ADVANCED REMOTE
WIND MONITORING

CRANE SPECIFIC
LIVE, HISTORICAL & FORECAST WIND DATA

WINDCRANE®

www.windcrane.com

WINDCRANE

CRANE SPECIFIC LIVE, HISTORICAL & FORECAST wind data
in one application with **WORLDWIDE** coverage.

WEATHER CLAIMS DATA

Access to operational site specific wind data. Reduce weather disputes with accurate historical wind data at crane height.

SAFETY FIRST

Remote access to live wind data at crane height. Hazardous weather conditions monitoring and forecast to inform safety operations.

CRANE SPECIFIC FORECAST

Plan for maximum operational time with accurate wind weather forecasts specific to site and crane height.

WIND SPECIALISTS

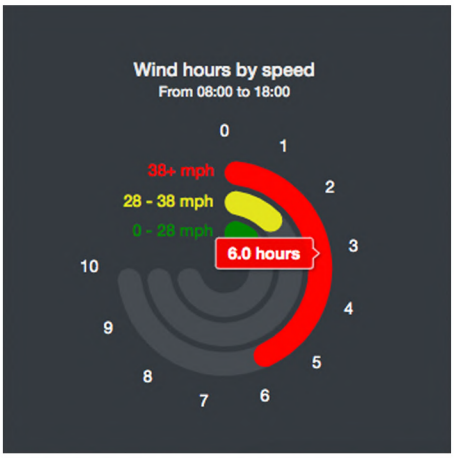
One platform for all your cranes live, historical and forecast wind speeds.
WINDCRANE meets IEC-61400 and BS EN 13000 standards.
Easily share reports with project colleagues.

HISTORICAL WIND REPORTS

Download historical wind speed records specific to cranes and site projects.

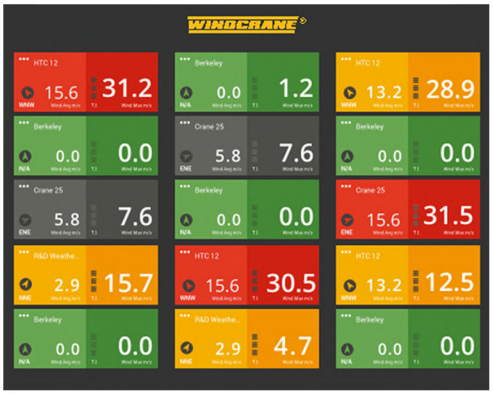
VISUAL REPORTS

- Weekly historic wind report
- High wind risk days over the week
- Total weekly hours of high risk wind



TOTAL HOURS WIND RISK

Easily view total hours per week of high risk and "cautionary" wind speed.



LIVE WIND DATA

Clearly view all your cranes with live wind data and risk colour coding.

Monday, 27 January 2020	Max Speed 34.53 mph	Over red 0 h
Tuesday, 28 January 2020	Max Speed 29.81 mph	Over red 0 h
Wednesday, 29 January 2020	Max Speed 42.35 mph	Over red 1.3 h
Thursday, 30 January 2020	Max Speed 57.77 mph	Over red 6.0 h
Friday, 31 January 2020	Max Speed 38.53 mph	Over red 0.3 h
Saturday, 1 February 2020	Max Speed 30.22 mph	Over red 0 h
Sunday, 2 February 2020	Max Speed 27.49 mph	Over red 0 h

WEEKLY WIND STATS

Daily recorded maximum wind speeds and high wind risk hours.

DOWNLOAD, PRINT & SHARE

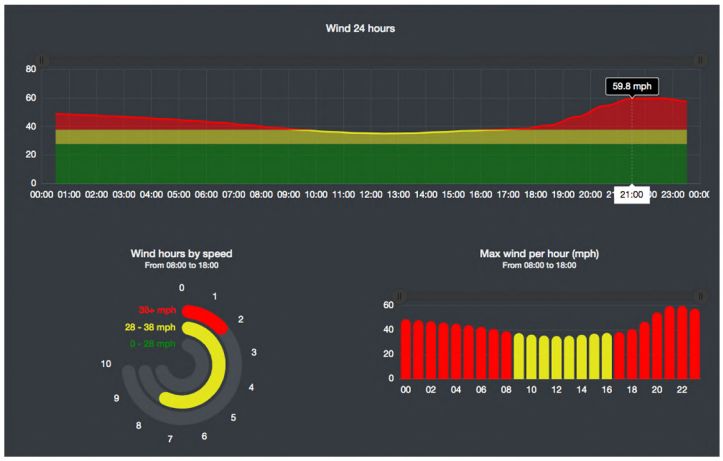
For better planning download, export & share wind speed reports for your cranes.

