

FAST MOVING TECHNOLOGY

***STÄUBLI***

# IT & Broadcasting cooling

Connectors | Advanced connection solutions

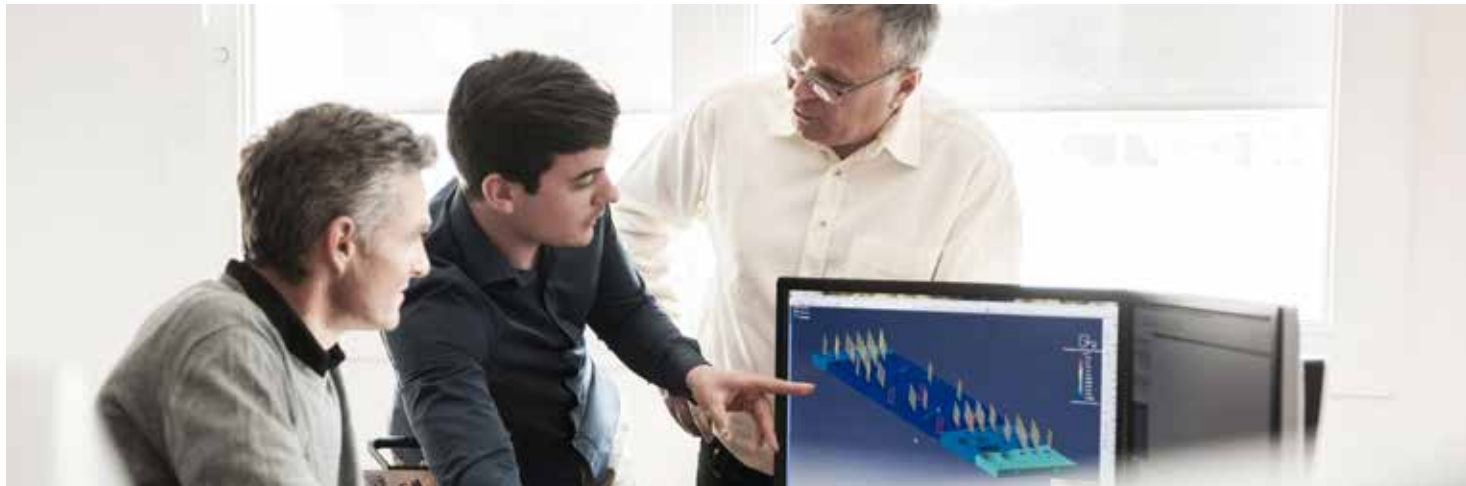






**FAR-SIGHTED PARTNER**

# An international group serving all industrial sectors



**Stäubli, a market leading company, 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. We even go further in understanding and anticipating the trends shaping each branch of industry.

Fluid mono-connections, electrical connections, multi-connection systems for all energy sources, tool changers for robots or Quick Mold 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.

**Liquid cooling: a high-performance solution that calls for absolute reliability.**

The explosion in the volume of data to be stored (web, cloud and search engines) has led to a steady increase in the number of data centers and super computers collecting billions of items of information.

Their electronic components produce significant temperature rises, while their temperature stability is a key criteria for optimum operation.

Liquid cooling lowers the temperature of electronic components much more efficiently than

providing air conditioning throughout the whole building. This cooling system consists of circulating the coolant as close as possible to the components.

The heat exchange system is located away from the heat source and noise levels are reduced. But it also means that electronic components and water are in close proximity, requiring large number of quick-release couplings that can be disconnected easily and safely when work is carried out on the circuits.

For this type of application, where reliability and absolute tightness are essential, Stäubli can provide you with all its recognized expertise in cooling, as already perfected in other sectors such as the railway and aerospace industries.



