

PROFESSIONAL SHOT BLASTING SYSTEMS

FOR STEEL SURFACES PREPARATION



BLASTING SYSTEMS / STEEL SURFACES



Blastrac shot blasting systems is the most effective and environmentally friendly methods of removing paint, coatings, non skid and other contaminants from steel surfaces. Blastrac steel shot blasting systems using steel shot and angular steel grit , or a mixture of the two in a variety of sizes allowing the operator to achieve a wide range of anchor profiles needed for almost any type of coating application.

HORIZONTAL SYSTEMS preparing steel surfaces such as storage tank floors, roofs and steel plates, ship decks, hatch covers, tank tops, barges and other marine vessels, bridge decks, helicopter landing decks, and walkway's on offshore drilling platforms.

VERTICAL SYSTEMS are used in conjunction with specially developed Blastrac Cone, Dome and Floating Roof rigging systems which are constructed in top of the roof and/or floating walkway , a special hydraulic winch systems is installed in top of the rigging system to be controlled by operator, the systems can prepare the shell sides of steel storage tanks internal and external, even for blasting ship hulls and other vertical steel surfaces special systems are available.

WORKING PRINCIPLE

The working principle of all BLASTRAC-EBE equipment is based on the laws of kinetic and mechanical energy. The blasting operation is performed by steel shot and angular abrasive being thrown at high velocity against the surface to be cleaned. Throwing action is achieved through centrifugal force, where a wheel with blades located radially is rotated at very high speed. On to this revolving wheel, abrasive is fed in such a manner that it travels along the radial length of the blades and then is thrown off in a high velocity stream at the surface to be cleaned, efficiently blasting the work surface.

After the abrasive has impacted the work surface horizontally, it rebounds back into the machine, vertically it's a mechanical process by bucket elevator system taking the rust and old coating debris with it. Inside the machine the abrasive is separated from the dust and debris. The abrasive is returned to the abrasive storage hopper to be re-used. The debris is transported by air flow into the dust collector, where it is collected to enable it to be packaged into containers for disposal. This process is an on-going and automatic continuous operation.



BLASTRAC ADVANTAGES

- Achieves high productivity rates: up to 8 times more productive than open and ultra high pressure water blasting and generating a better and preferable profile.
- No need for containment.
- Requires less manpower.
- Reduces square meter costs.
- Offers simplified handling and disposal of waste.
- Recyclable steel abrasive, generating drastic cost savings.
- Allows other trades to work in close vicinity without interruption.
- Are environmentally friendly.
- Produces a range of surface profiles through a selection of steel shot and of angular steel abrasive type, size and machine travel speed.
- SA 1, SA 2, SA 2.5 according ISO 8501-1 standards.
- No flash rusting as with some other methods; surface is dry at all times.
- Cost savings on; scaffolding, compressors, labour, clean up costs, abrasive consumption, project planning and much more.
- 100% dust free blasting operation, systems that can be used in all necessary areas.
- Replaces high pressure water & conventional open blasting, reducing exposure risks to workers and environment.
- Allows other work to continue simultaneously without interfering with the blasting performances.
- Reduces labor costs.
- Reducing 6 till 8 blasters against 1 (one)- machine operator.
- Low abrasive consumption per blasted square meter.
- Can run with a mixture of grit for angular profile of steel for coating adhesion.
- Leaves uniform clean surfaces with reduced clean up time.
- Reduces clean up time meaning shorter surface exposure time to the elements.
- Daily application possibilities of covering the blasted areas.
- High productivity per hour.
- Reduces disposal costs up to 95%.
- Dust collection system can stay stationary at up to 90 meters away.
- Floating seal system around mouth for uneven surfaces.
- Hydraulic electrically and completely electrically powered.
- Reduces air consumption by 100%.
- Reduces scaffolding around tanks etc. by 100%.
- Reduces planning times & schedules for the customer.
- Special lowering kits enable machines to run when tank roof is in a low position.

BLASTING SYSTEMS / STEEL SURFACES

BLASTING OF SHIPS AND OFFSHORE PLATFORMS

In the shipping and ship repair yard industries, the BLASTRAC blasting machines for steel surfaces preparation are designed for processing small and large areas on horizontal and vertical surfaces. Horizontal steel blasting machines are used to clean and profile horizontal surfaces as ship decks, aircraft carrier landing decks, hatch covers and similar horizontal surfaces.

