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BLASTONE


BLASTONE

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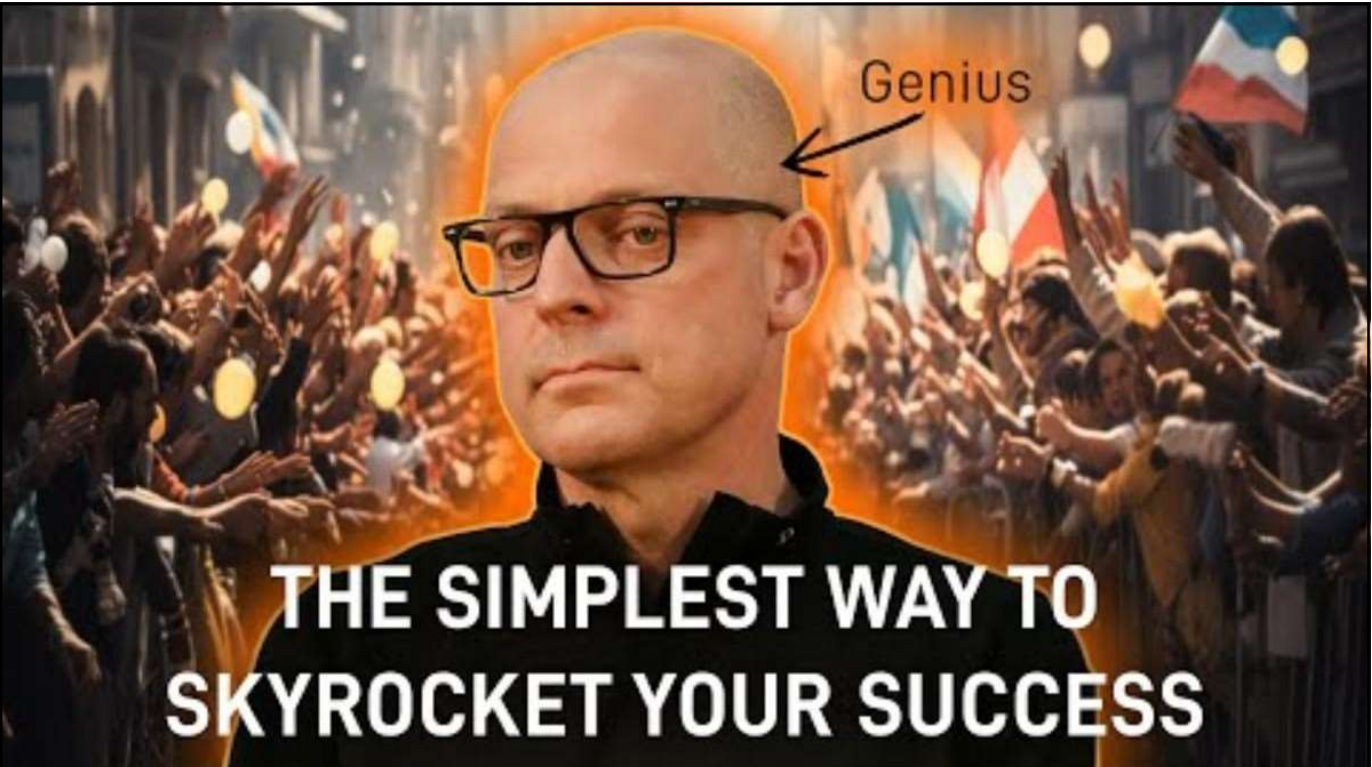


ABOUT BLASTONE

BlastOne is a Global Leader for Abrasive Blasting and Industrial Coating Solutions. Established nearly 50 years ago, BlastOne now operates internationally in North America, Australia, Malaysia, New Zealand, UK and Europe.

BlastOne re-invests more than anyone in the Industry on Research & Development for the betterment of the industry.

