

Fineness of Grind Gauges

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 Gauges 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 (μm or Hegman (H), 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).

Description	Order Information	Groove Size (L×W,mm)	Ranges (μm)	Overall dimensions (mm)	Graduation (μm)	Number of Grooves	Unit
Single-Channel Grind Gauge	HG 201/0	155×12.5	0- 15	175×65×13	1.0	1	$\mu\text{m}/$ Hegman
	HG 201/1	155×12.5	0- 25	175×65×13	2.5	1	
	HG 201/2	155×12.5	0- 50	175×65×13	2.5	1	
	HG 201/3	155×12.5	0-100	175×65×13	5.0	1	
	HG 201/4	155×12.5	0-150	175×65×13	7.5	1	
Double-Channel Grind Gauge	HG 202/0	155×12.5	0- 15	175×65×13	1.0	2	$\mu\text{m}/$ Hegman
	HG 202/1	155×12.5	0- 25	175×65×13	2.5	2	
	HG 202/2	155×12.5	0- 50	175×65×13	2.5	2	
	HG 202/3	155×12.5	0-100	175×65×13	5.0	2	
	HG 202/4	155×12.5	0-150	175×65×13	7.5	2	
Wide-Channel Grind Gauge	HG 203/0	155×37	0- 15	175×65×13	1.0	1	$\mu\text{m}/$ Hegman
	HG 203/1	155×37	0- 25	175×65×13	2.5	1	
	HG 203/2	155×37	0- 50	175×65×13	2.5	1	
	HG 204/3	155×37	0-100	175×65×13	5.0	1	