BLASTRAC EBE 350S/500S/600S horizontal steel blasting machines can either be used in the shipyard during normal maintenance programmes or at sea whilst the ship is travelling between ports. On offshore platforms, helicopter landing decks and access walkways it is possible to blast clean without disrupting the normal day to day working of the platform.

Vertical machines are suspended from either a crane or a Blastrac winch system and operate in an up or down direction to clean and profile ship hulls, they are remotely controlled from a mobile work station. BLASTRAC machines fully comply with the very strict safety operating conditions that exist in the industries.



BLASTING PETROCHEMICAL SURFACES

In the petrochemical industry BLASTRAC steel blasting machines are used as a quick and efficient surface preparation method prior to painting small and large surfaces of storage tanks areas, for example, the internal bottom and the external roofs of oil storage tanks. Because of the environment and location of storage tanks in and around oil refining sites, the blasting process must be dust free and safe.

BLASTRAC EBE 350E/500E horizontal steel blasting machines are specially manufactured for the petrochemical industry, the systems are specially designed to enable each machine to be disassembled and that the parts of the machine passed through a standard 24" / 600 mm for the 500E unit and the passed through for the 350E is even less than a 600 mm manhole access opening into areas inside tanks that are normally inaccessible to blasting machines. All the E Series of equipment are built according to the strictest safety devices that allow blasting , safely into storage tank areas.

The BLASTRAC EBE 350VH/500VH vertical blasting machines for steel surfaces are designed for processing large areas on vertical surfaces. The machines are suspended from either a crane and/or a Blastrac Cone, Dome and Floating Roof rigging system and operate in an up or down direction to clean and profile steel shells of tanks. They are remotely controlled from a mobile work station.



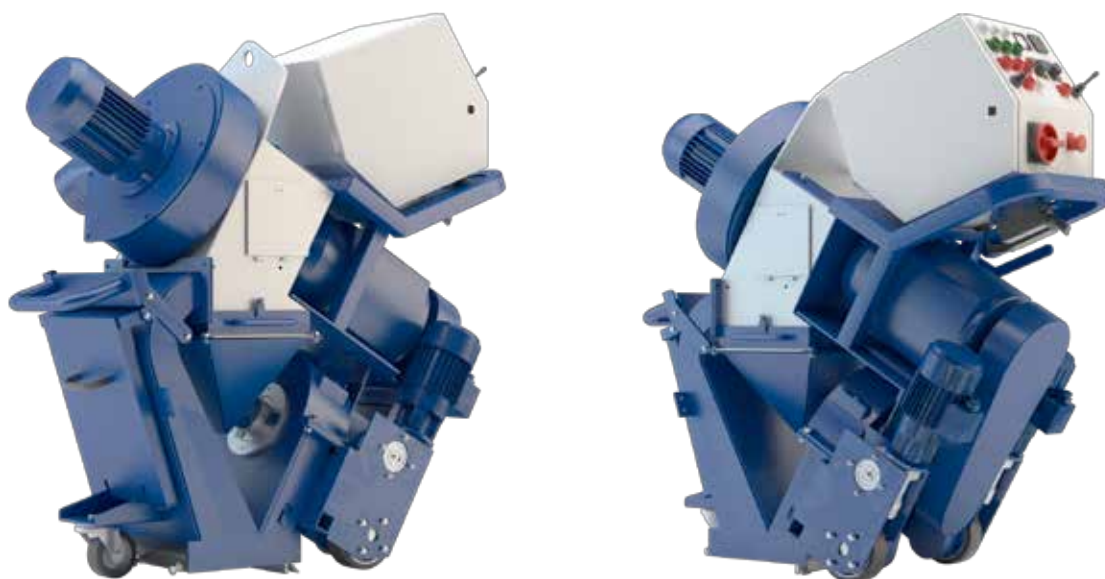
BLASTRAC EBE HORIZONTAL SHOT BLASTER 350E GLOBAL

The BLASTRAC EBE 350E Global has a 13" / 350 mm blast pattern. The machine can be disassembled and the parts of the machine passed through a standard 24" / 600 mm and even less manhole access opening.