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Genius

THE SIMPLEST WAY TO SKYROCKET YOUR SUCCESS

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NEW TECHNOLOGIES



INTELLIBLAST

- Live jobsite metrics monitoring, including abrasive consumption



SNAKEBITE

- The world's quietest blast nozzle



MISTBLASTER

- Wet or dry blast – the ultimate flexibility for any job



VACULODGING

- Efficient abrasive recovery



BAABS

- Improve worker fatigue with Schmidt's new deadman system



VERTIDRIVE UHP WATERJET ROBOT

- Closed-circuit UHP robot for efficient removal of coatings



COMBI RECYCLER

- Get the most out of your abrasive



BULK MISTBLASTER

- The same flexibility of the MistBlaster, but now up to 4 operators



VERTIDRIVE ABRASIVE BLAST ROBOT

- Does the work of 5 blasters

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SNAKEBITETM BLAST NOZZLE

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BLASTING FASTER, SAFER, CLEANER
SnakeBite Nozzle



The World's Quietest Blast Nozzles

- Up to 75% Quieter!
- 45% Less Thrust!

<https://www.blastone.com/snakebite-the-worlds-quietest-blast-nozzles-info/>

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BLASTING FASTER, SAFER, CLEANER
SnakeBite Nozzle



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BLASTING FASTER, SAFER, CLEANER

SnakeBite Nozzle



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APPROACH TO DEVELOPING A NEW SILENCED & SAFER BLAST NOZZLE

Research goal - define a new nozzle geometry that maximises nozzle cleaning efficiency whilst producing reduced noise and thrust.

Partnered with the Centre for Hypersonics at Queensland University, Brisbane, Australia.

A 3-STEP APPROACH WAS ADOPTED:

- 1.Design
- 2.Verify
- 3.Validate



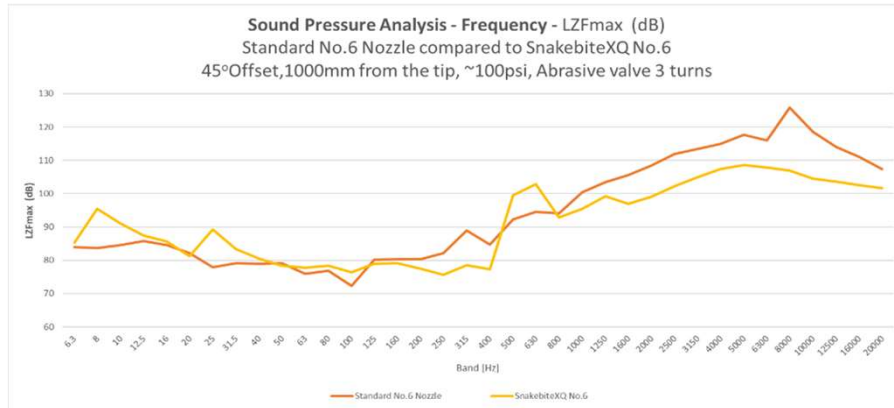
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RESULTS

Blasting "screech" eliminated, and
noise reduced by up to 16dBA



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RESULTS

Nozzle thrust reduced by up to 45%

Nozzle Size	Thrust produced by a typical Standard nozzle in kilograms	Average thrust produced by the newly developed silenced nozzle in kilograms	% nozzle thrust reduction
No. 6	6.3	4.12	36%
No. 7	8.7	4.77	43%
No. 8	11.4	7.0	38%
No.10	17.9	9.4	47%



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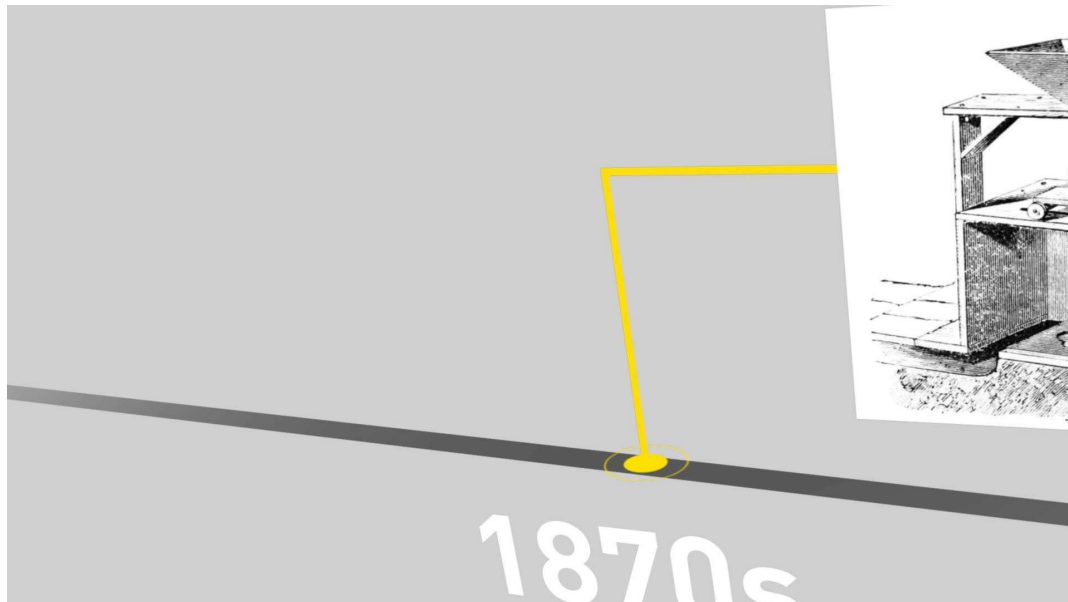
WHAT IT MEANS FOR THE BLASTING INDUSTRY

