



Conveyorized Part Delivery

Conveyor systems save time when transporting items from one location to another.

They use standard communication protocols, for easy integration and seamless part between workcells.

Suitable for stand-alone automation or as a sub-system built into a multi-station production line.

KEY FEATURES

MOTION

- Flexible 4 position Bosch®* TSplus conveyor standard; other conveyor models on demand
- Pallet queue adjacent to entry door

CONTROLS

- Easily integrate into larger production lines with industry standard communication
- Category 3 safety circuitry
- Part height sensors

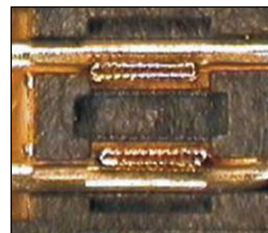
GENERAL

- Generic pallets support part-specific tooling
- Integrate with CDRH Class 1 enclosures for eye-safe laser processing (for laser systems)
- AMADA WELD TECH quality engineering and design

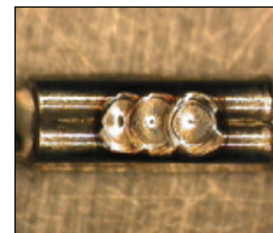
OPTIONAL FEATURES

- Real-time weld monitoring to inspect the weld and ensure quality, throughput, and traceability
- Pallet lift with X-Y axes for positioning of the pallet
- Vision system ensures improved throughput, better part location, and quality for product manufacturing
- Connectivity to production networks (ERP, MRP systems)
- Barcode reader for schedule selection, and part handling from traveler identification
- Light tower for easy identification of operating status
- Custom software and tooling

TYPICAL APPLICATIONS



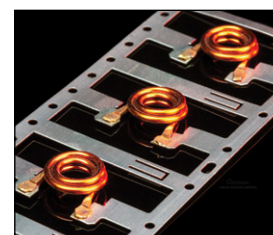
Wire to tab fillet welding



Dual wire to tab welding



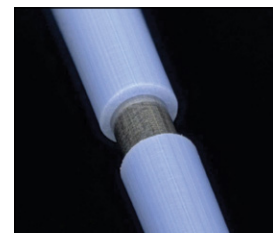
Pacemaker laser welding



Resistance welding



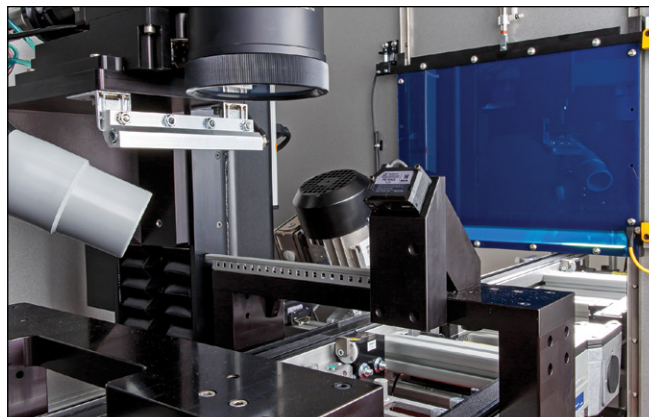
Passivation & corrosion resistant marking



Polymer selective ablation



System work area with pallet lift to position parts in laser focus



From side- note safety interlocks on blue door

SERVICE SUPPORT

- Worldwide 24/7 support

APPLICATIONS SUPPORT

AMADA

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APPLICATION: Laser Drilling Mandrel Material Test

EQUIPMENT
Laser Model: Femtosecond Green Laser
Beam Expander: X3
Focus Lens: F163 Telecentric F-theta lens
Process Field Size: 90 mm X 90 mm

ADDITIONAL EQUIPMENT:
Rotary stage
On/Off axis vision camera
Air blower

LASER PARAMETERS

MATERIAL	LASER	MOTION	CYCLE TIME
Stainless Steel	515 nm, 55%, 10 kHz	200 mm/s, Spiral object	N/A
Copper	515 nm, 55%, 10 kHz	200 mm/s, Spiral object	N/A
Aluminum	515 nm, 55%, 10 kHz	200 mm/s, Spiral object	N/A
Ceramic	515 nm, 55%, 10 kHz	200 mm/s, Spiral object	N/A

Application report with process details and suggestions to improve production quality and throughput.

- Experienced team of applications and service engineers
- Detailed reports of samples with feedback/recommendations:
 - ◆ Joint and part design
 - ◆ Production intent equipment
 - ◆ Tooling suggestions
 - ◆ Equipment process settings

WEIGHT & DIMENSIONS*

Dimensions (L x W x H)	53.8 in x 126.3 in x 72.8 in (1367 mm x 3208 mm x 1849 mm)
Conveyor height	35.9 in (912 mm)
Weight (approximate)	1850 lb (839 kg)

*Dimensions of unit shown, actual dimensions are engineered to design to meet requirements.



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