



Dispense, Assemble & Inspect

An instrument required assembly by dispensing RTV into a channel and automatically placing the cover (to a pre-set force).

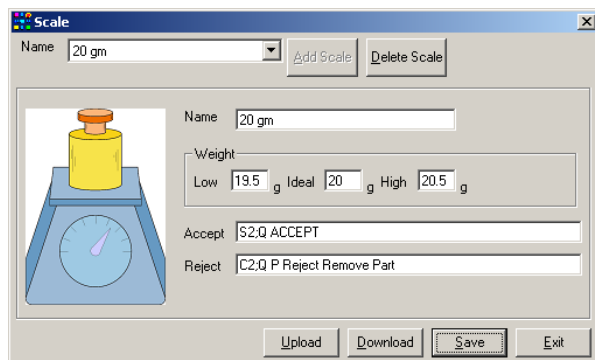
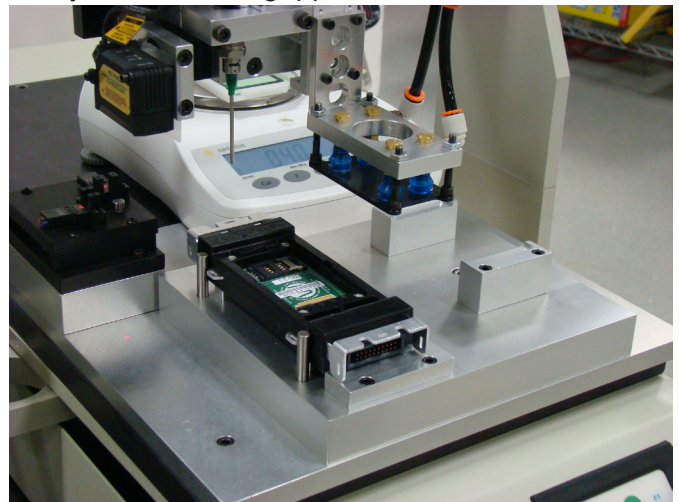
The application required an operator to load the body and the cover onto a fixture and allow the machine to perform the tasks automatically.

A laser sensor verified the presence and position of the components prior to the dispensing cycle. A scale verified the shot size volume by weight.

The RP1215 robot was tooled with the following:

- Laser Displacement measurement sensor
- Pick & place vacuum head
- RTV high pressure spool valve
- 5 Gallon pail pump
- Integrated digital scale (RS-232)
- X Y Z tip touch-off calibration gage
- Fixture for Body and Cover

Below: Picking & placing Cover from fixture to Body with vacuum gripper.



Scale Files

An integrated scale is used to periodically monitor shot size due to variations in material viscosity that can affect the output over time and from batch to batch, even during actual production runs. This may be set by cycle count or time period or both.

Several Scale files may exist in the machine.