The 350E is especially designed for the Petrochemical industry to be used on internal tank bottoms & tank roofs and can be used as well on: ship decks, steel plates, platforms, oil platform helpdesks, oil platform walkways, bridge decks, navy ship decks and other steel floors.

TECHNICAL DATA

Working width	350mm
Blasting capacity	Up to 38m ² /h on steel
Blast wheel power	11kW
Drive system / speed	Electric / 1 – 15 m/min
Weight	430 kg
Output motor	3 x 400V / 50Hz or 60Hz
Electrical CEE plug	32 Amp / Three phase – 5 pole
Dimensions L / W / H	1350 mm / 650 mm / 1100 mm
Push / Pull machine	Push
Abrasive consumption	0,2 – 0,5 kg/m ²
Application	Steel preparation to SA3 standard



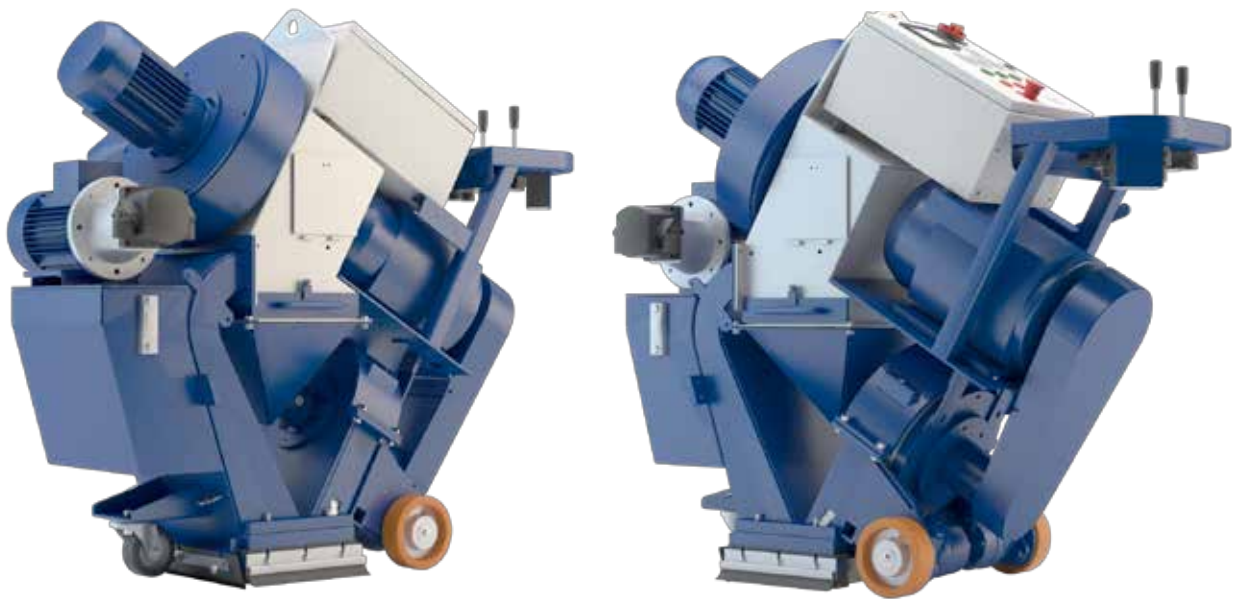
MAIN ASSETS

- Closed circuit which is dust free, when connected to an appropriate Blastrac dust collector.
- Modular construction: allows the machine to be disassembled in only a few parts to pass through a Ø 600mm storage tank access hatch.
- Electrical drive system with special gear which can due to this also be used for tank slope blasting.
- Independent drive for each rear wheel.
- Increased productivity, reduced maintenance costs.
- Fast and efficient removal of coatings, paint, rust and mill scale.
- Special electrical safety device, to be able to use the machine for storage tank blasting.
- Ergonomic design and user friendly control panel.

BLASTRAC EBE HORIZONTAL SHOT BLASTER 350S

The BLASTRAC EBE 350S is a hydraulic driven steel blasting machine. The blast pattern is 13" / 350 mm. The 350S is especially designed to be used on ship decks, steel plates, platforms, oil platform helpdesks, oil platform walkways, bridge decks, navy ship decks and steel floors.

