

# AMTEC

## Applied Manufacturing Technologies, Inc.

### Turn Key Automation Systems with specifications



#### Automated Assembly Machine for Medical Devices

- Turn Key automation system with two rotary indexers, one for printing on container and other for welding lid to container.
- A transfer system will transport printed container to welding Dial plate nest for final assembly.
- Automatic Pad Cleaning Device integrated to the pad printer.
- X-Y-Z-R axes; Part Transfer System with Pick & Place device to transport container from Pad Print dial plate nest rotate the part 90° and then load on Ultrasonic welding dial plate nest.
- Automatic parts feeding system.
- Auto Un-loader to unload finish parts.
- Exit Conveyor to transfer finished (good) parts.

- Part Present sensor to activate print cycle only if the part is present.
- XY table for accurate color registration.
- Operator safety guarding all around the machine with interlock switches and doors for easy access to the machine.
- Automatic Pad Cleaner.
- Maximum 800 parts per hour in continuous cycle mode. Actual output will depend upon operator load and unload speed.
- System integration, Programming, Testing and Debugging.



#### 8 Color Pad Printing System



- Excellent beam quality and symmetrical beam shape
- Full RS-232 serial interface to provide computer control for all laser functions.
- The Q-Mark Scan Head is supplied with a scan head driver, designed for mounting in a PC expansion slot, 28 volt DC power supplies and Q-Mark marking software.
- Marking speeds of up to 5000 mm/sec.
- Included with our Q-Mark System is our Q-marking software, which is an extremely user-friendly Software package that runs on Windows platform.
- 5-Axes Robot with End-of Arm Tooling for each part configuration.
- PLC Control with Touch Screen and Access Security Code for maintenance personnel.

### **Laser Engraving with contrast on UHMW-PE; medical implants**

- Yag laser machine integrated with 4 color pad printers.
- Laser with Superior Beam quality, Peak Power Stability for reliable and repeatable processing.
- Full RS-232 serial interface to provide computer control for all laser functions.
- Laser with high speed Scan Head and user friendly laser marking software.
- Four color printing-decorating artwork to match laser engraving artwork for color registration.
- Touch screen for machine and Process control.
- Parts Cleaning station between laser and pad printing.
- Drying station to cure ink; post pad printing.



### **4-Color Laser marking-engraving system with 8 stations**

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