



The FasterBlaster

Centrifugal Shot Blast Cleaning System



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The **FasterBlaster** is the best machine for your application due to its versatility, compact design, and high production rates. With the **FasterBlaster**, you get either a 30HP or a 60HP machine capable of cleaning horizontal and vertical surfaces and pipe of all sizes. Our **FasterBlaster System** incorporates many special features designed to improve cleaning quality, increase production, minimize maintenance, and lower labor costs. **FasterBlaster** machines utilize centrifugal blast wheels, driven by 30HP electric motors, to throw steel shot against the surface. No air is required in the blasting process. The machines seal tightly to the surface due to the high vacuum generated by the **KleanVac** dust collector. There are no emissions around the suction cup seal. The **FasterBlaster16**, our smaller machine, can clean closer around obstructions and the **FasterBlaster32**, the larger high production machine, is used for the wide open areas.

RBW Enterprises manufactures the most versatile centrifugal shot blast cleaning equipment in the world. We specialize in portable shot blast machine systems which can be used both in plant and in the field. We also engineer and manufacture special blast cleaning systems to meet industry needs for surface preparation of pipe, tanks, wind towers, and steel plate applications.

Company Background



RBW Enterprises, Inc. has been manufacturing portable blast cleaning machines since 1998. RBW Enterprises is a family owned and operated business. The company president and designer of the equipment, Robert Watkin, former vice president of Research & Development for the Wheelabrator Corporation, has over 50 years of blast machine design experience. FasterBlasters are cleaning tanks, wind towers, plate, bridges, and pipe in refineries, tank farms, and plants around the world. FasterBlasters are operating in the USA, Canada, Argentina, Aruba, Australia, Brazil, Chile, Columbia, Curacao, Denmark., Ecuador, Guatemala, India, Iraq, Jamaica, Jordan, Mexico, Mongolia, Netherlands, Nigeria, Panama, Peru, Puerto Rico, Saudi Arabia, South Africa, South Korea, Thailand, Trinidad, Turkey, and Venezuela.



The **KleanVac Dust Collector** is the heart of the FasterBlaster system. It supports the main electrical panel and provides high vacuum for the FasterBlaster machine. All the paint and dust removed from the surface is automatically deposited in the 55 gallon drum allowing for easy and environmentally friendly self-contained waste removal. The electrical panel mounts on the KleanVac Dust Collector and provides power for all machine functions via a Hand-Held Wireless Remote Control.



The **FasterBlaster32** provides a 32" blast pattern and is used for the large wide open areas where higher production is needed. It is 57" wide x 51" long x 55" high and weighs 2200 lb. The machine can be disassembled to fit through a 24 inch manway. The system is operated using the Hand-Held Wireless Remote Control.



The **FasterBlaster16** has a 16" wide blast pattern and is used to clean close to obstructions, closer to the ground. It also can be disassembled to fit through a 24" man way with less disassembly. Other uses include cleaning roofs where weight is a concern and cleaning over a knuckle roof. It is 30" wide x 60" long x 60" high and weighs 1200 lb. This machine is also operated using the Hand-Held Wireless Remote Control.



The **Cone Roof Fixture** is used to support the FasterBlaster machine hoist system on flat, cone, dome, and knuckle roof tanks. The fixture is secured to the center stand pipe of the tank with a 3/8" cable and an additional safety cable. The fixture is driven by a variable speed DC drive which is controlled from the Hand-Held Wireless Remote Control.



The **Floating Roof Fixture** is used to blast clean the internal and external walls of a floating roof tank or most tanks that have no roof to support the cone roof fixture. The fixture rides on the wind girder of the tank. A safety cable secures the fixture around the circumference of the tank. This fixture is also driven using the Hand-Held Wireless Remote Control.



Pipe of all sizes, from 0.5 inch through large wind tower sections, can be cleaned with either machine. Special seals for different size pipe are used. A stationary support structure, or a driven support structure, for use with limited room, holds the machine for cleaning.



The hand held remote control is used to operate all components of the cleaning system. It is FCC, ISC, and CE approved. It has a 1200 foot range at 900 MHz, is weatherproof, and runs on four AA batteries.

