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# Concrete Pumps

Electronic Motion & Controls Division



ENGINEERING YOUR SUCCESS.

# Electronic controls and solutions for concrete pumpers

Parker – an experienced partner at your service

## Market Knowledge and Solutions

Parker Electronic Motion & Controls Division commitment to the concrete pumper industry is clearly demonstrated by the products, the solutions, and the customer service we offer. Parker EMC provides innovative products and solutions such as auto boom positioning and return to home, auto level with two axis level indication in addition to superior electro-hydraulic control for smooth boom operation.

## Value in Use

Parker has dedicated teams of specialists working globally to design systems, subsystems and solutions to meet the most demanding requirements. Among the many immediate value adding benefits realized are increased productivity, reduced production time, reduced fuel consumption and emissions and reduced down time.

## Certified Electronics

Parker offers comprehensive control systems specifically designed for the mobile industry, fulfilling the latest standards for safety and environmental protection. User-friendly application software tools are used to build up the complete system. The modules communicate via CAN bus, allowing different gateways to other systems. All of Parker's extensive knowledge and experience in motion control on mobile units is built-in, providing optimum control and flexibility as well as on-board and remote diagnostics capabilities.

Parker's IQAN-XC4x expansion modules are perfect for increasing I/O in an IQAN system. They have voltage, current, digital and timer inputs. The outputs are proportional and digital. The modules communicate with an IQAN master module over a CAN bus.



MD4 full color display with CAN provides a clear interface for the operator to see the status of the boom, leveling system, engine and hydraulics operation, as well as error messages.



RS70 dual output rotary position sensor with redundant signals for added safety measures boom angle for cylinder end of stroke dampening and auto positioning.



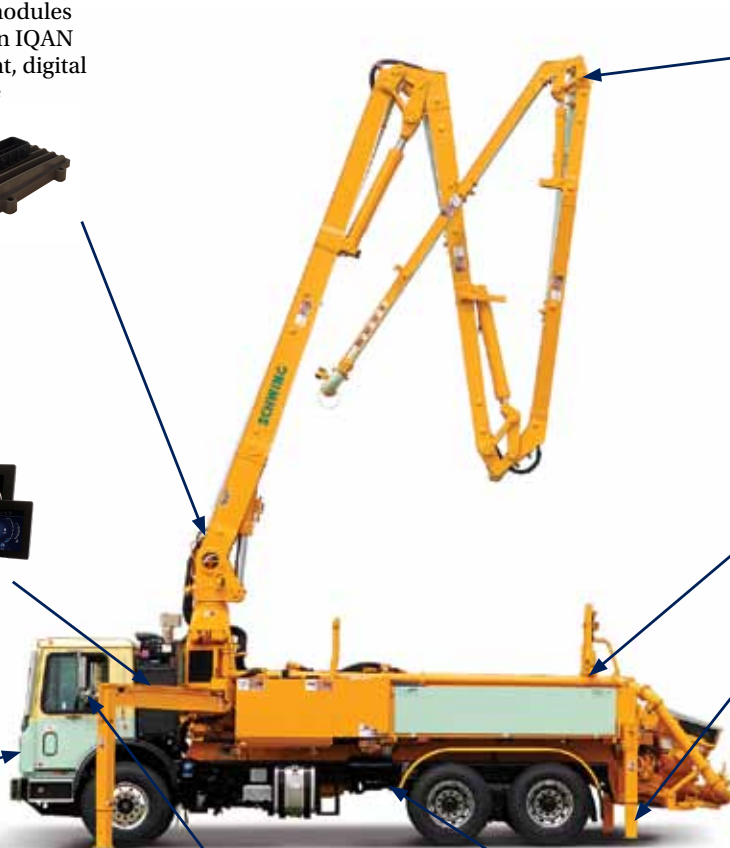
UTS two axis tilt sensor with CAN provides platform level feedback for auto leveling to reduce setup time and level monitoring to help with boom stability during operation.



FP2000 and FP3000 ferrous proximity switches detect outrigger position to ensure stability during boom operation.

The IQAN-MC4x is a family of master controllers in the IQANdesign platform. There are 3 versions that can be used in different ways to meet the requirements of any system.

- MC41 for cost efficient task oriented control
- MC42 mid-size applications and I/O distribution
- MC43 large centralized control saves valuable space



Compact linear lever LST offers smooth auxiliary control function with a small footprint on the operator console.



RM50 tamper resistant tilt switch indicates hood or access panel position to lock out functions for safer machine maintenance.





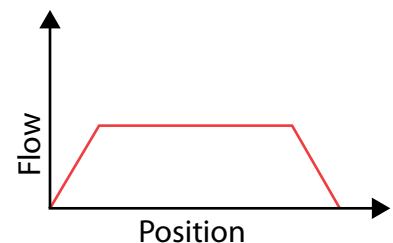
Boom position sensors and two axis level sensors help improve pumper productivity through automated home/stow positioning and auto leveling. Cylinder end-of-stroke dampening helps reduce boom fatigue and shortens boom placement time through smoother operation.

### Control System, Summary

- Remote Diagnostics
- Simple fault finding
- Logging functions
- Auto positioning/stow
- Cylinder end damping
- Reduced power consumption
- Limp home functions
- Speed dependent ramps
- Simplified controls
- Modular system architecture

### Cylinder end dampening

- Automated flow reduction at end of stroke
- Automated flow reduction based on boom position
- Smoother boom movement
- Extended boom life



# Engineering Your Success

With intelligent and innovative solutions.



Whether for off-highway equipment or over the road truck and bus applications, Parker's Electronic Motion & Controls Division offers full system solutions and products to fit your needs. With worldwide engineering and manufacturing capabilities, the Electronic Motion & Controls Division has the experience, skills, and capabilities to provide solutions for virtually any mobile electronic application.

If you would like to discuss your mobile electronics applications, and how Parker's Electronic Motion & Controls Division can offer you a competitive advantage, please feel free to contact us.

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HY33-5053/US 10/2023



Parker Hannifin Corporation  
**Electronic Motion & Controls Division**  
850 Arthur Avenue  
Elk Grove Village, IL 60007 USA  
phone 800 221 9257  
[www.parker.com/emc](http://www.parker.com/emc)

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