ADVANCED MICRO CONTROLS INC.
www.amci.com

Over 25 Years of Industrial Control Solutions

Advanced Micro Controls Inc. (AMCI) was founded in 1985 on the idea that industrial controls should simplify automation, increase application performance and add reliability to the manufacturing process. These guiding principles inspired the development of our first specialty I/O module more than 20 years ago.

Today, AMCI remains focused on PLC-based position sensing products and motion control technology. A lot has changed at AMCI over the years, except our commitment to supplying you with superior industrial control solutions.

Ask the Experts!
Want to talk with an engineer? Call 860-585-1254.
Visit www.amci.com to learn more about PLCs, encoders and resolvers.
You’ll find:
• Tech tutorials
• Product data sheets
• Sample programs
• FAQs
• Case studies

AMCI Corporate Headquarters
20 Gear Drive  |  Plymouth Industrial Park  |  Terryville, CT 06786
Tel: 860-585-1254  |  Fax: 860-584-1973  |  Email: sales@amci.com

Over twenty years ago, we developed the unique technology to interface the resolver sensor directly into the Allen-Bradley PLC-5 with the AMCI 1700 series resolver interface module.

AMCI’s rotary position sensors are designed to heavy-duty specifications, including high shock and vibration, operating temperature and shaft loading capacity ratings.

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Multi-axis control
• PLC modules with 1, 2 or 6 axis motion
• Network-ready multi-axis controllers
• Interpolated (linear and circular) motion control

Integrated solutions
• Network-ready in-drawer cabs
• Integrated drive and motor packages
• Easy setup and operation

Drives and motors
• AC and DC powered microstepping drives
• NEMA frame sizes 23 to 42 stepper motors
• UL Listed and CE certified

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Resolvers
• Single-turn, multi-turn and redundant sensing solutions
• Stainless steel and high-temperature rated versions
• Widest selection of resolver interface PLC modules

SSI and LD T
• Interfaces for today’s leading SSI and LDT sensors
• Complete SSI sensing solutions for rotary and linear applications
• LDT solutions for single and multi-magnet sensors

Programmable Limit Switch (PLS)
• Controllers for PLCs, networks and standalone operation
• High-speed PLC controllers for packaging, press and automation applications
• Full featured programming capabilities for a wide range of functions

Over 20 years of PLC module design and manufacturing expertise guarantees PLC compatibility, simplifying your set-up and programming.

PLC Modules
• Position sensor interfaces: Resolver, SSI, LDT, LVDT, EnDat and high-speed Analog
• Motion controllers: 1, 2 and 4-axis Stepper/Servo Controllers
• Packaging and press control: Programmable limit switches (PLS)
• Modules for the most popular PLCs: AB, GE FANUC, Siemens and Schneider

AMCI Focused Products

Specialty I/O Modules

Position Sensing Products

Motion Control Technology

PLC Modules

Position Sensing Solutions

Motion Control Technology

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Advanced Micro Controls Inc. — Industrial Control Solutions

AMCI industrial control products improve PLC-based automation systems with specialized position sensing and motion control technology that simplifies automation and adds reliability to manufacturing processes. When you partner with AMCI, you benefit from 25 years of commitment to industrial control problem solving.

• Unique control solutions that offer long-term performance and serviceability
• Engineering innovations that reduce system complexity
• Broad industry applications expertise and technical support

-value added engineering
Value Added Engineering, Manufacturing and Quality Assurance

AMCI’s team of electrical and mechanical engineers is tested in practical experience and customer feedback. They partner directly with the company’s sales and marketing groups to ensure that every product design meets basic criteria: simplicity, automation, increased application performance and add reliability to the manufacturing process.

We research, design, manufacture and test our products in our own advanced manufacturing facility. Through this integrated approach to product development, and long standing, practical experience with leading industrial automation OEMs, we’re able to bring new technology to market quickly. We can also customize our existing products to meet specific end-use applications.