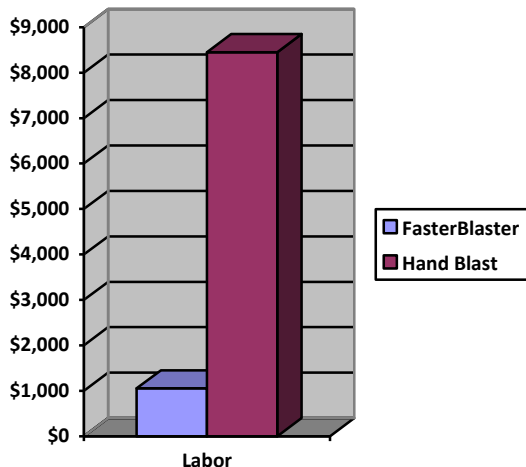
Comparing the FasterBlaster Cleaning System to Traditional Hand Blast Cleaning

This cost comparison was compiled from information submitted by contractors currently using the FasterBlaster Cleaning System. The project criteria used to prepare this analysis were:

- Cleaning Project
 - Ground storage tank 40' high with a 150' diameter
- Cleaning Specifications
 - Commercial finish - 3 mil profile
- Media used
 - FasterBlaster - S330 steel shot with 20% GS25 steel grit - \$0.57/lb - 0.05 lbs/ft²
 - Hand Blast - Black Beauty - \$0.13/lb - 5 lbs/ft²
- Power Requirement
 - FasterBlaster - minimum 100 kW generator (unless plant power is available)
 - Hand Blast - 1600 cfm Air Compressor
- Blasting Production
 - FasterBlaster - 750 ft²/hr - 1.5 men @ \$18/hr
1 Blaster on the walls, 1 Blaster and 1 Helper @ \$12/hr on the roof - 6 days total
 - Hand Blast - 100 ft²/hr - 6 men
4 Blasters @ \$18/hr and 2 Tenders @ \$12/hr - 11 days
- Labor rates shown do not include overhead and are average hourly pay rates that may differ by company, region, union, etc.

This analysis covers approximately 97% of the tank surface. The remaining surfaces (pipes, ladders, hatches, man ways, and other cut ins) will have to be completed with at least one hand nozzle.

LABOR



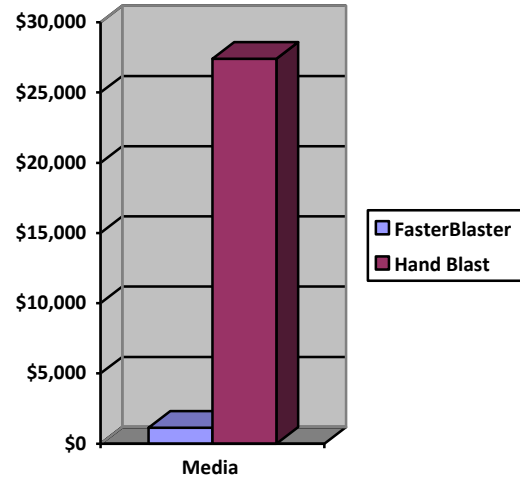
| FasterBlaster (6 days) | |
|----------------------------------|----------------------|
| 1 Blaster (walls) | \$576 |
| 1 Blaster and 1 Helper (roof) | \$480 |
| TOTAL | <u>\$1056</u> |

| Hand Blast (11 days) | |
|----------------------|----------------------|
| 4 Blasters | \$6336 |
| 2 Tenders | \$2112 |
| TOTAL | <u>\$8448</u> |

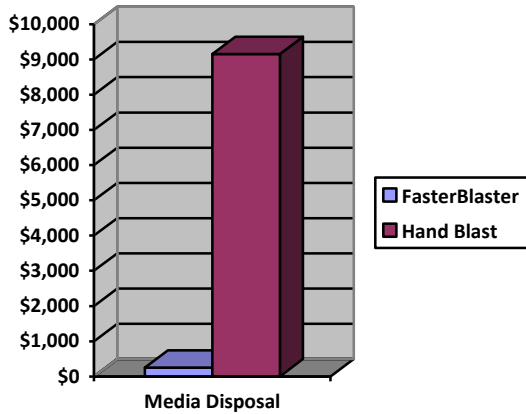
MEDIA

| | |
|---|---------------|
| FasterBlaster | |
| (1) 2000 lb drum of steel shot @ \$0.057 / lb | |
| TOTAL | <u>\$1140</u> |

| | |
|---------------------------------------|-----------------|
| Hand Blast | |
| 180,000 lb Black Beauty @ \$0.13 / lb | \$23,400 |
| Delivery | \$4,000 |
| TOTAL | <u>\$27,400</u> |



MEDIA DISPOSAL



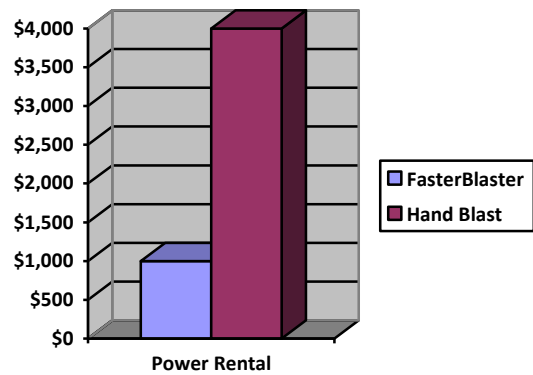
| | |
|----------------------|--------------|
| FasterBlaster | |
| 2 tons @ \$75 / ton | |
| | \$150 |
| Transport | \$100 |
| TOTAL | <u>\$250</u> |

| | |
|----------------------|---------------|
| Hand Blast | |
| 90 tons @ \$75 / ton | |
| | \$6750 |
| Transport/testing | \$2400 |
| TOTAL | <u>\$9150</u> |

