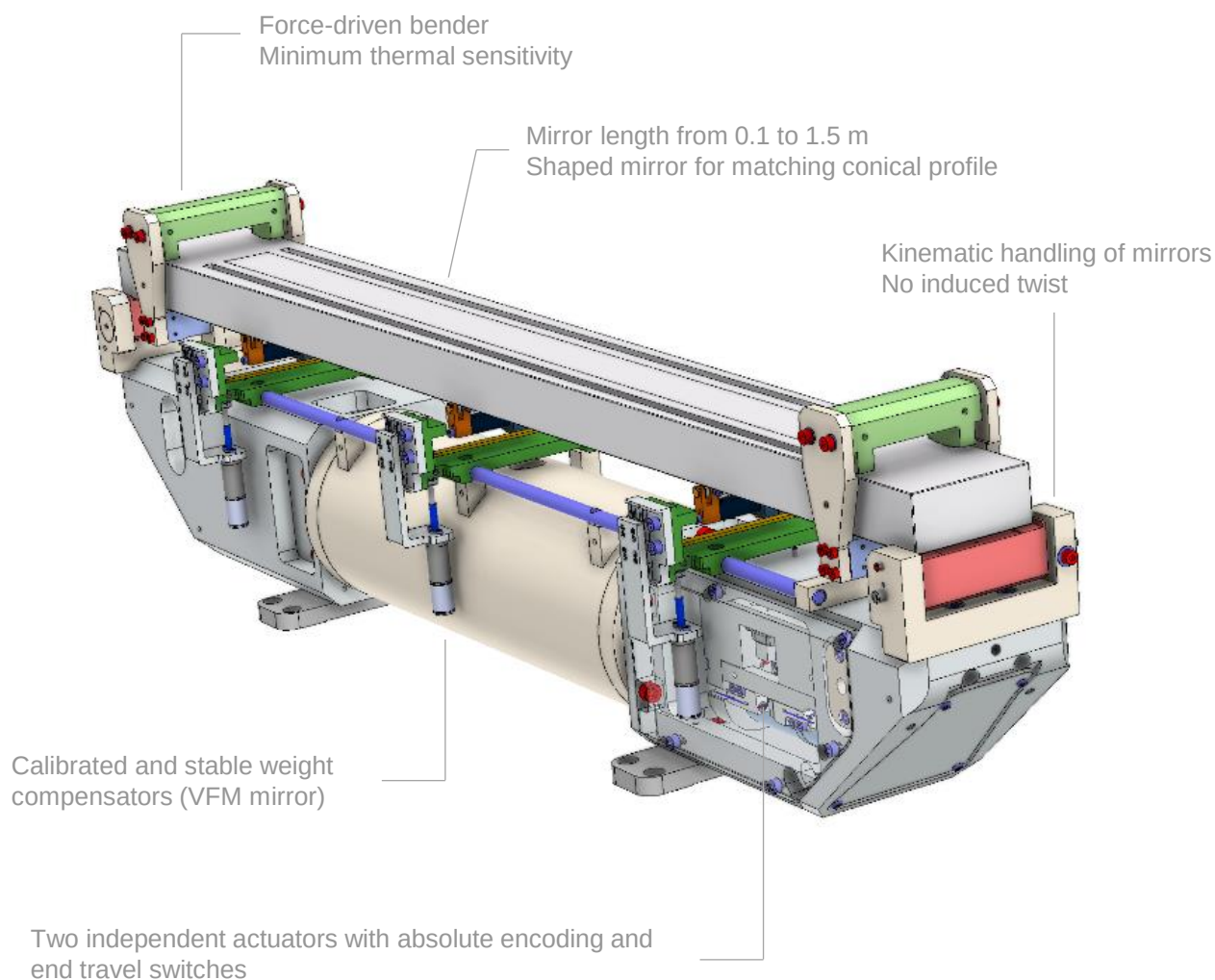


Bending system | IR-B-2

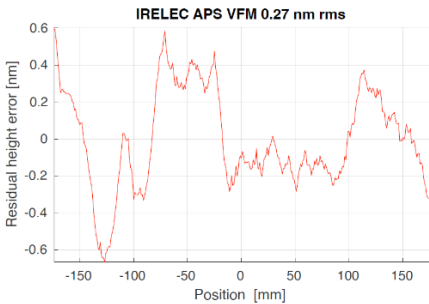
A decisive asset for a fine control of the mirror desired shape whatever the optical configuration



Bending system | IR-B-2

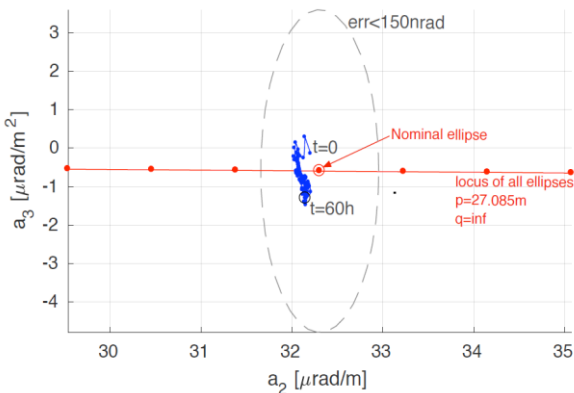
Performances

Tangential slope error	< 100 nrad rms / target shape
Bending range	From 50 m to ∞
Resolution	$\Delta R/R \leq 0.01\%$
Long term stability	$\Delta R/R \leq 0.05\%$
Vacuum compatibility	10^{-10} mbar



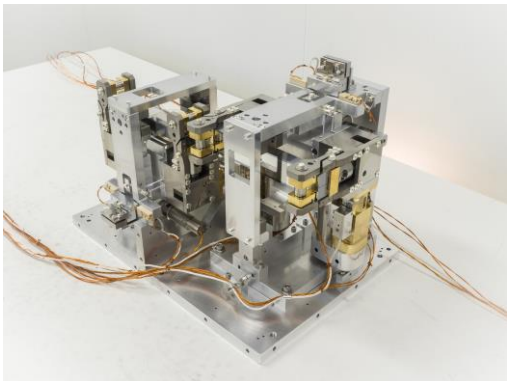
Distinguished advantages

Fine control of the bent shape
No twist induced
Independent bending moments
No sensitive to thermal effect
UHV compliant
Custom integration



Options

Mirror long-period error compensation
Cooling system
Compact version



Reference & Publications

MAX IV, PETRA III, NSLS II, ESRF, SOLEIL, DIAMOND, ALBA, ANKA, APS, NSLS II, Australian Synchrotron, DELTA, INDUS II, Eu-XFEL, SHINE

J. Juanhuix et al., J. Synchrotron Rad. (2014), 21, 679-689.
Developments in optics and performance at BL13-XALOC, the macromolecular crystallography beamline at the Alba Synchrotron.

T. Plivelic et al., AIP Conference Proceedings 2054, 030013 (2019) – X-ray tracing, design and construction of an optimized optics scheme for CoSAXS, the small angle x-ray scattering beamline at MAX IV laboratory.