

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 50 knots (57mph / 90 km/h), increasing the actual blasting time.

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WATER JETTING ASSOCIATION AND
INDUSTRIAL & MARINE CLEANING ASSOCIATION

SIR
STECHTING INDUSTRIËLE REINIGING

QUALITY SYSTEM CERTIFICATION
DNV-GL
ISO 9001:2015

BLASTONE

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 60m² (646ft²) per hour.
- > Capable of holding up to 3 #10 SnakeBite blast nozzles. Max. 600 N (60 kg force) at 1m (3.28ft) arm length
- > Can house any blast hose and nozzle between 20mm to 80mm (0.7874" to 3.1496")

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.

- > Max. 1000 bar @ 80 l/min (Up to 14500 psi @ 21.1 gal/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. 3000 bar @ 40 l/min (Max. 43500 psi @ 10.5F gal/min)
- > Achieve up to 60m² (646ft²)
- > 1500 mm (60") cleaning width

BLAST CONSISTENTLY IN 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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BLASTONE

TECHNICAL SPECIFICATIONS

ROBOT

> Robot dimensions	750mm L x 520mm W x 720mm H (29.5" x 20.5" x 28.5")
> Weight	62 kg (137 lbs)
> Payload capacity	180 kg (397 lbs)
> Driving speed	Max. 5 m/min (16.4 ft)
> Holding power magnets	Up to 900 kg (1984 lbs)
> Minimal Radius Required	>4m radius (8m diameter)
> Max operational Windspeed	50 knots / 25 m/s
> Adjustable Magnets	From 7 to 13mm (0.28" to 0.51")
> 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 18mm, length 50 m (164 ft)
> Weight	25 kg (0.5 kg / m)
> Extension	Max 100m (328 ft)

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)	-20 to +35°C (0 to +95°F)
> Working temp. (with cooling)	-20 to +50°C (0 to +120°F)
> Output voltage to the robot	70 VDC (motors) and 24 VDC (logic).
> Dimensions	600mm H x 600mm W x 260mm D (600 x 690 x 260 mm with optional cooling)
> Weight	35 kg (44 kg for 'high temperature' systems with cooling)

REMOTE SYSTEM

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

ENVIRONMENTAL CONDITIONS

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

vertidrive **V700**
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PNEUMATIC
DRIVEN OPTION:
ATEX ZONE 2
CERTIFIED

APPLICATION SPECIFICATIONS

ULTRA-HIGH PRESSURE

- > Max. 3000 bar @ 40 l/min
(Max. 43,500 psi @ 10.5 gal/min)

HIGH PRESSURE WASHING

- > Up to 1000 bar @ 80 l/min
(Max. 14500 psi @ 21.1 gal/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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