion of trace samples.

BT-903	
Powder mass	0.02 - 1 g
Air pressure	0.1 - 0.8 MPa
Volume	5 mL max
Medium	Air, nitrogen or noble gases
SOP	Yes

Bettersize

BETTER PARTICLE SIZE SOLUTIONS

Bettersize Inc.

Regional Office East
106 Apple St, Ste 300, Tinton Falls, NJ 07724

Regional Office West
3185 Airway Ave, Suite C2, Costa Mesa, CA 92626

Tel: +1 833-699-7493 (SIZE)

Email: support.us@bettersize.com

16.0120.00.01