



# PRODUCT FEATURE:

## Micropositioners



Ealing offers three different ranges of manual micropositioners: MicroMech™ (compact size), MiniMech™ (mid-size), and MacroMech™ (large). The selection of the most appropriate range is determined by several key criteria; such as, range of travel, resolution, and reading accuracy.

### Range of Travel

Linear stages provide a wide choice of travel from 6.5 mm with micrometer-driven MicroMech™ stages to 50 mm with micrometer-driven MacroMech™ stages.

### Resolution or Minimum Incremental Movement

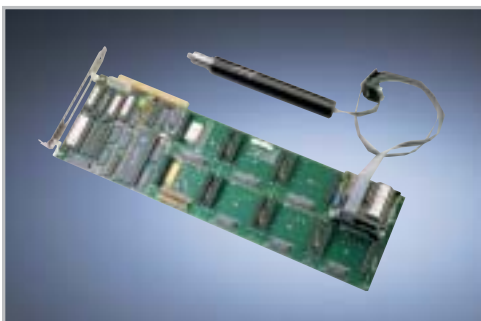
This is the smallest controllable movement of a stage (i.e. the smallest movement achievable by hand on thumbscrew or micrometer-driven stages). It is specified individually for each manual micropositioner. When using stages fitted with MotorDrivers™ or EncoderDrivers™, much higher resolutions or smaller movements are achievable using push-button control or computer control respectively.

### Motorization

Many of the manual micropositioners can be fitted with either MotorDrivers™ (open-loop dc motor operation) or EncoderDrivers™ (computer controlled closed-loop encoder operation). They simply replace the normal manual micrometer head fitted to the stage.

MotorDrivers™ allow remote control of a stage when used in conjunction with a MotorDriver™ control unit and suitable power supply. They can also improve the resolution of a linear stage, resolving 0.1  $\mu\text{m}$  for one press of the control button.

EncoderDrivers™ convert a manual stage to a computer-programmable micropositioner capable of sub-micrometer resolution. Up to eight stages with EncoderDrivers™ may be controlled from a PC with one drive card and eight plug-in modules installed.



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50 years

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