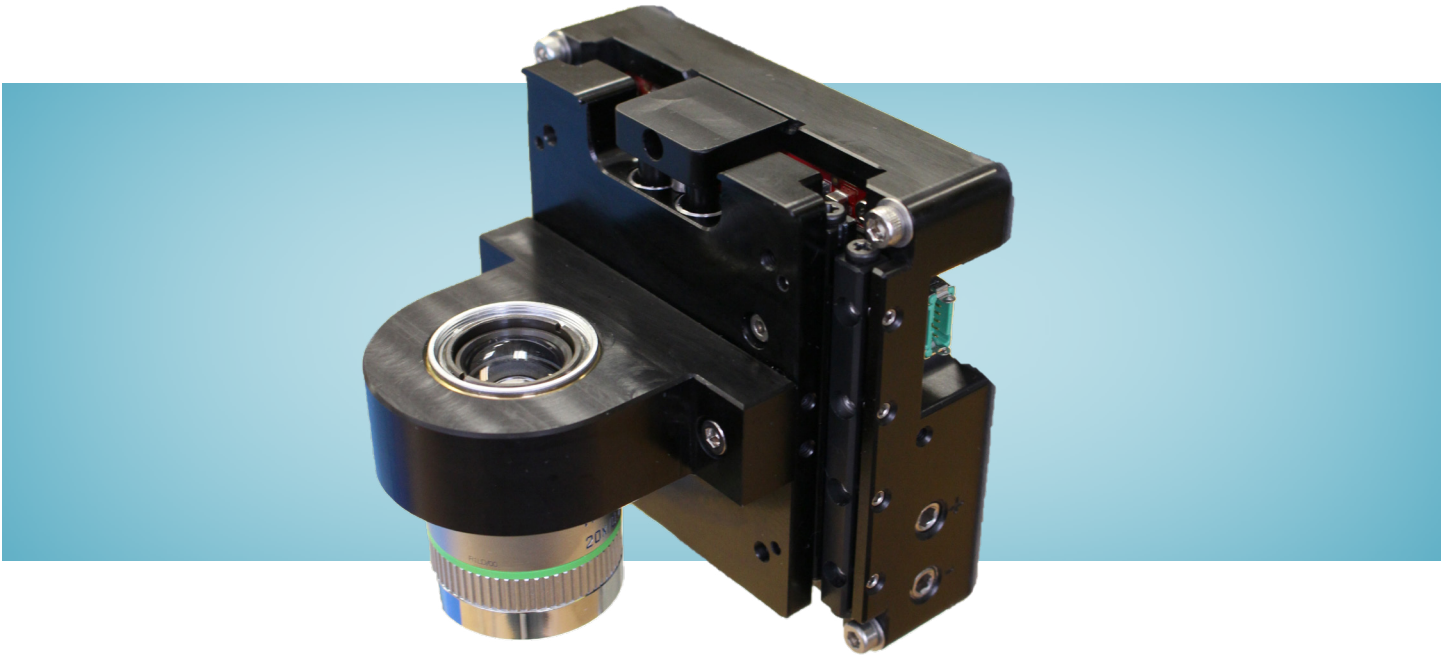


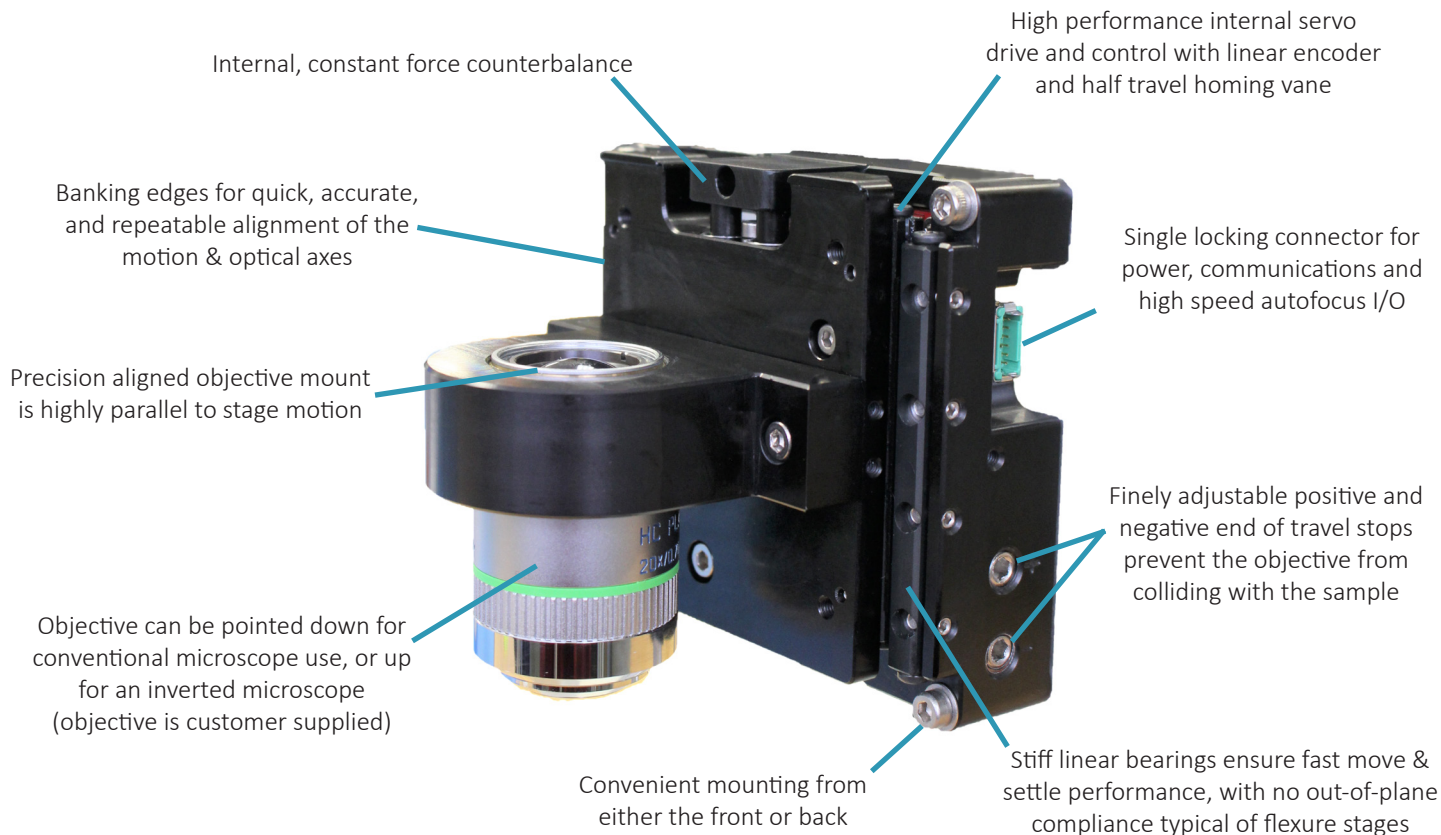
DOF-5 Objective Focusing Stage



A Compelling Alternative To Piezo Focusing Stages

- 5mm travel provides application flexibility lacking in short-stroke piezo/flexure stages
- Internal, high performance servo drive and control reduces system cost and cabling
- High servo bandwidth, fast move & settle, very low position jitter
- Integrated optical linear encoder with 1.25 or 5 nm resolution
- Constant force counterbalance prevents objective crashes and minimizes motor heating

A Better Way to Focus!



| Description | Value |