1. Increased ability to comply with noise related regulatory requirements.
2. Blast longer and later in noise sensitive areas.
3. Reduced noise related exclusion zones.
4. Lower operator fatigue – over the shift and over the project duration.
5. Reduced risk of hearing related and strain related injuries and claims
6. Improved project outcomes and a better quality of life for blasters.



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COMPARISON WITH STANDARD NOZZLES



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BLASTING FASTER, SAFER, CLEANER

Case Study: Snakebite Nozzle

- ExxonMobil was looking for compliance solutions to lower the overall dB level while abrasive blasting. OSHA regulations cut back their daily blasting hours from 6.5 to 5, which would have blown out job timelines and cost.

Test Results	At Blaster	25ft from Blaster
Standard #7	122.3 dBA	109.8 dBA
SnakebiteXQ #7	101.9 dBA	91.8 dBA
Sound Reduction	20.4 dBA	18 dBA

- With Snakebite, Exxon no longer need to monitor for extra noise exposure when blasting, and other trades can work in the same vicinity as the blasting contractors without wearing additional hearing protection.

18-20 dBA Reduction



Comments from the Exxon CIH

"The implication of the new regulations would have drastically blown out timelines"

"I was standing outside the tank and all I could hear was the compressor. I peeked my head in to see when the blasting would start... and it already had."

Eric – ExxonMobil Chief Industrial Hygienist

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WHY MISTBLASTER?

1. High Performance

- a) Dry Blasting
- b) Wet Blasting
- c) Washdown
- d) Blowdown

2. Low Water Consumption

3. Easy



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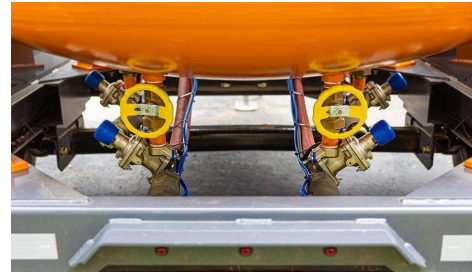
HIGHEST PRODUCTIVITY

No Pressure Restrictions

What makes the MistBlaster so fast? In a word, it's pressure.

Designed with our high-flow connections, the drop in pressure is typically a scant 3psi.

When you figured that every 1psi in pressure loss equates to 1.5% reduction in speed, this really matters.



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FOUR VERSATILE FUNCTIONS

Dry Blasting

- We keep water out of the blast pot, allowing you to dry or mistblast simultaneously

Wet / MistBlasting

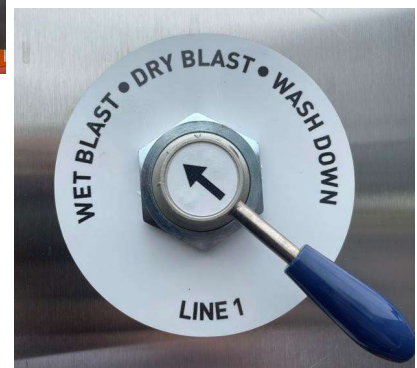
- Lowest water consumption in industry – “Just enough water to suppress the dust, but without the mess”

WashDown

- Wash the work piece down with full water volume (by passing the MistBlast needle valve)

BlowDown

- Dry off the surface with air only or blow away any abrasive from your area.



