

AQUAJET

No. 2 2024

magazine

HYDRODEMOLITION NEWS

Show off your hydrodemolition work!

SEND YOUR BEST PHOTOS - GET AN AQUAJET GIFT >>

Aquajet World Tour

THE EUROPEAN STOP >>

FAQ

WE GOT THE ANSWERS

Project challenges

NOT EVERY PROJECT IS STRAIGHTFORWARD FLATWORK >>





Dear Readers,

At Aquajet, we are dedicated to simplifying hydrodemolition and making it accessible in every situation. We are excited to announce the launch of a new version of our Spine system, designed for greater flexibility and equipped with new solutions that enhance automation and safety.

As we look ahead, we are committed to advancing hydrodemolition. With increasing project complexity and a focus on sustainability, we maintain complete control over our processes—from innovation to market support—ensuring swift updates. Our in-house product development enables us to continuously improve, creating safer and more efficient workplaces for our customers.

Through collaboration with our global partners, we are confident in our ability to lead in hydrodemolition technology.

Together, we will shape the industry's future and provide solutions for tomorrow's challenges. At Aquajet, we don't just wait for change; we are the change. Thank you for being part of our journey!

Best regards,

Roger Simonsson
CEO, Aquajet Systems AB

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SCAN ME

AQUAJET[®]

Every industry has them — the questions you get asked over and over. Despite being around for more than 40 years, hydrodemolition is still an intriguing new process for a large portion of the population. And they have questions. Here, we try to answer the most common hydrodemolition questions.

For even more information, please visit our website. www.aquajet.se

Ergo solves PROJECT CHALLENGES

Aquajet's Ergo System represents a new lightweight category in hydrodemolition robots. With a power capacity of up to 3,000 bar (43,500 psi), this compact unit is built for versatility and safety in challenging concrete removal and industrial cleaning applications.

Concrete removal in tight spaces

Need to remove material in hard-to-reach areas, like under tanks, behind pipes, or near existing structures? Unlike hand lances, which require at least 1,5 m (5 ft) of space to operate, the Ergo can function in spaces as tight as 35.6 cm (14 in).

For jobs like refractory removal inside furnaces, the lightweight Ergo components can be easily installed through a manhole entry and positioned on scaffolding. Controlled remotely, the system efficiently removes material while protecting surrounding structures, such as tubes and anchors. The Ergo is also ideal for interior projects, such as removing concrete while preserving rebar for new drains or foundation work.

Removal on curved surfaces

The Ergo is not just built for tight spaces but also excels on curved surfaces like



Photo courtesy of Aquajet.

pipes, tanks, piers, and columns, delivering impressive material removal rates both inside and out.

For different curvature angles, contractors can choose between the spine or climber system with curved scaffolding. For larger surface prep jobs, like water tanks or parking garages, the Ergo Rotolance series can achieve over 9,3 m² (100 ft²) per hour, depending on application. The Rotolance 130S, with its specialized suspension system, ensures smooth operation on uneven or curved surfaces.

Underwater concrete removal

The flexible setup of the Ergo System also makes it ideal for underwater applications like bridge pylons or piers. With the controller positioned above the high-water mark, contractors don't need to worry about tides. The spine and climber function as easily below the waves as above. This allows contractors to work at their own pace, rather than Mother Nature's, and minimizes the need for divers, reducing labor costs and increasing safety.



Photo courtesy of THP, France.

Share **YOUR** hydrodemolition moments with us

We want to see the incredible work you're doing with Aquajet equipment! As part of our ongoing efforts to promote knowledge and innovation within the hydrodemolition community, we invite you to share your best photos and videos showcasing your projects.

At Aquajet, we believe in the power of collaboration and the importance of sharing knowledge within the hydrodemolition community. Whether you're tackling complex challenges, using our technology in unique ways, or simply capturing the powerful performance of Aquajet products in action, your contributions can help spread awareness about the effectiveness of hydrodemolition methods.

As a thank you, we'd like to show our appreciation by sending a special gift from Aquajet to everyone who shares their photos or videos with us! We look forward to feature your contributions in our magazine and other media, giving full credit for your work.



Photo courtesy of Buchen Sweden AB.



Photo courtesy of Buchen Sweden AB.

These stunning shots captures hydrodemolition work on a hydro power plant in Sweden with an Aqua Cutter 750V and an Aqua Cutter 410A. A perfect example of efficient, high-quality concrete removal in challenging conditions.