TECHNICAL DATA	
Working width	350mm
Blasting capacity	Up to 38 m ² /h on steel, up to 300 m ² /h on concrete
Blast wheel power	11kW
Drive system / speed	Hydraulic / 1 – 30 m/min
Weight	415 kg
Output motor	3 x 400V / 50Hz or 60Hz
Electrical CEE plug	32 Amp / Three phase – 5 pole
Dimensions L / W / H	1350 mm / 650mm / 1100mm
Push / Pull machine	Push
Abrasive consumption	0,2 – 0,5 kg/m ²
Application	Steel



MAIN ASSETS

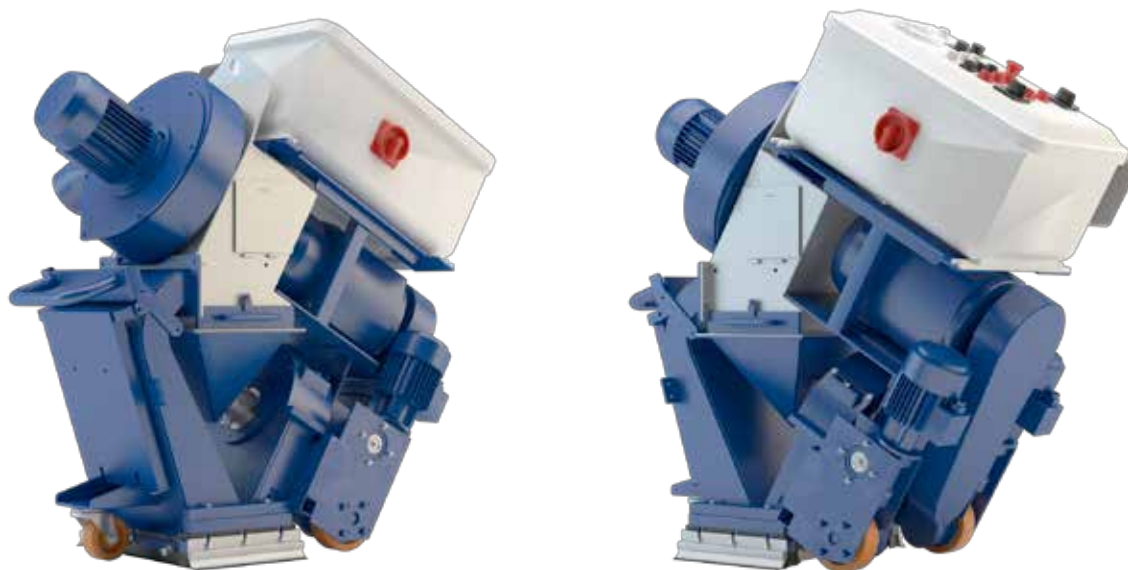
- Closed circuit which is dust free, when connected to an appropriate Blastrac dust collector.
- Hydraulic drive system.
- Independent drive for each rear wheel.
- Increased productivity, reduced maintenance costs.
- Fast and efficient removal of coatings, paint, rust and mill scale on steel and concrete surfaces.
- Ergonomic design and user friendly control panel.
- Especially designed to be used on ship decks, steel plates, platforms, oil platform helicopter decks, oil platform walkways, bridge decks, navy ship decks and steel floors.

BLASTRAC EBE HORIZONTAL SHOT BLASTER 350 ATEX

The Blastrac EBE 350E ATEX is an electrically driven steel blasting machine with a 13" / 350 mm blast pattern. The 350 ATEX is especially designed to be used in an environment with an explosive atmosphere: on internal tank bottoms, tank roofs, ship decks, steel plates, platforms, oil platform helpdesks, oil platform walkways, smoke tracks, bridge decks, navy ship decks and steel floors.