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SIMPLE WATER CONTROLS

Low Water Consumption

- Only 1 pint/minute when MistBlasting
- Simple Needle valve adjustment
- Injects water after the metering valve, into the blast hose

Full Flow Washdown

- 2GPM when in washdown
- Bypasses MistBlast mode to keep your blast settings



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CONTROL CABINETS

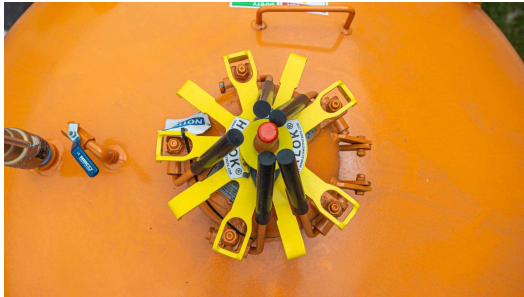


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SCHMIDT HALOK SAFETY POTCLOSURE



HIGHWAY CERTIFIED TRAILER WITH SPARE TIRE



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MEGA MISTBLASTER

What comes in a Mega MistBlaster?

1. 4 Outlet MistBlaster all independently controlled
2. Blast Timers
3. 8 Ton Schmidt BulkPot
4. Highway Certified Trailer with Spare Tire
5. Upgraded High-flow Piping
6. TeraValve Abrasive Metering Valves
7. HALOK Safety Closure
8. Silenced Exhaust Muffler



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MISTBLASTER COMBO SKID

What comes in a MistBlaster ComboSkid?

1. MistBlaster Blast Machine
2. 400cfm Air Dryer with Deliquescent
3. 50 Gallon Water Tank
4. Air Receiver with spare air ports
5. Breathing Air Station with a Filter and Carbon Monoxide Alarm
6. Silenced blowdown muffler
7. Deadman, Cable and Battery Leads.
8. Upgraded High-flow Piping
9. TeraValve Abrasive Metering Valve



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BLASTING FASTER, SAFER, CLEANER

Vertidrive Robot

- IT'S LIKE BLASTING ON AUTOPILOT!
- 3X faster than a man with a nozzle
- Achieve 2000-3000sqft per day
- Helps overcome man power / skilled labor shortage
- Consistency of blast reduces rework
- No blaster downtime, overtime, lunch breaks, sick days, fatigue, injuries
- Eliminate part of the costs of ladders, aerial work platforms, scaffolding



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BLASTING FASTER, SAFER, CLEANER Vertidrive Robot



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BLASTING FASTER, SAFER, CLEANER Vertidrive Robot

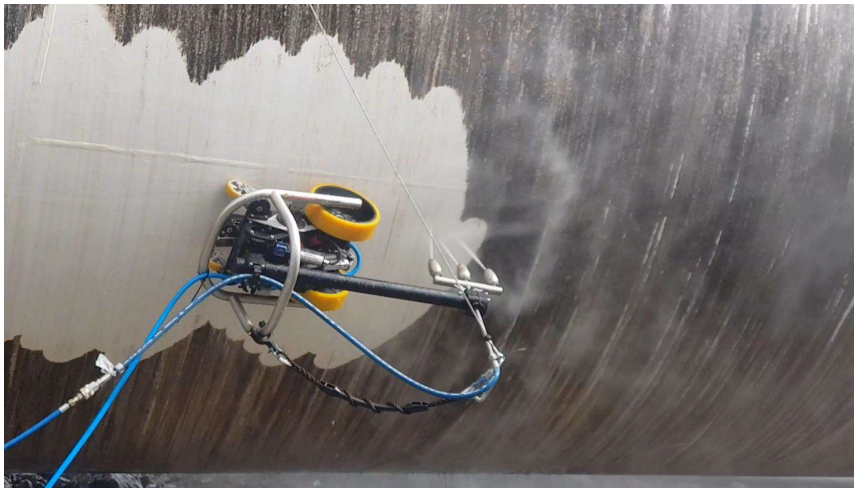


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BLASTING FASTER, SAFER, CLEANER Vertidrive Robot



