

DEPRAG Light Bulb Assembly Station

Light Bulb Feed Criteria

The challenge presented in feeding this bulb is that the center of gravity is virtually in the middle of the bulb. The bulb's square base has a mogul mount. To allow correct feeding of the bulbs, two separate positions must be achieved in the feeder:

Position 1: bulb base down; glass up (for contact testing)

Position 2: glass down, bulb base up (for assembly)



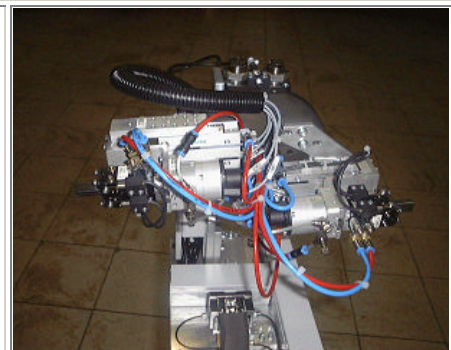
Picture: Bulb [top, bottom and side view]



Picture: Bulb Test Station

Cycle Description

- Sorting and alignment of the light bulbs in the vibratory bowl;
- Position bulbs in linear-conveyor 1 (backup route to separator);
- Position bulbs in one 3-position separator;
- Contact testing of each bulb (12VDC current flow testing);
- Reject "bad" bulbs;
- Position bulbs in linear-conveyor 2 (backup route to pick-nest);
- Pickup, position and assemble the light bulbs with a **DCAM = DEPRAG Compact Assembly Module**
- Maximum cycle-time is 8 seconds for 3 light bulbs per circuit board;



Picture: Bulb Pickup Station

Additional Technical Data:

- Vibratory Bowl (2.5 liter fill volume)
- Linear-conveyor 1: backup route to separator
- Custom separator with three positions
- Contact test-station to verify functionality of each light bulb
- Linear-conveyor 2: backup route to pick-nest
- 180° double assembly modules (2 grippers, 2 positioning strokes, 2 turn cylinders, 180° swing module)
- Belt-driven Hopper B10
- ASI valve-island from FESTO

SOMETHING NEW!

WANT TO WATCH A VIDEO CLIP OF THIS ASSEMBLY SOLUTION?
CLICK MOVIE ICON BELOW

