



RESEC SYSTEMS, INCORPORATED

www.resecsystems.com

Model J189 Automatic Sorter for Small Parts



- Part Size Range .062" - 1.750"
- Sorts up to 15,000 parts/hour
- Accurate to $\pm .0001$ "
- Non Contact Technology

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Operation

The Model J189 Sorter utilizes a rotating glass platen and a slightly smaller diameter central disc to form a “V-Groove” when tilted at a 45° angle (Fig 1).

Small parts, such as pins and tubes can be readily dropped into this rotating groove from a vibratory feeder or similar device.

The glass platen provides an unobstructed view of the part's profile.

Precision optics and a high speed strobe are used to obtain a gage quality, blur free image of the moving parts.

The part's dimensions are extracted from the image in a fraction of a second (Fig 2). If all dimensions are within tolerance, the part is ejected to the PASS bin. Note the tiny rectangular opening on Fig 1. This is actually a controlled air jet, which ejects the acceptable parts from the platen. The rejects simply stay on the mechanism and are dropped into the REJECT bin (not shown).

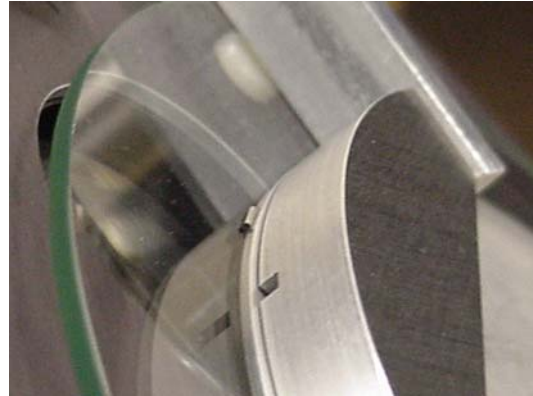


Fig 1.

Tube in V-Groove formed by glass platen and smaller diameter disc.



Fig 2.

Image of the tube shown above, along with length measurement.

Specifications

Footprint:	9" x 18"
Monitor:	12"
Platen:	8" Dia.
Field of View:	0.250" – 1.750"
Platen Speed:	2" per sec.

Utility Requirements

Electrical:	120VAC
Comp. Air:	40PSI