

# AMTEC

## Applied Manufacturing Technologies, Inc.



### Laser Marking, Engraving, Coding, Scribing, Cutting & Welding



- Laser Type: CO<sub>2</sub>, Excimer, Yag/VYO<sub>4</sub> - IR, Green & UV, Flash-lamp, Diode-pump and Fiber.
- Power Range: Yag/ VYO<sub>4</sub> - 10, 50, 100 up to 250 watts. CO<sub>2</sub>: 10, 30, 100, 250, 500 up to 4,000 watts.
- Marking speed: CO<sub>2</sub>: up to 10,000 mm/s; YAG: up to 30,000 mm/s.
- Marking formats: OCR, 2D Matrix, Bar Codes, Graphics, logos, symbols, linear, circular, angular, reverse, rotate fonts – true type & custom fonts.
- Marking processes: Surface Annealing, Surface Etching, Ablation, Thermal Marking, Speciality Marking, Deep Engraving, Heat Treating and Cladding.
- Applications: Medical, Industrial, Automotive, Aerospace, Aluminum, Wood, PVC, Carbide, Titanium, Steel, Polyurethane, Plastic, Labels, Packages, Stainless steel, Glasses & ceramics, Rubber, Identification plates, Electronics etc.

### Pad Printing using Open Ink Well, Closed Ink Cup and Rotary Machines



- Pad printing system for all kinds of plastics, balls, caps and closures for bottles, glass, ceramic, porcelain, medical devices and other applications.
- Pad printing machines starting from standard machinery, custom printing machines, rotary machines to extensive customized pad printing solutions.
- Speed: up to 300 ppm (higher throughput available on request).
- Printing sizes: 50, 75, 115, 145 and 200 mm diameters (other sizes available upon request).
- Printing plate type: Polymer, thin steel and thick steel.
- No of colors: 1, 2, 3, 4 and more upon request.
- Part Handling: manual or automatic.

## Ultrasonic, Hot Plate, Vibration and Spin Welding Systems



- Welding Processes: Plastic, Metal, Fabric/Cut 'n' Seal, Hot Plate, Vibration and Spin Welding.
- Drive: Servo and Pneumatic.
- Cylinder Diameter: 1" to 4".
- Max. force on parts: 90 lbs, 170 lbs and 670 lbs.
- Stroke: 2" to 4". (extended stroke upon request)
- Power range: 70, 900, 1000, 2000 and 4000 watts.
- Production tooling: Custom tooling depending upon application.
- Rotary index table and part shuttle - optional.

## Turn Key Automation Systems and Robotic Part Handling & Marking Systems



- Automated Assembly Machine for Medical Devices.
- Assembly Processes: Auto feeder, Welding, Leak Testing, Rotary Indexers, Vision Inspection System, Printing/Marking, Precision part positioning systems etc.
- Speed: Depending upon the product; 20 to 300 ppm.
- Feeder Bowl System.
- Part Transfer Module with X-Y-Z-R motion.
- Molding robot loading parts on the machine.
- 6-Axes Robot for automatic part handling & processing.
- Multiple manufacturing processes depending upon application.

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