**50**  
countries



**5,000**  
employees worldwide



**12**  
production sites

EXPERTISE IN THERMAL MANAGEMENT

# Global connection expertise at all system levels



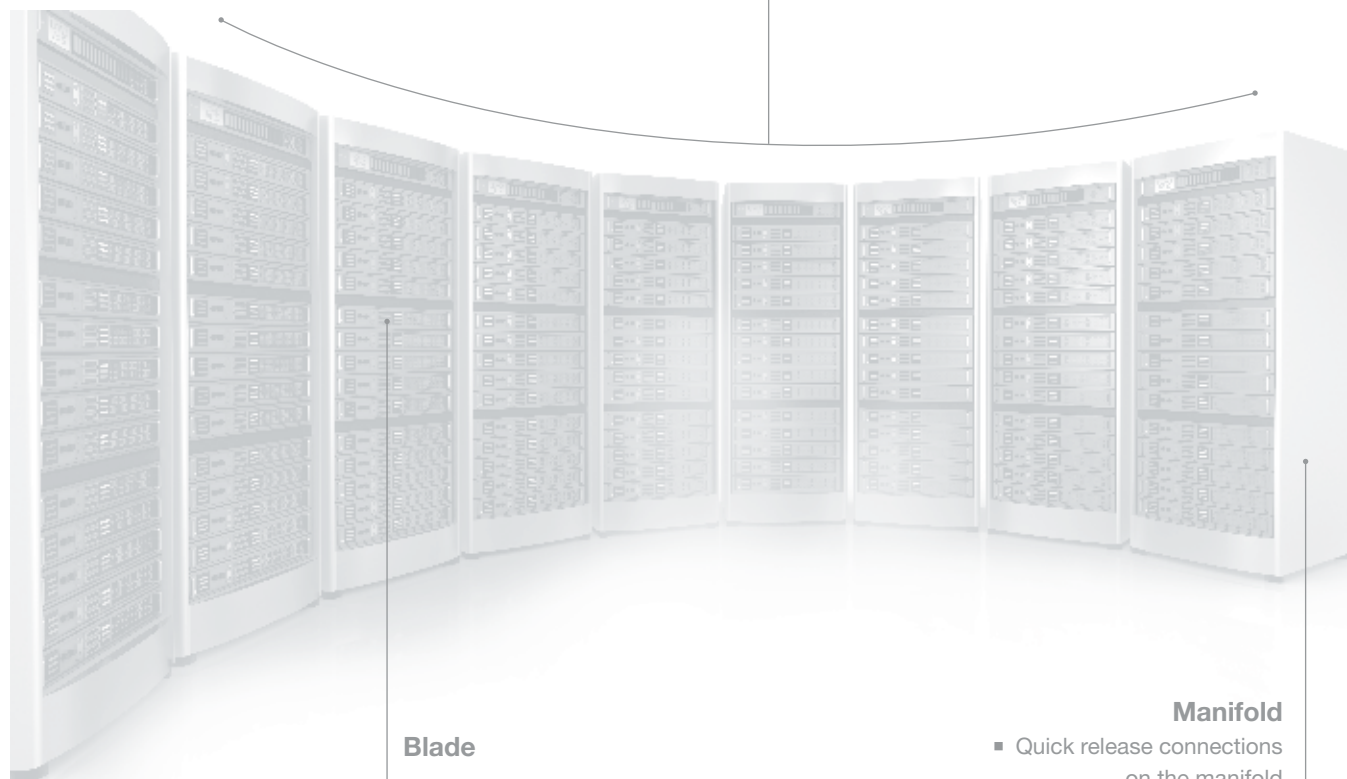
All our liquid cooling solutions take your specific requirements into account. They are adaptable and can be custom-made whatever your application and environmental constraints. Our experts can advise you at the early stages in the overall design of the circuits and in the selection of the right components for your specifications.

Whatever solution is proposed, it will have all the advantages of Stäubli's acknowledged reputation:

- **Safety** of operators and installations, with the flat-face, clean-break, anti-pollution technology of the couplings, providing perfect tightness
- **Reliability and quality** for each intervention, a complete closure of the circuits
- **Compact design** of the couplings, which are easy to use, even in small spaces, and can be incorporated seamlessly in your installations