Why Participate?

- **Showcase Your Skills:**
Highlight your expertise and the projects you're proud of.
- **Educate Others:**
Help share insights and knowledge within the hydrodemolition community.
- **Receive a Gift:**
As a thank you for your contributions, everyone who sends us photos or videos will receive a special gift from Aquajet, along with full credit when their work is published..

How to Submit

1. Choose your best photos and/or videos that capture your work with Aquajet equipment. High resolution preferred.
2. Include a brief description of the project, including location (if possible) and the equipment you used.
3. Email your submissions to aquajet@aquajet.se.



Not every project is **STRAIGHTFORWARD FLATWORK**

As the demands of the construction and maintenance industries evolve, so do our solutions at Aquajet. With a strong emphasis on innovation, efficiency, and sustainability, we continually push the boundaries of what's possible. By creating flexible and adaptable solutions for the most complex hydrodemolition challenges, we aim to meet and exceed our customers' project demands.

We recognize that not every hydrodemolition project is straightforward. That's why we invest significant resources in developing advanced equipment designed to tackle even the most complex applications. Whether it's accessing tight spaces in tunnels or removing concrete from beneath bridge decks, our innovative

solutions address these unique challenges head-on.

Aqua Spine 3.0

A prime example of our commitment to innovation is the Aqua Spine 3.0. This versatile multi-modular system is designed specifically for surfaces that may be inaccessible for standard hydrodemolition robots. The Aqua Spine is essentially a spine-like rail system that can be mounted directly onto concrete surfaces or supported by carriers like cranes or scaffolding. This flexible system allows us to attach a variety of tools that can be powered remotely by the Aqua Cutter 750 robot or the Ergo Controller, enabling precise hydrodemolition work even in hard-to-reach areas.

Our latest efforts have been centered on making our Aqua Spine 3.0 solution even more light-weight, product compatible and with a wider range of support and fastening systems. This new version of the Aqua Spine system is compatible with both Aqua Cutter 750 and Ergo and offers a variety of support systems, including height-adjustable support legs and brackets for bent scaffold tubes. With these support attachments, the Aqua Spine 3.0 can be extended to any required length, allowing for up to 6 meters between supports, whether used horizontally or free-standing. It can also be outfitted with the Circular Power Head for working on pillars both above and below water, as well as a Power head with the Infinity system and Rotolances. The Aqua Spine is highly customizable, allowing you to tailor, assemble, and modify it to meet your specific project needs.

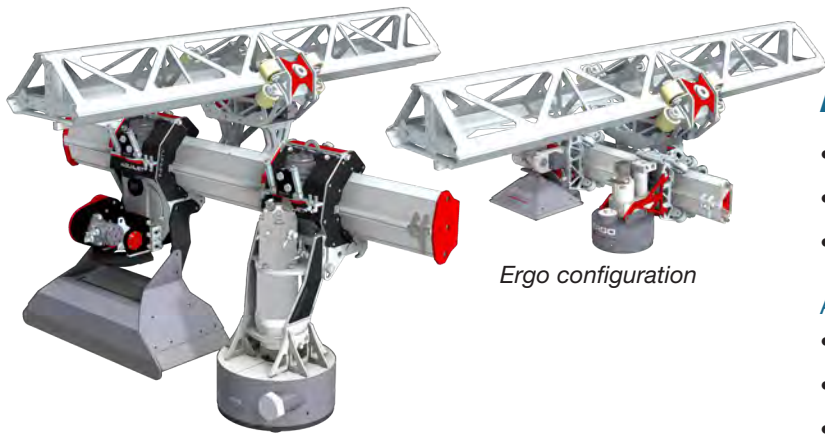
Curved Roller beam

Continuing our commitment to innovation, we are pleased to introduce the Curved Roller Beam, designed specifically for the Aqua Cutter 750. This new addition complements our standard straight Aqua Cutter Roller Beam by enabling efficient hydrodemolition work on curved or circular surfaces, such as pillars, tunnels, or other partially circular structures.

The Curved Roller Beam connects effortlessly to the Aqua Cutter 750 or Aqua Spine 3.0, allowing for a 90-degree upward tilt, 360-degree rotation, and vertical movement along the Aqua Cutter's tower. Once the Aqua Cutter 750V's power head with the lance and nozzle, is mounted on the Curved Roller Beam, it easily adapts to curved surfaces.