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VERTIDRIVE – IT'S LIKE BLASTING ON AUTOPILOT



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VERTIDRIVE – IT'S LIKE BLASTING ON AUTOPILOT



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VERTIDRIVE – IT'S LIKE BLASTING ON AUTOPILOT



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VERTIDRIVE – IT'S LIKE BLASTING ON AUTOPILOT



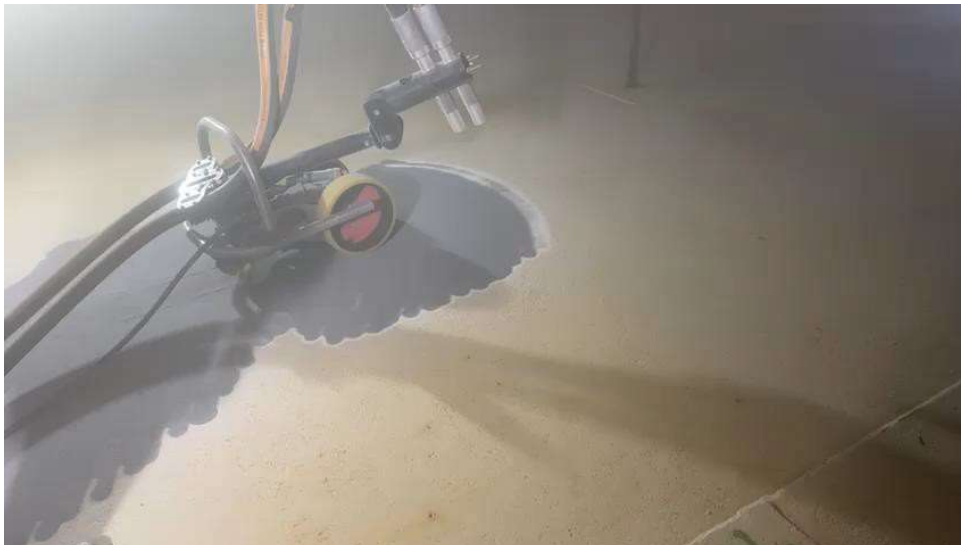
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VERTIDRIVE – IT'S LIKE BLASTING ON AUTOPILOT



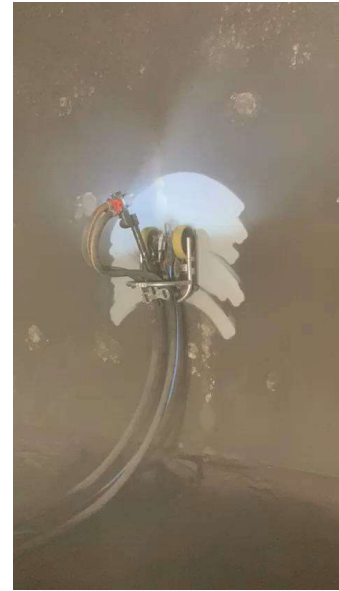
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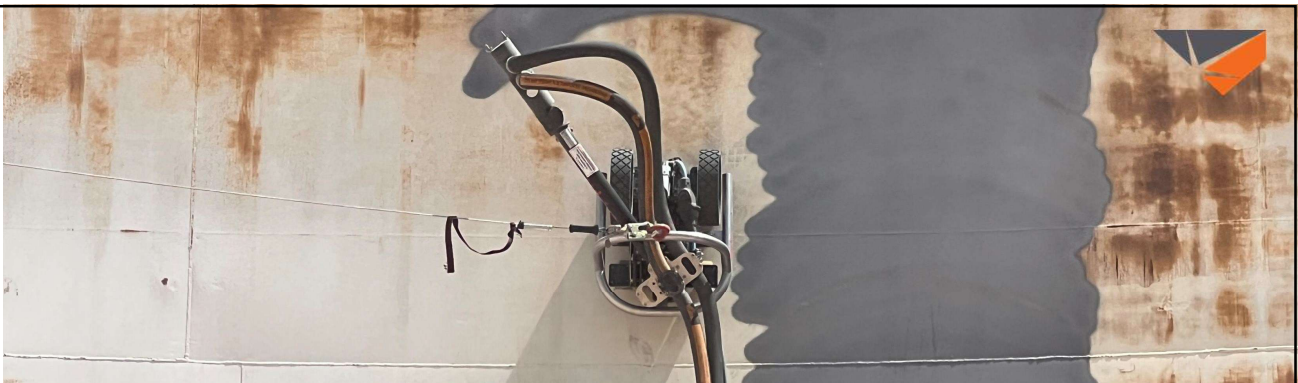


VERTIDRIVE – IT'S LIKE BLASTING ON AUTOPILOT



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FASTER

- 5x faster than manual work
- Allows for up to 80% cost reduction
- Low maintenance and easy to transport from site to site
- Can do HP, UHP and abrasive blasting all in one system

SAFER

- Wirelessly controlled – keeps workers out of harm's way
- Reduces working at a height to a minimum
- Safe and easy access to all horizontal and vertical surfaces

CLEANER

- Dust and visibility issues no longer hinder production

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VERTIDRIVE UHP WATERJET ROBOT

AVAILABLE FOR RENTAL OR PURCHASE

The VertiDrive is not simply a blasting robot – it is a closed hydroblasting solution.