## OUR APPLICATIONS



### Heat exchanger

- Quick release connections between manifolds and heat exchanger

### Blade

#### Mono coupling solution

- Manual quick connections, for mating blades to rack manifolds

#### Blind mate solution

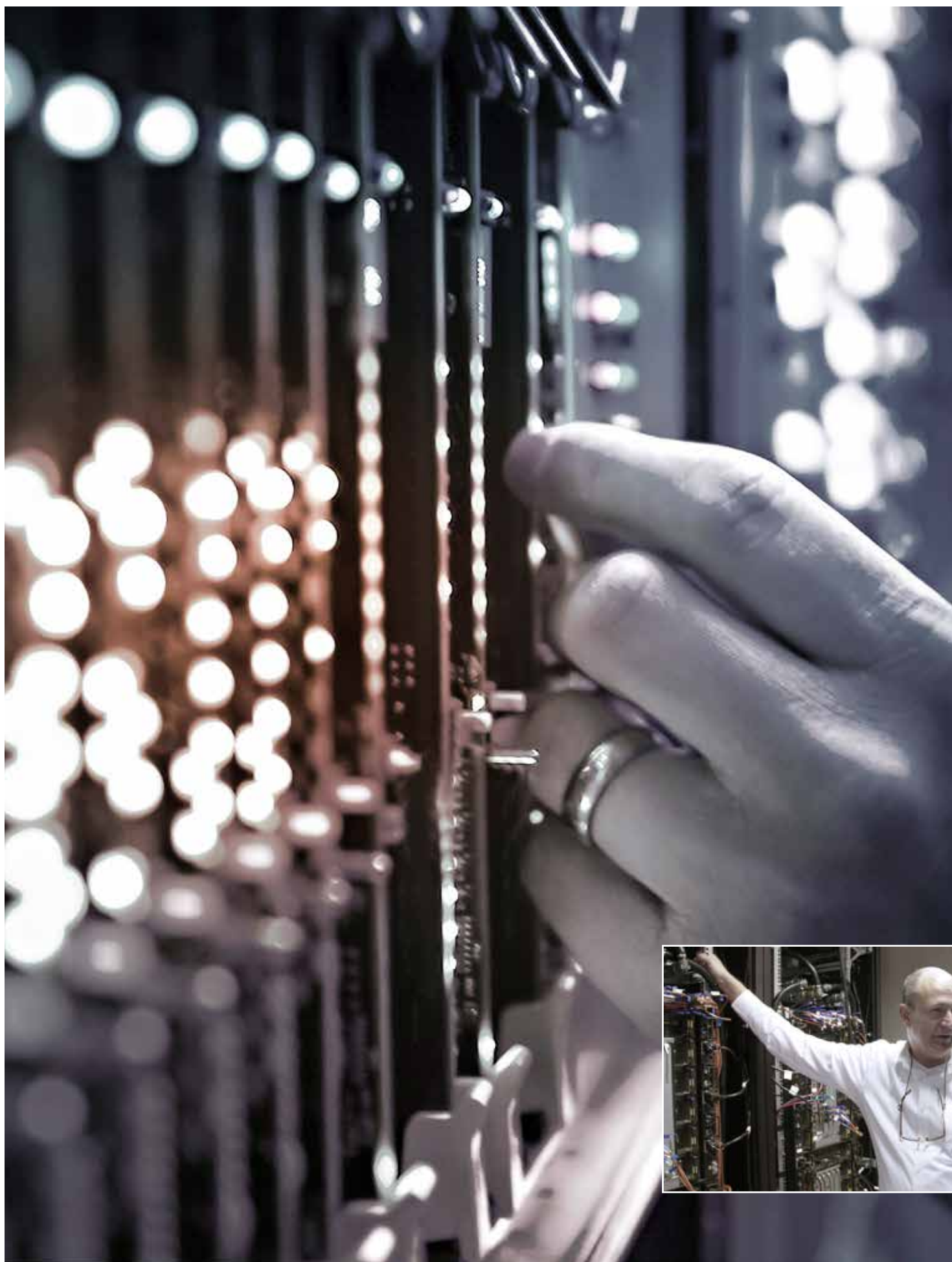
- Self-aligning and quick connections allowing for blind mating blades into rack manifolds

### Manifold

- Quick release connections on the manifold







## WHAT OUR CUSTOMERS SAY

Who better than our customers to talk about our solutions? They have told us about their experiences, outlining what the Stäubli cooling solutions have brought to their businesses.

**“We worked very closely with Stäubli. We sat round a table with their engineers and carried out a detailed examination of our particular requirements.**

**Together we devised a solution that not only maximizes performance and reliability but also reduces costs.**

**From this initial custom solution, we then drew up and developed a standard response that could be transposed to all our installations.**

**Our confidence in Stäubli solutions is based on their quality.**

**In our environment we can't tolerate any faults and the perfect tightness of the connections means that we have full confidence in the solutions.”**

Geoff Lyon

**“When you are considering using water for cooling servers, the issue of the reliability of the connections is crucial.**

**You have to be sure there could be no leak that would damage the circuits. With Stäubli couplings, it is very easy to disconnect a component from the cooling circuit. It only takes a few seconds, is effort-free, and above all there is no spillage of water or coolant.”**

Radostaw Januszewski





■ Stäubli Units    ○ Agents

## Global presence of the Stäubli Group

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