Support wheels at each end function as mechanical stops for the power head, ensuring stability and smooth operation. Additionally, the Curved Roller Beam is compatible with the Rotolance, making it highly effective for lighter concrete removal tasks. This innovative beam is designed for hydrodemolition on both inner and outer surface radius, with a minimum radius of 500 mm for outer surfaces and 2000 mm for inner surfaces.

The Curved Roller Beam offers customizable options, enabling customers to specify the length, surface radius, and angle required for their unique project needs.



Aqua Cutter 750 configuration

Ergo configuration

Aqua Spine system 3.0

- Multi-modular rail system, with dual and triple rail
- Versatile support system
- Powered by Aqua Cutter 750 or Ergo Controller

Aqua Cutter 750 compatibility:

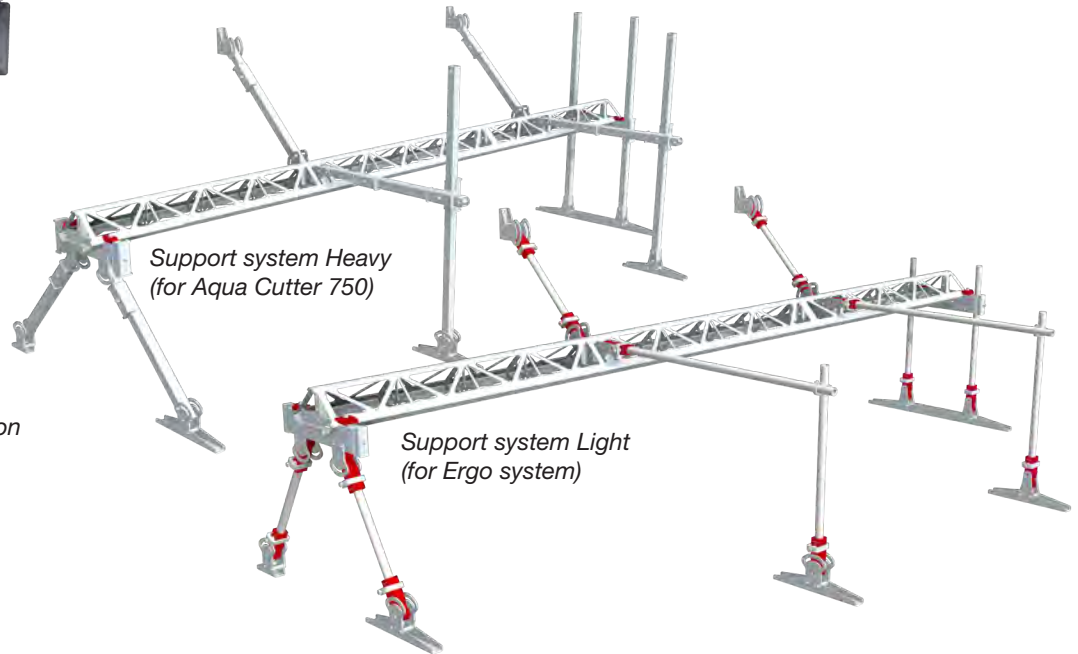
- Power head, equipped with the smaller protection cover.
- Infinity system
- Circular Power head
- Rotolances

Ergo Controller compatibility:

- Power head, equipped with Ergo protection cover.
- Ergo Rotolances



Circular Power Head configuration



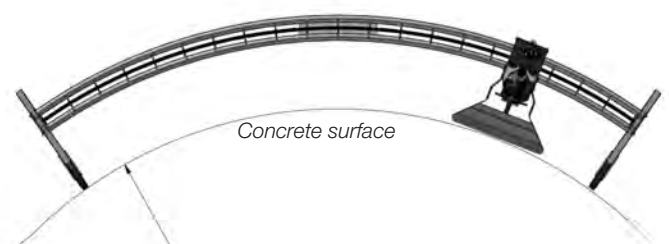
Support system Heavy
(for Aqua Cutter 750)

Support system Light
(for Ergo system)