- Covers up to 45 m²/485 ft²/hr
- Blasts an incredible 15.5" cleaning width
- Dries large steel surfaces immediately – preventing flash rust
- Allows up to 80% cost reduction
- Low maintenance and easy to transport from site to site
- Compact design - Fits in a 24" manhole

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VERTIDRIVE UHP WATERJET ROBOT

AVAILABLE FOR RENTAL OR PURCHASE



vertidrive

M4 Hydroblasting

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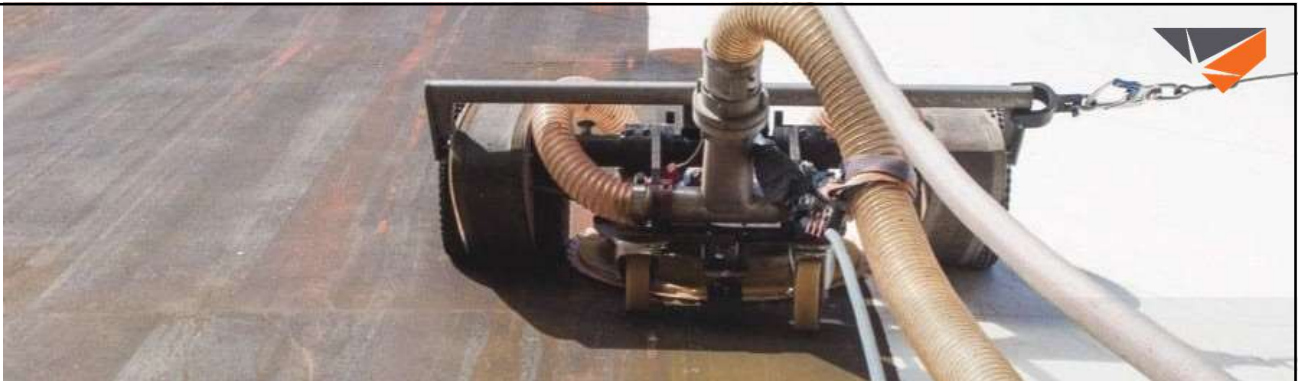


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**FASTER**

- 5x faster than manual work
- Consistent and high-quality surface preparation

SAFER

- Unique safety feature ensures pump shuts off when contact is lost with surface
- Remotely controlled, no operator near the nozzle
- Reduces working at a height to a minimum
- Safe and easy access to all horizontal and vertical surfaces

CLEANER

- No more dirt and pollution on site – all waste water is collected by the vacuum system
- Less water is needed compared to manual operation

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FASTER | SAFER | CLEANER

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10Q PERFORMANCE BENEFITS

The 10q robot is based on Qlayers' patented coating technology, allowing to spray coat tanks in a semi-automated manner.

PRECISION

Increased coating quality thanks to applying a smooth and consistent layer

WORKER SAFETY

Fewer working hours at height results in a reduced safety risk

ENVIRONMENTALLY FRIENDLY

Less than 1% of overspray makes the process more environmentally friendly

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QLAYERS— EXPERIENCE THE POWER OF AUTOMATION



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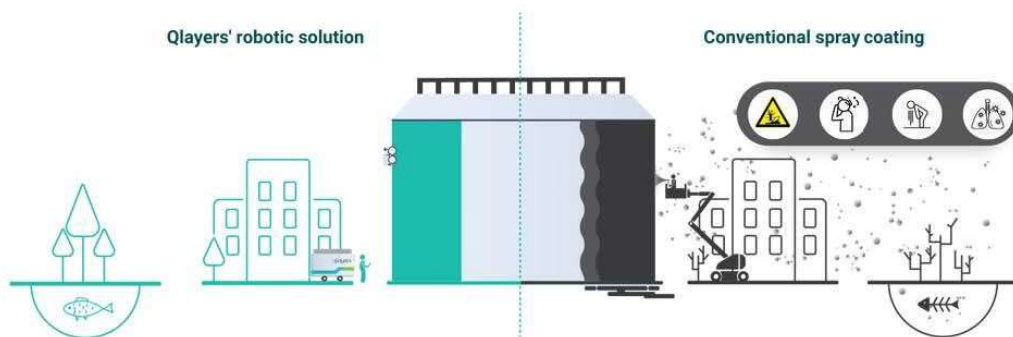
10Q PERFORMANCE BENEFITS



In 2022 alone, we completed 10 commercial projects and demos for storage tank maintenance and 5 for ship repair, attracting various clients across Europe, the US, and Asia.

