

ADJUSTABLE MICROMETER FILM APPLICATORS LD3570, LD3571, LD3572, LD3573

DATASHEET

PRODUCT DESCRIPTION

These applicators are adjustable micrometer film applicators ergonomically designed to facilitate fast and accurate drawdowns. Perfectly suited for research projects where small variations in film thickness need to be evaluated accurately.



BUSINESS

Coating laboratories, paint production

STANDARDS

ASTM D 823

FEATURES

- No springs to break, to rust or get clogged
- Detachable blades for easy cleaning
- Enhanced accuracy
- Ergonomic design facilitates fast and accurate drawdowns
- Replacement blades are easy to install & calibrate

SCOPE OF SUPPLY

- An SS knife blade, that is fitted into slots at the end section, allows vertical adjustment of the blade.
- Two micrometer barrels that can be easily set so that gate clearances can be adjusted from 0-0.250" in increments of .001" w/resolution to .0005". The cylinders and screws of the micrometers are in dull chrome.
- An anodized aluminum frame with 2 end sections that provide a large paint storage. The end sections also serve as ergonomic operator hand grips when drawing down wet films.
- The SS blade is held firmly in place with magnets which allow a quick and easy detach and cleaning (the 2" applicator doesn't use magnets but uses one non-rotating spindle micrometer that is fixed to the blade with screws).

ORDERING INFORMATION

LD3570	Adjustable micrometer film applicator, width 75 mm
LD3571	Adjustable micrometer film applicator, width 100 mm
LD3572	Adjustable micrometer film applicator, width 200 mm
LD3573	Adjustable micrometer film applicator, width 150 mm

USE

Calibration

Before use, check the zero settings of the micrometers. Place the applicator on a polished granite block or on a glass plate of suitable size. Set micrometers at zero. When the applicator is placed between the observer and a bright light, the blade should touch the glass from end to end without the side plate being elevated. The zero point should check within ± 0.0005 ". If it doesn't and settings are required, simply set the micrometers to zero, loosen the clamp screws, press the knife blade down onto the glass plate, press the micrometers down until the barrels are against the blade and then tighten the clamps.

Cautionary note : Make sure that there's no foreign matter, such as iron fillings, adhering to the blade magnets as this might result in improper applicator calibration.

Measurement

Place the applicator at the upper end of the test panel. Pour the coating right in front of the knife blade. Draw the applicator towards the lower end of the panel at an approximate uniform rate of 10 to 12 inches (250-300 mm) per second. Clean the applicator immediately after use and dry the blade thoroughly.

Caution: Do not wet or submerge micrometer heads.

SPECIAL CARE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over.
- Always clean the instrument after use.
- Clean the instrument using a soft, dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Always keep the instrument in its case when it's not in use.

DISCLAIMER

The right of technical modifications is reserved.

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