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# Excavators

Electronic Motion & Controls Division



ENGINEERING YOUR SUCCESS.

# Electronic controls and solutions for excavators

Parker – an experienced partner at your service

## Market Knowledge and Solutions

Parker Electronic Motion & Controls Division's commitment to the excavator industry is clearly demonstrated by the products, the solutions, and the customer service provided. Parker EMC has successfully integrated products that address the needs of excavator manufacturers for many years. We offer innovative solutions for operator displays, and CAN based control systems that increase productivity and optimize fuel consumption.

## Value in Use

Parker has dedicated teams of specialists working globally to design systems, sub-systems 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.

FP2000 and FP3000 ferrous proximity switches detect door closure.



CM3620 control module is an input/output controller that monitors digital, analog, and frequency inputs and controls solid state switched outputs. Integrated CAN ports reduce wiring harness costs and installation costs.



The GS70 is a digital output, non-contact, ferrous sensor and has a wide voltage supply range for mobile hydraulic applications.



The RS70 is a dual output, non-contacting rotary position sensor that can be used to detect angular position in many mobile hydraulic applications.



PHD display family are rugged, general purpose displays offering full color, touch capable screen with built in CAN and I/O. The PHD displays offer a robust design to withstand the conditions found on today's mobile, off-road equipment.



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.





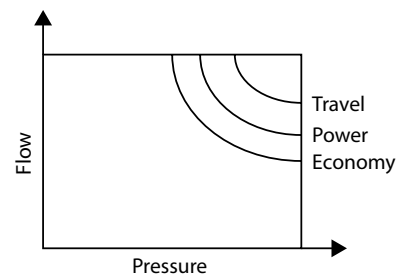
Monitoring engine loading and hydraulic pressure allows the control system to improve digging productivity while working to optimize fuel consumption.

### Control System, Summary

- Remote diagnostics
- Simple fault finding
- Logging functions
- Reduced power consumption
- Load dependent ramps
- Simplified controls
- Modular system architecture

### Horsepower Control

- Engine RPM
- Hydraulic pressure



### Reduce fuel consumption, improve productivity

- J1939 throttle control to match hydraulic loading
- Hydraulic system control to match engine loading
- Accurate control of multiple fans, electric or hydraulic
- Control of AC/DC driven functions to reduce engine loading

The Electronic Controls Division has global capabilities and extensive design and manufacturing expertise. Our in-depth understanding of mobile electronics makes us ideally suited to offer full, mobile electronic systems for excavators.



# 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 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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