

APPLICATION DATA

No. 805 - Auto Feed & Load Machine



Auto Feed & Load Machine Specifications

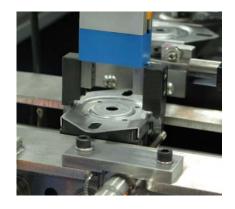
- Assembly: Three piece case, disc, and baseplate subassembly.
- **Feeder:** 42" dia. vibratory bowl with 3 cu. ft. front hopper/elevator. Hopper holds one hour of production.
- **Production Rate:** 1,400 parts per hour feed rate.
- **Dimensions**: 64" W x 87"L x 56"H
- **Utilities:** Electrical, 110/1/60, Control voltage 24VDC, Compressed Air ¼ NPT, 70 psi.
- Control: Allen Bradley PLC.
- Safety Features: Plexiglas guarding of all machine functions. Vibratory bowl enclosure limits sound level to less than 80 db.

Sequence:

- Cases (with discs) are brought to the machine on an existing conveyor and staged to accept the baseplate.
- 2. Perpendicular to the conveyor, baseplates are vibratory bowl fed and oriented at the end of a track.
- 3. Machine confirms that disc is present and located properly in the case subassembly.
- 4. Multi- axis, pick-and place unit transfers the baseplate from the track and places it on the case subassembly.
- 5. Part height is measured with contact probe to confirm baseplate is installed and disc below is seated properly. Any part outside of +/-0.010" height tolerance is rejected.
- 6. Finished assembly is rotated 90° and escaped onto an exit conveyor.
- Exit conveyor accumulates 10 assembled pieces with a track full sensor that releases pieces to an op checker.



Pick-and-Place unit transfers baseplate onto the case.



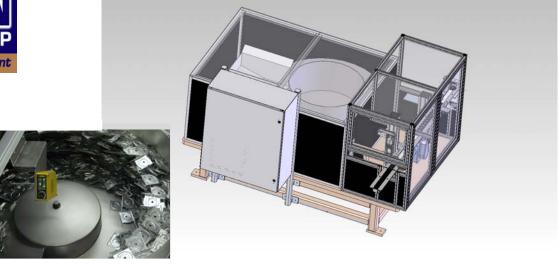


Contact probe verifies height of case subassembly.

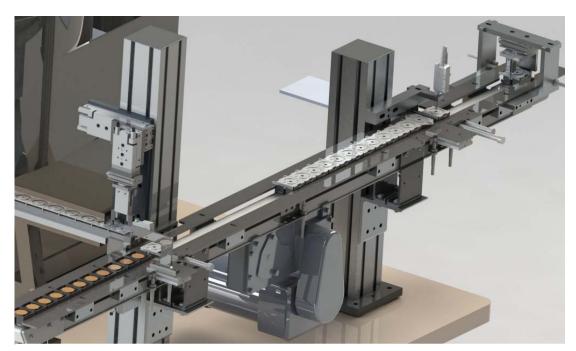


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Vibratory Bowl Feeder



Pick-and-Place with Conveyor

Auto Feed & Load Machine Special Features

- Machine feeds two baseplate styles without tooling changes.
- 42" dia. vibratory bowl and hopper holds one hour (1,400) of parts.
- Vibratory bowl has quick dump gate to facilitate changeover between two part styles.
- Pick-and place tooling is spring loaded to prevent part damage.