|---|--------------------------|
| Travel (mm) | 5 |
| Bidirectional Repeatability (nm) (short term) | 15 |
| Objective Mass (g) ¹ | 100 - 1,000 ² |
| Servo Bandwidth (Hz) | ≥ 150 |
| Encoder Feedback Resolution (nm) | 1.25 or 5 |
| Position Holding Stability (± nm) | 35 |
| Maximum Velocity (mm/s) | 125 ³ |
| Maximum Acceleration (m/s ²) ⁴ | 6 |
| Step and Settle (100 nm within ± 35 nm) | < 10 ms |
| Dimensions (mm) (excluding objective mount) | 77H x 82W x 30D |
| Communications options: RS232, 485, CAN, SPI, or step & direction | |

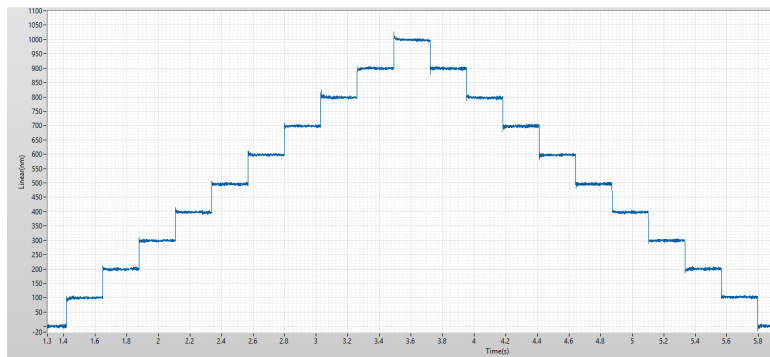
¹ Other loads can be supported, for info contact Dover Motion

