

## DM-13 Series

## Differential Micrometer

## Key Features

- Dual-sensitivity, 1  $\mu\text{m}$  and 0.07  $\mu\text{m}$  positioning
- 13 mm coarse travel
- 0.2 mm fine travel
- Direct upgrade for SM Series Micrometers
- No differential harmonics

Compatible with these stages\*:

- 461/462 Series
- 561/562 Series
- 423 Series
- 426 Series
- 460P Series
- 460A Series
- 401/406 Series
- RS Series

\*in addition to many of our modular optical mounts.



DM-13

**DM-13 Differential Micrometers offer sub-micron resolution** in a unique design that achieves long range and fine adjustability in a single micrometer. Model DM-13 has a 13 mm overall range with 0.2 mm fine adjustment range. It employs the

same mounting bezel as our standard SM Series micrometers, so it may be used to easily upgrade an existing instrument to provide, in most cases, a factor of 10 improvement in resolution.

In effect, we have built a differential micrometer outside of a standard micrometer—a simple concept that is difficult to implement. The motion it provides is exceptionally smooth and crisp, without tightness or difficult turning. DM-13 provides excellent linearity and absolute accuracy better than 1%, and its unique design exhibits no harmonic motion errors typical of conventional differential screws.

## Specifications

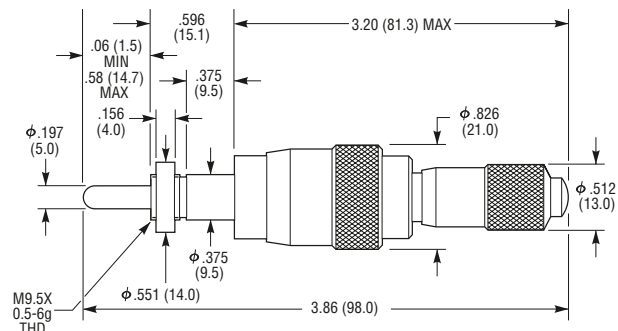
	Coarse	Fine
Travel (mm)	13	0.2
Graduations ( $\mu\text{m}$ )	10	0.5
Sensitivity ( $\mu\text{m}$ )	1	0.07
Backlash* ( $\mu\text{m}$ )	1	<0.5
Accuracy	Better than 1%	
Load Capacity [lb (N)]	20 (90)	

\* Load dependent

## Ordering Information

Model	Description	Price
DM-13	Differential Micrometer	\$395
DM-13A	Differential Micrometer for 462 Stages	\$395
DM-13B	Differential Micrometer for M-462 Stages	\$395

## Model DM-13



See our website for CAD files.