



ADVANCED TECHNOLOGIES GROUP



www.diakont.com

A GLOBAL LEADER

Diakont is a full-cycle engineering, manufacturing, and service company, providing high-tech solutions that enhance the safety and economy of the nuclear power industry.

At Diakont, we are committed to our role of being a world-class leader in the development and supply of high-quality, reliable equipment and services to our clientele.



MODERN MANUFACTURING EXCELLENCE

KEY FACTS

- A trusted supplier for over **20 years**
- Driven by a global workforce over **800 employees** strong
- Facilities or distributors currently operating in 8 countries
- Committed to continual improvement, with ISO 9001:2008 and 10CFR50 Appendix B compliance
- With over a dozen US, Russian, and International patents issued or pending
- And supported by vertically-integrated internal manufacturing capabilities

CORE CAPABILITIES

- Digital balance-of-plant I&C systems
- Radiation-tolerant video systems for inspection and monitoring
- Inspection and repair robots and manipulators
- Nuclear fuel loading and handling equipment
- NDE diagnostic equipment and services

KEY MARKETS



- Fabrication and assembly operations are housed in Diakont's **160,000 ft² principal manufacturing facility**
- Diakont operates a fleet of **modern CNC machines**, with up to 2-micron precision
- Complex-geometry parts are fabricated using **5-axis mills and EDM machines**
- Radiation-tolerant optical lens assemblies are fabricated in Diakont's **clean optical facility**, using specialized alignment stands
- Quality is verified throughout the manufacturing process using 3-coordinate measuring machines, electro-optical systems, and other measuring equipment

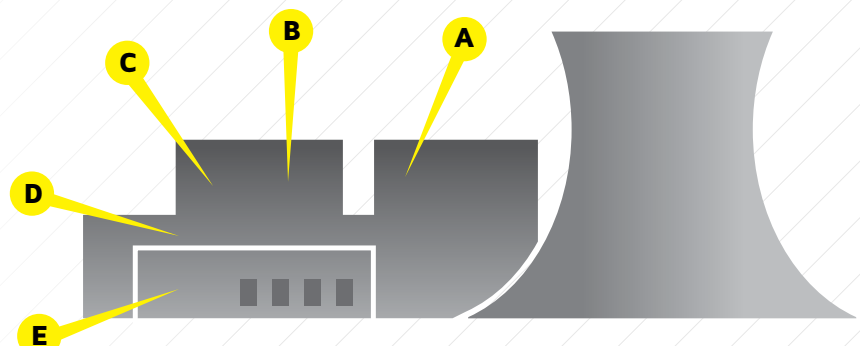


WHEN QUALITY COUNTS

Diakont products are trusted throughout industries that value safety and reliability. Our equipment is installed or utilized at the majority of nuclear power plants, and you will also find our equipment at conventional power plants, along gas pipelines, and aboard rockets supporting space exploration and the international space station.

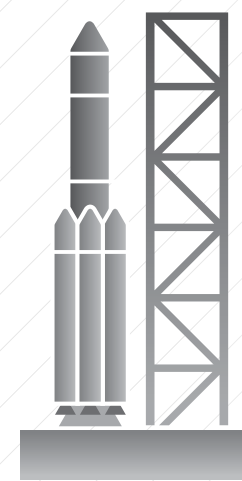
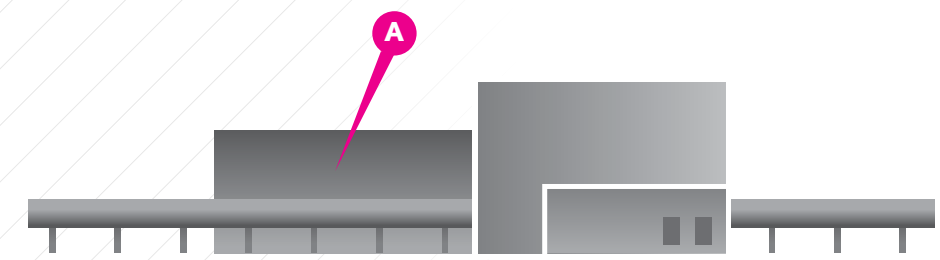
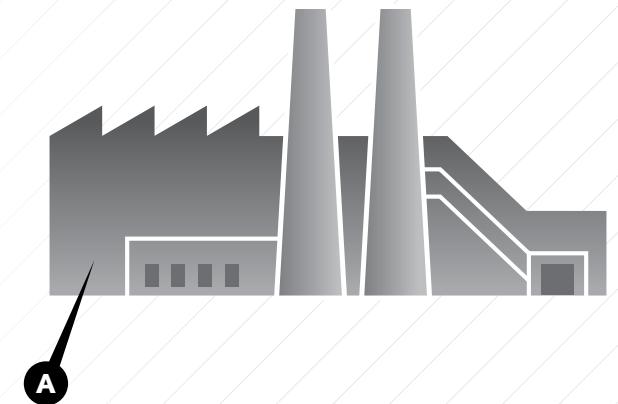
NUCLEAR POWER GENERATION