Next to the abovementioned benefits, there are two additional, major advantages valued by clients:

- When substituting manual rolling, a considerable speed increases can be achieved, **reducing the project duration by almost two-thirds.**
- Compared to manual spraying, on the other hand, the 10Q robot shows considerable **paint savings of more than 20%, resulting in a reduction in paint costs.**



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QLAYERS— EXPERIENCE THE POWER OF AUTOMATION



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CASE STUDY: SHELL DEER PARK (US)



OVERVIEW

We teamed up with Shell and Partner Industrial to install a high-performance coating system on Tank A331 at the Shell Deer Park Refinery in Texas. The refinery has a capacity of 275,000 bbl/d and operates 24 hours a day. Spray paint was not allowed to be used to coat Tank A331 due to its proximity highway and auto dealership.

RESULTS

- 10 day reduction of coating time
 - 6 days total instead of the typical 16 days using brush & roll
- 3x increased production rates (compared to traditional methods)
 - 0.25 m/s average application speed
- 75% reduction of working from height times
- 10q robot was able to continue operating during changed weather conditions, including high wind speeds

TESTIMONIAL

"The work on the tank exceeded expectations for productivity, with a large area been completed in a very short time span. Importantly for us, work was able to proceed in wind conditions that would have stopped either roller or airless application so widening the window for application is a benefit." - **Shell**

"We were extremely happy with the robot, it was intuitive and straightforward to use and we estimate that we would have had another 2-3 weeks work with roller application if the robot was not used. This offers a significant opportunity to improve productivity so we are looking forward to working together of further jobs." - **Partner Industrial**

Project date: December 2021

Object ID: TKA331

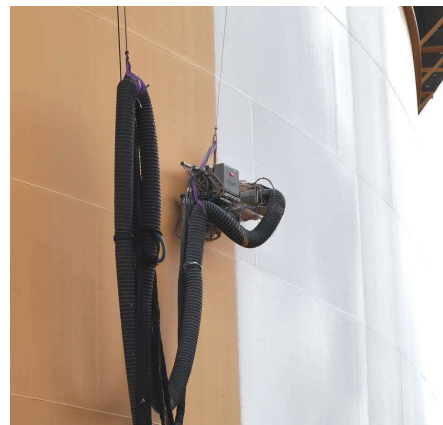
Tank height: 17 m

Tank diameter: 60 m

Coating contractor: Partner Industrial

Total surface coated: 3747 m²

Type of coatings used: Interseal 670HS (primer), Interthane 990 (topcoat)



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THE CURRENT STATE OF PLAY

- Blast pot settings are key to efficient and effective blasting.
- Low blast hose pressure and low abrasive flow rate reduce blasting effectiveness and increase project timeframes.
- High abrasive flow rate is wasteful and costly.
- Typically, blast pot settings are determined by the operator.
- These settings are seldom adjusted to suit changes in blasting conditions or are set at non optimal settings.
- The ability to accurately monitor and control abrasive consumption and system pressure are key factors in operational efficiency.



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BENEFITS OF INTELLIGENT BLASTING SYSTEMS

- Monitor key “health” metrics remotely
- Optimal system performance
- Faster cleaning rate
- Reduced waste
- Lower project cost
- What is measured can be managed, optimizing performance and finishing projects faster
- Early warning signs of lower productivity – compressor issues, pressure loss, excess abrasive consumption
- **Can be used to monitor subcontractors performance metrics**