TECHNICAL DATA

Working width	350mm
Blasting capacity	Up to 38 m ² /h on steel
Blast wheel power	11kW
Drive system / speed	Electric / 1 – 15 m/min
Weight	450 kg
Output motor	3 x 400V / 50Hz or 60Hz
Electrical CEE plug	32 Amp / Three phase – 5 pole
Dimensions L / W / H	1350 mm / 650mm / 1100mm
Push / Pull machine	Push
Abrasive consumption	0,05 – 0,2 kg/m ²
Application	Steel



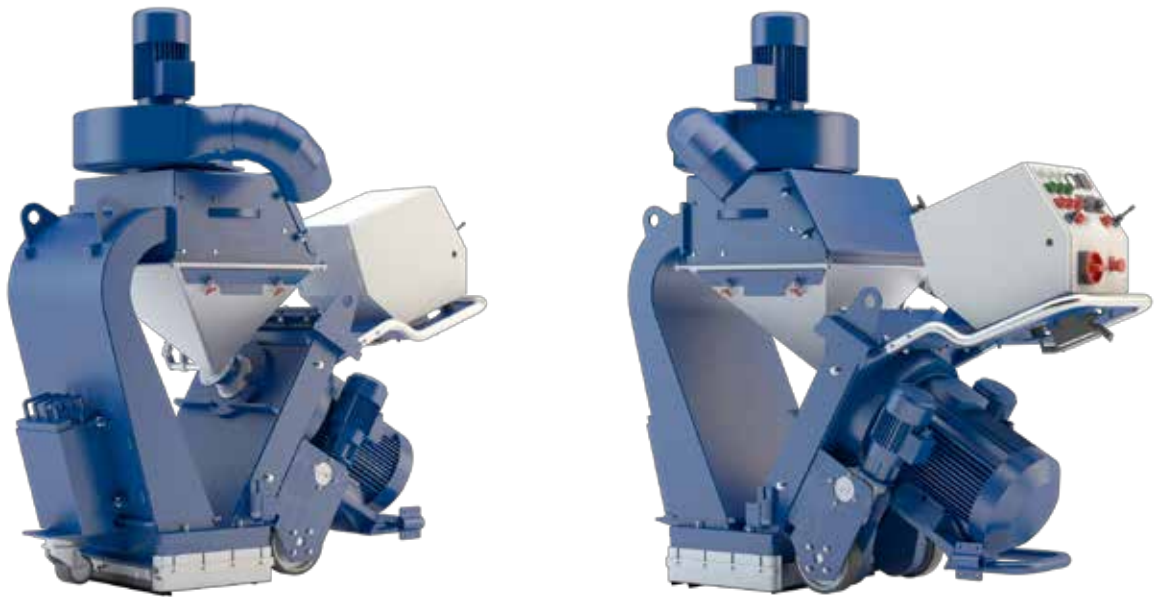
MAIN ASSETS

- Especially designed explosion proof electrical panels (IP66/67) / (EXD II 2G d II B T4) & explosion proof electrical motors.
- Closed circuit which is dust free, when connected to an appropriate Blastrac dust collector.
- Modular construction: allows the machine to be disassembled in only a few parts to pass through a Ø 600mm storage tank access hatch.
- Electrical drive system with special gear which can also be used for tank slope blasting.
- Independent drive for each rear wheel.
- Increased productivity, reduced maintenance costs.
- Fast and efficient removal of coatings, paint, rust and mill scale.
- Special electrical safety device, to be able to use the machine for storage tank blasting.
- Ergonomic design and user friendly control panel.
- Especially designed to be used on internal tank bottoms & tank roofs and can be used as well on: ship decks, steel plates, platforms, oil platform helpdesks, oil platform walkways, smoke tracks, bridge decks, navy ship decks and steel floors.

BLASTRAC EBE HORIZONTAL SHOT BLASTER 500E GLOBAL

The BLASTRAC EBE 500E is an electrically driven steel blasting machine with a 20" / 500 mm blast pattern. The 500E is especially designed for the Petrochemical industry to be used on internal tank bottoms & tank roofs and can be used as well on ship decks, steel plates, platforms, oil platform helicopter decks, oil platform walkways, bridge decks, navy ship decks and steel floors.

