

Case Study
(2-Minute Overview)

R&M's Spacemaster[®] SX Electric Wire Rope Hoist in a Special Dual Hoist Application



OVERVIEW: The project required a 3-ton single girder top running crane with two 3-ton wire rope hoists that measured and restricted the hoist's combined total capacity to 3-ton. In one application the hoists would be operated independently with a capacity of 3-ton per hoist. In the other application the hoists would be used in tandem with a combined total capacity of 3-ton.

"R&M's load monitoring system turned out to be the perfect solution for this application. R&M provided us with an economical answer to what could have become a very costly application."

To date our client has been extremely satisfied with these systems."

Crane Builder



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Features/Benefits Provided:

HoistMonitor Elite

- **Summing Overload Protection**
- **Overload Condition Alert**
- **Red Light and Horn**

SOLUTION: R&M provided a QX Modular Crane Package utilizing two Spacemaster[®] SX electric wire rope hoists with the optional HoistMonitor Elite (a control device that provides advanced diagnostic information and customized functionality to hoist and crane operations) on each hoist and an overload condition alert on the crane. A feature of the HoistMonitor Elite is "Summing Overload Protection". This feature was used to protect the crane from an overload condition where the sum of the lifted loads of the two hoists could be greater than the rated capacity of the crane. If an overload condition occurred, the HoistMonitor Elite prevented lifting and sent a signal that enabled both a red light and horn, alerting the operator of the overload condition.

Innovation ...

Performance ...

Reliability

WRAP UP: The R&M HoistMonitor Elite used load summation to limit the total combined capacity of the hoists to 3-ton while still allowing the hoists, when used independently, to operate at their individual 3-ton maximum capacity.

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