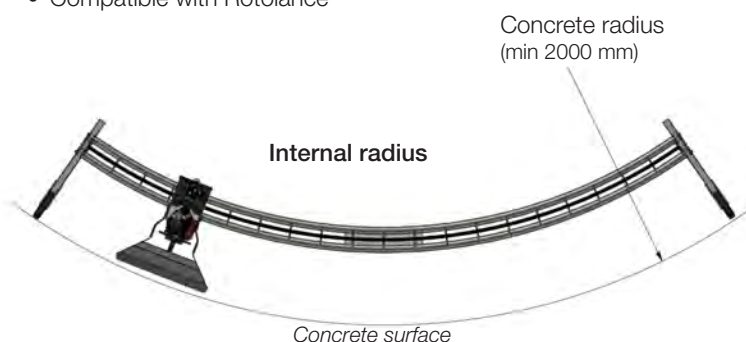
Curved Roller beam

- Aqua Cutter 750V roller beam for curved surfaces
- Compatible with the Aqua Spine 3.0
- Adjustable tilt and rotation
- Customized beam radius, beam length or angle of circle segment
- Capable of hydrodemolition work on both inner and outer surface radius
- Support wheels for stability
- Compatible with Rotolance

External radius



Internal radius



Success for Aquajet's European **WORLD TOUR EVENT**



On June 5-6 this year, Aquajet's World Tour made a successful European stop in Friedenweiler, Germany. Hosted by our German distributor, Brokk DA, the event gathered around 70 customers from eight countries, including Germany, Switzerland, France, Belgium, Norway, Italy, the UK, and Australia, offering a perfect opportunity for industry professionals to learn more about Hydrodemolition and the latest advancements in Aquajet's product range.

Over two days, participants engaged in educational presentations and networking while exploring Aquajet's hydrodemolition solutions. Attendees were also given an exclusive look at upcoming product features launching later this year.



About 70 customers from eight different countries attended Aquajet's 2024 World Tour in Friedenweiler, Germany.

"It's an exciting time for Hydrodemolition. Technology is rapidly advancing, there is a greater demand for the services and a

readiness to replace handheld methods with safer, more automated processes," said Roger Simonsson, Aquajet managing director. "Many new customers joined us at the event with great enthusiasm for Hydrodemolition. We spent a lot of time discussing applications and challenges and the potential for Hydrodemolition solutions."



Aquajet showed its fleet of equipment and performed hydrodemolition demonstrations at the company's 2024 World Tour event in Germany.

One of the key highlights of the event was the advanced training sessions that focused on how users can maximize productivity and achieve the best possible results with Aquajet's equipment. Customers had the chance to see our Aqua Cutter hydrodemolition robots in action, alongside a wide range of efficiency-enhancing accessories, including the Circular Power Head, Rotolance, Dual and Triple nozzles, the Extension Kit, and Aqua Spine.

They also got the experience the quiet per-

formance of the Ecosilence high-pressure pump and how it pairs with the Ecoclear wastewater treatment system as well as the Aqua Cutter robots. Together, they demonstrated how Aquajet provides not just cutting-edge hydrodemolition capabilities but also fully automated, on-site wastewater treatment that adheres to strict environmental standards.



Attendees at Aquajet's World Tour in Germany saw a variety of Hydrodemolition demonstrations with state-of-the-art equipment.

One of the key features of the event was the live Hydrodemolition demos based on attendees' requests. These included a "blow-through" demonstration, allowing participants to evaluate specific conditions, settings, and results. By analyzing different scenarios in real-time, customers gained valuable insights into how Aquajet equipment can be optimized for specific project challenges they may be facing.

"There was an overwhelmingly positive reaction to the event," Simonsson said. "We always enjoy the opportunity to interact with customers and learn how we can expand our offering to address even more of their applications."

