

Waterjet Edge



Cognitive Insights Newsletter



From the Desk of 2Do

Every business begins with an idea. Sometimes it is the idea to start something of your own. Sometimes it is simply the thought that there must be a better way of doing this. Sometimes, that thought comes from the person standing beside the waterjet machine every day.

The waterjet industry is evolving not only through technology, but through people who see possibilities, take initiative, solve problems and turn ideas into value. Entrepreneurs build businesses around the technology, while intrapreneurs within existing organisations find new applications, improve processes and discover opportunities that may already be within reach.

In this edition of 2Do Waterjet Edge, we look at Entrepreneurship & Intrapreneurship through the people, applications, innovations and opportunities shaping the waterjet ecosystem.

Because behind every machine is a person and sometimes, a simple idea in that person's mind can become the beginning of something much bigger.

Industry Intelligence

Entrepreneurship & Intrapreneurship: Creating New Opportunities in Waterjet Cutting

Manufacturing is changing and so is the opportunity around waterjet cutting. Businesses are increasingly looking beyond simply adding machine capacity. They are looking for ways to work with more materials, produce more complex parts, reduce waste, improve productivity, and respond to specialised customer requirements.

This is creating opportunities not only for entrepreneurs who build new businesses around waterjet technology, but also for the people already inside those businesses. Production managers, programmers, operators, engineers, and application specialists are finding ways to improve processes, solve problems, develop new applications, and get more value from the equipment they already have. The growing use of advanced materials, automation, digital manufacturing and specialised production is reinforcing this shift.

Waterjet cutting therefore presents an interesting proposition: the opportunity may not always be in owning a waterjet, but in recognising what the technology can make possible.

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2Do Corner

How the Waterjet Ecosystem is Evolving

Waterjet Entrepreneurs

For a new business, opportunity can begin with a market need rather than the machine itself. Specialised job work, difficult materials, prototyping, high-mix production and applications where thermal cutting is unsuitable can all create potential niches. The entrepreneur's challenge is to identify where waterjet can solve a problem better, faster, or more flexibly and then build the capability around that opportunity.

Production Managers & Operations Teams

In an established business, opportunities can be found on the shop floor. Better nesting, improved scheduling, reduced setup time, higher machine utilisation, lower abrasive consumption, and more consistent cutting can all create additional capacity without necessarily adding another machine. Increasingly capable CAD/CAM and automation tools are making more of these improvements practical.

Machine Operators & Programmers

The person closest to the machine often sees opportunities others may miss. A difficult material, a recurring production problem, an inefficient tool path, or an application that customers have not previously considered can become the starting point for an improvement or even a new service. In this sense, practical experience itself becomes an innovation resource.

Technology & Application Providers

The waterjet ecosystem is also expanding beyond the cutting machine. Five-axis systems, automated nesting, integrated CAD/CAM, intelligent production management, robotics and digital workflows are opening possibilities for businesses to offer more sophisticated services and handle increasingly complex work.

The India Opportunity

India's manufacturing environment is increasingly encouraging MSMEs and smaller enterprises to move towards advanced manufacturing, technology adoption and higher-value production. Government initiatives in 2026 have specifically highlighted automation, artificial intelligence, robotics, digital manufacturing, advanced materials and Industry 4.0, while programmes supporting MSMEs are encouraging access to technology, skills and innovation.

For the waterjet ecosystem, this can translate into opportunities across precision engineering, aerospace, defence, composites, specialised fabrication, prototyping and other applications where material flexibility and cold cutting are valuable.

India's defence manufacturing ecosystem alone is seeing increasing participation from MSMEs and start-ups, with

advanced materials, precision manufacturing, automation and related technologies receiving greater attention. The opportunity, therefore, is not limited to starting a waterjet cutting company. It can also lie in developing a specialised application, improving an existing production process, serving a new customer segment, or creating a service around the technology.

The Bottom Line

Entrepreneurship may begin with the decision to build a business. Intrapreneurship begins with the decision to make something better.

For the waterjet industry, both can lead to the same outcome: new applications, better processes, stronger businesses and opportunities that may not have existed before.

This is where the real entrepreneurial edge may lie, not simply in owning the technology, but in seeing what more can be done with it.

