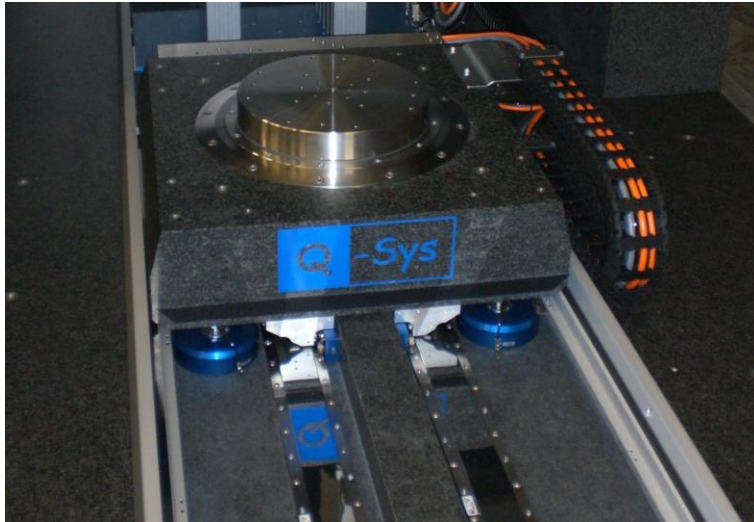
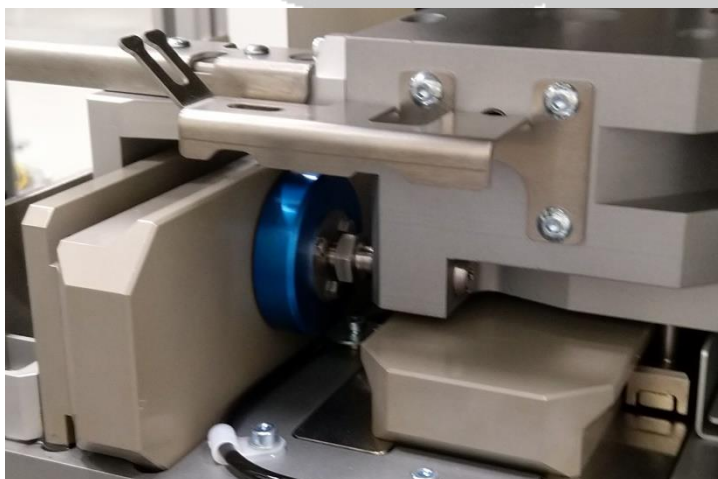
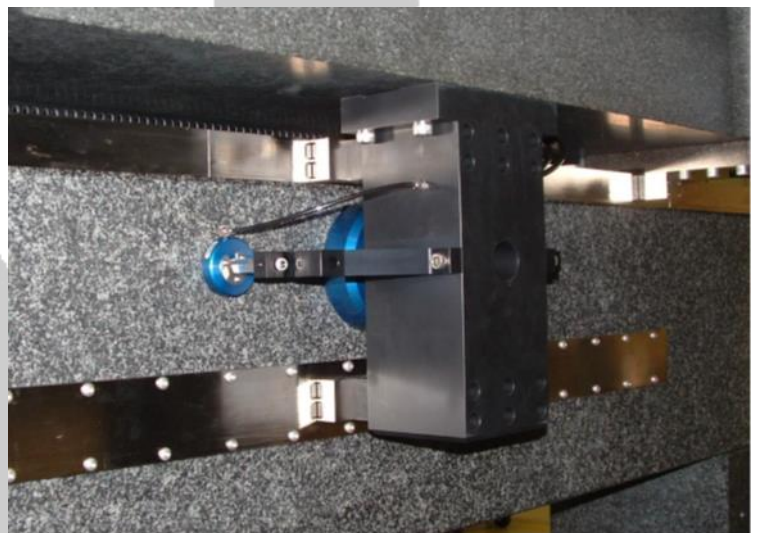