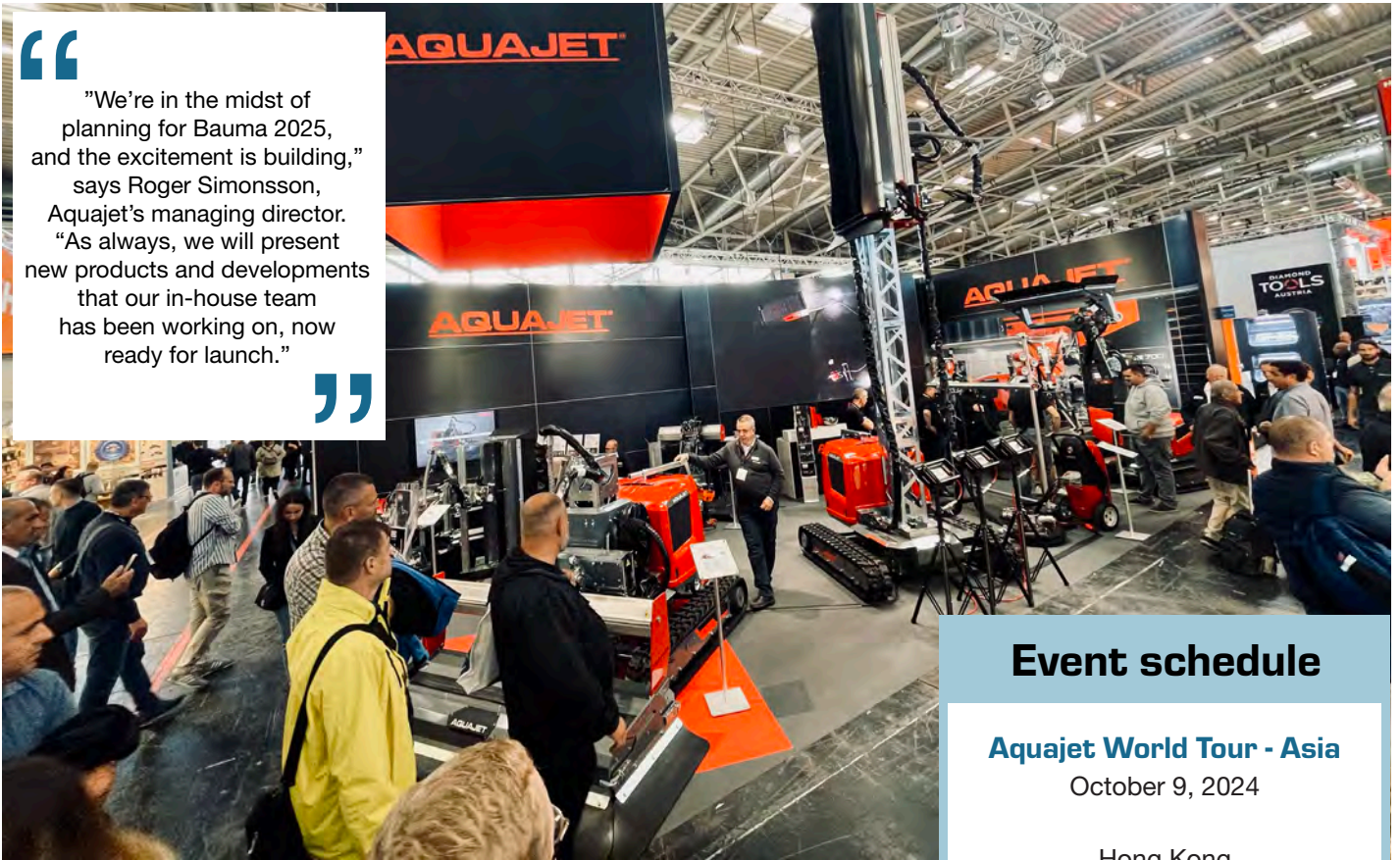
Following the positive response in Germany, the Aquajet World Tour will continue in Hong Kong on October 9th, hosted by Brokk Asia-Pacific Pte Ltd. This is a great opportunity to see our equipment in action and learn how to maximize your Aquajet machines.

We look forward to welcoming more operators to discover how Aquajet can enhance safety, speed, and efficiency in Hydrodemolition. See you in Hong Kong!

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“We’re in the midst of planning for Bauma 2025, and the excitement is building,” says Roger Simonsson, Aquajet’s managing director. “As always, we will present new products and developments that our in-house team has been working on, now ready for launch.”

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Get ready for **BAUMA 2025**

Aquajet is gearing up for Bauma 2025, following our successful showcase at Bauma 2022 in München, Germany. Our booth was bigger and better, attracting a flurry of visitors eager to learn about hydrodemolition and explore our innovative products.

While online information is easily accessible, nothing compares to experiencing equipment firsthand and connecting with our product and application experts. At Bauma 2025, attendees will have the

unique opportunity to see our full line of hydrodemolition robots up close and gain insights into their capabilities.

Join us at the same place and booth for another incredible event filled with groundbreaking hydrodemolition technology and engaging discussions. We look forward to welcoming you to Bauma 2025!

Please visit our website for more information, and make sure to follow us on social media for the latest updates.

www.aquajet.se
or simply scan the qr code.



