

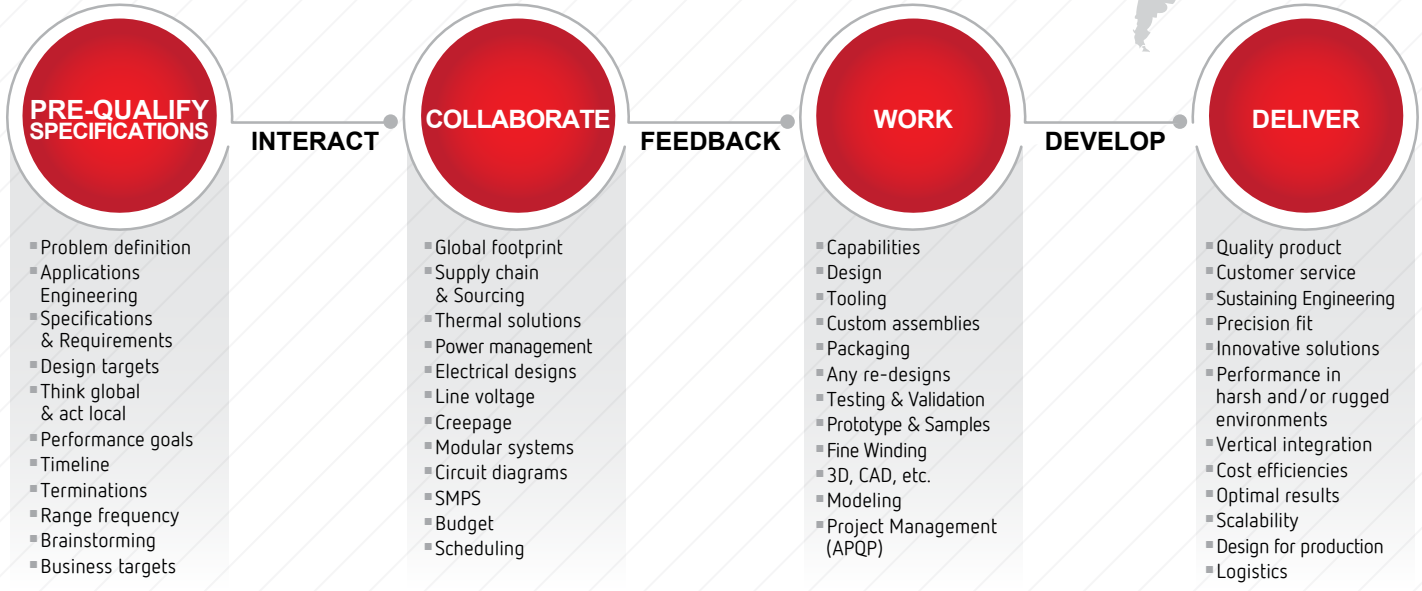
MAGNETICS SOLUTIONS

custom is standard

As your application engineer experts, we deliver custom design, development, and manufacture of reliable high-quality magnetics, power conversion components, assemblies, and planar transformers that are used in a wide variety of assemblies across all major markets.



our process



- Problem definition
- Applications Engineering
- Specifications & Requirements
- Design targets
- Think global & act local
- Performance goals
- Timeline
- Terminations
- Range frequency
- Brainstorming
- Business targets

- Global footprint
- Supply chain & Sourcing
- Thermal solutions
- Power management
- Electrical designs
- Line voltage
- Creepage
- Modular systems
- Circuit diagrams
- SMPS
- Budget
- Scheduling

- Capabilities
- Design
- Tooling
- Custom assemblies
- Packaging
- Any re-designs
- Testing & Validation
- Prototype & Samples
- Fine Winding
- 3D, CAD, etc.
- Modeling
- Project Management (APQP)

- Quality product
- Customer service
- Sustaining Engineering
- Precision fit
- Innovative solutions
- Performance in harsh and/or rugged environments
- Vertical integration
- Cost efficiencies
- Optimal results
- Scalability
- Design for production
- Logistics

our approach

PARTNER // TEAMWORK
Dig deep into the customer's project and develop relationship through our thought leadership, expertise, team, and global footprint.

SOLVE // UNDERSTAND
Capabilities, lab, size, shape, power management, ranges, frequency and more around how our capabilities can provide efficient, productive, designs and products.

DELIVER // QUALITY
Help customers win through our diverse products, dynamic capabilities, reliable high quality magnetics solutions, and customer driven innovation and service.

AEROSPACE & MILITARY // ALTERNATIVE ENERGY // AUTOMOTIVE (EV) & TRANSPORTATION // ELECTRIC POWER & UTILITIES // MEDICAL // SMART GRID & METERING
INDUSTRIAL & POWER DISTRIBUTION // TEST & MEASUREMENT // SECURITY & SAFETY // HOUSEHOLD & APPLIANCES



We **partner, solve, and deliver**® custom engineered solutions to meet the demands of our customers across all major markets. Our versatile engineering and manufacturing expertise allows us to produce reliable high-quality transformers, inductors, chokes, and reactors used in a wide variety of assemblies.



lean manufacturing

- 52 to 5awg Magnetic Wire Winding
- Foil, Flat, & Square Wire Winding
- Automatic CNC Winding
- Bobbin, Layer & Self-Supporting Winding
- Toroidal Hook & Shuttle Winding
- Thermoplastic & Thermoset Overmolding
- Impregnation, Casting & Potting
- Void-Free Vacuum Potting
- NASA Certified Soldering
- Wire Prep & Harness Assembly
- Injection Molding
- Metal & Plastic Fabrication
- Complete, In-House Machine Shop
- Laser Welding



engineering

- 3-D CAD Modeling
- 3-D Printing
- Mechanical Design & Packaging
- Rapid Prototyping
- Magnetics Simulation Software
- Mechanical, Thermal & FEA Analysis
- Plastic Mold Flow Simulation
- APQP Project Management
- Custom Bobbin/Header Tooling
- Custom Core Tooling
- Safety Agency Compliance Services
- Mission Critical Design Services



testing + validation

- Automated Transformer Testing
- Medical Safety Testing
- High Voltage/Partial Discharge Testing
- Temperature Rise Testing
- 2-D/3-D Microfocus X-ray Inspection
- Digital Microscopic Inspection
- Automated Optical Inspection
- Network Analyzer
- MIL-STD-202 In-House Qualification
 - Mechanical, Shock & Vibration
 - Burn-In & Life Testing
 - Thermal Shock & Temperature Cycling
 - Humidity, Salt Fog, & Solderability
 - Moisture Resistance & Seal Testing



quality/certifications

- AS9100, ISO9001 & IATF16949 Certifications
- ITAR & NIST Compliance
- Regulatory Agency Approvals
- PPAP & First Article Inspection
- AS9102 First Article Inspection
- SPC Data Collection