TECHNICAL DATA	
Working width	500mm
Blasting capacity	Up to 55 m ² /h on steel
Blast wheel power	18,5kW
Drive system / speed	Electric / 1 – 15 m/min
Weight	750 kg
Output motor	3 x 400V / 60Hz standard (also available in 50Hz)
Electrical CEE plug	63 Amp / Three phase – 5 pole
Dimensions L / W / H	1560 mm / 750mm / 1650mm (possibility to reduce the height to 1170 mm.)
Push / Pull machine	Push
Abrasive consumption	0,2 – 0,5 kg/m ²
Application	Steel



MAIN ASSETS

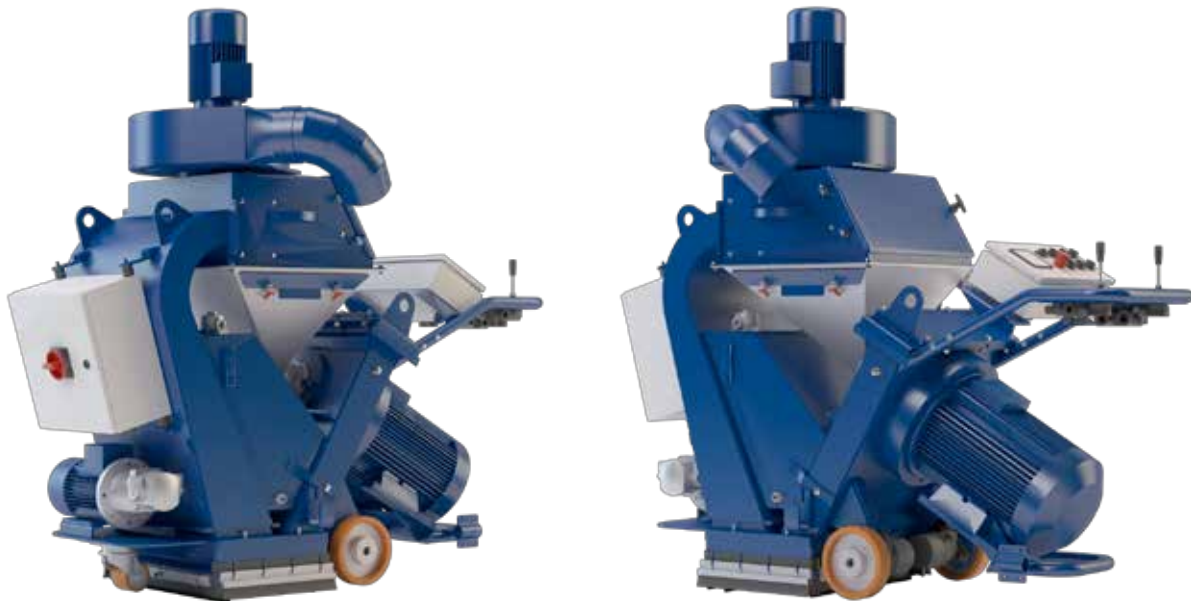
- Closed circuit which is dust free, when connected to an appropriate Blastrac dust collector.
- Modular construction: allows the machine to be disassembled in only a few parts to pass through a Ø 600mm storage tank access hatch.
- Electrical drive system with special gear which can due to this also be used for tank slope blasting.
- Independent drive for each rear wheel.
- Increased productivity, reduced maintenance costs.
- Fast and efficient removal of coatings, paint, rust and mill scale.
- Special electrical safety device, to be able to use the machine for storage tank blasting.
- Ergonomic design and user friendly control panel.
- Low height (580 mm) achievable with special lower adaptor system.

BLASTRAC EBE HORIZONTAL SHOT BLASTER 500S

The BLASTRAC EBE 500S is an hydraulic driven steel blasting machine with a 20" / 500 mm blast pattern. The 500S is especially designed to be used on ship decks, steel plates, platforms, oil platform helicopter landing decks, oil platform walkways, bridge decks, navy ship decks and steel floors.