² Counterbalance factory optimized for specific objective mass

³ Maximum velocity with 5nm encoder resolution

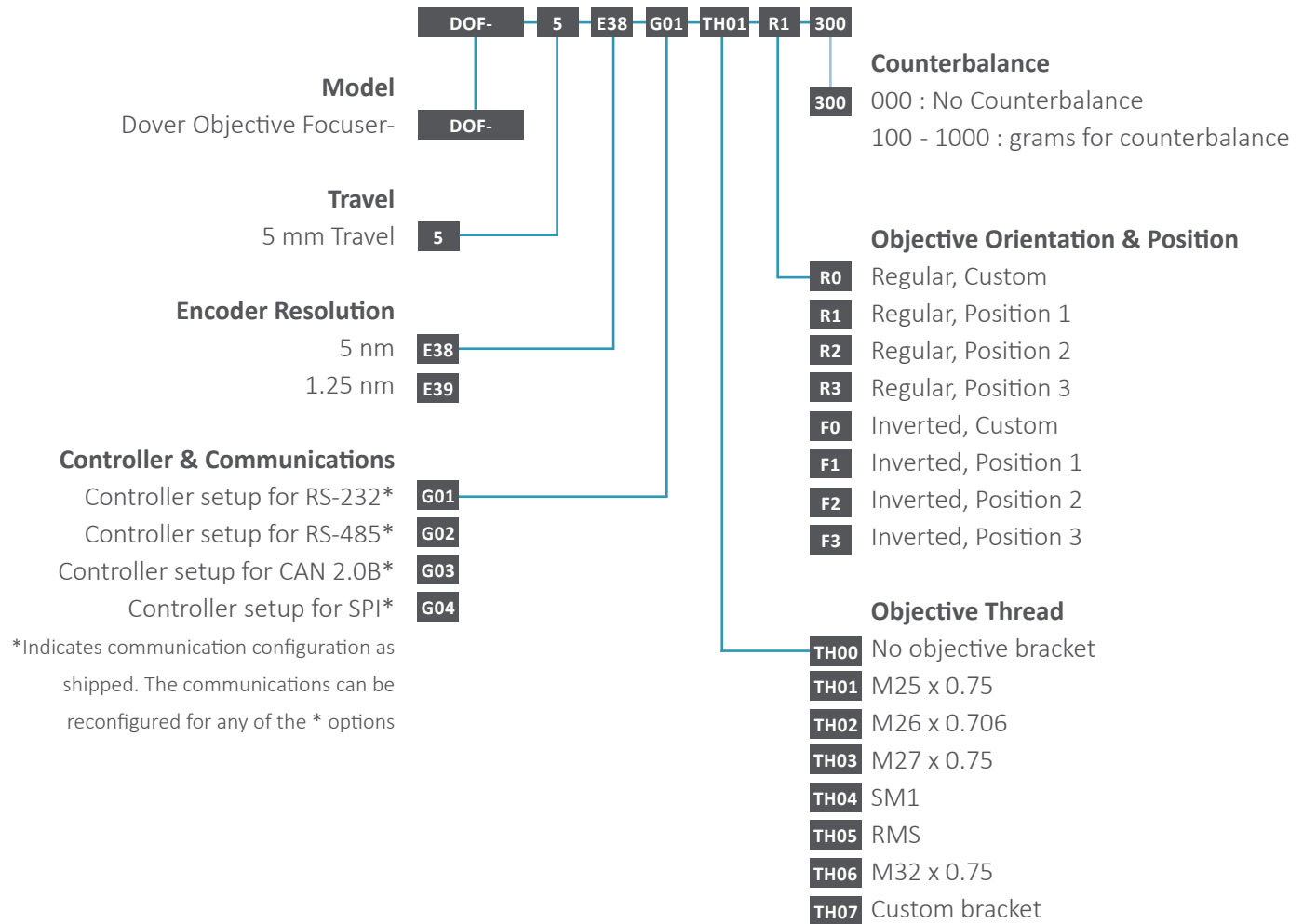
⁴ Maximum acceleration used on 1 kg objective mass

* Preliminary data sheet, specifications subject to change



Staircase plot of 100 nm moves
(Laser Interferometer Data sampled at 10kHz)

Configurator



*Indicates communication configuration as shipped. The communications can be reconfigured for any of the * options