

vertidrive
WE CREATE
INNOVATIONS
THAT STICK | **V400**

SOLUTION FOR REMOVING COATINGS AND CONTAMINANTS FROM LARGE STEEL SURFACES

Surface preparation trends are rapidly changing. New regulations focused on environmental impact, safety, and labour are putting pressure on shipyards, tank terminals, and subcontractors. Industry contractors must adapt their methods of surface preparation or become obsolete. A significant shift is underway, moving away from hazardous abrasives and towards Ultra-High-Pressure (UHP) blasting.

However, even with UHP blasting - paints, coatings, and protective materials can still harm our environment and wildlife. That's where the VertiDrive V400 Series steps in.

Introducing our newest V400 platform: the strongest and most robust robotic solution in its class for enclosed UHP water

blasting and washing. Designed to withstand harsh industrial environments, its durable frame allows for versatile operation: upside down, vertically, or horizontally, thanks to our improved, powerful magnets.

The V400 Series is purpose-built to address present challenges and beyond, ensuring large steel surfaces can be prepared with utmost safety, efficiency, and regulatory compliance.

**FASTER,
SAFER,
CLEANER.**



V400

EXPERIENCE MASSIVE PRODUCTION

Our V400 Series introduces a break-through solution that surpasses the limitations of traditional UHP blasting methods. No longer accept slow production rates that average 5-8m² 53.8-86.1ft² (5-8m²) per hour, when you can experience an impressive average coverage of 484.4ft² (45m²) per hour.

Upgrade your blasting operations to the V400 Series and unlock exceptional performance, backed by our expert knowledge, and unwavering customer support.

SAFER, FASTER, CLEANER

Revolutionise your operations with our Skid Mount Vacuum System for the V400 Series for cost-efficient waste water collection

Effortlessly collect waste water and store them responsibly in our optional big bag holder. Experience unmatched performance, flexibility, and cost savings in one smart solution.

KEEPING OPERATORS OUT OF HARMS WAY

Worker safety is of utmost importance, and the VertiDrive V400 Series prioritizes this for the surface preparation industry. By removing UHP equipment from operators' hands and providing a remote control for the magnetic crawler, a blaster can perform the work more efficiently without risking their personal safety. All the blasting takes place within the crawler's blast can, eliminating concerns about airborne debris like rust, coatings, and paints.

Traditional blasting and washing operations often require workers to be in close proximity to the surface using cherry pickers, scaffolding, or rope access. These methods not only increase costs, but also pose significant safety risks, especially in windy conditions. The VertiDrive V400 Series mitigates these risks by operating safely in winds up to 57 mph (50 knots / 90 km/h), eliminating the need for specialised structures and equipment.



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V400

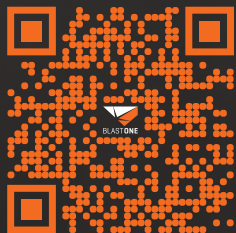
MITIGATE FLASH RUST

The V400 Series is a cutting-edge innovation in surface preparation. When paired with the VertiDrive Vacuum System, it provides an efficient means of waste water collection and guards against flash rust. The treated surface dries instantaneously, making it ready for subsequent applications such as paint or coating.

