

# Difficult Part Orientation Using Programmable Tooling

Active Tooling- All part feeders use speed and part/ package or material geometry to affect orientation generally using fixed or adjustable tooling. Speed, fragile surfaces or speed limitations often make active tooling a better option. Active tooling is the combination of a variety of sensors and or vision system and hard or flexible automation to affect part orientation.

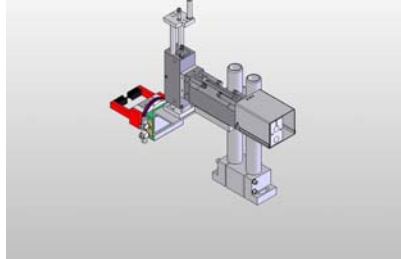
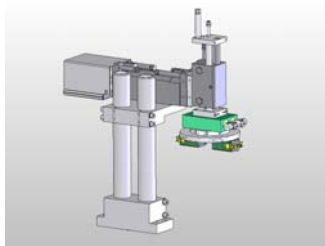
## FEATURES:

- Sort by any programmable variable
- Orient w/ No Part Recirculation
- Orient difficult part geometries.
- Radial Orientation
- Precision Nesting of Part
- Standard and Vision Based Sensors
- May be combined with Machine Tending Functions

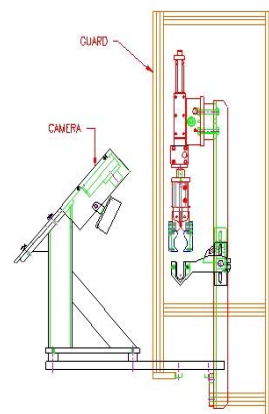
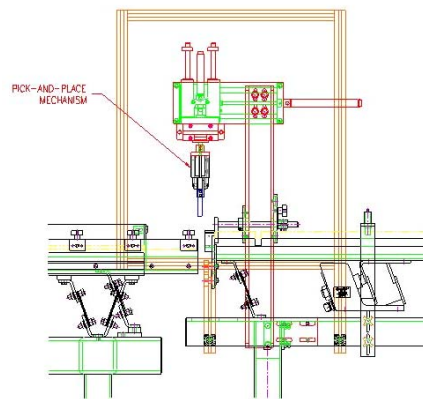
## BENEFITS:

- Higher Speed without part damage associated part feed
- Programmable for rapid part sku changes.
- Single Flexible Feed System flexibility to maximize cell performance.

System can be designed to incorporate any make Centrifugal Bowl, Dyna-Slide or Dyna-Belt Feeder.



**The next generation in part feeding solutions**



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# Programmable Tooling

## SPECIFICATIONS:

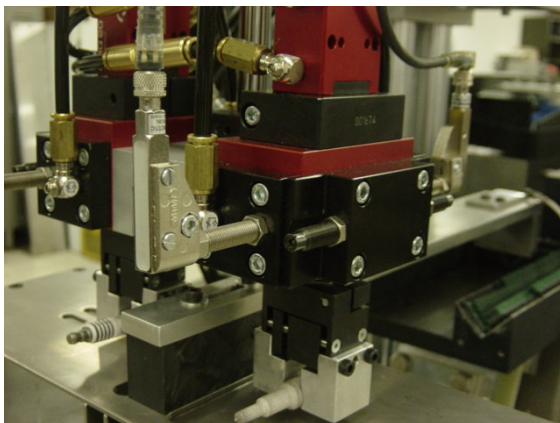
*Subject to the application requirements and working environment.*



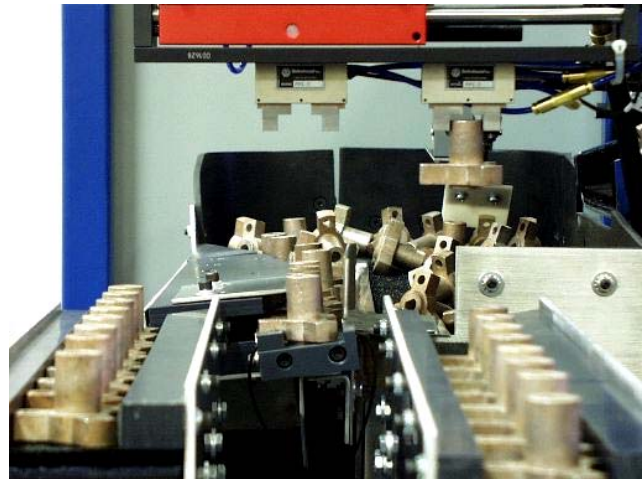
Vision Guided Orientation to orient parts that lack either features or geometry which will allow the use of passive tooling.



Sensor array to actively seek part features and actively sort off parts with incorrect orientation.



Orientation of Ceramic Spark Plug bodies @ 60 ppm using dual head rotary actuation.



High Speed Radial Orientation (Fragile ceramic part)

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