

Production solutions you can depend on.

Production Equipment Case Study

Project: Disk Clean Lines Industry: Computer Hard Disk

The Hard Disk Media cleanline is a state of the art automated processing line for cleaning hard drive media. Used after the polishing stage, the Hard Disk Media cleanline accepts 2 cassettes of up to 50 disk. The disk are moved between multiple processing steps through a unique cassetteless transfer system. Processing steps include: input buffer, scrubber and various chemical cleaning tanks. The processing order can be easily reconfigured due to the standard module interface to the disk transfer system.







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The design of the Hard Disk Media cleanline required meeting stringent throughput goals while maintaining high reliability and low contamination. The cassetteless disk transfer system moves 50 disks between processing modules at one time. This improves throughput while also dramatically reducing the contamination introduced by the cassette. Contamination is also reduced through the use of ultra pure fluid delivery components and by keeping sources of contamination below the disk plane.

Process Modules: Input Buffer

Scrubber

Quick Dump Rinse Tank

Ultrasonic Tank

Dryer

Cassette Lidder

Disk Transfer: Cassette in,

Cassetteless thereafter 50 disk / batch transfer

Class 100 output 600 disk / hour WonderWare

PC/Touchscreen

System controller: PLC

Cleanliness:

Throughput:

User Interface:

Materials: 304 & 316 Stainless Steel, Polypro, Aluminum Fluid Delivery: Polypro, PVDF and Teflon wetted valving

Footprint: 94 sq. ft.

Ultrasonic





Double Scrubber

Touchscreen



Quick Dump Rinse