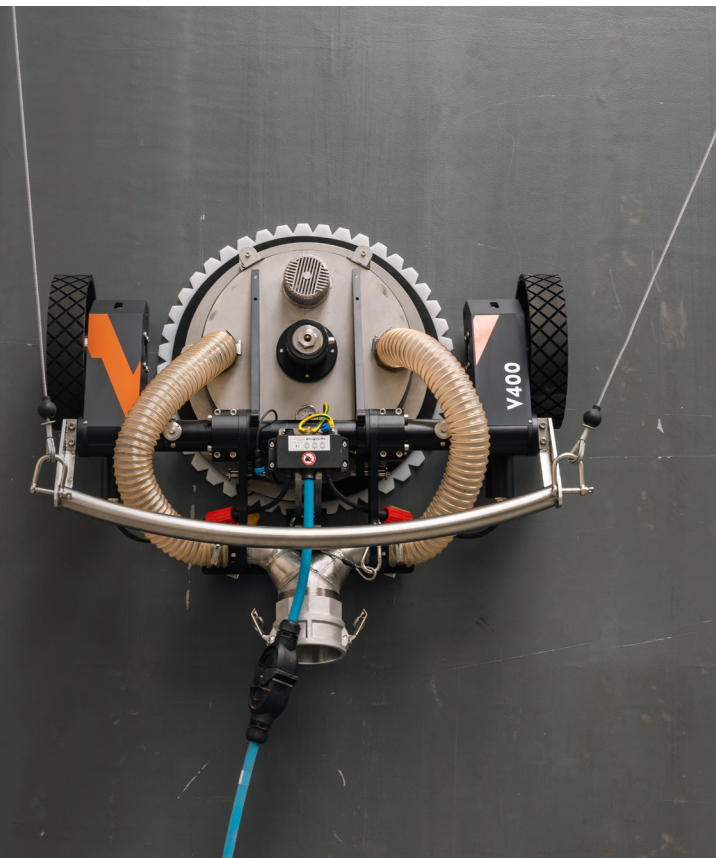
Equipped with a closed blast can featuring an Ultra-High Pressure (UHP) cross, the V400 Series accommodates up to 16 nozzles. The system utilizes UHP water blasting to effectively restore the surface profile, guaranteeing a superior level of surface preparation.



- > **485 FT² / 45M² PER HOUR**
- > **UP TO 5X MORE EFFICIENT**
- > **UP TO 5X FASTER THAN MANUAL WORK**
- > **UP TO 92% COST REDUCTION**



**VIEW THE
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ONLINE**



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TECHNICAL SPECIFICATIONS

ROBOT

> Robot dimensions	35.5" x 39" x 16.5" 900mm L x 990mm W x 420mm H
> Weight	194 lbs (88 kg)
> Payload capacity	330 lbs (150 kg)
> Driving speed	Max. 16.4 ft/min (5m/min)
> Holding power magnets	Up to 660 lbs (300 kg)
> Minimal Radius Required	>32ft (10m) radius (65 ft diameter)
> Max operational Windspeed	50 knots / 57 mph
> Adjustable Magnets	From 0.16" to 0.47" (4 to 12mm)
> Drive Motors	2x 315W

UMBILICAL

> Dimensions	ø 0.7", length 164 ft (50 m)
> Weight	55 lb (0.33 lb/ft) 25 kg (0.5 kg / m)
> Extension	Max 328 ft (100m)

CONTROL BOX

> Input voltage range	230V systems: 200-240 VAC 120V systems: 100-120 VAC
> Input frequency range	50/60 Hz
> Input current (without cooling)	230V systems: 5A, 120V systems: 10A
> Input current (with cooling)	230V systems: 7A, 120V systems: 14A
> Working temp. (without cooling)	0 to +95°F (-20 to +35°C)
> Working temp. (with cooling)	0 to +120°F (-20 to +50°C)
> Output voltage to the robot	70 VDC (motors) and 24 VDC (logic).
> Dimensions	24" H x 24" W x 10" D (24" x 27" x 10" with optional cooling)
> Weight	77 lb (97 lb for 'high temperature' systems with cooling)

REMOTE SYSTEM

> Remote control System	Hetronic Nova XL
> Range remote control	328 ft (100 meters)

ENVIRONMENTAL CONDITIONS

> Storage temperature	-40 to +185°F (-40 to +85°C)
> IP rating robot	IP65
> IP rating control box	IP66
> IP rating remote control	IP66

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APPLICATION SPECIFICATIONS

ULTRA-HIGH PRESSURE

- > Max. 43,500 psi @ 10.5 gal/min
Max. 3000 bar @ 40 l/min
- > Cleaning Width 15.75" (400mm)
- > Self-rotating cross with 16 x M10 nozzles
- > Average up to 484ft² per hour (45m²)