The challenge of introducing new technology:

Substitute load cell wiring harness with radio link and more intelligence

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"The name that handles Cordless load management….with determination"
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Standard system on board with harness and slave units

- Screened wires carrying information to slave and cabin units are vulnerable and sensitive to moisture
- Connecting cable between truck and trailer causes operational problems
- All parameter changes must be done by a technician
- No load data, position or speed available via the internet.
- No harsh breaking detection available.
- No compensation for loading when loading zone is not level

“This is a high maintenance system”
The preferred loading procedure

- Driver is constantly assisting the crane driver and keeps tab on the weight of the load

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• The display in the driver cabin is simple and axle overloads will turn the display to red.

• Similar hand held remote unit can be provided to the driver to control the loading from outside.
Problems currently experienced

- Screened cables between the load cells and the control units are vulnerable during the loading process.
- Damaged cables cannot be repaired in-field.
- Small analogue signals are very sensitive to moisture.
- Cable between the truck and the trailer is vulnerable during the operation.
- Setup and calibration procedures must be carried out by a technician.
- Load data, truck location speed and harsh breaking not available on the internet.
Innovation’s developed to target the problem

- Digital **watch type weight display** for both operators
- Radio signals transmitting data
- Low system maintenance

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Radio signals are more reliable than signal cable and cable connectors.

Tx modules are battery powered.

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Advantages gained

- Optimal loading
- Increased operator / driver participation
- Load data available on the internet every 2 minutes
- All set-up parameters can be done over the air.
- Any smart device can couple to the truck with Wi-Fi to set the scale up
Smart device

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Conclusion

By making the onboard weighing Intelligent and Cordless, focus will move from

“HIGH MAINTENANCE”

to

“LOW MAINTENANCE”

thereby adding substantial value to the supply chain