

FAST MOVING TECHNOLOGY

***STÄUBLI***

# Nuclear

Connectors | Advanced connection solutions









**FAR-SIGHTED PARTNER**

# An international group serving all industrial sectors



**Stäubli, a leading market force, continually pushes for innovation, addressing current and future needs for advanced connection solutions.**

Developing and delivering high-performance solutions tailored to specific business requirements, as well as understanding and anticipating the trends shaping each branch of industry, is the strategy pursued by Stäubli, as global leader in advanced connection solutions for all applications: fluid, gas and electrical. Fluid mono-connections, electrical connections, multi-connection systems for all energy sources, tool changers for robots

or Quick Mould Change solutions, each Stäubli assembly is engineered and built from parts of consistently matched quality and design. Our solutions improve the reliability, efficiency, performance and usability of equipment, thereby raising the productivity bar and guaranteeing operator safety.

#### **Experts in the nuclear industry**

Compared with the primary function of a nuclear power plant you might think that our couplings are just accessories, mere consumables amongst many others in the system. However, our quick-release coupling solutions are a

key element in ensuring the reliability of the entire nuclear power generation process. This is why we are proud to work with the major players in the nuclear industry worldwide.

As a long-standing partner of the sector for over 60 years, our experts fully understand your issues and expectations in terms of connections. They provide the best, most appropriate response, throughout the entire lifetime of your installation, from the definition of your requirements through to the dismantling of the structure.



**50**  
countries



**5,000**  
employees worldwide



**12**  
production sites



## OUR NUCLEAR EXPERTISE

# Multidisciplinary expertise for all types of advanced connection solutions



**Thanks to its know-how in mechanical, fluid and electrical fields, the Stäubli Group is your go-to partner for satisfying all your needs for end-to-end fluid, gas and electrical connection solutions, with high and world-renowned levels of expertise, quality and performance in all industrial sectors.**

**Solutions you can trust**

Any leak can have unintended and potentially dramatic consequences, whether this is external environmental pollution or exposing your operators to a high contamination risk. The reliability and durability of our solutions provide a high degree of safety allowing them to work on installations confidently and with peace of mind.

**Experts close to your requirements**

Because our nuclear experts work exclusively in your sector, they can provide you with customised advice and the best, most appropriate solutions for your specific fluid and electrical connection requirements. By working with you from a very early stage they can provide guidance on how to limit shutdowns and optimise compliance with your schedules.

over  
**300**  
user plants

over  
**200**  
engineering partners

## OUR NUCLEAR EXPERTISE

# Stäubli, at the heart of the nuclear



### A lasting, long-term partnership

If a product needs to be replaced, nuclear standards require the replacement to be identical. Failure to comply with this requirement results in the new components having to be requalified. We have maintained the continuity of our production for over 60 years, so that we can quickly supply you with an identical solution, throughout the entire lifetime of your installation.

### A totally committed approach to quality

The nuclear sector has to comply with particularly stringent equipment design and construction rules. Stäubli has been committed for years to a comprehensive approach designed to comply with the level required in nuclear qualification and certification procedures. Our Group undergoes regular audits which certify our commitment and our ability to supply quick-release couplings classified for nuclear use.



## OUR APPLICATIONS

# Nuclear power plant

### Breathing air

- Dedicated breathing air connection supplies to contaminated areas
- Mobile filter units for breathing air lines



### Sampling system

- Sampling system of liquid effluents on primary loop in glove box
- Quick connection on mobile test bench for tightness control



 Breathing air

 Compressed Air

 Fuel lines

 Demineralised water

### Utilities fluids

- Quick connection of service and instrument compressed air distribution system
- Quick connection for nuclear vent and drain system



### Fuel transfer

- Quick-release coupling for supply of demineralised water
- Multi-coupling on pneumatic locking systems for fuel assembly transportation
- Quick connectors for energy supply to trolley for spent fuel cask handling system



### Other applications

- Multi-pole connector for nuclear electric valve actuators essential for emergency reactor shutdown



