

TIDAS - Automated Fineness Of Grind Measurement



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- Repeatable and consistent
 - 100% objective
 - Archive of measured samples
 - Automatic drawdown

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TIDAS automates the analysis of samples using a Hegman gauge. Fineness of grind is determined automatically and objectively, removing operator variation to ensure repeatability.

Overview

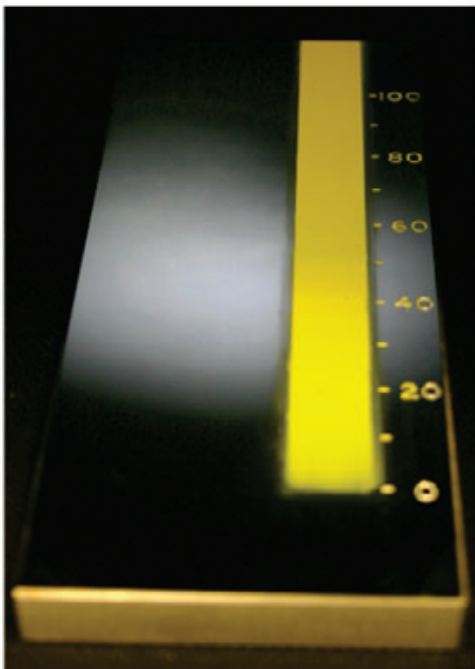
TIDAS objectively measures the dispersion of particles within a solution.

This automated instrument has been in production since 1997, bringing an objective solution to what has traditionally been a very subjective test.

Following an automated drawdown, the sample is viewed by a high resolution camera at a shallow angle. The image produced, generated by scattered light, forms a histogram of particle distribution. The image is processed using a customised algorithm to generate the rating.

Images are retained for quality assurance and product improvement purposes.

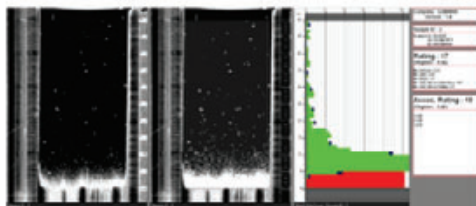
TIDAS works with a wide range of gauge sizes and can be customised to meet the exacting requirements of each business.



Advantages

Automated

Every machine provides the same result for the same sample. Human and environmental influences are virtually eliminated allowing global consistency.



Savings

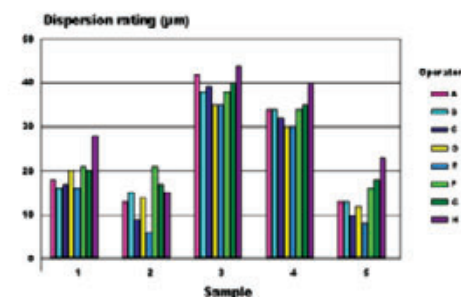
Inefficiencies such as overgrinding can be fine-tuned, saving both time and money. Raw materials can be systematically tested before acceptance from suppliers.

Robust

TIDAS has a long operational life, typically >12 years, due to being constructed from the same high quality components used in our robotic systems built to operate 24/7. TIDAS software is continually improved. We offer free software updates for life.

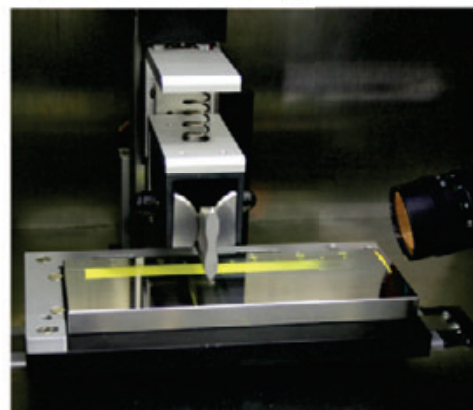
Reproducibility

The graph below shows a set of results produced by a team of operators from a coatings manufacturer. It demonstrates the typical variations from human operators. It is this subjectivity that TIDAS removes.



Features

- Low voltage components: Ethernet interface to PC compatible with Microsoft Windows 32 and 64 bit
- LED array camera with Fresnel lens
- Raw and processed images stored
- Fast analysis (15 seconds) provides a consistent time between drawdown and rating, invaluable when testing volatile substances
- User definable drawdown speeds
- Differentiation between true particles and air bubbles/erroneous matter
- Algorithm can be customised by the user for a tailored rating



In-house testing

Send us 50ml samples of your products. We will test their suitability to TIDAS and send a full report of results. This service is free of charge.

Loan package

Trial TIDAS in your labs for up to 3 months, a great way to fully experience and evaluate the technology.

More information

For more information, video and a demo of the software visit www.labman.co.uk/TIDAS

“Tidas has resulted in significant time savings and improved workflow in our lab.”

Applied technology manager for a major US and global producer of pigments for coatings