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INTELLIBLAST NEO

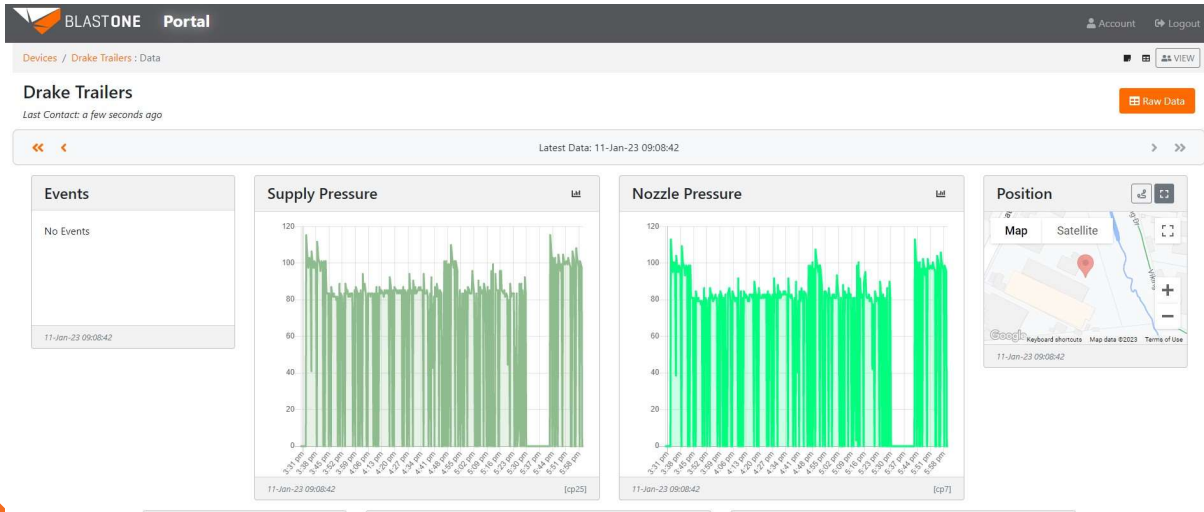


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THE FUTURE OF BLASTING REPORT

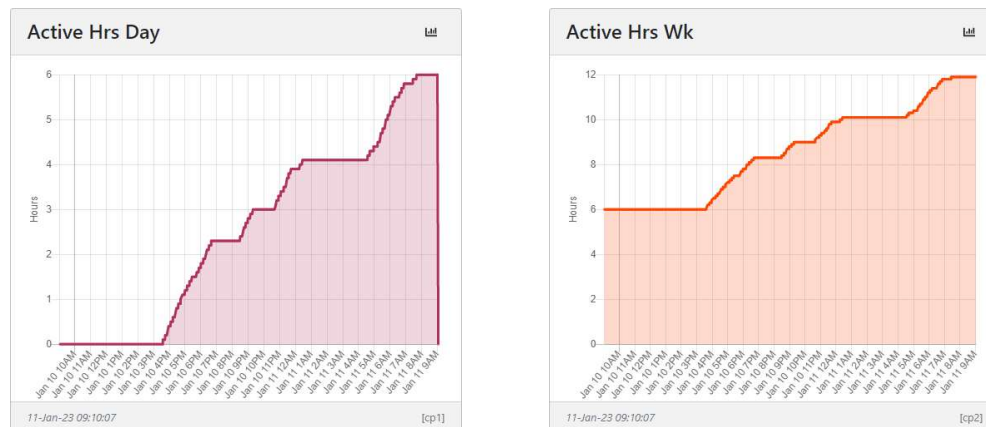


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THE FUTURE OF BLASTING REPORT



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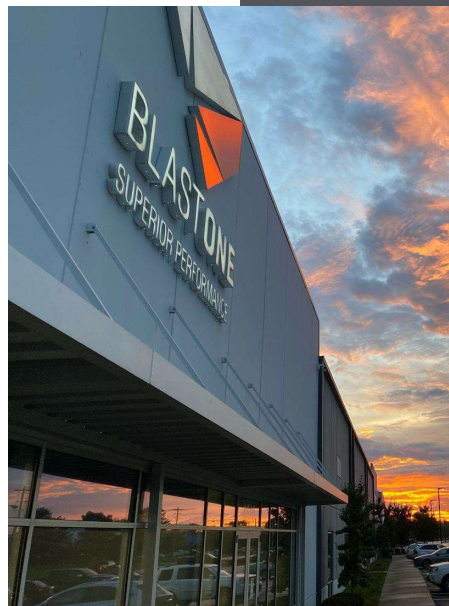
THE FUTURE OF BLASTING CONTROL

- Automatically adjust abrasive flow rate to ensure the system operates at optimal performance.
- Optimizes setting for different abrasive type and blast nozzle size combinations,
- Automatically adjust abrasive metering valve to maintain optimal abrasive flow rate due to changes in temperature or pressure.



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THANK
YOU!



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