

Indexing Turntable Systems

- Expedite Cleaning and Peening
- Improve Product Quality
- Facilitate Automation



Pneumatically Powered Vertical Doors contain sound emissions, dust, and debris within the enclosure.

Variable Speed Rotating Satellite Stations assure even coverage for different-sized parts.

Standard TouchScreen HMI enables operators to change blast cycle parameters on systems with nozzle oscillation.

Part Recipe Storage through HMI is optional.

Vertical and/or Horizontal Nozzle Oscillation as well as **Twelve-Station Systems**, capable of doubling production, are popular options.



Large Access Doors simplify gun/nozzle setup and maintenance inside the cabinet. **Door Interlocks** prevent blasting with any door open.

Standard Equipment			
Model	TT-20	TT-36	TT-48
Number of stations	6	6	6
Capacity per station	20 lbs	20 lbs	20 lbs
Turntable diameter	20"	30"	48"
Maximum part size (diameter and height)	6" x 10"	12" x 20"	20" x 20"
Multiple Nozzles/Guns Available			
Model	TT-20	TT-36	TT-48
Suction guns	Up to 8	Up to 12	Up to 24
Pressure nozzles	Up to 6	Up to 8	Up to 8

Empire's Indexing Turntable Machines perform a wide range of high-production cleaning and peening jobs at attractive costs in terms of ROI.

What makes these turntables so popular, beyond boosting profits, lies in their versatility. Empire produces three standard models equipped with six work stations and your choice of pressure, continuous pressure or suction air-blast systems. In addition to the items highlighted above, these standard machines include an exit

vestibule, equipped with a blow-off manifold, and an inlet vestibule — features that separate the operator from the blast environment while increasing production by cleaning residual debris and dust from parts during the blast cycle.

All standard models are available with your choice of vacuum or mechanical media-reclamation systems suitable for recovering ferrous and non-ferrous abrasives.

To meet complicated production challenges, these machines can be equipped with a variety of nozzle/gun assemblies ranging from infinitely adjustable holders to horizontal and/or vertical oscillators interfaced with programmable controls. They are also available with small footprints and a variety of other options to meet your production needs.

For additional information about our Indexing Turntable Machines, go to the next page, contact Empire or your local Empire distributor, and visit our web site at www.empire-airblast.com

Features and Options

We can tailor our Indexing Turntables to meet a broad range of specialized needs with a minimum of custom engineering.

- A variety of nozzle/gun configurations ranging from infinitely adjustable holders to optional horizontal and/or vertical oscillators interfaced with programmable controls provide enormous flexibility.
- Adjustable part-rotation and nozzle-oscillation speeds enhance process control.
- Optional 12 station systems double production by processing two parts simultaneously. Ideal for applications where holding/fixturing masks target areas on work surfaces — tops and bottoms, fronts and backs, can be flipped and blasted in tandem.
- Pneumatic, vertically sliding doors speed up loading, contain blast debris and mitigate sound emissions.
- A pull-down shade protects the viewing window in the maintenance-access door.
- Quarter-inch-thick neoprene lining protects the interior of the **1/4" thick steel** cabinet, prolonging the life of the metal surfaces.
- An optional automatic media-replenishing system boosts productivity by minimizing downtime for refills and returning clean media to the system for more consistent air-blast results.
- Replaceable media-return duct features urethane to prolong tube life and reduce maintenance costs.
- Optional infrared light curtain increases both safety and productivity by freeing operators to perform other tasks.
- Machines can be designed for pick-and-place or robotic loading and unloading of work pieces with the addition of a precision turntable and infrared curtain.
- Custom fixtures and masking are available to meet special application requirements.



Indexing Turntable Machine coordinates 16 blast guns, oscillating vertically and horizontally, with rotating work stations to assure thorough cleaning in a single pass.



Shot-Peening Turntable includes a vibratory classifier plus closed-loop control and monitoring of shot flow, blast pressure, rotation speeds and nozzle oscillation rates.

**NEVER USE SILICA SAND IN ANY
EMPIRE EQUIPMENT**

Information subject to change without notice.

BEST WARRANTY IN THE INDUSTRY

Empire Air-Blast Products

- Robotic, turntable and in-line automation
- A complete range of cabinets
- Blast rooms and blast booths
- Portable blasters
- A full line of parts and accessories



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