

GUYSON

CORPORATION OF USA

EXPERIENCE IN THE AUTOMOTIVE INDUSTRY



Guyson has served the automotive manufacturing community since its first years in business, and that was more than 75 years ago.

COMMON PROBLEMS

The machine is not integrated into our production line, it slows the process down.

The machine just doesn't produce enough.

Production has slowed as the machine gets older.

The maintenance costs have made this machine far more expensive than expected.

The dust from the cabinet could be a hazard to the shop and staff.

The results are inconsistent from day to day, even from one part to another.

GUYSON'S SOLUTIONS

Guyson builds custom solutions that integrate easily into existing floorplans.

Guyson builds highly productive machines that can be specific to one part but flexible enough for multiple parts. With built in efficiencies and add ons like multiple product heads per spindle, and efficient guns that get more work done in less time.

Guyson's reclaim systems are effective in keeping the media at blasting capacity. This is one of the most effective systems provided in the blasting industry.

Outside of basic maintenance like keeping gun nozzles, hoses and media at peak productivity, Guyson gives long life added protection with custom 3d printed masks, gum rubber, and neoprene protective sheets to guard the life of the cabinet and long lasting manganese protective plates in our wheel blast machines. Our targeted blasting guns keep the blast media on your product and off the cabinet extending machine life even more.

Keeping a consistent negative cabinet pressure measured by magnehelic gage keeps dust in the cabinet and off the shop floor.

Guyson's high performance cyclone reclaimers are the most efficient available. They are lined with high durometer urethane providing maximum abrasive resistance. The longer cone design creates a high velocity separation of fines and fractured media from reusable material. Fine-tuning vents on the cyclone that enable adjustments for maximum separation efficiency, as well as tuning vortex for media grit size adjustments.



- SHOT PEENING OF METAL COMPONENTS
- DEBURRING OF PRECISION MACHINED COMPONENTS
- SURFACE PREPARATION FOR TECHNICAL AND DECORATIVE COATINGS
- NON-DESTRUCTIVE BLAST CLEANING AND DESCALING
- COSMETIC SURFACE FINISHING

- Axle parts
- Chassis structural bodywork
- Brake drum, disc and callipers
- Clutch springs, plates and housing
- Engine block and head castings, crankcase, cylinder head, exhaust manifold, cylinder liners, and other various parts

- Peening transmission components and drive shaft
- Suspension coil springs and wheel suspensions
- Rear axle shaft wheel and other axle components
- Wheels

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guyson.com



"Experience is the best teacher and you have to be in the trenches and see for yourself what a machine can do. It's very rewarding to come up with a solution to make one perform better. Although the bar gets higher every time, there's no doubt Guyson can make it happen."

- Steve Byrnes, President of Guyson Corporation



MACHINES FOR THE AUTOMOTIVE INDUSTRY



MODEL RXS-400 ROTARY INDEXING BLAST SYSTEM

- Precise and efficient automated impact treatment for work cell manufacturers
- Blast cabinet footprint of 34" W x 36" D makes highly productive use of work space
- Ease of operation
- Light curtain option
- High volume, precise, repeatable, efficient work cell
- Load and unload while blasting



ROBOTIC AUTO KOMET WET BLAST SYSTEM

- Automotive, high volume, single part flow
- Blast, rinse, and blow off
- Precise, repeatable selective blasting
- Machine footprint of 55" x 62" with parts fixtured around perimeter of 42" dia. indexing table
- Precision cam indexer can interface with pick-and-place loading devices
- Advanced abrasion protection, many sensor, fault indicator, self-maintenance options



MODELS RB-8 THROUGH RB-12 GRIT-BLAST SYSTEMS

We constructed a complex machine using a 7-axis of robotic motion, as the 6-axis nozzle manipulator follows the contours of complex-shaped components, constantly maintaining the specified blast angle, nozzle offset and surface speed. The optional crane slot in the roof of the blast chamber facilitates loading heavy parts by overhead crane. 100% part coverage with regrip. Very precise, repeatable, flexible part accommodation.



MODEL RSSA-6 ROTARY BLAST SYSTEM

- Compact footprint
- Sealed, shielded component spindle, drive parts isolated from abrasion
- Precise, repeatable horizontal and/or vertical gun traverse via external - mount ball screw/ball nut mechanism
- Rotating single spindle, precise, repeatable, compact and consistent blast



MODEL 700-B1 OPPOSING BELT CONVEYOR SYSTEM

- Continuous, in-line, selective blast treatment by up to 16 pre-positioned nozzles
- Components are grasped and conveyed through blast and airwash by twin opposed urethane V-belts. Belt speed adjustable from 0 to 20 feet per minute
- Standard machine footprint is 96" x 36". Belt spacing adjustable to accommodate components up to 4 inches in width
- High speed processing of small mass-produced electrical, electronic and other components



MODEL TR-900 RECIPROCATING CONVEYOR SYSTEM

- TR-900 systems can be configured with a robotic component manipulator or a robotic blast gun manipulator
- Side entry return conveyor batch treatment by up to 12 pre-positioned nozzles
- Automatic airwash
- Standard machine footprint is 121" x 52". Fixtures or frame up to 16" x 12" can be processed. Conveyor speed and indexing adjustable
- Optional vertical and/or horizontal linear traversing, oscillation or multi-axis manipulation of blast nozzles conserves compressed air
- Advanced abrasion protection, many sensor, fault indicator and self-maintenance options
- Pressure-blast or suction-blast media delivery by a single blast nozzle saves energy compared to multiple hand blasting operations



Guyson's reclaim systems are the best in the market.

For over 70 years we have built machines that create the most consistent finish, for the longest time, with the lowest cost per piece.

Whether you need a small manual or a custom built machine with high production specific needs, GUYSON HAS IT ALL.

