



▲ ADVANCED CRANE CONTROLS

PAR Systems provides advanced motion control solutions for cranes. PAR's motion control significantly enhances safety, productivity, ease-of-use, and even longevity. This is accomplished by providing operators with technology for generating swing-free motion, the capability to automatically and precisely position load, and protection from collisions, snags, and sideloads.

BENEFITS OF ADVANCED CRANE CONTROLS

- Reduces operator training time since crane is easier to operate
- Improves productivity with reduced time for sway adjustment and load placement
- Easily retrofitted to cranes with existing VFD's, radios and pendant controls
- Provides for safer crane operations with collisions and near misses reduced 90-95%.
- Reduces crane maintenance costs through fewer crane starts and stops





INDUSTRIES SERVED



General Industrial,
Structures and Bridges



Transportation



Aerospace



Automotive



Nuclear



Space

TECHNICAL INFORMATION

• EXPERTOPERATOR™ Crane Controls

- Hardware module used to intercept pendant commands – convert them into expert commands and then issue the modified commands to the motor drives
- Reduces load swing by 85 – 95% with any load or rigging configuration
- No sensors or special operator inputs required for sway control

• CRANEVISION™ Crane Controls

- Machine vision system used to monitor the bottom block to counter act unsafe conditions from snag and side load conditions
- Snag detection:
 - Detects when the bottom block has snagged, then issues a rapid stop command to the crane to prevent additional adverse motion
- Sideload detection:
 - Detects side loads, then prevents hoisting until load is centered under the hook
- AutoCentering:
 - Automatically adjusts the bridge and trolley position until the load is centered under hook, before hoisting can resume

• SAFEMOVE™ Crane Controls

- Industrial sensors used to track the position of the bridge and trolley
- Operators can create no-fly-zones to protect sensitive equipment, walkways or other arbitrary regions; zones are configured graphically via tablet computer
- AUTOMOVE™ Crane Controls
 - Utilizes the same industrial sensors as SafeMove feature to track the crane position
 - Operators can program complex move sequences into the system
 - Operators initiate the automatic move using the portable pendant to ensure the payload closely follows prescribed trajectories



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