WINDCRANE is an IoT enabled **WIND SPEED** management **PLATFORM.**

HISTORICAL WIND DATA BACKUP

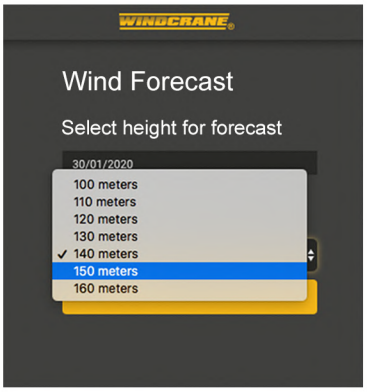
WIND RISK FORECASTING

**Accurate and specific wind risk forecasting data,
reduces crane downtime and supports forward planning.**



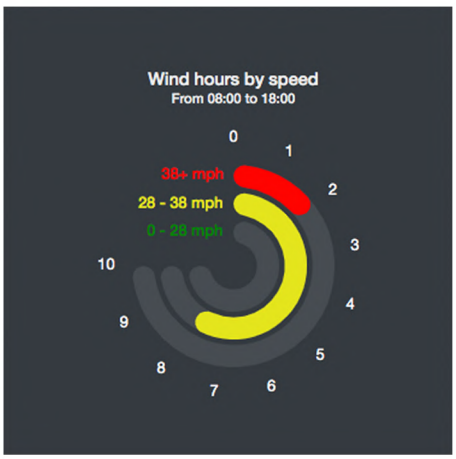
CRANE SPECIFIC FORECASTING

- Week ahead wind forecast at crane height
- High risk wind days forecasting over the week
- Potential total hours of downtime over the week



HEIGHT CALCULATOR

Getting an accurate forecast is essential for safety.Choose the exact height that you need to forecast.



RISK FORECAST

Potential total hours of downtime due to high and ¨cautionary¨ wind risk forecast.

Forecast breakdown per day		
Thursday, 6 February 2020	Max Speed 12.86 mph	Over red 0 h
Friday, 7 February 2020	Max Speed 44.44 mph	Over red 2 h
Saturday, 8 February 2020	Max Speed 76.78 mph	Over red 10 h
Sunday, 9 February 2020	Max Speed 71.79 mph	Over red 10 h
Monday, 10 February 2020	Max Speed 61.76 mph	Over red 10 h
Tuesday, 11 February 2020	Max Speed 66.85 mph	Over red 10 h
Wednesday, 12 February 2020	Max Speed 41.06 mph	Over red 2 h

7 DAY FORECAST

Plan your week ahead including high wind risk hours per day.

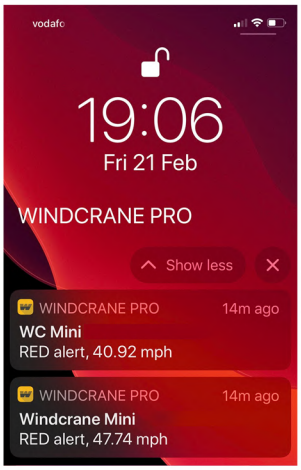
WIND & CRANE HEIGHT FORECASTING TOOL

LIVE WIND MONITORING APP PLATFORM

EASILY MONITOR ALL YOUR CRANES WIND SPEED REMOTELY

ONLINE 24/7 WORLDWIDE

View live wind speed and risk from all your WINDCRANE devices on one dashboard.