Air Bearing Stages



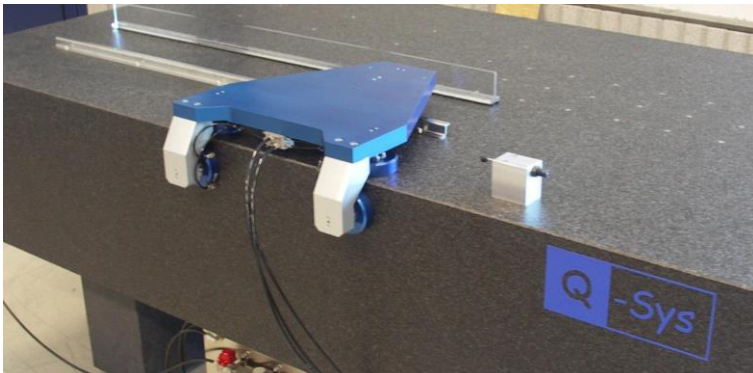
- Ultimate accuracy, both positioning and geometrical
- High speed and acceleration possible
- High reliability, no friction and no wear
- Smooth and silent motion
- Clean room compatible
- Custom configurations

Q-Sys have a great deal of experience of incorporating air bearings into single and multi-axis systems for individual requirements. Repeatable precision is achieved by maintaining a constant air gap of just a few microns, using one of a number of pre-loading techniques depending on the specifics of the application.



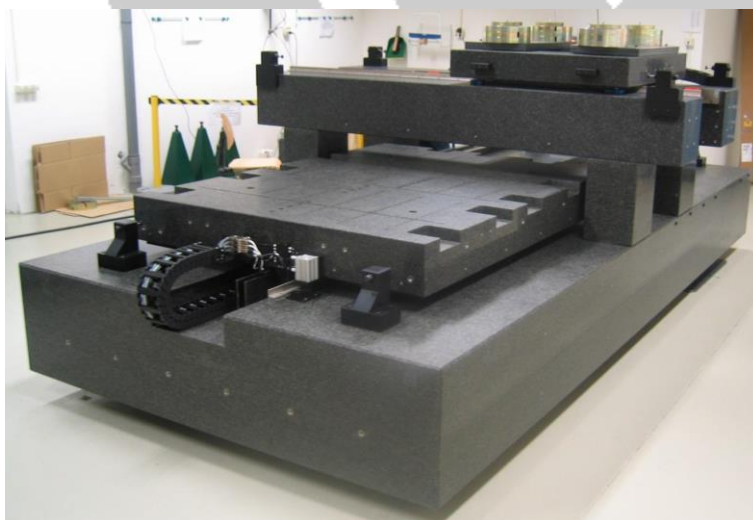
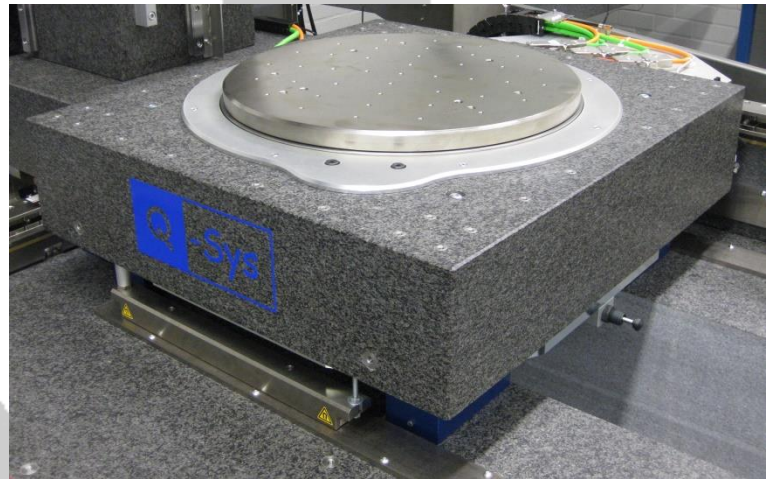
Air bearing systems can be scaled to a wide range of payloads, from ultra light to very large. Designs based on air bearings can even be favorable in cost compared to more traditional guideway solutions like recirculating ball bearings.

Examples



This metrology bench uses vacuum pre-loaded bearings to maintain a constant air gap and to avoid introducing any local stress in the granite bearing surface.

This direct drive rotary stage employs a granite base for stability and provides a high precision platform. Also available with large through hole of 320mm diameter allowing access from both top and bottom. Payload capacity up to 300kg.



This large format split axes platform uses a combination of granite base and granite slides with air bearings for both lift and guidance. The resulting system has superb stability and is used in a laser ablation tool for FPD masters.

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