

CROA Crane Operator Assistant

The Crane Operator Assistant CROA combines latest technologies to avoid collision of tower cranes and to improve the sight of the operator by providing a live camera picture from the hook

Features:

- Easy to install, no installation of encoders is required
- Easy to configure, via touch panel PC or from remote
- Based on precise satellite positioning system (GPS + GLONASS)
- Visualization on map (e.g. OpenStreetMap and others)
- Dynamic mesh Wi-Fi connection within the units (no signal cables)
- Remote access via LTE / GSM connection
- Power for the camera unit on the hook is generated by the movements of the hook



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The Crane Operator Assistant CROA consists of the following components:

User Unit

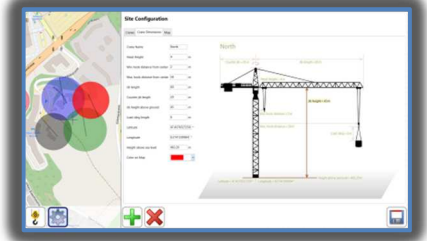
A tablet PC mounted in the cabin of the crane operator on each crane.
It displays the pictures from the hook camera and the information of the collision avoidance algorithm and is used to configure the system.



Anti-Collision View



Normal Camera View



Configuration Mode

Crane Controller

is based on a PLC and mounted in the control box of each crane.
It calculates possible collisions, provides warnings and stops the crane if needed

Jib Unit

is mounted on the jibs / booms of each crane.
It is the Smart Mesh Net link between all units.
It senses the orientation / rotation of the crane.
Wind sensors can be connected.

Reference Station

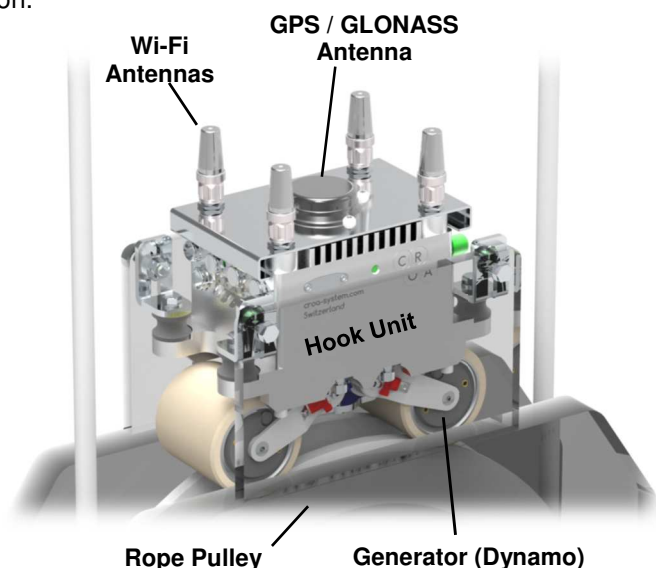
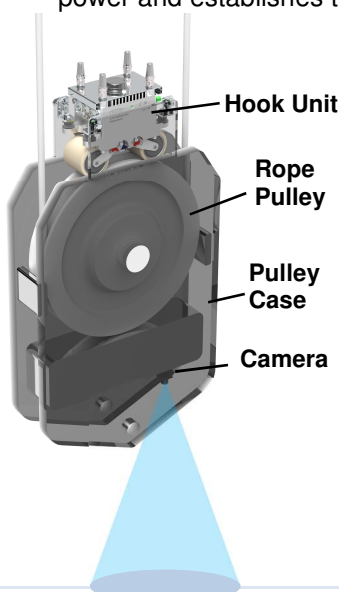
is placed on a fix point on the construction site.
It provides the correction data to reach high accuracy with the GPS / GLONASS receivers on the hooks.
The integrated LTE / GSM module allows remote access, configuration and download of maps



Jib Unit / Reference Station

Hook Unit

is mounted on the pulley case of the hook of each crane.
It measures the position of the hook, provides pictures from the area below, generates its own power and establishes the Wi-Fi connection.



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