



**AUTOMATION
& FACTORY
SOLUTIONS**

Product Line Cards

**INNOVATION
THROUGH
AUTOMATION**



Innovation Through Automation

GCG Automation & Factory Solutions consists of leaders in industrial automation: Advanced Controls & Distribution (ACD), Adcon Engineering, C&E Advanced Technologies, Empire, Neff Power, and Professional Control Corporation (PCC). Our customers throughout Western Pennsylvania, Ohio, West Virginia, Michigan, Indiana, Kentucky, Tennessee, Wisconsin, and the Southwest rely on us to continue to supply innovative, technical solutions developed by industry-leading manufacturers.

ACD is a technology-leading, full-line distributor of industrial electrical supplies serving an extensive network of vendors and customers.

Adcon Engineering has been providing customers with a wide variety of safety and sensing since 1971 to help automate and streamline their manufacturing processes and improve the capabilities of the machines they build.

C&E Advanced Technologies has been providing customers with industrial automation solutions for over 40 years. C&E offers products in multiple areas and has the expertise to support them.

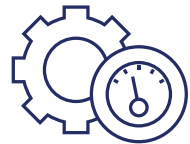
Empire is an innovative manufacturer of custom cable assemblies and distributor of automation, cable, electrical, and safety products.

PCC is an industrial automation, power distribution and electrical controls distributor for Siemens and other world-class technology providers, serving the Wisconsin and Minnesota manufacturing industry for over 40 years.

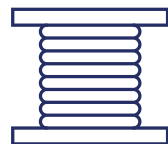
Neff Power is a distributor of robotics, motion controls, sensors, safety, vision, machine framing, pneumatics, hydraulics and other products from leading global manufacturers.