• Experienced in-house engineering staff
• Modern production equipment and processes
• 100% product testing before shipment

Optimizing Your Performance

AMCI's formula for success is simple: Support our customers in any way possible.

Experience and a Commitment to Finding the Right Solution

Years of experience give AMCI sales engineers unique insights into understanding your application, helping you define objectives, and recommending the AMCI control solution best suited for the job.

Our commitment to excellence goes beyond the sale. You’ll find our technical support staff available 24/7 to answer questions about the installation, configuration and operation of all AMCI products.

• On-staff product, applications and technical specialists
• Comprehensive website with access to manuals, tutorials, FAQs and case studies
• International distributor network
• Same day response by telephone, email and web forms

Automotive

Resolver-based position sensors and interfaces for metal forming, transfer presses, gantry control and thin film manufacturing operations.

Packaging

High-speed PLS controllers for glue gun control, packaging machines, labeling, material handling, box forming, sealing and cartoning operations.

Semiconductor

Integrated motion control solutions for wafer transfer, alignment and positioning operations.

Steel

Severe duty sensors for arc and oxygen furnace control, continues casting lines, the rolling process and coating operations.

Military

Ultra-reliable position sensors for turret control, satellite positioning, cargo transport lines and aerospace applications.

Optimizing Your Performance

Our engineering teams work closely with users in-House and marketing to develop products that offer best-in-class performance.

AMCI products are manufactured in-house for the fastest turnaround.

Sales Support:

- On-staff sales engineers
- Comprehensive Website
- Case studies
- Product literature

Demos Support:

- AMCI product demonstrations
- Online resources
- Videos
- White papers
- Tutorials
- FAQs

Account Support:

- Customer Service line
- Phone
- Email
- Fax
- Same day replies

Tech Support:

- Tech Support via:
  - Phone
  - Email
  - Web forms
  - Emergency coverage in rights & weekends

AMCI products go through 100% testing before shipping to guarantee years of trouble-free performance. Our experienced sales department continues to develop the AMCI control products best suited to their application.

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Motion Control Technology
AMCI’s multi-axis motion controllers offer exclusive solutions that can’t be found anywhere else. They combine the best performance with reduced overall cost.

Position Sensing Solutions
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Over 20 years of PLC module design and manufacturing expertise guarantees PLC compatibility, simplifying your set-up and programming.

PLC Modules
- Position sensor interfaces: Resolver, SSI, LTDC, SSI/DC and High-speed Analog
- Motion controllers: 1, 2 and 4 axis Stepper/Servo Controllers
- Packaging and press control: Programmable limit switches (PLS)
- Modules for the most popular PLCs: AB, GE Fanuc, Siemens and Schneider

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Multi-axis control
- PLC modules with 1, 2 or 6 axis motion
- Network-ready multi-axis controllers
- Interpolated (linear and circular) motion control

Integrated solutions
- Network-ready integrated drive systems
- Integrated drive and motor packages
- Easy setup and operation

Drives and motors
- AC and DC powered microstepping drives
- NEMA frame sizes 23 to 42 stepper motors
- UL listed and CE certified

AMCI’s rotary position sensors are designed to heavy-duty specifications, including high shock and vibration, operating temperature and shaft loading capacity ratings.

Resolvers
- Single-turn, multi-turn and redundant sensing solutions
- Stainless steel and high-temperature rated versions
- Widest selection of resolver interface PLC modules
- SSI and LTDC
- Interfaces for today’s leading SSI and LTDC sensors
- Complete SSI sensing solutions for rotary and linear applications
- LTDC solutions for single and multi-magnet sensors

Programmable Limit Switch (PLS)
- Controllers for PLCs, networks and stand-alone operation
- High speed PLC controllers for packaging, press and automation applications
- Full-featured programming capabilities for a wide range of functions

Encoders
- Up to NEMA IPX5K protection
- Stainless steel and high-temperature packages
- Single-turn, multi-turn and networked sensors

Over 20 years of PLC module design and manufacturing expertise guarantees PLC compatibility, simplifying your set-up and programming.

