

**CraneSTAR<sup>®</sup>**

**Features and Benefits**



# Ultimate crane monitoring, wherever you are

Manitowoc CraneSTAR is one of the most extensive crane asset management systems available today, leading the future of data monitoring and utilization planning for crane owners around the world. With CraneSTAR, you can track the productivity, security and performance of your equipment virtually anywhere. That means you can focus more on growing your business and your bottom line.





# Why use CraneSTAR?

## Key features and benefits

CraneSTAR gives you up-to-date crane fleet information, no matter where you or your cranes are located\*. You can monitor your asset's current location and working conditions; plan maintenance and verify working hours; and maximize your company's efficiency, productivity and profitability.

## Other benefits include:

**Fleet Management** – Improves your asset utilization

**Machine Location** – Allows you to identify where your equipment is working

**Lift Monitoring** – Reports exact amount your crane is lifting

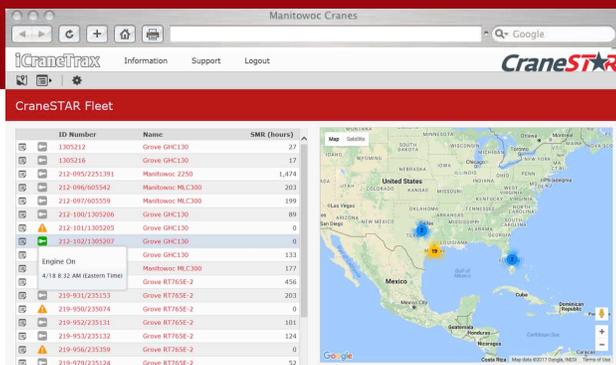
**Work Monitoring** – See how productive your cranes are with real data

**Machine Performance and Maintenance** – Be assured your cranes are working in top shape

*\*Subject to local cellular coverage availability.*

# Machine data anywhere, anytime

CraneSTAR puts your crane data right at your fingertips, wherever you are. Using a world-wide cellular data transmission network, you can monitor where your cranes are working, their fuel status, their working status, their load capacity and more. With CraneSTAR, you can effectively manage your fleet and easily track equipment activity. It provides actual operating data that can be used to increase productivity and profitability so you can feel confident about your business.



ID Number	Name	SMR (hours)
1305212	Grove GNC130	22
1305216	Grove GNC130	17
212-090/2251391	Manitowoc 2250	1,474
212-096/605542	Manitowoc MLC300	203
212-097/603559	Manitowoc MLC300	199
212-1001/305206	Grove GNC130	89
212-101/1305205	Grove GNC130	0
212-102/1305207	Grove GNC130	0
Engine On	Grove GNC130	133
4:14 8:12 AM (Eastern Time)	Manitowoc MLC300	177
	Grove RT765E-2	456
219-9312/25153	Grove RT765E-2	203
219-950/235074	Grove RT765E-2	0
219-952/235131	Grove RT765E-2	101
219-953/235132	Grove RT765E-2	124
219-956/235359	Grove RT765E-2	0
219-979/235124	Grove RT765E-2	52

## How does CraneSTAR work?

1. The CraneSTAR components monitor operational conditions
2. The CraneSTAR unit sends the crane's data via the local cellular network
3. The communication transfer lets you access your information from anywhere

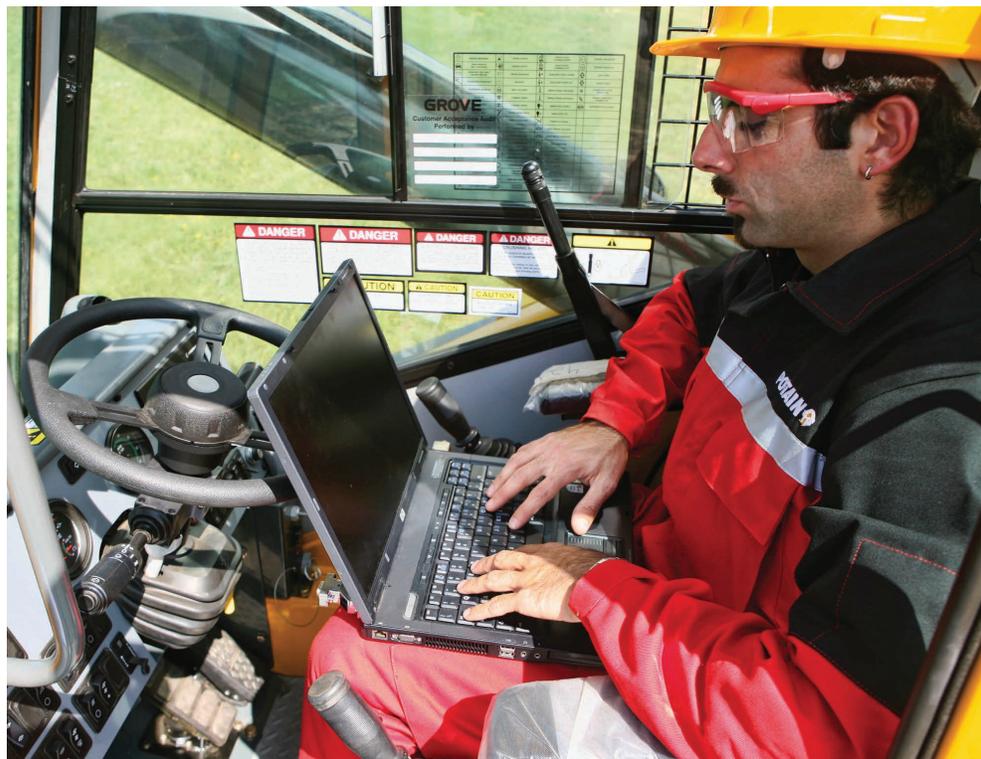


# How CraneSTAR helps you... make more money

When you know the working status of your equipment, you can make choices that positively impact your profits and productivity. CraneSTAR provides you with a working record of:

- Fuel consumption per hour
- Crane work time
- Operation status
- Load levels and information
- Cautions and alerts
- Service Meter Readings (SMR)

Knowing how your cranes are working helps you decide how you can better use your equipment, reduce downtime and become more efficient. Only CraneSTAR can give you the ultimate peace of mind and the answers you need to make more profitable business decisions.



# How CraneSTAR helps you... keep your crane secure

Manitowoc knows that the security of your crane is a top priority. With CraneSTAR, you are ensured a number of measures that reduce the possibility of misuse or theft, including interactive map and location reporting.

CraneSTAR uses cellular data transmission to relay the location of your crane virtually anywhere in the world.

Knowing where every piece of your equipment is at all times not only helps you keep track of your fleet, it helps eliminate worry over security concerns.

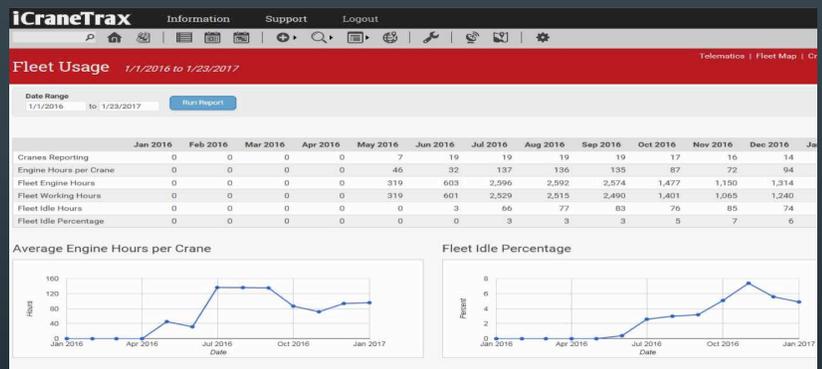
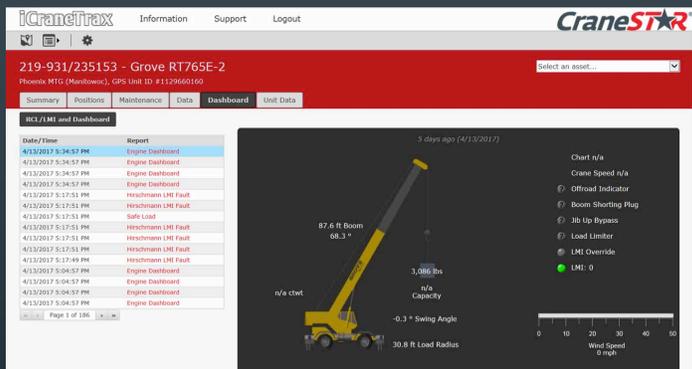
The screenshot shows the iCraneTrax web interface. At the top, there are navigation links for "Information", "Support", and "Logout". Below the navigation bar, the crane model "Grove RT650E (235068)" is displayed, along with the manufacturer "Phoenix MTG (Manitowoc)" and the GPS Unit ID "#789923". A menu bar contains tabs for "Summary", "Positions", "Maintenance", "Data", "Dashboard", and "Unit Data". The "Positions" tab is active, showing a table of location history. The table has columns for "Date/Time", "Heading", "Speed (mph)", and "Address". The data shows the crane's location in Orlando, FL, on June 12, 2017, at various times from 8:44 AM to 2:44 PM. Below the table is a map of Orlando, FL, with a location pin and a search box containing the address "W Colonial Dr & FL-50 & US-92, Orlando, FL 32801, USA".

Date/Time	Heading	Speed (mph)	Address
6/12/2017 2:44 PM	●	0	679-699 N Garland Ave, Orlando, FL 32801, USA
6/12/2017 1:44 PM	●	0	W Colonial Dr & FL-50 & US-92, Orlando, FL 32801, USA
6/12/2017 12:44 PM	●	0	W Colonial Dr & FL-50 & US-92, Orlando, FL 32801, USA
6/12/2017 11:44 AM	●	0	W Colonial Dr & FL-50 & US-92, Orlando, FL 32801, USA
6/12/2017 10:44 AM	●	0	W Colonial Dr & FL-50 & US-92, Orlando, FL 32801, USA
6/12/2017 9:44 AM	●	0	W Colonial Dr & FL-50 & US-92, Orlando, FL 32801, USA
6/12/2017 8:44 AM	●	0	W Colonial Dr & FL-50 & US-92, Orlando, FL 32801, USA



# How CraneSTAR helps you... keep your crane healthy

CraneSTAR lets you keep track of every aspect of your crane, which helps prevent maintenance issues and potential breakdowns. With caution alerts, regular maintenance intervals and abnormality codes, you will operate more productively and efficiently.



## Reports and maintenance alerts

You have the option to receive email notifications with operational data on your crane so you can stay on top of your fleet's productivity no matter where you are.

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