BILFINGER NOELL GMBH

REACTOR INTERNAL SPECIAL TOOLS

FOR MANUAL UNDERWATER HANDLING



The Reactor Internal Special Tools

are designed for manual underwater handling of instrumentation Lances, Control Rod Drive Shafts and Level Measurement Probes.

The Reactor Internal Special Tools participate in tasks necessary to assemble or disassemble the core in the nuclear phase during refueling outages.

References

• Finland: NPP Olkiluoto ,
• France: NPP Flamanville 3
China: NPP Taishan 1 & 2





CRD Shaft Handling Tool



Instrumentation Lance Handling Tool



Instrumentation Guide Funnel Tool

Purpose of the Tools

- Latching/unlatching of Control Rod Drive (CRD) Shafts
- Removal and insertion of Control Rod Drive Shafts
- Removal and insertion of Instrumentation Lances (IL)
- Removal and insertion of Level Measurement Probes (LMP)
- Transportation of Control Rod Drive Shafts, Instrumentation Lances and Level Measurement Probes
- Guiding of Instrumentation Lance fingers during insertion
- Cutting of defective lance fingers