



**vertidrive**  
WE CREATE  
INNOVATIONS  
THAT STICK | **V700**

## **INDUSTRIAL-GRADE SOLUTION FOR REMOVING COATINGS AND CONTAMINANTS FROM LARGE STEEL SURFACES**

The steel surface preparation industry has faced many challenges, including slow production, high costs, and dangerous working conditions. To keep up with changing times and prioritise safety and efficiency, it's important for companies to innovate and attract new talent. That's where the VertiDrive V700 Series comes in.

Our new robotic platform is designed specifically for tough industrial environments, ready for future demands. With powerful magnets, the V700 Series can work on any steel surface with magnetic properties, even upside down. Plus, it's incredibly versatile and can switch between three different applications in just minutes.

### **REDUCE ASSET DOWNTIME**

The V700 Series can help speed up the process of preparing large steel assets like storage tanks and ships. Normally, this preparation can take up to 70% of the surface treatment preparation.

This results in enhanced availability of assets. For instance, there's a notable increase in tank storage, and docking availability.

**FASTER,  
SAFER,  
CLEANER.**



# V700

## EASY TO USE

- > Operator Friendly
- > Compatibility
- > Easy to maintain
- > Plug and play
- > On site training

With our Train-the-Trainer program, we ensure you'll have someone in-house qualified to train new staff to operate the crawler while maintaining the best results. This helps ensure that your operation runs smoothly and efficiently.

## EXPERIENCE MASSIVE PRODUCTION

The V700 Series can improve your washing and blasting performance significantly. We don't just sell you a piece of equipment - we analyse your current operation and show you how our crawler can be your competitive advantage.

With the V700, you can achieve impressive blasting and washing results in terms of performance and high consistent quality. Check out the V700 Series applications below.

## KEEP OPERATORS OUT OF HARMS WAY

Our solutions prioritise the safety and health of operators. By removing dangerous UHP and abrasive blasting nozzles and lances from the operator's hand, we've reduced the risk of injury. The V700 is operated remotely, ensuring the operator's safety by maintaining a secure distance from the actual blasting process

Traditionally surface treatment operators have to use cherry pickers, scaffolding, or rope access to blast elevated surfaces. With the use of a V700 series these challenges are taken away. The robot can even work safely up to wind speeds of 57 mph (50 knots / 90 km/h), increasing the actual blasting time.



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# V700

## V700 FOR ABRASIVE BLASTING

Best for removal of coatings, paints, liners, corrosion, and anti-fouling systems. This method provides a brand-new profile on the blasted surface.

- Blast up to 646ft<sup>2</sup> (60m<sup>2</sup>) per hour.
- Capable of holding up to 3 #10 SnakeBite blast nozzles. Max. 600 N at 3.28ft (1m) arm length
- Can house any blast hose and nozzle between 0.7874" to 3.1496" (20mm to 80mm)

## V700 FOR HIGH PRESSURE WASHING

Best for the removal of contaminations like oils, fouling, salts, and others.

This method maintains the underlying coatings and liners.

- Up to 14500 psi @ 21.1 gal/min (Max. 1000 bar @ 80 l/min)
- 1 or 3 self-rotating nozzle application

## V700 FOR ULTRA HIGH PRESSURE

Best for removal of coatings, paints, liners, corrosion, and anti-fouling systems. This method will restore the surface to its original surface profile.

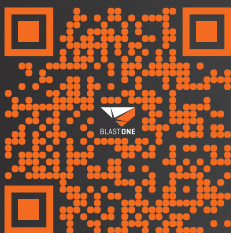
- Max. 43500 psi @ 10.5F gal/min (Max. 3000 bar @ 40 l/min)
- Achieve up to 646ft<sup>2</sup> (60m<sup>2</sup>)
- 60" (1500 mm) cleaning width

## BLAST CONSISTENTLY TO ANY WJ OR SA STANDARD

Utilising the V700 Series with one of the 3 washing and blasting applications will give you a consistent blasting pattern with minimal overlap and high performance ensuring water or abrasives are used most efficiently.

Depending on the specifications of the surface, the swing arm and step timer function can be configured to wash and blast at the most optimal width and speed. With the VertiDrive V700 Series, you don't have to worry about operator fatigue or inconsistency.

The robot always produces the same output, so you'll get a uniform result every time.



VIEW THE  
V700  
ONLINE



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## TECHNICAL SPECIFICATIONS

### ROBOT

> Robot dimensions	29.5" x 20.5" x 28.5" (750mm L x 520mm W x 720mm H)
> Weight	137 lbs (62 kg)
> Payload capacity	397 lbs (180 kg)
> Driving speed	Max. 16.4 ft (5m/min)
> Holding power magnets	Up to 1984 lbs (900 kg)
> Minimal Radius Required	>4m radius (8m diameter)
> Max operational Windspeed	50 knots / 25 m/s
> Adjustable Magnets	0.28" to 0.51" (From 7 to 13mm)
> Drive Motors	2x 315W
> Swing Arm Motor	1x 315W

### SWING ARM

> Torque capacity (horizontal)	Max 150 Nm (15 kg at 1m arm length).
> Torque capacity (vertical)	Max 600 N (60 kg force) at 1m arm length
> Swing arm speed	Max 30 %/s.

### 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)

### HIGH PRESSURE WASHING

- > Max. 14500 psi @ 21.1 gal/min  
(Up to 1000 bar @ 80 l/min)
- > Up to 500 bar @ 100 l/min
- > Up to 7251 PSI @ 26.41 gal/min
- > 1 or 3 self-rotating nozzle application

### ABRASIVE BLASTING

- > Up to 3 nozzles
- > Max. 600 N (60 kg force) at 1m arm length



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