TECHNICAL DATA

Working width	500mm
Blasting capacity	Up to 60 m ² /h on steel, up to 400 m ² /h on concrete
Blast wheel power	18,5kW
Drive system / speed	Hydraulic / 1 – 30 m/min
Weight	650 kg
Output motor	3 x 400V / 60Hz standard (also available in 50Hz)
Electrical CEE plug	63 Amp / Three phase – 5 pole
Dimensions L / W / H	1750 mm / 750mm / 1650mm
Push / Pull machine	Push
Abrasive consumption	0,2 – 0,5 kg/m ²
Application	Steel preparation to SA3 standard/ concrete



MAIN ASSETS

- Closed circuit which is dust free, when connected to an appropriate Blastrac dust collector.
- Hydraulic drive system.
- Independent drive for each rear wheel.
- Increased productivity, reduced maintenance costs.
- Fast and efficient removal of coatings, paint, rust and mill scale on steel and concrete surfaces.
- Ergonomic design and user friendly control panel.

BLASTRAC EBE HORIZONTAL SHOT BLASTER 600S

The BLASTRAC EBE 600S is an hydraulic driven steel blasting machine with a 24" / 600 mm blast pattern. The 600S is especially designed to be used on aircraft carrier landing decks to remove heavy coatings of non-skid material, ship decks, steel plates, platforms, oil platform helicopter decks, oil platform walkways, bridge decks, navy ship decks and steel floors.

TECHNICAL DATA	
Working width	600mm
Blasting capacity	Up to 125m ² /h on steel
Blast wheel power	35kW
Drive system / speed	Hydraulic / 1 – 30 m/min
Weight	1050 kg
Output motor	3 x 400V / 60Hz
Electrical CEE plug	63 Amp / Three phase – 5 pole
Dimensions L / W / H	1900 mm / 800mm / 1820mm
Push / Pull machine	Push
Abrasive consumption	0,5 – 1,0 kg/m ²
Application	Steel preparation to SA3 standard



MAIN ASSETS

- Closed circuit which is dust free, when connected to an appropriate Blastrac dust collector.
- Hydraulic drive system.
- Independent drive for each rear wheel.
- Increased productivity, reduced maintenance costs.
- The best performer for removal of thick-layers non-skid and epoxy coatings.
- Fast and efficient removal of coatings, paint, rust and mill scale.
- Ergonomic design and user friendly control panel.

BLASTRAC EBE VERTICAL SHOT BLASTER 350VH

The BLASTRAC EBE 350VH is a vertical steel blasting machine with a 13" / 350 mm blast pattern. The 350VH is especially designed to be used on vertical steel surfaces like; oil / storage / water tank shells, ship hulls and many more.

TECHNICAL DATA	
Working width	350mm
Blasting capacity	Up to 40m ² /h on steel SA 2,5
Blast wheel power	11kW
Drive system / speed	Electric / 0,2 – 20 m/min
Weight	600 kg
Output motor	3 x 400V / 50Hz or 60Hz
Electrical CEE plug	32 Amp / Three phase – 5 pole
Dimensions L / W / H	900 mm / 1050mm / 1250mm
Abrasive consumption	0,2 – 0,5 kg/m ²
Application	Vertical steel



MAIN ASSETS

- Closed circuit which is dust free, when connected to an appropriate Blastrac dust collector.
- Hydraulic / Electrical hoisting system.
- Increased productivity, reduced maintenance costs.
- Fast and efficient removal of coatings, paint, rust, mill scale.
- Ergonomic design and user friendly remote control panel.

BLASTRAC EBE VERTICAL SHOT BLASTER 500VH

The BLASTRAC EBE 500VH is an vertical steel blasting machine with a 20" / 500 mm blast pattern. The 500VH is especially designed to be used on vertical steel surfaces like; oil / storage / water tank shells, ship hulls, offshore hulls and many more.

TECHNICAL DATA	
Working width	500mm
Blasting capacity	Up to 70m ² /h on steel SA 2,5
Blast wheel power	18,5kW
Drive system / speed	Hydraulic / Electric / 0,5 – 20 m/min
Weight	1625 kg
Output motor	3 x 400V / 60Hz standard (also available in 50Hz)
Electrical CEE plug	63 Amp / Three phase – 5 pole
Dimensions L / W / H	1000 mm / 1550mm / 2000mm
Abrasive consumption	0.5 – 1.0 kg/m ²
Application	Vertical steel



MAIN ASSETS

- Closed circuit which is dust free, when connected to an appropriate Blastrac dust collector.
- Hydraulic hoisting system.
- Increased productivity, reduced maintenance costs.
- The best vertical performer for thick-layers coating and chlorinated rubber removal.
- Fast and efficient removal of coatings, paint, rust and mill scale.
- Ergonomic design and user friendly remote control panel.