- A** Radiation-Tolerant Inspection Cameras
High resolution cameras are used to inspect reactor components, welds, and irradiated nuclear fuel – operators use these to find and repair defects, and validate the safety of the nuclear power plant.
- B** Radiation-Tolerant CCTV
Multiple pan/tilt/zoom cameras are networked to provide an integrated surveillance system permanently installed in containment to monitor plant operation, and provide remote condition assessment.
- C** Robotic Systems
Diakont supplies robotic systems used to perform a variety of inspection and repair operations. Payloads may include visual, UT, laser inspection, grinding, cleaning, or welding tools.
- D** Nuclear I&C Systems
Diakont intelligent digital control systems are utilized for critical plant equipment such as emergency diesel generators and polar cranes.
- E** Fuel Handling Equipment
Diakont supplies complete refueling machines, both for new plant builds and for refits. These typically include ultrasonic collision prevention, automated fuel unloading/shuffle/loading, failure-proof lifting, and fuel sipping systems.



CONVENTIONAL POWER GENERATION

- A** Steam Turbine Control Systems
Diakont's active turbine control system provides intelligent steam throttling – increasing plant electrical output performance while simultaneously reducing equipment wear.



NATURAL GAS PIPELINE

- A** RODiS Inspection Crawler
Using the RODiS and other ILI tools, Diakont provides pipeline operators with inspection services in unpiggable areas.



AEROSPACE

- A** Precision Components
Diakont supplies custom actuators and other elements to support spacecraft programs – with extremely precise tolerances, and often fabricated from exotic materials.



NUCLEAR FUEL PROCESSING AND RESEARCH

- A** Manipulators
For areas where it is impractical or impossible for humans to work, Diakont manipulators transport, position, retrieve, manipulate, weld, grind, or inspect in all types of facilities and applications.



LEGACY NUCLEAR FACILITIES

- A** Inspection Cameras
Diakont's versatile HD inspection cameras are easily deployed and retrieved through narrow access points and penetrations.



ENGINEERING INNOVATION

We know your job is tough – shortened outage durations, lower personnel dose targets, all while budgets are tightening. Don't add complication and risk by taking on another internal tool development – contract Diakont's veteran engineers to design, build, manufacture, and qualify it for you.



UNPARALLELED CLIENT SERVICE

Diakont's mission is not just to supply exceptional products and service, but to supply time and money-saving solutions to our customers. From your first phone call, Diakont's focus is to understand your application so that we can provide you with the solutions that exactly meet your needs.

YOUR PARTNER PROVIDES:

- Field Technical Service
- Project Management
- Installation Support and Training
- Equipment, System, and Robot Operation
- Complete Life-cycle Support
- Probabilistic Risk Analyses

From its initial stages, your project will receive consistent service from a dedicated point of contact. This attention-to-detail and personal access to high-level managers is what keeps Diakont's loyal customers coming back year after year.

And the job doesn't end when the manufacturing is complete – Our certified field service staff will guide you through all the final stages of your project, including installation, training, documentation integration, and even perform equipment operation.



A WINNING STRATEGY

- Receive a custom solution designed specifically for your application
- Complement your in-house resources with Diakont's team
- Start-to-finish capabilities, from concept through support
- Strict non-disclosure policies to protect IP



Diakont's experienced and highly-trained design engineers have over 6 million combined hours in disciplines including robotics, nuclear I&C, motion control, video image analysis, EMAT NDE, intelligent video, stacked PLC systems, thermal optimization, redundant control, RF, probabilistic risk assessment, design for reliability, and more. Our ever-expanding team will take your project from concept, to manufacturing, to operation.

Contact us today to discuss how we can bring your ideas to reality.



When quality counts...
Diakont delivers.



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