



- Diakont maintains an entire fleet of robotic inspection and intervention tools
- Custom systems can be developed and qualified on a fast track timeframe
- Robots are modular in nature, for flexibility across plants and projects
- All systems are designed within quantitative probabilistic FMEA parameters



Diakont containment inspection robot

AURORA – Automated measurement and cleaning of RPV and head flanges

The AURORA system provides automatic profiling of the sealing grooves on the RPV flange and RPV head flange. Measurement is conducted using laser-holographic technology. The compact size and weight of the system allow for rapid deployment, and easy decon and storage.



LST-TST delivery robot

LST-TST – Remote measurement of fuel tube Telescopic Joint Tracts (TST)

The LST-TST is a multi-robot system that performs inspection and intervention of RBMK fuel tubes. Going past the ring-reflector screen inside the reactor, one of the robots performs high precision laser alignment measurements at distances up to 12 meters. The robot's radiation-tolerance and compact size allow it access into the critical core area, through a 570 mm entrance diameter. On fuel tubes that are misaligned, the intervention robot then installs a collar, works with the inspection robot to align it properly, and then welds the collar in place.

Features:

- Evaluation, measurement, and repair of internal component engagement
- Identification of defects (IGSCC, IASCC, fatigue and wear)
- Exam conducted with fuel remaining in place
- Metrologic-certified accuracy (error within 3 mm)
- Drastically reduces outage time and dose reduction



LST-TST intervention robot

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