



# Quad Plus™

## 45 POINT DRIVE PREVENTIVE MAINTENANCE PROGRAMS

Quad Plus is a recognized leader in the application, operation and maintenance of variable speed drive systems.

This knowhow is built into our drive maintenance programs which allow you to get the most from your drives:

- Improved Reliability
- Maximum Performance
- Maximum Availability
- Lowest Total Cost of Ownership



Our 45 point Drive Preventive Maintenance program includes annual checks of components and software of the following key areas:

- Safety and Protection Systems
- Control System and Cyber Security
- Input section
- Filter Section (s)
- Output Section
- Cooling System
- Running Tests

Our program can be applied across multiple brands, providing consistency and reliability across your entire enterprise. The program is available for AC and DC drives, Low Voltage and Medium Voltage, and 1 to 10,000 hp.

- Siemens
- Allen Bradley
- Eurotherm
- ABB
- Reliance
- And more





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## 45 POINT DRIVE PREVENTIVE MAINTENANCE PROGRAMS

	x=Minor xx=Major	Standard Environment (months) 10C to 30C Ambient, No Particulate Matter			
		12	24	36	48
Category	Item				
Safety and Protection Systems	Ground System Integrity	x			
	Emergency Stop Functions	x			
	MV Breaker		x		xx
	LV Breaker		x		xx
	Transformer		x		xx
	Cabinet	x			
Control System and Security	System Log Analysis	x			
	Communications	x			
	Archive	x			
	Software and Cyber Security	x			
	Encoder	x			
Input	Passive (6 pulse or more)	x			xx
	Active (AFE)	x			xx
Filter	Electrolytic Capacitors		x		xx
	Other		x		
Output	AC	x			xx
	DC	x			xx
Cooling System	Forced Air	x		xx	
	Vapor Phase		x	xx	
	Water Cooled	x		xx	
Performance Tests	Thermal Signature	x			
	Currents	x			
	Voltages	x			

## About Quad Plus

Quad Plus provides industrial control systems, solutions, and services. We offer an uncompromising level of service and expertise to maintain our customers' productivity. Our extensive process knowledge spans from the utility pole to the motor shaft. With an on-going commitment to follow-up service, parts, and repairs, we are all you need for continued success.

We are recognized in the field as a leader in drive and motor control. Solutions are designed in-house through research and development tailored to meet each client's specific needs. Our design staff includes electrical, mechanical, civil/structural, chemical, and controls.



### FACILITIES

- Chicago, IL
- Atlanta, GA
- Appleton, WI
- Houston, TX

### SATELLITE FACILITIES

- Boston, MA
- Evansville, IN
- Fort Myers, FL
- Mobile, AL
- St. Louis, MO
- Bend, OR
- Los Angeles, CA
- Kansas City, MO

LARGE DRIVES - AUTO SHREDDING



INDUSTRIAL APPLICATIONS



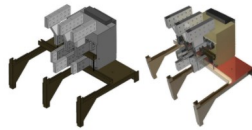
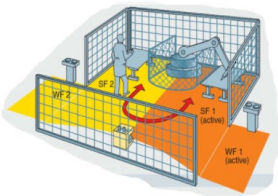
OIL, GAS and MARINE



POWER SERVICES



INDUSTRIAL SAFETY SERVICES



**Modern Thinking  
Better Design**



**Quad Plus**™

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