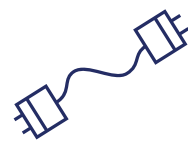
connectivity



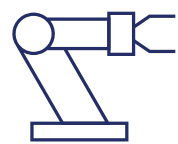
automation & control



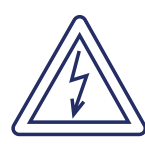
wire & cable



cable assemblies



robot dress



safety solutions



ACD | ADVANCED CONTROLS & DISTRIBUTION
A GCG COMPANY

**Cranberry Twp., PA,
Middleburg Heights, OH**

☎ 724-741-8200
🌐 acd.com

Adcon Engineering
A GCG COMPANY

Middleburg Heights, OH

☎ 440-238-3915
🌐 adconengineering.com

C&E ADVANCED TECHNOLOGIES
A GCG COMPANY

**Miamisburg, OH
Nashville, TN**

☎ 800-228-2790
🌐 ceadvancedtech.com

Empire
A GCG COMPANY

**Rochester Hills, MI
Grand Rapids, MI
Brampton, Ontario**

☎ 248-853-6363
🌐 empirewc.com

NEFF POWER
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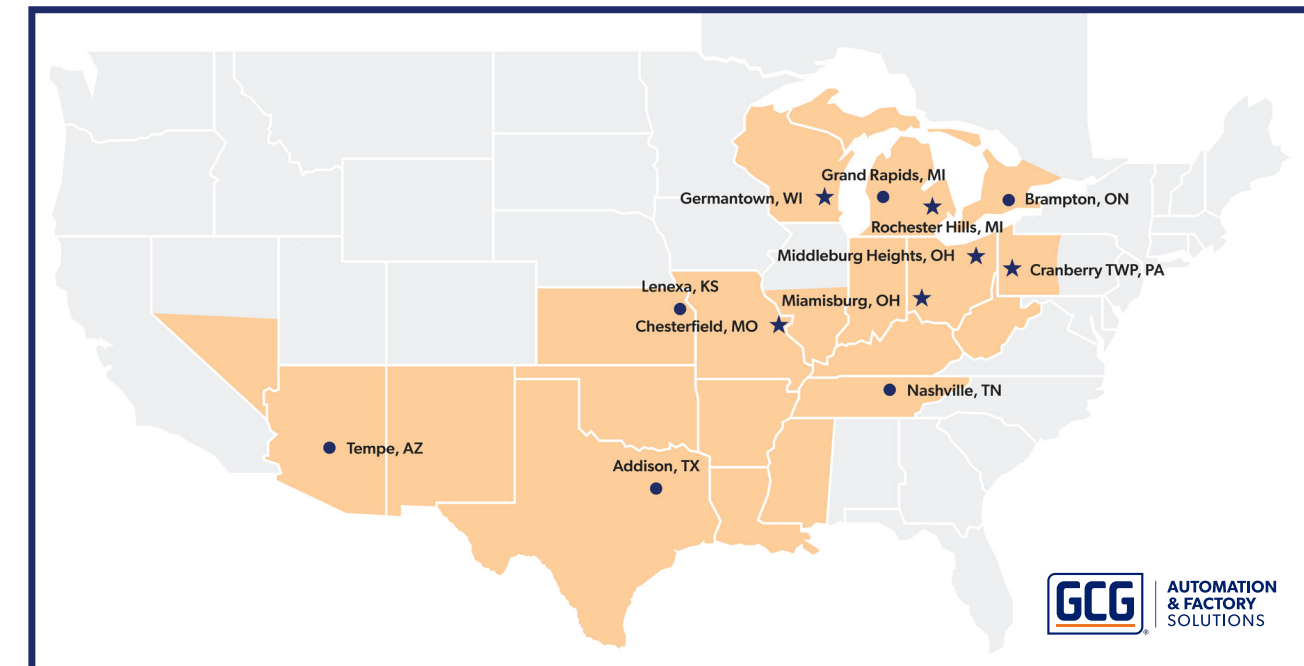
**Chesterfield, MO
Lenexa, KS
Addison, TX
Tempe, AZ**

☎ 855-727-6200
🌐 neffpower.com

PCC 
A GCG COMPANY

Germantown, WI

☎ 262-251-3000
🌐 pccweb.com





ADVANCED
CONTROLS &
DISTRIBUTION

A GCG COMPANY

SIEMENS

World Market Leader in:
Automation, Drives, Motors, Industrial Controls, Switchgear

BANNER

Automation, Sensors, Machine Safety, Lighting
& Indicators, Machine Vision, Wireless Networks

APER A

4D Vision for Robotic Automation

80/20
BUILD YOUR IDEA

Structural Aluminum and Design Services

DOOSAN

Collaborative Robots from 5kg to 25kg

YASKAWA
MOTOMAN ROBOTICS

Robotic Solutions for Welding, Assembly, Material Handling,
& Packaging

F FORTRESS

Safety Interlocks, CIP Safety & PROFI-safe Devices, RFID Badge Access,
Operator Controls, Fluid Power, Light Curtain Safety

murrplastik
Simply Smart Systems

Cable Management Systems
Guiding, Protecting, Marking, Robotic Dress Packs, Cable Protection
Conduit, Cable Routing/Retaining Systems

RITTAL

Enclosures, Power Distribution, Climate Control,
IT Infrastructure

MERSEN

Fuses, Fuse Holders, Power Distribution Blocks, Low Voltage
Disconnect Switches, Surge Protection, Laminated Bus Bar

Dialight

High Bays, Area Lights, Linear Lights, Floodlights,
Wallpacks/Bulkheads, Street Lights

eWON Hms
MACHINES CAN TALK

Industrial Routers, Industrial Wireless Routers,
VPN Routers for Remote Machine Access

ACD is also an Authorized Distributor for the following vendors:

- Accutech
- Advanced Illumination
- Akron Electric
- Atlas Lighting
- Bender
- Carlo Gavazzi
- Cembre
- Cementex
- Coval
- CREE Lighting
- Dynapar
- Federal Signal
- FLIR
- Fortress
- Grace
- Haewa
- HPS
- Hilscher
- Hubner
- Husky Rack & Wire
- Iboco
- Liebert
- Macron Dynamics
- Magswitch
- Meltric
- MTE
- On Robot
- Pfannenber
- Safe Connect
- SICK Stegmann
- Stahlin
- Swivellink

Adcon
Engineering

A GCG COMPANY

BANNER

Automation, Sensors, Machine Safety, Lighting
& Indicators, Machine Vision, Wireless Networks