SCAN ME



Event schedule

Aquajet World Tour - Asia

October 9, 2024

Hong Kong

AUSJET

October 23-24, 2024

Melbourne, Australia

PhilConstruct

November 7-10, 2024

Manila, Phillipines

Bauma China

November 26-29, 2024

Shanghai, China

World of Concrete

January 21-23, 2025

Las Vegas, USA

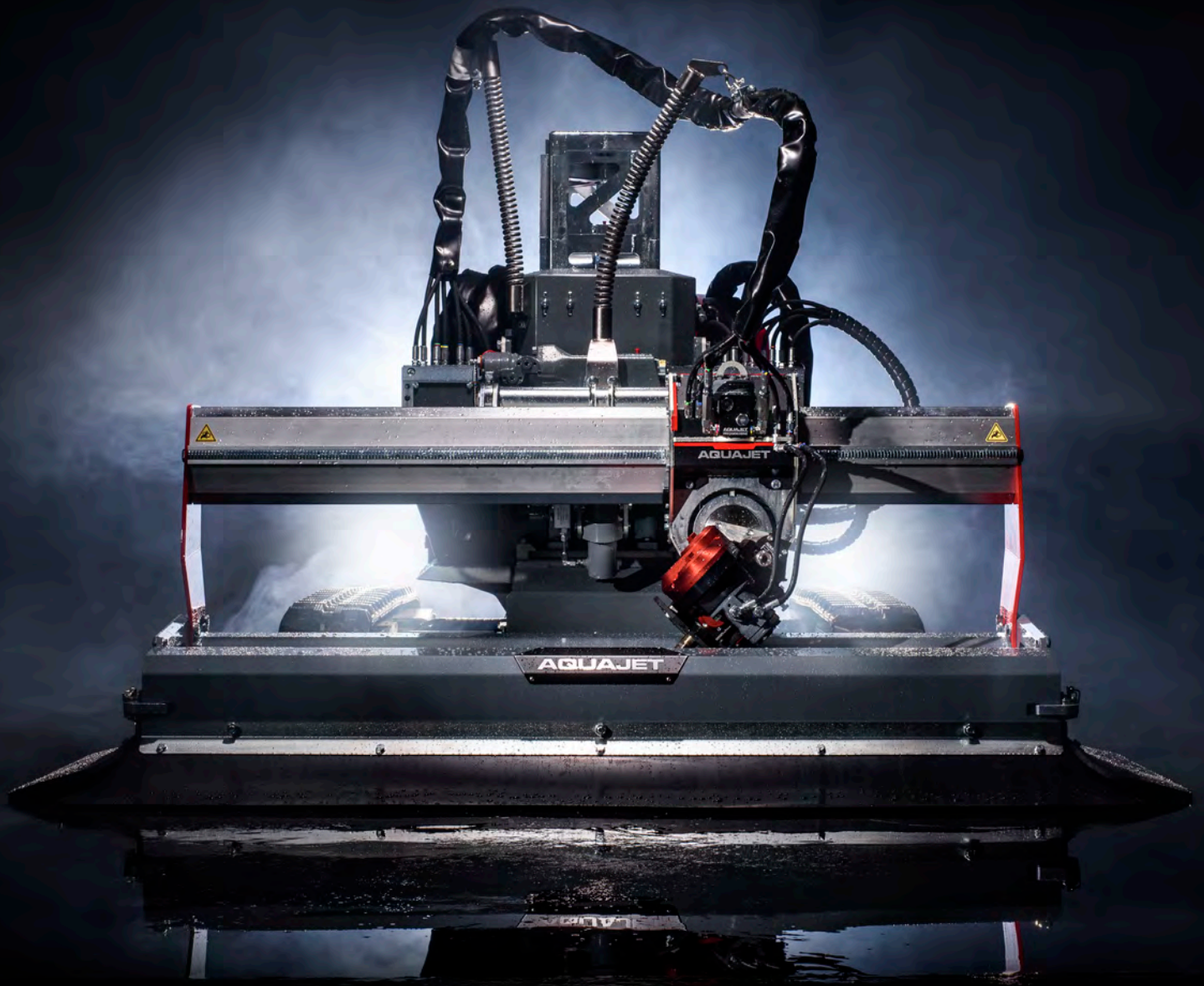
Bauma 2025

April 7-13, 2025

München, Germany

Want to learn more about AquaJet and our products?

SCAN THE QR CODE,
VISIT OUR WEBSITE



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