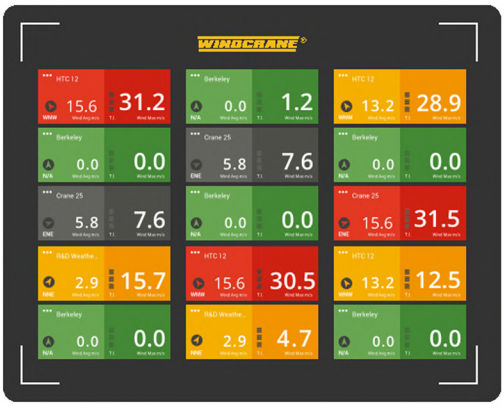


INSTANT NOTIFICATIONS

Receive instant mobile wind alert notifications with live data.

GLOBAL FLEET CRANE MAP

Access site data via global fleet crane map.



WIND SPEED & RISK OVERVIEW

Crane specific colour coded wind data to view historic, live and forecasted wind speed and risk.

LIVE FLEET WIND DASHBOARD

WINDCRANE®

GIVING YOU REMOTE ACCESS TO SITE SPECIFIC WIND DATA SINCE 2007.

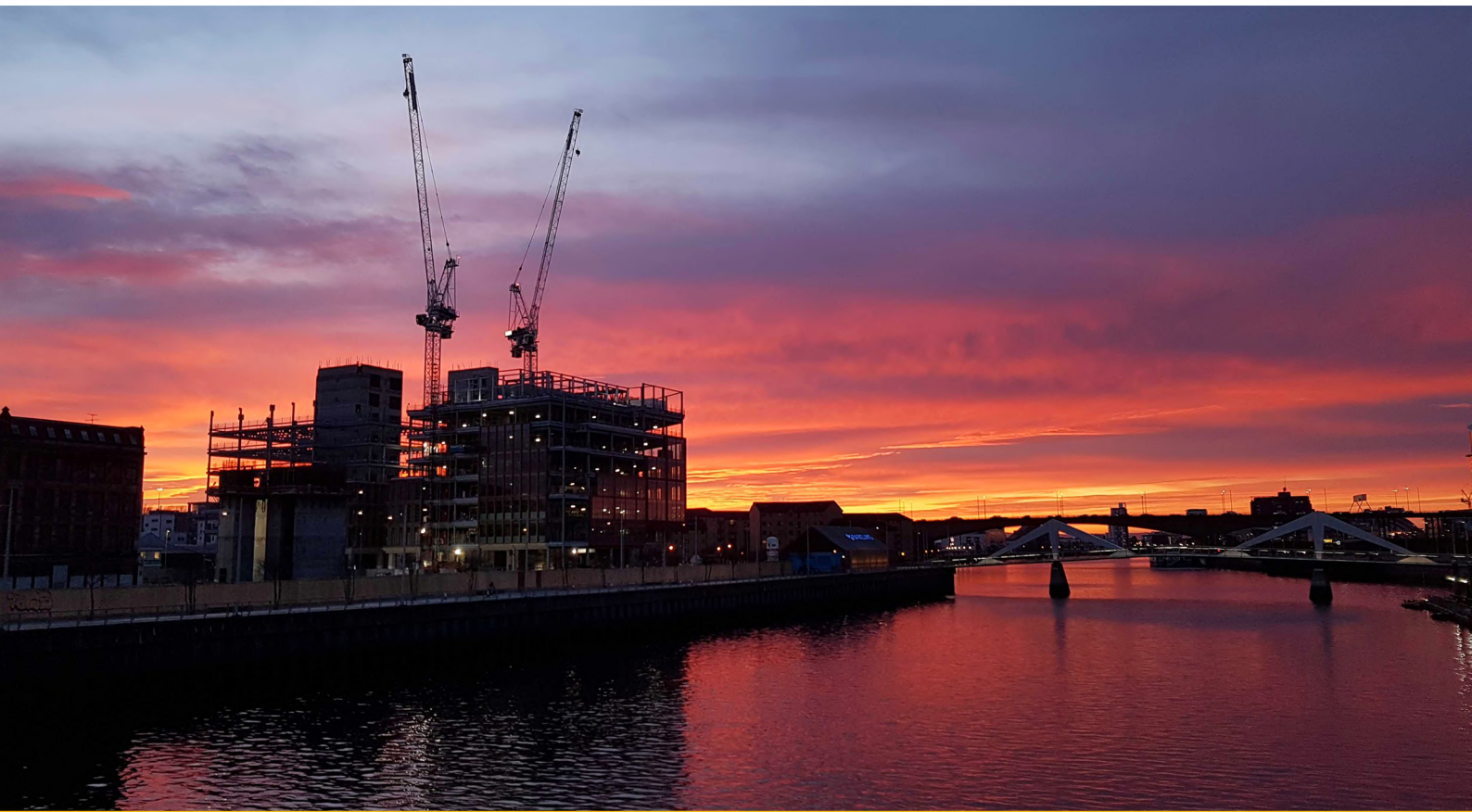
- All our systems are designed to meet the wind standards under IEC-61400 with a resolution better than 0.01m/s and accuracy better than 0.007%