STORAGE TANK – RIGGING SYSTEMS

Using the well known Blastrac EBE-350 Vertical blasting technology in conjunction with a Blastrac rigging system increases the total performance of the machine, without interfering with other trades working disciplines, and also helping to reduce total square meter costs compared with compressed air powered blast cleaning, or high pressure water blasting, both of which create immense pollution to the local environment.

BLASTRAC have developed a number of specific optional rigging systems to increase the performance of their client's vertical steel blasting systems, and thus simplified the operator responsibilities and job scope.

Blastrac vertical steel blasting machine 350VH is designed to work in an up or down direction over the vertical surface shell of a storage tank and or offshore oil platform.

Comparing the use of a rigging system on a Cone or Domed roofed tank, as well as the internal or external surfaces of the shell of a Floating roofed tank, with the alternative to using a mobile crane shows up the many advantages of a rigging system, it allows the operator to control the movements of both the rigging system and the vertical blasting machine from a mobile control station, where the operator has the perfect control for travel speed of the system and an overview to execute and control the job he performs.

Blastrac Rigging Systems are made with high grade components and include all the necessary certification. Assembly time on job site is extremely short, because the whole system consists of 5 major components.

CONE ROOF RIGGING SYSTEM

Travelling speed	0.5 -1,6 m/min
Remote control	From mobile control station
Weight	322kg (without winch system)
Dimensions L x W x H	3095 x 1690 x 2900mm
Reference	RIG-0000-C



DOME ROOF RIGGING SYSTEM (KIT)

Travelling speed	0.5 -1,6 m/min
Remote control	From mobile control station
Weight	125kg (without winch system)
Dimensions L x W x H (complete system)	3095 x 1690 x 2900mm
Reference	RIG-0000-D



INTERNAL FLOATING ROOF RIGGING SYSTEM

Travelling speed	0.5 -1,6 m/min
Remote control	From mobile control station
Weight	220kg (without winch system)
Dimensions L x W x H	1018 x 1900 x 2450mm
Reference	RIG-0000-FI



EXTERNAL FLOATING ROOF RIGGING SYSTEM

Travelling speed	0.5 -1,6 m/min
Remote control	From mobile control station
Weight	411 kg (without winch system)
Dimensions L x W x H	2445 x 1528 x 3904mm
Reference	RIG-0000-F



PORTABLE WINCH SYSTEM

BLASTRAC Winch systems are especially developed to complement only BLASTRAC 350VH and BLASTRAC 500VH Vertical Blasting machines, both are designed to be suspended and work in an up or down direction to clean and profile vertical steel surfaces up to SAE 2.5. (according the standard ISO-8501-1)

Among the advantages of this winch system are:

- The operator controls the system through a remote control panel.
- Controls give at all times precise movement of the blast machine.
- Controls can adapt the required feed speed during the blast process.
- Controls can be used to make adjustments to the machine to produce the desired Blasting pattern SA 2.5

The optional winch:

- Is designed to control the travelling speed up or down movements while blasting.
- Ensures an optimal and continuous blast pattern during the whole job.
- Avoids the continuous use of other lifting devices during the blasting process, and therefore allows the Contractor or their Client to be in control of the jobsite planning.
- Is made of high grade components and including all the necessary certifications.

The use of the Blastrac specific hydraulic winch system avoids the use of other important equipment like cranes, also giving the operator the advantage of being able to control the machine very comfortably from a mobile control station, where he has a perfect overview of the job he performs.



350VH WINCH SYSTEM



500VH WINCH SYSTEM



WINCH SYSTEM 350VH	
Travelling speed	0,1 – 20 m/min
Remote control	Controlled by mobile control panel system
Weight	400kg
Dimensions L x W x H	453 x 1528 x 1067mm
Reference	RIG-4012 MKII



WINCH SYSTEM 500VH	
Travelling speed	0,1 – 20 m/min
Remote control	Controlled by a crane and/or control panel
Weight	1000kg
Dimensions L x W x H	1200 x 1300 x 1600mm
Reference	RIG-0000-H





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