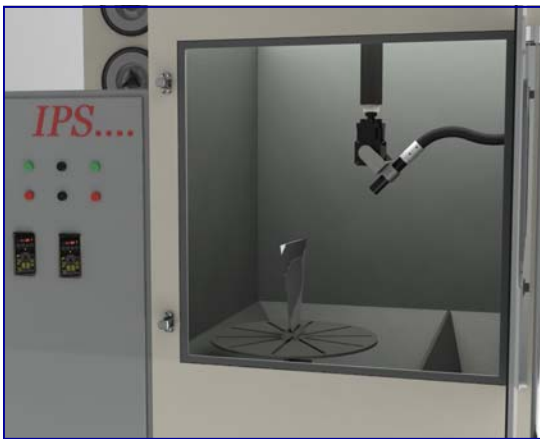


S Series: Rotary Table Four Axis CNC Shot Peening Machine

This CNC shot peen machine offers part recipe control at an affordable price. The nozzle manipulator is three axis CNC; X (horizontal), Z (vertical) and A (nozzle Tilt) and a fourth axis C (rotary spindle) has indexing or revolving capabilities. The Motion control system of the machine will consist of a Fanuc CNC controller in G code format with integrated PLC. This combination allows the high level of numerically controlled precision with the ease of basic PLC programming and Trouble shooting. All machine level controls are handled through the PLC side of the control with simple to understand and troubleshoot Ladder diagram programming. High level programming on the drive side of the controller allows the system to take simple point to point instructions and create complex and smooth motion paths that are monitored by means of a virtual tool path that continually monitors the current position of each axis and compare it to the expected position of each axis. This constant monitoring allows the machine to shut down immediately if the motion path is not being maintained. At the same time the motion is being monitored all other process parameters such as airflow, air pressure, recovery system and machine interlocks are constantly being monitored. If any of the process parameters fall outside of the acceptable limits the machine will automatically interrupt the peening process and alert the machine operator that a fault condition has occurred with all error information displayed. This machine comes with multiple size rotary tables and spindles. The table has

an option to hold rotary spindles on its perimeter and index to place each spindle in the peening/blasting zone. Thus enables an operator to load many parts on the table, close the door, choose a part recipe and walk away. The operator would then unload and reload the machine. The robotic nozzle and part recipe allows for exact peening without constantly moving the nozzles out of place when changing parts. This technique saves valuable production time and consistent quality of parts.



Standard Features:

- ◆ CNC Nozzle Manipulator
- ◆ Shot Recovery System
- ◆ Screen Classifier
- ◆ Rigid Urethane Duct
- ◆ Slide table for easy loading
- ◆ 3/8" steel plate enclosure
- ◆ Rubber lined Enclosure
- ◆ Fanuc CNC controller G code format
- ◆ Easy Point and Teach Programming

Options:

- ◆ Continuous Pressure Vessel
- ◆ Digital shot flow controls
- ◆ CIMCAP Process Monitoring Software
- ◆ Multiple Nozzle

IPS....

Innovative Peening Systems

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