- **WINDCRANE** only uses remote monitoring technology with a global proven track record, that is GSM technology with world coverage.

- Our products have been used in some of the most remote areas in the world from the Antarctica, to Himalayas to the Atacama desert

- **WINDCRANE** platform is powered by **Logic Energy** IoT experience serving the energy and utility sector.

ACCESS via fleet.windcrane.com, iPhone or Android



ABOUT US WINDCRANE

HARDWARE

WINDCRANE hardware options to fit any crane or structure.
You can connect **MULTIPLE** different **SENSORS** for monitoring almost anything,
from weather stations to energy, water level, pressure sensor, status...

WINDCRANE INCRANE

Designed to be installed inside crane electrical panels. It can measure wind, energy, temperature, etc.

WINDCRANE MAX

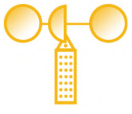
Super tough & weatherproof. Suitable for construction sites, outdoor structures and outdoor events, agriculture, academic research and more.
Can measure multiple sensors.

WINDCRANE MINI

Small, compact & tough. Suitable for cranes, construction sites, scaffolding, hoists, mobile structures, stages and more.

SENSORS & ACCESSORIES

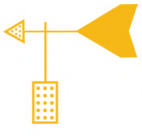
HIGH ACCURACY ANEMOMETER



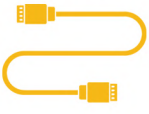
TEMPERATURE / HUMIDITY ATMOSPHERIC PRESSURE

POWER MONITOR

WIND DIRECTION VANE



WINDCRANE HEAVY DUTY CABLE



WARNING LIGHT/ SIREN

IN CRANE DISPLAY

WINDCRANE®

GENERAL WIND STANDARDS

MONITORING WIND SPEED ACCURATELY

Wind forecasting is essential when working at heights and a safety requirement for operating cranes and heavy lifting equipment. It is always advisable to measure the crane specific wind speed and height. The increase of wind speed within cities and chances of turbulent wind gusts are higher than they may feel at ground level.

IEC 61400 requires wind speed to be sampled at 1Hz including maximum and standard deviation. The wind standard deviation is key to measure the wind turbulence profile of the construction site, and for this, accurate measurement systems need to be used.

A key aspect of monitoring wind speed, which is often forgotten is when the crane is out of operation. Many accidents occur when the cranes are unmanned during a sudden change of wind profile at site. This is why it is so important to measure, record and alert any changes of wind 24/7.

In general major contractors, crane manufacturers and the Health and Safety Executive recommend a maximum wind speed for tower cranes at 38mph (16.5m/s or 60kph) and completely prohibited over 20m/s (45mph or 72kph).

This criteria is used in our general colour coded reporting tools.
These can be edited as per your requirements. To meet the IEC-61400 standards criteria, the anemometer needs to be measured at 1Hz (at least once every second), for this rapid signal sampling rate, a wired anemometer is always preferred over a wireless one.

WINDCRANE units have an accuracy better than 0.007% and a resolution better than 0.01m/s for wind speed measurement.

WINDCRANE is a reliable fully wireless wind speed system, with a global reach using the GSM network and manufactured under ISO 9000 standards.

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ANDROID APP ON Google play

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