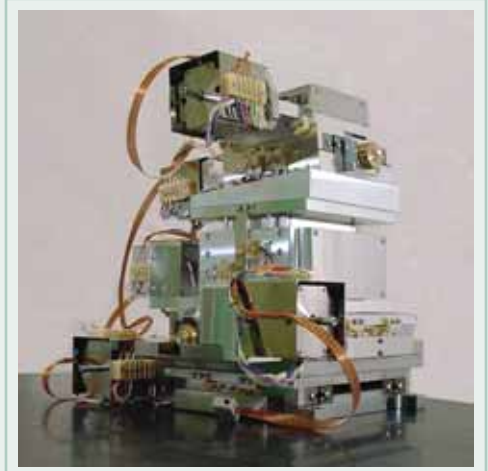
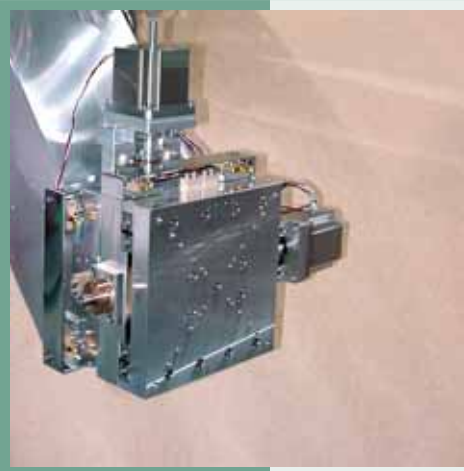


Vacuum stages that set the bar higher!

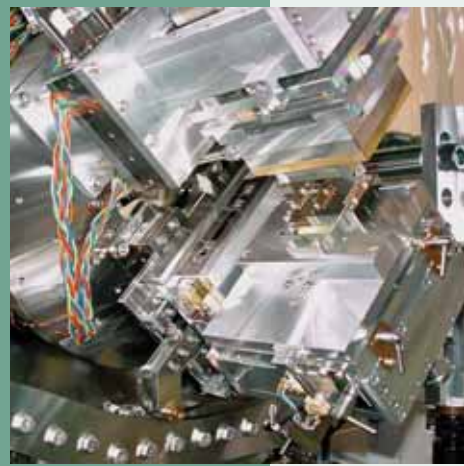
Kohzu offers the largest selection of precision motorized vacuum-compatible motion stages, featuring five distinct grades of vacuum conditioning, covering the 10^{-3} to 10^{-9} mbar pressure range.

Kohzu's years of developing customized in-vacuum motion solutions for Synchrotron science have yielded a motion instruments product line of unsurpassed quality, reliability and performance. Today, thousands of Kohzu vacuum stages can be found inside double-crystal monochromators at synchrotron beam-lines around the world. Sub-micron accuracy is no longer limited to air-service motion mechanics.

10^{-9}
mbar



10^{-3}
mbar



UHV Product Features

- UHV Compatibility to 10^{-9} mbar
- Sub-Micron Accuracy
- Bakeable to 180° C
- Grease or Solid Lubricants
- Radiation Resistant Wire Insulation
- 5-Phase Stepper Motors (2-Phase Optional)

Technical Notes :

Prior to accepting an order for MV, HV, UHV and OF-UHV stages, a thorough review of technical requirements will be conducted to determine the best possible solution.

Grease and/or oil lubrication is present in all vacuum stages with the exception of oil-free OF-UHV conditioned stages.

Oil-free, OF-UHV vacuum conditioning is not available for all stage models. Please contact factory for more information on this limitation.

Stages fitted with mechanical travel limits, MV, HV, UHV and OF-UHV will not include near-origin (NORG) and origin (ORG) sensors. If application permits, optional magnetic proximity sensors can be provided for an additional fee.

Most stages can be fitted with optional linear encoders (angular encoders for rotary stages). Contact factory for specifications and pricing.

Belt driven stages are only available in LV configurations, as belt material is incompatible with MV, HV, UHV and OF-UHV vacuum environments.

Please note that in-vacuum motors will generate outgassing during operation and motor warm-up. Kohzu can not guarantee specific outgassing rates and/or outgas-free operation.

Low Vacuum, 10^{-3} mbar

Vacuum compatible lubricant exchange. Other components including motors, optical sensors, wires, connectors, anodized surface finish, brass and steel are the same materials found on standard air-service motion stages. Non-Bakeable

Medium Vacuum, 10^{-5} mbar

Vacuum compatible materials including lubricants, motors, mechanical limits, wires, connectors, non-anodized surface finish (raw aluminum). Components such as steel or brass guides and bearings remain the same as materials found on standard air-service motion stages. Non-Bakeable

High Vacuum, 10^{-7} mbar

Vacuum compatible materials including lubricants, motors, mechanical limits, wires, connectors, non-anodized surface finish (raw aluminum), stainless steel or phosphor-bronze guides and bearing surfaces. Non-Bakeable

Ultrahigh Vacuum, 10^{-8} mbar

Materials including grease, motors, mechanical limits, wires, connectors, stainless steel body and all other unspecified materials are guaranteed to be UHV compatible. These stages are bakeable to 150° C

Oil-Free Ultrahigh Vacuum, 10^{-9} mbar

Oil-free stages use solid lubricant technology on guides and bearings. Materials including motors, mechanical limits, wires, connectors, stainless steel body and all other unspecified materials are guaranteed to be UHV compatible. These stages are bakeable to 180° C

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Feedthroughs & Accessories

For in-vacuum electrical interfaces, Kohzu offers a variety of connectivity solutions including Conflat® mounted D-Subminiature feedthroughs, PEEK connectors and Kapton® or Irrax® insulated wiring suitable for demanding HV, UHV and radiation harsh environments.

