

Special Automation Spotlight # 3539



MARKETING DATA

INDUSTRY:

Stainless steel tube manufacturing.

APPLICATION:

De-scaling the ID of various sized tubes of varying lengths. From 1/8" ID to 2" ID and from 8 feet to 40 feet long.

EQUIPMENT SOLUTION:

ZERO worked closely with the customer developing a system which included two pressure blast machines; a 1/2 cu ft machine to clean 5 small ID tubes at a time, and a 6 cu ft machine with a 60-degree bottom for high production cleaning. The rest of the solution involved workpiece handling using a special 40 foot long track with nylon guide rollers which can accommodate tubes ranging from 8 feet to 40 feet in length and media recovery and reclaim which incorporates a 4 foot by 4 foot by five and one-half foot sealed cabinet, a 900 cfm reclaimer and a 900 cfm reverse-pulse dust collector.

PART HANDLING:

The operator loads bundles of tubes onto one of two tube staging racks, (depending on the tube length). Five tubes at a time are placed on a 40 foot long track equipped with nylon guide rollers.

ADVANTAGES & SELLING FEATURES:

The customer was able to achieve uniform cleaning, media reclaiming and reuse with an increased production rate.

SPECIAL OPTIONS:

Sealed blast cabinet into which scale and spent media exit from the tubes being cleaned.
Special pre-blast cleaning staging racks.
Programmable blast nozzle carriage with attached control panel.

SPECIFICATIONS

CABINET SIZE:

4 foot by 4 foot by 5.5 foot closed cabinet into which the ends of the tubes are inserted

MEDIA:

Aluminum oxide

BLAST GUNS/NOZZLES:

Special adaptors allow efficient programmable cleaning of varying tube IDs.

RECLAIMER:

900 cfm (rubber lined)

DUST COLLECTOR:

RPH-2L, 900 cfm