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## Guyson Corporation

### Return-to-Operator Blast System

**Saratoga Springs, NY.** Guyson Corporation has introduced its updated Model TRR900 reciprocating conveyor blast system. The machine is designed to meet the special requirements of lean, one-piece-flow manufacturing operations.

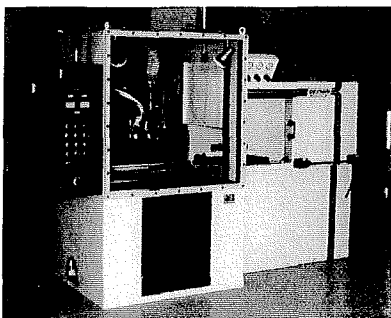
Available with several conveyor configurations, the Model TRR-900 features a built-in transfer cart on which components are fixtured for presentation to the blast from multiple guns. When the blast cycle is initiated, the cart translates from the load/unload station into an exact location inside the blast chamber, then returns to the operator's position after blast treatment is complete. A vertical sliding door actuated by a pneumatic cylinder seals the work enclosure during blasting to isolate dust or noise that may be produced in the process. A full-width door provides convenient access to the blast chamber for inspection, adjustments and maintenance.

In the blasting enclosure, up to twelve suction-blast guns or four direct pressure blast nozzles on multi-adjustable brackets may be rigidly positioned at the optimum angles and distances above, below and to the sides of the component. Programmable nozzle motion can be provided as simple back-and-forth cam oscillation, a precision ball screw-ball nut traverse mechanism for linear nozzle movement, a gantry-type multiple-axis motion system, or an articulated robotic nozzle manipulator.

Guyson's TRR-900 can be operated with a full range of shot or grit media, making it suitable for a variety of automated impact treatment applications, such as deburring, deflashing, surface preparation, coating removal or cosmetic finishing. The blast cabinet installation is completed by the addition of a high performance cyclone reclaiming system that separates contaminants and fines from the recirculated media, as well as an efficient cartridge-type dust collector that filters exhaust air to prevent discharge of particles into the plant environment.

Overall dimensions of the Model TRR-900 blast cabinet with a standard conveyor configuration are 78"H x 104"W x 42"D (2 m x 2.6 m x 1.1 m). Larger and smaller models based on the same design concept are available from the manufacturer of cleaning and surface treatment equipment.

Prospective users of the Model TRR900 are encouraged to submit sample components for free laboratory testing and a feasibility study. The machine builder offers to demonstrate the results of blasting with alternative media and to capture critical process data to guide its recommendations.



For more data, please contact: J.C. Carson at (518)587-7894, ext. 226 or [jccarson@guyson.com](mailto:jccarson@guyson.com).