AVAILABLE

AQUACUT MICROSTEP WATERJET/PLASMA CUTTING MACHINE (USED)

RUNNING CONDITION

Year: 2012 (Made in Slovakia)
 X Travel: 3000 mm
 Y Travel: 1500 mm
 Pressure: 50,000 psi
 Pump: 50 HP (KMT S 50)
 Axis: 5-axis Allfi cutting head
 Additional: plasma cutting head

BOOK INSPECTION

Tap for full specs & inspection video

VERIFIED MACHINE

INR 35 Lakhs

Marketing@2Doffice.in
 +91 9443132603

AVAILABLE

OMAX MAXIEM 1530 WATERJET

RUNNING CONDITION

Year: 2011
 X Travel: 3000 mm
 Y Travel: 1500 mm
 Pressure: 50,000 psi
 Pump: 30 HP
 Axis: 3-axis

BOOK INSPECTION

Tap for full specs & inspection video

VERIFIED MACHINE

INR 28 Lakhs

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 +91 9443132603

2D IOA Garnet

"All Standards since 1979"

Power your waterjet cutting with garnet engineered for excellence.

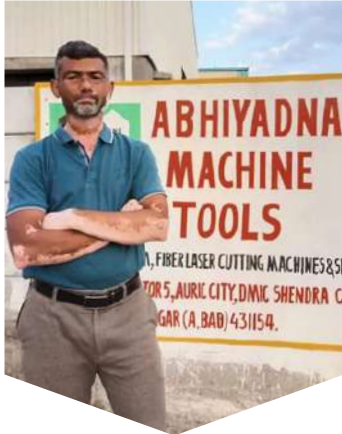
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Stakeholder Spotlight



**ABHIYADNA
MACHINE TOOLS**



From Technical Expertise to Entrepreneurship

Mr. Deepak Vijay Jagtap , Abhiyadna Machine Tools

Every waterjet business has a story behind the machine. For **Abhiyadna Machine Tools**, that story begins with technical experience, industry exposure, and a decision to build something of its own.

Mr. Deepak Vijay Jagtap brings more than 12+ years of experience in CNC waterjet and wirecut EDM technologies, with professional experience spanning production, quality, sales, service, installation and application engineering. His career has included working with MD CORPORATION a sole Distributors for Omax waterjets USA in India , also with Electronica Machine Tools, along with waterjet service, installation, training & customer support experience.

Established in 2020, Abhiyadna Machine Tools has built its capabilities around CNC waterjet cutting, wirecut EDM and custom manufacturing. Based at AURIC City, DMIC Shendra in Chh. Sambhajinagar, the company serves applications across sectors including aerospace, automotive, defense, architecture and heavy engineering.

For a waterjet professional, moving from working with the technology to building a business around it represents an important entrepreneurial transition. Technical knowledge becomes capability; understanding customer problems becomes opportunity; and experience on the shop floor becomes a foundation for creating value.

The Entrepreneurial Edge

The waterjet industry offers opportunities beyond simply owning or operating a machine. They can emerge from understanding a difficult application, developing a specialized service, solving a customer's manufacturing challenge, or finding a better way to use existing technology.

The journey of Mr. Deepak Jagtap and Abhiyadna Machine Tools provides one example of this transition , from technical expertise to entrepreneurship. Perhaps that is one of the defining strengths of the waterjet ecosystem: the technology creates possibilities, but people recognize the opportunities.

Source : www.abhiyadnamt.com



Case of the Month



Two Applications. One Technology. Different Opportunities: Waterjet cutting is often associated with precision profiling. But its real value can extend much further into material optimization, product development, creative manufacturing and higher-value services. Two recent cases from **Hydromar, UK**, published in July 2026, offer a useful glimpse of this wider opportunity.

Aerospace: Cutting Material Waste Before Machining. An aerospace customer required **178 mm-thick aluminium** to be profiled with complex longitudinal cuts. Instead of producing each finished component from a separate billet, Hydromar used waterjet cutting to rough out the geometry and produce **two oversized blanks** ready for final CNC machining.

The result: significantly reduced material consumption while allowing waterjet and CNC machining to perform the processes they are each best suited for.

Theatre: From Artwork to Finished Parts

For the Royal Opera House's production of Don Quixote, Hydromar took supplied artwork, generated the CAD data, sourced the material and carried out the waterjet cutting. The individual parts were delivered ready for painting & assembly, showing how waterjet can become part of a creative production workflow rather than simply a cutting operation.

The Opportunity Beyond Cutting

These two cases come from very different worlds, **aerospace engineering and theatrical production**, yet they demonstrate the same principle.

