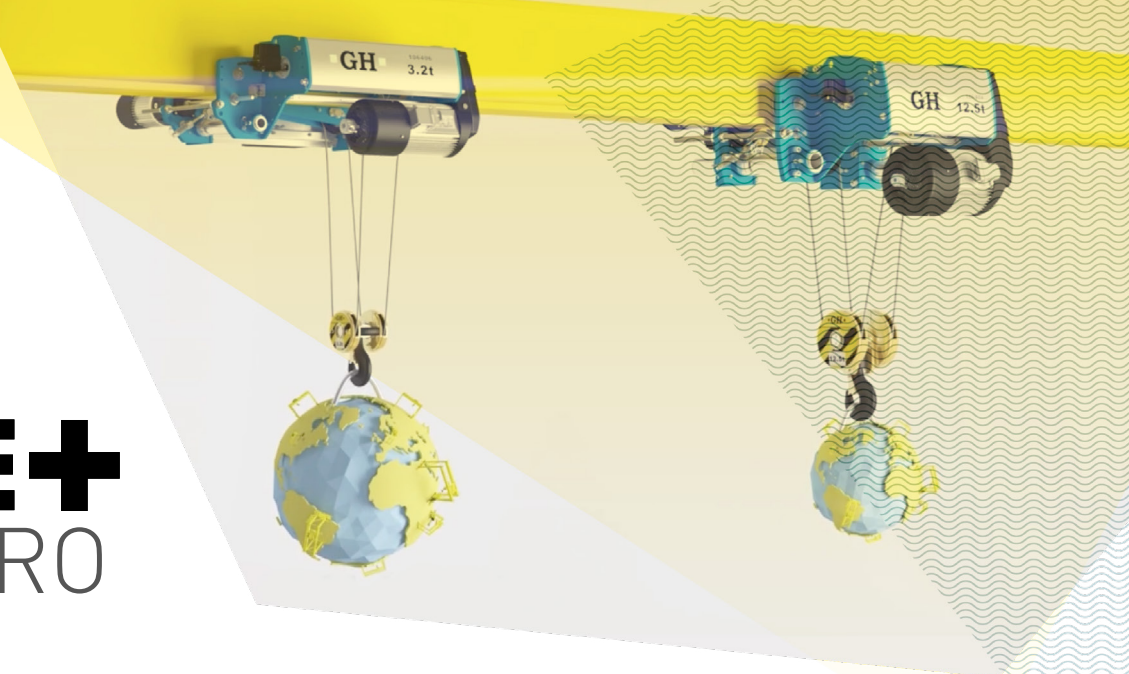


# CORE+ SYNCHRO



## Easier and safer handling of large loads **using 2 hoists**

### + **GH'S SOLUTION:** CORE+ SYNCHRO

- Automatically keeps relative distances between hooks. Both horizontally and vertically.
- Works with 2 hoists of same or different capacity, operating in same crane.
- Touch-screen: easy configuration and crane monitoring (power consumption, alarms, system faults).
- Easy to retrofit existing cranes. The CORE+ unit is affixed to the electrical panel door.

### + **ADVANTAGES**

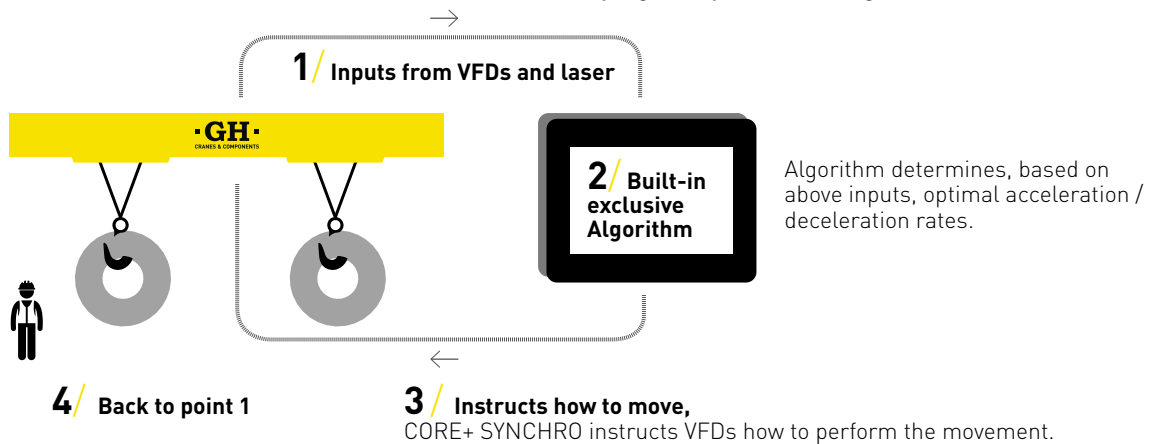
**No need to make manual adjustment of relative position between hooks → Increased Productivity and Safety.**

- Hassle-free for operator: maintains relative positions automatically.
- Minimal sensor requirement.

### + **HOW IT WORKS** 1/ **CORE+ SYNCHRO** continuously receives following inputs from VFDs:

- Commands from operator (accelerate / decelerate).
- Actual speeds (hoisting, trolley travel and crane travel).
- Vertical position of each hook (given by the hoisting motor encoder).

- **Relative distance between trolleys (given by the laser rangefinder).**



## TECHNICAL DETAILS

Bi-directional communication between CORE+ and the VFDs for hoisting, trolley travel and crane travel. Connection via CANopen fieldbus. - Software is Upgradable via included USB port. - Requires VFDs for all 3 movements, incremental encoder at each lifting motor, and 1 laser rangefinder. - Does not require expensive or failure-prone sensors. Maintenance-free. - Closed-loop control: Maximum error in lifting 10mm. Maximum error in cross travel 50mm. - Works with 2 hoists in the same crane. - System can be easily connected/disconnected (using touchscreen or optional remote control).