TURCK

Sensors: Prox, Flow, Pressure, Connectivity, Encoders,
I/O, RFID

80/20
BUILD YOUR IDEA

Structural Aluminum and Design Services

SICK

Sensors, Safety Light Curtains/Laser Scanners, Bar Code, RFID

MIR
MOBILE INDUSTRIAL ROBOTS

Autonomous Mobile Robots (AMRs)

DOOSAN

Collaborative Robots from 5kg to 25kg

F FORTRESS

Safety Interlocks, CIP Safety & PROFI-safe Devices, RFID Badge Access,
Operator Controls, Fluid Power, Light Curtain Safety

murrplastik
Simply Smart Systems

Cable Management Systems
Guiding, Protecting, Marking, Robotic Dress Packs, Cable Protection
Conduit, Cable Routing/Retaining Systems

RITTAL

Enclosures, Power Distribution, Climate Control, IT Infrastructure

Maple Systems

HMI Operator Interfaces, Industrial Computers

ENCODER
PRODUCTS COMPANY

Rotary Encoders: Absolute, Draw String, Incremental,
Linear Encoders

Panasonic

Solid State Relays, Sensors, Controls, Energy Monitoring

Adcon Engineering is also an Authorized Distributor for the following vendors:

- Altech Corp.
- Apem
- Apera
- Apex Technology
- Carlo Gavazzi
- Contact Electronics
- Coval
- Dynapar
- Electro Cam
- Fuji Electric
- Iboco
- Icotek
- IDEC
- Meltric
- Mersen
- Migatron
- Opto 22
- Patlite USA
- PULS
- Red Lion
- Smart Vision Lights
- Sprecher + Schuh
- Swivellink
- Unitronics

 <p>World Market Leader in: Automation, Drives, Motors, Industrial Controls, Switchgear</p>	 <p>Automation, Sensors, Machine Safety, Lighting & Indicators, Machine Vision, Wireless Networks</p>
 <p>Sensors: Prox, Flow, Pressure, Connectivity, Encoders, I/O, RFID</p>	 <p>Pneumatics, Electric Drives, Process Automation Products</p>
 <p>Autonomous Mobile Robots (AMRs)</p>	 <p>Robotic Solutions for Welding, Assembly, Material Handling, & Packaging</p>
 <p>Safety Interlocks, CIP Safety & PROFlsafe Devices, RFID Badge Access, Operator Controls, Fluid Power, Light Curtain Safety</p>	 <p>Collaborative Robots from 5kg to 25kg</p>
 <p>Structural Aluminum and Design Services</p>	 <p>Cable Management Systems Guiding, Protecting, Marking, Robotic Dress Packs, Cable Protection Conduit, Cable Routing/Retaining Systems</p>
 <p>Enclosures, Power Distribution, Climate Control, IT Infrastructure</p>	 <p>Wire Partitions & Cages, Pallet Rack Safety Systems, Machine Guarding, Protective Railings, Storage Lockers</p>

C&E is also an Authorized Distributor for the following vendors:

- Advanced Illumination
- Essential Robot
- Koganei
- Schunk
- Aperera
- Fuji Electric
- Kollmorgen
- Smart Vision Lights
- Brady Corporation
- HMS/eWON
- Larco
- Stober
- Cooper Bussmann
- IDEC
- OnRobot
- Swivellink
- Coval
- Joulin
- Red Lion
- Teledyne
- Encoder Products Co.
- JVL
- ROEQ
- Tolomatic

 <p>World Market Leader in: Automation, Drives, Motors, Industrial Controls, Switchgear</p>	 <p>Automation, Sensors, Machine Safety, Lighting & Indicators, Machine Vision, Wireless Networks</p>
 <p>Sensors: Prox, Flow, Pressure, Connectivity, Encoders, I/O, RFID</p>	 <p>Cables, Cable Assemblies, Connectors, Edgecards, Sockets</p>
 <p>Wire & Cable, Power Management, Lighting, Tools & Equipment</p>	 <p>Wire Partitions & Cages, Pallet Rack Safety Systems, Machine Guarding, Protective Railings, Storage Lockers</p>
 <p>Structural Aluminum and Design Services</p>	 <p>Linear Rails, Telescopic Slides, Actuators, Actuator Systems</p>
 <p>Industrial, Heavy Duty, & Interface Connectors, System Cabling, Tools</p>	 <p>Power & Control Cable, Data Communication Cable, Systems</p>
 <p>Relays, Sockets, Switches, PLCs, HMI Interfaces, Power Supplies</p>	 <p>Flexible Control, Continuous Flex, Bus and Ethernet, High Temperature Cables</p>