POWER RENTAL

| | |
|-----------------------------|---------------|
| FasterBlaster | |
| 100 kW Generator for 1 week | |
| TOTAL | <u>\$1000</u> |

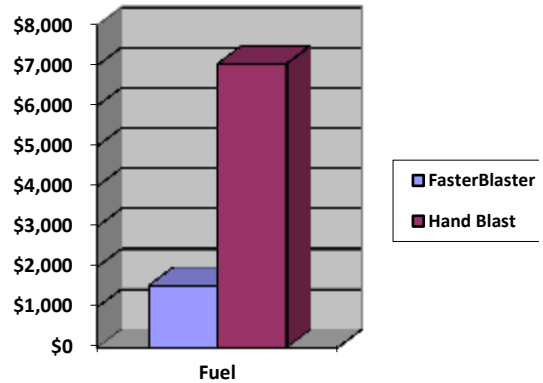
| | |
|---------------------------------|---------------|
| Hand Blast | |
| 1600 cfm Compressor for 2 weeks | |
| TOTAL | <u>\$4000</u> |



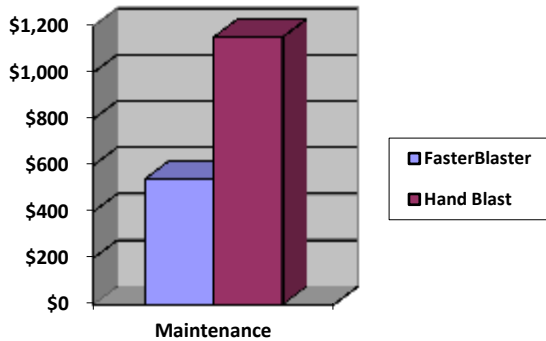
FUEL

| | |
|----------------------|---------------|
| FasterBlaster | |
| 8 gph @ \$4.00 / gal | |
| Fuel for 6 days | |
| TOTAL | <u>\$1536</u> |

| | |
|-----------------------|---------------|
| Hand Blast | |
| 20 gph @ \$4.00 / gal | |
| Fuel for 11 days | |
| TOTAL | <u>\$7040</u> |



EQUIPMENT MAINTENANCE



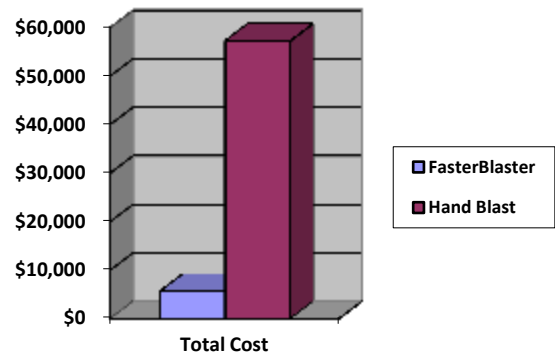
| | |
|---------------------------|--------------|
| FasterBlaster | |
| \$0.015 / ft ² | |
| TOTAL | <u>\$540</u> |

| | |
|---------------------------|---------------|
| Hand Blast | |
| \$0.032 / ft ² | |
| TOTAL | <u>\$1152</u> |

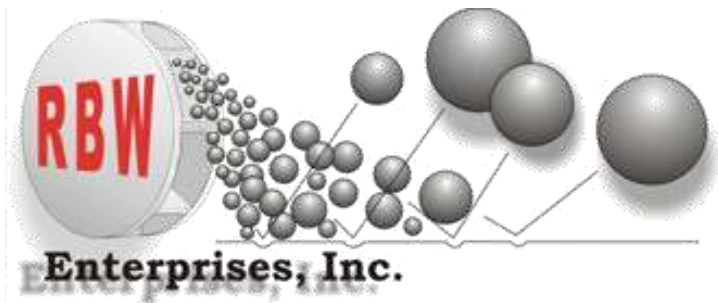
TOTAL COST

| | |
|---------------------------|----------------|
| FasterBlaster | |
| \$0.015 / ft ² | |
| TOTAL | <u>\$5,522</u> |

| | |
|---------------------------|-----------------|
| Hand Blast | |
| \$0.032 / ft ² | |
| TOTAL | <u>\$57,190</u> |



This analysis does not include other cost saving considerations such as containment, time saved by being able to blast and paint simultaneously, or the labor and equipment cost for the clean-up of the hand blasted disposable waste. There is no clean up required with the FasterBlaster operation.



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