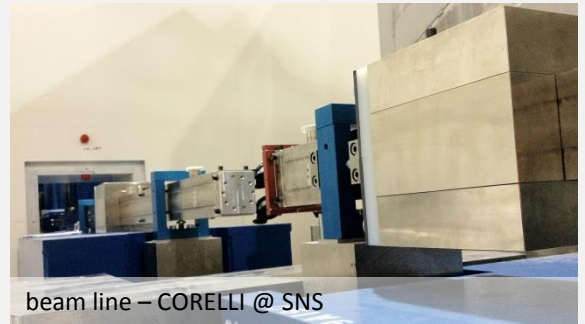


GUIDE SYSTEMS & BEAM LINES

Engineering, design, fabrication, delivery, installation,
and documentation



beam line – CORELLI @ SNS

Mechanical equipment for neutron guides

- vacuum casings; maximum length 8 m
- vacuum steel jackets with enhanced shielding features
- all casings on kinematic mounts
- vacuum connections between casings:
 - steel bellows
 - rubber (EPDM) bellows
- thin neutron windows
- sealing gaskets
 - rubber (EPDM)
 - metallic
- dedicated interfaces to chopper, shutter, etc.
- dedicated inserts for in-pile and shutter sections
- precision linear translation systems for guide changers



elliptic guide ($3 \leq m \leq 6$) – SPICA @ JPARC

On-site installation

- laser tracker & 3d measurement arm assisted
- improved accuracy of guide alignment
- handling complex alignments, e.g. in high radiation areas
- fully compatibility with CAD data
- detailed validation before delivery
- characterisation (in lab) for installation (on site)
- full documentation
- long-term monitoring of alignment possible



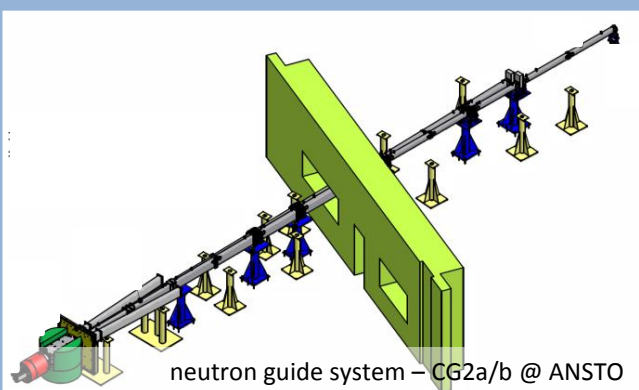
ANSTO shutter drum – remote characterisation before installation in radiation field

SwissNeutronics is certified partner of

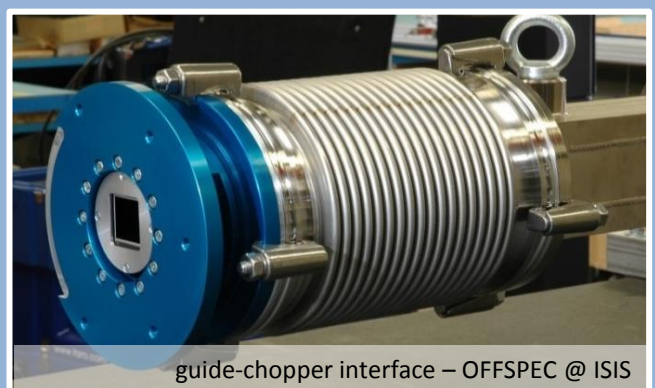


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neutron guide system – CG2a/b @ ANSTO



guide-chopper interface – OFFSPEC @ ISIS