Empire is also an Authorized Distributor for the following vendors:

- Alphawire
- Coleman Cable
- Helukabel
- Reiku
- Amphenol
- Coval
- Mersen
- Sealcon
- Aperera
- Dinkle
- MP Husky
- Tosibox
- Apex Dynamics
- Draka
- Pepperl+Fuchs
- Voyten
- Belden
- General Cable
- Pfannenbergl
- Wengler
- Chalfant
- Hammond Mfg.
- Pizzato
- Wirecrafters

<p>SIEMENS</p> <p>World Market Leader in: Automation, Drives, Motors, Industrial Controls, Switchgear</p>	<p>80/20 BUILD YOUR IDEA</p> <p>Structural Aluminum and Design Services</p>
<p>TURCK</p> <p><small>*available in MO, KS, IL, AZ, NM</small></p> <p>Sensors: Prox, Flow, Pressure, Connectivity, Encoders, I/O, RFID</p>	<p>MURR ELEKTRONIK <small>stay connected</small></p> <p><small>*available in TX, AR, OK, LA</small></p> <p>Fieldbus Network Systems, Cordsets, Power Management</p>
<p>MIR <small>MOBILE INDUSTRIAL ROBOTS</small></p> <p>Autonomous Mobile Robots (AMRs)</p>	<p>SICK</p> <p>Sensors, Safety Light Curtains/Laser Scanners, Bar Code, RFID</p>
<p>FORTRESS</p> <p>Safety Interlocks, CIP Safety & PROFIsafe Devices, RFID Badge Access, Operator Controls, Fluid Power, Light Curtain Safety</p>	<p>YASKAWA <small>MOTOMAN ROBOTICS</small></p> <p>Robotic Solutions for Welding, Assembly, Material Handling, & Packaging</p>
<p>IAI <small>Quality and Innovation</small></p> <p>Cartesian and SCARA Robots, Electric Cylinders</p>	<p>DOOSAN</p> <p>Collaborative Robots from 5kg to 25kg</p>
<p>DORNER</p> <p>Industrial, Sanitary and Automation Precision Conveyors</p>	<p>SCHUNK</p> <p>HSB Linear Actuators, Pneumatic & Electric Grippers</p>

Neff Power is also an Authorized Distributor for the following vendors:

- | | | | |
|------------------------------|----------------------|--------------|----------------|
| • Apera | • DieQua Corporation | • Madison | • Secomea |
| • Atos Hydraulics | • Gems Sensors | • Micromatic | • Swivellink |
| • Aventics/Emerson /Numatics | • Hawe Hydraulics | • NSK | • Tolomatic |
| • Belden | • Hirschmann | • OnRobot | • Thomson |
| • Bucher Hydraulics | • Kollmorgen | • Patlite | • Versa Valves |
| • Coval | • Laurel Electronics | • Pro-face | • Weidmuller |
| • Denso Robotics | • Lumberg Automation | • PULS | • Weintek |
| | • Macron Dynamics | • Schmersal | • Wilkerson |

