

H117 ProScan™ Stages for Nikon TE2000 Microscopes

114mm x 75mm travel, flat top motorised scanning stages for Nikon TE2000 Microscopes



Specifically designed and manufactured to fit onto the Nikon TE 2000 microscope range, this member of the H117 family of flat top stages sets new standards for both convenience and performance.

With Intelligent Scanning Technology (IST) as standard, up to 10 nm resolution and a mean repeatability of just $\pm 0.2 \mu\text{m}$, and the option of upgrading the system with a linear encoder, the H117 is accurate enough for the most demanding applications. Meanwhile, a large travel range and an expansive, flat top design which is designed to seamlessly integrate with other items such as micromanipulators and incubation chambers provides a practical, versatile stage suitable for a wide range of applications. This flexibility can be greatly increased by using Prior's large range of sample holders with the stage, allowing a vast range of potential samples to be imaged.

Designed especially for Nikon TE2000 inverted microscopes and compatible with the Definite focus system, this stage can be controlled by Nikon Elements in addition to many other imaging packages.

H117 for features

- Choice of 1 mm or 2 mm pitch high precision ball screws
- Anti-backlash mechanism
- Adjustable limit switches
- Choice of motor type
- Intelligent Scanning Technology as standard
- Linear encoders available
- Up to 10 nm resolution and a mean repeatability of $\pm 0.2 \mu\text{m}$
- Travel range of 114 x 75 mm
- Compatible with Nikon Elements*
- Compatible with Definite focus system*.

*All brands are trademarks or registered trademarks of their respective owners.

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Specifications*

Performance	H117P2TE	H117P1T4	H117E2TE	H117E1T4
Mean Uni-Directional Repeatability**	0.2 µm	0.2 µm	0.2 µm	0.2 µm
Minimum Step Size	0.04 µm	0.01 µm	0.04 µm	0.01 µm
Maximum Speed	60 mm/s	15 mm/s	60 mm/s	15 mm/s
Average Metric Accuracy***	0.06	0.059	0.057	0.046
Maximum Travel Range	114x75 mm	114x75 mm	114x75 mm	114x75 mm
Maximum Load	10 kg	10 kg	10 kg	10 kg
Squareness	30 arc sec	30 arc sec	30 arc sec	30 arc sec
Weight	5kg	5kg	5kg	5kg
Ball Screw Pitch	2 mm	1 mm	2 mm	1 mm
Motor Type (SPR****)	200	400	200	400
Encoders	No	No	Yes	Yes

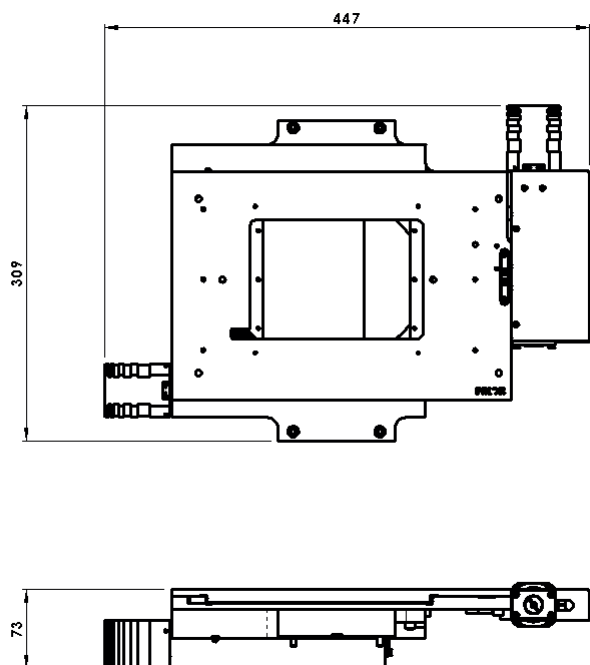
*Requires the use of a Prior ProScan™ II or above controller and are based on Prior method of testing.

** Mean value using a Prior ProScan™ controllers with backlash enabled, measured over full range of travel.

*** Based on performance with IST enabled and measured over the full range of travel.

****S.P.R: Full steps per revolution of motor

Dimensions



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