OUR APPLICATIONS

# Laboratories

- Breathing air
- Fluids & gases in hot cell
- Neutral gases
- Extinguishing agent

- Energies in hot cells**
- Mono and multi-connections operated by manipulator arms
  - Solvents transfer used for process into shielded cells

- Breathing air**
- Dedicated breathing air connection supplies to contaminated areas

- Emergency supply**
- Powder supply on fire extinguishing lines in glove boxes

- Fluids utilities**
- Quick connections for compressed air and neutral gases supply





## OUR APPLICATIONS

# Reprocessing, dismantling and waste management

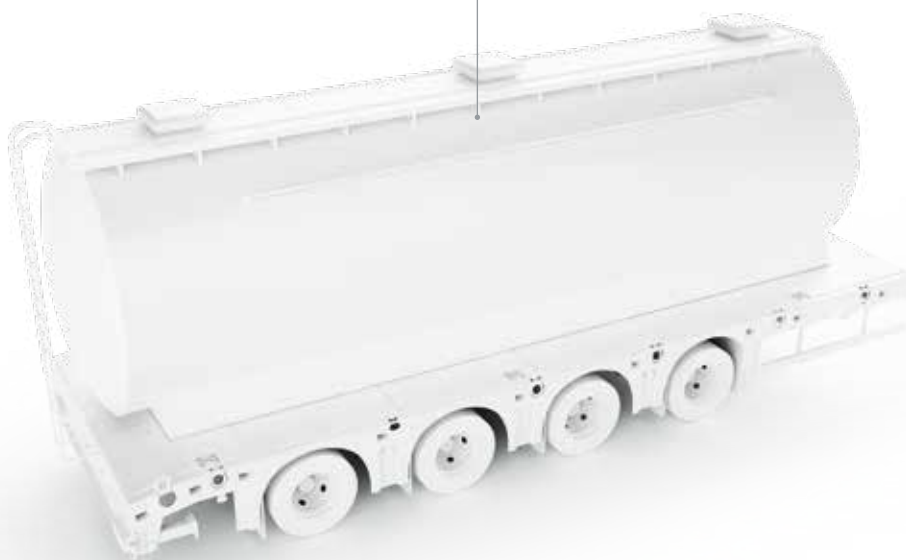
### Inter-body connections

- Quick connections for filling, draining and venting on liquid effluents



Contaminated effluents

Venting



### Other applications

- Customised multi-coupling solution with power and signal connections on a waste package machine
- Quick couplings for supplying high pressure tools for dismantling operations
- Cooling lines on vitrification waste processing machines
- Vacuum and gas inerting for tightness control on the cask in hot cell
- Tightness control process and radioactivity checking levels before opening containers







## OUR TECHNICAL STRENGTHS

# Unique expertise and an extensive range for the global nuclear market

**With the expertise of the whole Group, we can provide you with a range of end-to-end, custom solutions which address your specific requirements while complying with the challenges of your sector.**

### Trust and safety

When you choose our quick-coupling solutions to supply your operators with breathing air, you are placing your trust in us to ensure the safety of their vital supply. This trust is the result of our day-to-day involvement, providing our expertise and the reliability of our solutions for your equipment.

### Adaptability and R&D

The 50 experts in the R&D department all share the same desire: to surpass themselves in order to provide you with the

custom solution that will address your specific requirements. Whatever the scope of your project, the Stäubli teams work with you, incorporating adaptability and technical flexibility, while remaining true to our shared requirements.

### Sharing and multi-applications

Our experts learn daily from the various issues discussed by all the players in the nuclear industry. Thoughts and ideas are shared, so that each offer can be shaped by the wealth of this shared experience. This enables us to offer connection solutions that have already been tried and tested in the field.

### Availability of our experts and our products

We have local offices all over the world, so that our teams are located near to you and your requirements. The lack of availability of products could delay the commissioning of an installation. This is why our products are available quickly, so that you can plan your work during maintenance phases and thus limit down time.





■ Stäubli Units    ○ Agents

## Global presence of the Stäubli Group

[www.staubli.com](http://www.staubli.com)