<p>SIEMENS</p> <p>World Market Leader in: Automation, Drives, Motors, Industrial Controls, Switchgear</p>	<p>PCC ROBOTICS</p> <p>Machine Tending, Secondary Operations, Assembly, Inspection, Finishing, Dispensing, Material Handling</p>
<p>80/20 BUILD YOUR IDEA</p> <p>Structural Aluminum and Design Services</p>	<p>DOOSAN</p> <p>Collaborative Robots from 5kg to 25kg</p>
<p>APLEX <small>Technology</small></p> <p>Industrial Panel PCs, Industrial Monitors, Embedded Box PCs, Stainless Steel Panel PCs</p>	<p>AMCI</p> <p>PLC Based Motion Control, Integrated Stepper Solutions, Stepper Controllers, Stepper Drives, Stepper Motors</p>
<p>Pfannenberg <small>ELECTRO-TECHNOLOGY FOR INDUSTRY</small></p> <p>Filter fans, Cooling, Heat Exchangers, Chillers, Water to Water Heat Exchangers, Horns, Sirens & Sounders</p>	<p>Leuze</p> <p>Sensors, Safety Light Curtains/Laser Scanners, Bar Code, RFID, Positioning Systems, Optical Data Transmission</p>
<p>STÖBER</p> <p>Servomotor Gearboxes, Gearheads & Speed Reducers, Inline/Right Angle Geared Motors, Precision Planetary Gearboxes</p>	<p>Weidmüller</p> <p>Terminal Blocks, Signal Conditioning, Power Supplies, Surge Protection, Industrial Ethernet Switches</p>
<p>pizzato</p> <p>Solenoid Locking Safety Switches, Rope Pull Switches, Safety Relays, Position & Limit Switches, Magnet & Hinge Switches, E-stops, Pilot Devices</p>	<p>igus</p> <p>Cable Carriers, Energy Chains, Continuous Flex Cables, Drive Cables, Pre-harnessed Cable Carriers, Energy Supply Systems for Robots, Joint Kits for Robots</p>

PCC is also an Authorized Distributor for the following vendors:

- | | | | |
|-----------------|----------------------|-----------------------|-----------------|
| • Antaira | • Grace Technologies | • LS Electric | • Socomec |
| • Apera | • Hammond Mfg. | • Meltric Corporation | • Softing |
| • Binder | • Helmholz | • Mersen | • Tele |
| • Carlo Gavazzi | • IDEM | • Micron | • TCI |
| • Dunkermotoren | • JLT Mobile | • PR Electronics | • TR Electronic |
| • EDrive | • KnorrTec | • ProSoft | • Velox |
| • EXM | • Larco | • Qlight | • Weintek |
| • Fibox | • Led2Work | • Rollon | • Yaskawa |

WIRE & CABLE



Harness / Specialty Assemblies

There is a demand for unique interconnect systems in many industries today. Empire is recognized as a superior manufacturer of wire harnesses and specialty assemblies.

Our knowledgeable staff can assess your needs to get the fit, form and function needed out of your assembly. We use products like shrink wrap, expando, tape wrap, spiral wrap, and convolute to make an assembly more manageable and withstand different environments. Empire has the capability to dye and stripe wire in house. This allows us to match a color code provided by the customer. We get the most out of your assembly while maintaining an effective cost.

Overmold

Overmolding is ideal for cable assemblies that will face extreme weather, high-pressure wash-downs, constant sanitation, frequent strain and flexing, and exposure to dust or debris, while maintaining reliability. The most common applications overmolding is preferred include solar energy, military equipment, consumer electronics, medical equipment and industrial/OEM applications.



Molded strain relief can be engineered to your exact application, specific flexing or routing needs. The entire process is completed in house. Your custom molded product will have a professional appearance and can utilize your logo, part number, etc. There are a variety of molded materials, ensuring a suitable fit for your specific application.

Multiple Markets – One GCG!

GCG serves 30 unique markets through our 3 specialized segments.

Visit gogcg.com For More Information

AUTOMATION & FACTORY SOLUTIONS (AFS)

- Distribution Centers
- Electric Vehicles
- Food & Beverage
- Healthcare
- Manufacturing



COMMUNICATIONS & NETWORK SOLUTIONS (CNS)

- Broadband & Telecom
- Building Automation
- Data Centers
- Data Comm / Utilities
- Wireless



CONNECTIVITY & POWER SOLUTIONS (CPS)

- Aerospace & Defense
- Agriculture
- Contract Manufacturers
- Infrastructure
- Navy / Marine
- OEM Equipment
- Rail & Transit
- Renewable Energy



Paige Provides Custom Solutions for Customers Across GCG



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