PLC Focused Products
Over 20 years of PLC module design and manufacturing expertise guarantees PLC compatibility, simplifying your set-up and programming.

Specialty I/O Modules
- Position sensor interfaces: Resolver, SSI, LTDC, SSI/DC and High-speed Analog
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### Solutions to Demanding Applications

AMCI’s specialized control solutions are used in applications ranging from sophisticated motion control systems for the pharmaceutical industry to extreme-duty position feedback solutions for military assault vehicles.

<table>
<thead>
<tr>
<th>Automotive</th>
<th>Resolvers based on position sensors and interfaces for metal forming, transfer presses, gantry control and tire manufacturing operations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>High-speed PLS controllers for glue gun control, packaging machines, labeling, material handling, box forming, sealing and cartoning operations.</td>
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<tr>
<td>Pharmaceutical</td>
<td>Compactor motion controllers provide easy set up and configuration for labeling, heat-seal, stamping, sorting, routing, picking, sealing and cartoning operations.</td>
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<td>Steel</td>
<td>Severe duty sensors for arc and oxygen furnace control, continues casting lines, the rolling process and coating operations.</td>
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<tr>
<td>Petroleum</td>
<td>Rotary and linear sensor interfaces offer precise data positioning, valve control and level sensing.</td>
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</table>

### Value Added Engineering, Manufacturing and Quality Assurance

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- Experienced in-house engineering staff
- Modern production equipment and processes
- 100% product testing before shipment

### Experience and a Commitment to Finding the Right Solution

Years of experience give AMCI sales engineers unique insights into understanding your application, helping you define objectives, and recommending the AMCI controls solution best suited for the job.

Our commitment to excellence goes beyond the sale. You’ll find our technical support staff available 24/7 to answer questions about the installation, configuration and operation of all AMCI products.

- On-site product, applications and technical specialists
- Comprehensive website with access to manuals, tutorials, FAQs and case studies
- International distributor network
- Same day response by telephone, email and web forms

AMCI’s primary goal is to develop products that offer best-in-class performance.

AMCI products are manufactured in-house for the fastest turnaround and 100% product testing before shipment to meeting quick delivery, anywhere in the world.

AMCI products go through 150-stress testing before shipping to ensure years of trouble-free performance.

Our engineering teams work closely with clients on the development of products to meet specific end-use applications.

AMCI’s formula for success is simple: Support our customers in any way possible.

Sales Support: 
- On-site specialists
- Government Website
- Case studies
- Product literature

Demo Support: 
- NEXUS product loaners
- Online resources
- Training seminars
- Tutorials
- FAQs

Account Support: 
- Customer Service area
- Phone
- Email
- Fax
- Same day replies

Tech Support: 
- Tech Support via
- Phone
- Email
- Fax
- Emergency coverage on nights & weekends

We combined our experience with ETU regulated and industrial networking experience designing the NEXUS multi-axis motion controller.
Optimizing Your Performance

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AMCI's specialized control solutions are used in applications ranging from sophisticated automotive and defense applications to manufactured goods. Our ISO-certified manufacturing facility gives quick delivery, anywhere in the world. We research, design, manufacture and test our products in our own advanced manufacturing facility. Through this integrated approach to product development, and long standing, practical experience with leading industrial automation OEMs, we're able to bring new technology to market quickly. We can also customize our existing products to meet specific end-use applications.

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Tech Support:
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We combined our experience with PLC innovations and industrial networking when designing the NEXUS multi-axis motion controller.

AMCI products are manufactured in-house for the fastest delivery.

AMCI industrial control products improve PLC-based automation systems with specialized position sensing and motion control technology that simplifies automation and adds reliability to manufacturing processes. When you partner with AMCI, you benefit from 25 years of commitment to industrial control problem solving.

• Unique control solutions that offer long-term performance and serviceability
• Engineering innovations that reduce costs and improve automation control
• Broad industry applications expertise and technical support

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