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DEPRAG Feeding- and Pad-Printing Station for plastic components used in the Medical Industry



Total Machine View

Required Process:

Feed plastic components and imprint those components with 19 different texts and colors.
Cycle time is 2 seconds

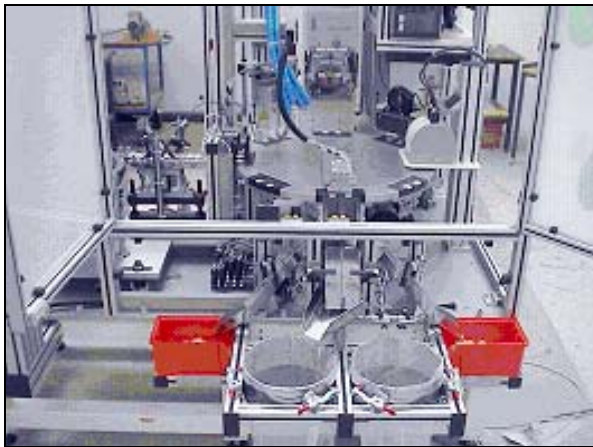
Solution:

One DEPRAG Feed- and Pad-Printing Station, which contains the following components:

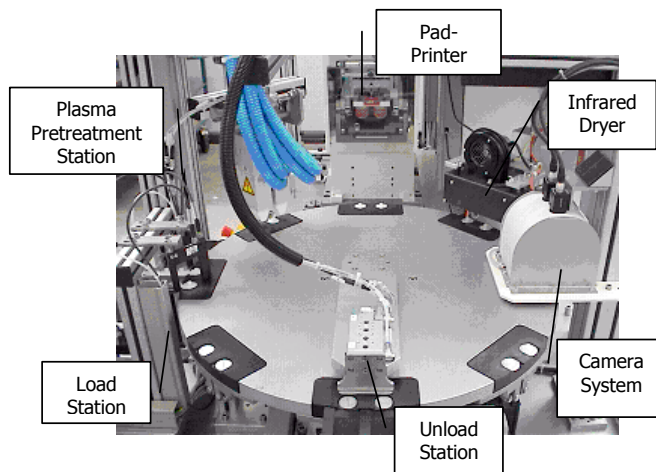
- One 8-position rotary table with eight part fixtures
- One **DEPRAG Feed-System with refill hopper**
- One Plasma Flash – Pretreatment Station
- One Pad-Printing System
- One Dryer with infrared light
- One camera system
- One unloading station with ramps to packaging container or reject container.

Cycle Description:

The feed-system loads each part fixture with two (2) plastic components. The rotary table indexes the part fixtures to the Plasma pretreatment station. There, the plastic surface is pretreated (surface flaming to increase components surface energy for improved ink adhesion) by the use of a Plasma flash. Thereafter, the components are indexed underneath the pad-printer and imprinted.



Packaging & Reject Containers



On the next station, the imprinted components are dried using an infrared drying system. The camera system checks if the imprint is O.K. or NOT O.K. The unload-station automatically pushes the O.K. parts down a ramp into packaging containers and the NOT O.K. parts into a reject container.