The opportunity may not always be in selling a cut profile. It can be in understanding the customer's complete requirement & using waterjet as one part of a larger solution. For entrepreneurs & intrapreneurs in the waterjet industry, that can mean asking a simple question:

What more can we create around the capability we already have? Hydromar itself illustrates this evolution, having expanded from its original waterjet cutting service into CNC machining and a broader range of finished-product capabilities.

CLICK: [to read more on their Aerospace aluminium case](#)

CLICK: [to read more on their Opera house case](#)



Ask an Expert



Q: How can a waterjet business identify new applications and opportunities without simply investing in another machine?

A: A good starting point is to look at the problems customers are already bringing to you. Difficult materials, complex geometries, low-volume requirements, tight tolerances or processes that create excessive waste can all indicate applications where waterjet may provide an advantage.

The next step is to understand the complete manufacturing requirement, rather than looking only at the cutting operation. Sometimes the opportunity is created by combining waterjet with CAD/CAM, CNC machining, fabrication or finishing.

Businesses can also examine their existing customer base. A customer who currently buys one type of component may have other requirements that could be addressed with the same equipment and expertise. Developing these adjacent applications can create additional revenue without necessarily requiring another machine.

The key is to identify the opportunity first, validate the application, and then decide whether additional investment is justified.

Source : [2Do Consultancy](#).

Marketplace & Innovations

Three Innovations Expanding the Waterjet Opportunity

Waterjet innovation is moving beyond cutting speed and pressure. Resource efficiency, greater cutting freedom and smarter machine monitoring are opening new possibilities for waterjet businesses.



No.1 Abrasive Recycling

Flow NX Pro

Flow's NX Pro introduces automated abrasive recycling, designed to recover and reuse used abrasive while reducing abrasive handling and disposal. Flow states that the system can reduce abrasive consumption and disposal by up to 50%.

Why it matters: Lower consumable use and less waste can translate into improved operating efficiency. [Flow NX Pro](#)



No.3 Connected Cutting

OMAX MAXIEM X

The MAXIEM X incorporates remote monitoring, machine-status alerts and abrasive-clog detection, bringing greater visibility and process control to waterjet operations.

Why it matters: Better information and faster response can help operators and production managers reduce interruptions and make better use of existing capacity [OMAX MAXIEM X](#)

No.2 The 5-Axis Freedom

WARDJET APEX-90

WARDJET's APEX-90 expands five-axis waterjet capability with a $\pm 90^\circ$ cutting range, targeting more complex angled geometries and applications.

Why it matters: Greater cutting freedom can help businesses pursue components and applications that may previously have required different manufacturing approaches.

[WARDJET APEX-90](#)



The Innovation Opportunity

The direction is clear: waterjet innovation is increasingly about **using resources better, cutting more complex geometries and making machines smarter**. For entrepreneurs and intrapreneurs, each development can represent not just a technology upgrade, but a potential new business opportunity.

Source : [2Do Marketing](#).

Training & Events



- **Expo:** IndTecExpo 2026 , Bangalore (Oct 09-11) + Hosur (Oct 28-31)
(<https://www.indtecexpo.com>)
- **Expo:** EUROBLECH 2026, Hanover, Germany (Oct 20-23,
(<https://www.euroblech.com>)
- **Expo:** Industrial Connect 2026 (November 16-18) (<https://industrialconnectexpo.com>)
- **Expo:** Abrasive Expo 2026 (November 14–16, Kolkata
(<https://www.theabrasiveexpo.com>)
- **Expo:** Rajkot Machine Tools Show 2026 ((Nov 25–28, Rajkot)
(<https://www.kdclglobal.com/kdcl-event/10th-rajkot-machine-tools-show/>)
- **Expo:** Indus-Tech Expo 2026 (Dec 11–14, Faridabad)
(<https://industechexpo.com/indus-tech-expo-faridabad-2026>)

2Do Corner



Have an Idea? Give It a Direction.

Every business opportunity starts with a thought.

Perhaps there is a new application you want to explore. A service you believe your waterjet business could offer. A process you want to improve. Or simply an idea that has been on your mind but has never become a plan.

2Do DIY helps you take that thought further.

Through the **2Do Consultancy** framework, you can work through your business idea, clarify priorities, understand the people involved, explore possibilities and develop a clearer path towards implementation.

You don't always need to start with all the answers.

Sometimes, you just need to start by asking the right questions.

Think it. Develop it. Impact it.

Visit 2Do DIY — Development, Impact & You

Thank you for reading!

Call for Collaboration

We're inviting stories, cases, innovations, or partnerships. Want to get featured or co-develop a solution?

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