



Biuged

Fineness of Grind Gauges

Many types of solid materials must be ground or milled into finer particles for dispersion in appropriate liquid vehicles. The physical properties of the resulting dispersions, often called grinds, depend not only on the actual size of the individual particles, but also on the degree to which they are dispersed.

The Fineness Gauges are used to indicate the fineness of grind or the presence of coarse particles or agglomerates in a dispersion. It does not determine particle size or particle size distribution.

Grind gauges are used in controlling the production, storage, and application of dispersion products produced by milling in the paint, plastic, pigment, printing ink, paper, ceramic, pharmaceutical, food and many other industries.

The Fineness Gauge is a flat steel block in the surface of which are one or two flat-bottomed grooves varying uniformly in depth from a maximum at one end of the block to zero near the other end. Groove depth is graduated on the block according to one or more scales used for measuring particle size.

The degree of dispersion is indicated in Microns or "Hegman". The Hegman scale ranges from 0 to 8 with numbers increasing as the particle size decreases.

0 Hegman = 100 microns particle size

4 Hegman = 50 microns particle size

8 Hegman = 0 microns particle size

The gauge and its scraper are made of hardened stainless steel and have one or two grooves with a graded slope (dependent on the model chosen), graduated in microns, mils, NS (Hegman), Biuged controls precisely every gauge and ensure it has a tolerance of $\pm 2 \mu\text{m}$ (both of upper plan and nether plan flatness is less than $3 \mu\text{m}$).

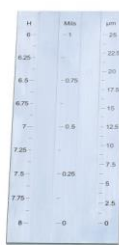
It confirms the below standards **ISO 1524, ASTM D 3333, ASTM D 1210, ASTM D 1316, DIN EN 21524. And all gauges come with Calibration Certificate.**

Procedure

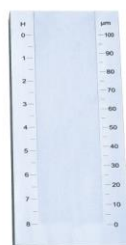
Place a slight excess of sample in the deep end of the groove, and with the straight-edge scraper provided, draw the sample toward the shallow end of the groove. Ratings are in term of the point on the scale where the oversize particles, or furrows made by them, first appear in substantial concentration.



BGD 241



BGD 242



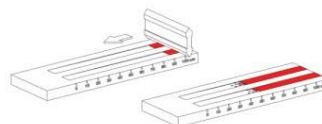
BGD 244



Groove



Package



Operation

Description	Order Information	Groove Size (L×W)	Ranges	Overall dimension	Graduation	Number of Grooves	Unit
Single-Channel Grind Gauge	BGD 241/0	140 × 12.5mm	0–15um	170 × 50 × 13mm	0.75um	1	um/ Hegman
	BGD 241/1	140 × 12.5mm	0–25um	170 × 50 × 13mm	1.25um	1	
	BGD 241/2	140 × 12.5mm	0–50um	170 × 50 × 13mm	2.5um	1	
	BGD 241/3	140 × 12.5mm	0–100um	170 × 50 × 13mm	5um	1	
	BGD 241/4	140 × 12.5mm	0–150um	170 × 50 × 13mm	7.5um	1	
Double-Channel Grind Gauge	BGD 242/0	140 × 12.5mm	0–15um	175 × 65 × 13mm	0.75um	2	um/ Hegman/ Mils
	BGD 242/1	140 × 12.5mm	0–25um	175 × 65 × 13mm	1.25um	2	
	BGD 242/2	140 × 12.5mm	0–50um	175 × 65 × 13mm	2.5um	2	
	BGD 242/3	140 × 12.5mm	0–100um	175 × 65 × 13mm	5um	2	
Wide-Channel Grind Gauge	BGD 244/1	140 × 37mm	0–25um	175 × 65 × 13mm	1.25um	1	um/ Hegman
	BGD 244/2	140 × 37mm	0–50um	175 × 65 × 13mm	2.5um	1	
	BGD 244/3	140 × 37mm	0–100um	175 × 65 × 13mm	5um	1	



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