

CORE+ STABILITY

An effective system to **keep the load more stable** at higher speeds

+ **GH'S SOLUTION:** CORE+ STABILITY

- Effective for both trolley travel and crane travel.
- Effective to reduce sway due to both acceleration and braking.
- 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**

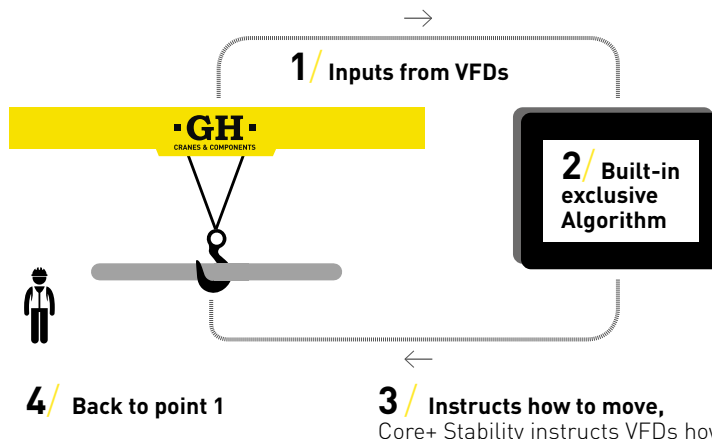
Higher speed + Better accuracy = Increased Productivity and Safety.
Hassle-free for operator: System reduces sway automatically.

+ **HOW IT WORKS**

1/ **Inputs from VFDs.**

CORE+ STABILITY continuously receives following inputs from VFDs:

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



Algorithm determines, based on above inputs, optimal acceleration / deceleration rates.

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, and hoisting motor encoder. - Does not require expensive or failure-prone sensors. Maintenance-free. - Open-loop control: will not detect / correct sway due to external factors. - Automatically disconnects at low-speed motion to ease load positioning. System can be easily connected/disconnected (using touchscreen or optional remote control).