

MARS

Modular Abrasive Recycling System



MARS CRS-EL • Blasting, Recovery, and Recycling for Small to Medium Jobs

When the contract calls for removal of lead-based coatings, the Clemco MARS CRS-EL can keep your projects on time and under budget.

This economical, turn-key system includes a 7-cubic-foot blast machine, 16-cubic-foot storage hopper, and pneumatic, pressure-release remote controls for extended blasting time and safe operation. Two powerful vacuum producers use your existing air supply to power the recovery.

The air-wash classifier with 24-cubic-foot expansion chamber processes up to four tons of contaminated steel grit per hour.

Three modern reverse-pulse cartridge dust collectors ensure compliance with emissions requirements during abrasive recovery and classification.



Pallet mounted Blast Machine & Storage Hopper



MARS CRS-EL mounted on truck

All MARS systems represent proven performance in actual blasting conditions. They handle real-world debris, things that can bring lesser machines to a grinding halt. With high conveying and cleaning rates and minimum downtime, the MARS CRS-EL makes hazardous coatings removal projects more manageable.



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MARS MODEL CRS-EL

The MARS CRS-EL blasts, recovers, and cleans steel grit and other reusable abrasive. This portable economical system processes up to four tons of contaminated steel grit per hour.

The system consists of the following:

Vacuum Module: Two 290 CFM VPR Vacuum Producers. These Clemco Vacuum Producers connect within seconds to your existing air supply. Air jet and venturi tube are carefully matched to produce maximum vacuum to convey steel grit over typical distances. Two dual cartridge, reverse pulse type dust collectors provide 300 square feet of filtration area with a 2 to 1 air to cloth ratio. (Vacuum hose not included.)

Classifier: One 24 cubic foot expansion chamber with a screen to trap large debris. A side access door permits easy vacuum removal of the debris. Abrasive, dust and other contaminants pass through 3/4 inch openings in the screen and fall by gravity to an air wash system placed directly underneath the hopper. A valve meters the flow of material. A series of baffle plates spread the abrasive across the width of the classifier. A dedicated dust collector, powered by its own 290 CFM vacuum producer, pulls air through a large opening removing fines and dust from the abrasive. A pull-out screen retains paint chips and heavy particles. Only clean, properly sized media reaches the bottom hopper, from where it is conveyed by vacuum to a 16 cubic foot capacity storage hopper.

Blast Machine: A SC-3054 seven cubic foot capacity blast machine placed underneath the 16 cubic foot capacity storage hopper allows for extended blasting time. Remote controls are TLR-300 pneumatic, pressure release type, which allow for automatic refilling of the blast machine every time the deadman handle is released. The newly designed Sentinel valve precisely meters the media for best air to abrasive mix. This is a versatile, all media, fail-safe valve that instantly stops abrasive flow if the air supply is interrupted for any reason. Media flow can be stopped from the deadman handle for blow-down. A 1-1/2 inch moisture separator completes the package.

Mounting: Trailer, 7 ton GVW, DOT approved, dual axle, single wheels, electric brakes and pintel hook.

Overall Dimensions: 13 ft. long by 8 ft. wide by 10 ft. high.

Compressed Air Requirement: 900 CFM is required for vacuum recovery, classification and blasting systems. Blasting with steel grit demands dry air.

Dry Weight: 6,475 lbs

Complete Package: All interconnecting hoses are included. TLR-300 remote control system with a 50 ft. long air hose extension is supplied. One 3" O.D. media pick-up tool is furnished. A technician will spend one day at the job site training user personnel on the operation and maintenance of the equipment.

Optional Equipment:

- Air Dryer: 430 CFM Rating. Includes an aftercooler with lubricator, regulator and gauge, deliquescent dryer with desiccant.
- Media Pick-up Vacuum Hose
- CCB attachment for vacuum blasting

Clemco equipment is backed by more than forty years of experience in the abrasive blasting industry and better than 25 years building steel grit recycling equipment.

Clemco Industries Corp. One Cable Car Drive, Washington, MO 63090 • (314)239-0300 • (314)239-0788

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