

SMART Microsystems Heavy Gauge Wire & Ribbon Bonding

Electric Propulsion Applications for Aerospace, Automotive, Defense, and Energy

CONTACT INFORMATION

SMART
MICROSYSTEMS™

141 Innovation Drive, Elyria, Ohio

www.smartmicrosystems.com

Matt Apanius, Managing Director

matt@smartmicrosystems.com

440-366-4203

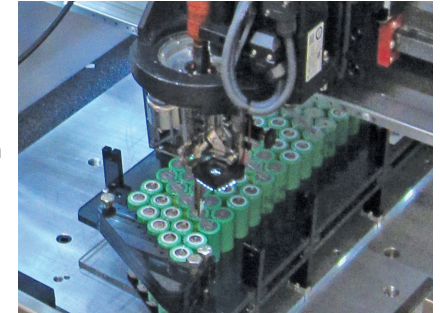


- New 15,000 sq. ft. manufacturing facility with state-of-the-art equipment
- 5,000 sq. ft. of world-class ISO 6 (class 1000) and ISO 5 (class 100) cleanrooms

HEAVY GAUGE WIRE BONDING

SPECIFICATIONS

- **Wire diameters:**
100µm to 500µm (4 to 20 mil)
- **Ribbon:**
0.075mm x 0.75mm to 0.3mm x 2mm
- **Wire and ribbon material:** aluminum
- **Working area:**
X: 350 mm; Y: 560 mm; Z: 70 mm
(13.8" x 20.0" x 2.76")
- **Accuracy:** 2µm at 3 sigma
- **Speed:** Up to 3 wires/sec



ELECTRIC PROPULSION

- **Electric drive systems** are a key component in all electrified vehicle platforms ranging from hybrid to full battery electric vehicles including light-duty vehicles, heavy-duty vehicles, and autonomous aerial systems.
- **Highly integrated power modules** with wire bonded wide band gap devices will allow higher power density traction inverters with higher efficiencies.
- **Heavy gauge wire bonding** is also used as a robust interconnect for integrated battery pack assemblies.

APPLICATIONS



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| Airspace Management <input type="checkbox"/> | Command & Control <input type="checkbox"/> | Comms <input type="checkbox"/> | Power & Energy Storage <input type="checkbox"/> | Propulsion <input checked="" type="checkbox"/> | Sensors & Awareness <input type="checkbox"/> | Other <input type="checkbox"/> |
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