

# Your automation partner for mobile automation

The demands placed on commercial vehicles have evolved dramatically over the years. With new functions being added all the time and requirements for operating efficiency and quality higher than ever, these vehicles need an automation system that is both powerful and scalable.

Our new mobile automation lineup gives you all the tools you need to build and defend your competitive edge as a technological leader in your market. With an innovation-driven technology partner at your side, your mobile equipment will stand out with best-in-class electronics and software.

Every aspect of the B&R automation system is designed for modular, concurrent engineering. This gets your products to market faster and allows you to react flexibly to new requirements and special requests. Decoupled hardware and software make it easy to switch out hardware components at any time. With B&R, you will be satisfying your customer's requirements faster than ever.



Integrated automation  
Global presence  
Solid partnership



Mobile Automation  
Automation solution for Backhoe Loader



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PERFECTION IN AUTOMATION  
A MEMBER OF THE ABB GROUP 

# Automation solution for Backhoe Loader

## Mobile Automation



Technology advancements have paved their way into off-highway and mobile machinery segment comprising of agriculture, mining, construction and infrastructure equipment. There is an increasing demand for connected and smart equipment enabling higher possibilities on the field for such heavy outdoor equipment. However, the heavy vehicle off-highway equipment industry is technology craving at the same time is very cost sensitive. Thus, a fine balance must be maintained for reducing costs and offering best in class features in vehicles.

Off-highway equipment OEMs consistently focus on incorporating innovations and technology advancements in their vehicles such as enhanced controls and safety, fleet management, telematics, connected fleets, connectivity solutions, easier maintenance and diagnostics, virtualization among many other next generation technologies.



### Digitized equipment with secure remote access

- Effective fleet management with added security
- Open & standardized communication for cloud and M2M
- Secure and easy data logging
  - Save equipment data directly to the cloud
- X90 controllers provide secure access to equipment
- Change machine settings and parameters



### Predictive maintenance

- Higher equipment availability
- Reduce unplanned downtime
- Efficient maintenance and diagnostics
- Reduce service costs
- Higher productivity and profitability

**mapp**  
TECHNOLOGY



### Highest software quality

- mapp J1939 prepares important diesel engine data for application
- Develop 3x faster
- Lower lifecycle costs
- Guaranteed software quality

**EPC UA** ETHERNET CANopen CAN  
ISOBUS SAE J1939 IO-Link

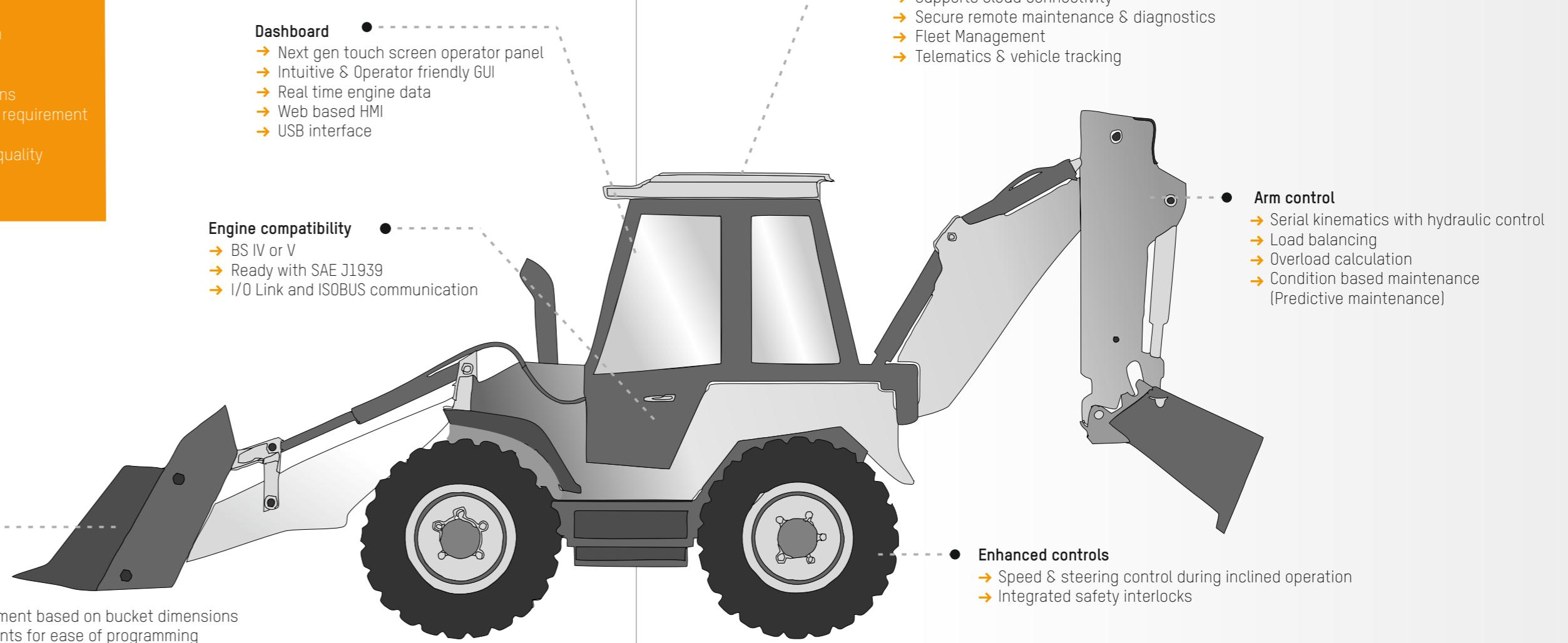


### Dashboard

- Next gen touch screen operator panel
- Intuitive & Operator friendly GUI
- Real time engine data
- Web based HMI
- USB interface

### Engine compatibility

- BS IV or V
- Ready with SAE J1939
- I/O Link and ISOBUS communication



Power panel mobile



Mobile control system



Automation PC mobile



Remote I/O



Option boards

- Suitable for use in harsh environments
- Openness through web standards
- Fast HMI design with mapp View

- Flexible and modularly expandable
- Powerful ARM processor
- Real-time bus system

- Intel processor based controller
- Extremely shock and vibration-resistant
- Edge computing, security gateway, EPR gateway

- CANopen interface
- 32 multifunction inputs and outputs
- Decentralized, compact I/O expansion
- Modular and scalable for future expansion

- Adaptable controller
- Unique control functions
- Extensive selection of modules