



# Certified Coating Specialists Inc.

Professionalism in painting, safety, environmental stewardship – realizable value

## Advanced Blasting, Recovery and Recycling



### BEST USES

- Lead Abatement Projects where 100 % Containment is the objective.
- Interior Tank Linings, Exterior Contained Tanks.
- Bridges where containment is mandatory.
- Interior Penstocks, Power Generation Facilities, Interior Industrial Plant works.
- Ship Holds, Voids, Covered Decks.

### ENVIRONMENTAL IMPACT

1. Significant **reduction** in the amount of blast media required to clean a surface prior to application of the coating system.
2. Significant **reduction** in the volume and cost of transporting new blast media to a project site.
3. Significant **reduction** in the amount of waste for disposal, (a few drums of waste already separated from the steel blast media) as opposed to tons of spent blast media with the coating waste not separated.
4. **Reducing** incoming and out-going material lowers transport requirements; thereby **reducing** the carbon footprint of a project.

**Reduce - Reuse - Recycle**

Certified Coating Specialists Inc. (CCS) is committed to reducing the negative environmental impacts of surface preparation and waste management within the Industrial Painting Industry. To this end, CCS has acquired a **Steel Grit Recycler** to reduce the environmental footprint a coatings company like CCS can have. This unit provides CCS the ability to abrasive blast with steel grit to remove a coating system. More importantly, it affords CCS the ability to recycle/reuse the steel grit over and over, thereby reducing the amount of waste blast media traditionally needed to prepare a surface. The methodology is quite simple but HIGHLY effective: blast the surface with steel grit to remove the coating system, vacuum the removed coating chips and the blast media utilized. The waste material removed from the surface is then automatically separated from the blast media and placed in a sealed drum, ready for disposal. The steel grit is further cleaned and recycled back into the system ready to remove more coating; thereby completing the recycling process. Additionally, any dust generated throughout this process is controlled by two dust collectors with environmental risks being substantially minimized.

**CERTIFIED COATING SPECIALISTS CONTINUES TO BACK UP ITS CLAIM OF COMMITMENT TO ENVIRONMENTAL STEWARDSHIP THROUGH INVESTMENT IN TECHNOLOGY AND TRAINING**

Cost effective delivery of services mitigating risk and ensuring realizable value for our customers.



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## DEPLOYMENT CONSIDERATIONS

**First:** Steel grit blasting must be completed within an atmospherically controlled environment where humidity, rain and water are not allowed contact with the blast media.

**Second:** The back end of the recycling unit must be positioned within 100ft of the entrance to the work area.

**Third:** The weight of the recycling unit requires a firm parking area.

## SPECIFICATIONS

- 45 ft. Heavy Duty Drop Deck Trailer, 1/4" steel deck
- Hibon 840 Blower: 5,500 CFM
- Vacuum: 28" Hg - High Vacuum
- Direct Drive Blower System (No Belts)
- Engine and Blower on Steel Base
- Isolation Mounts between Skid and Trailer
- 18" x 40" Stainless Steel Final Screen (protects blower)
- 42" Cyclone Pre-filter
- Dust Collector #1: 46 bag pulsating system (premium bag type filters, not cartridges)
- Vacuum Power Plant: - Cummins 9.0 L
- Fuel Tank: 235 gallons, Highway certified
- Double Dump Air-Lock System with AR plate liner
- Fully adjustable Timer
- Vacuum-break safety pendent - (80 ft)
- Magnetic Particle Separator
- Vibratory Screener/Feeder
- Air Wash Separators: Six (6) stage
- 6" Bucket Elevators: Two (2) per unit
- Zero speed sensor on bucket elevators
- Dust Collector #2: 26 bag pulsating system (premium bag type filters, not cartridges)
- 1,800 CFM Fan, 7.5 HP - TEFC: Powers Dust Collector #2
- Blast Pots: Qty 4, Code Stamped & Certified Vessels, 175 PSI
- 2 of 4 vessels with dual outlet
- Thompson II Blast Valves
- Dual solenoids on each blast vessel, for Auto Blow down
- Complete Auto blow-Down System
- 4" Main Air Line to Air distribution Manifold
- 2,500 CFM, After cooler, Electric 7.5 HP motor
- Deliquescent Salt Tank: 42" Dia., 1,800 cfm 1,800 lbs salt
- 4" In/ Out Oversized Particulate Filter, with 3 internal elements
- Oversized 8" x 95" Air Distribution Manifold (Certified Pressure Vessel)
- 2.5" Piping from Air Distribution Manifold to Pots
- Sloped Storage Bin: 40+ Barrels of clean grit storage
- Rear Bin Auger System with Hi-Torque gear motor
- Grit Dumping System (accurately places grit over each set of pots)
- Qty 2: 20" man doors for access to rear bin
- Master Electrical Control System
- 2008 Cummins 250 HP Power Plant
- Diesel Generator: 40 kw (Continuous Rating)
- Quiet-Site Insulation Package on Generator

**CCS is proud to be able to offer the deployment of this unit to our customers in furtherance of our commitment to exceed customer expectations in effectively addressing and minimizing the environmental impact that our trade can have on our communities.**

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