

HOW DID

A cow evolve into one of the planets smartest animals?

Powerful neural adaptations for more sophisticated computational strategies.



Mobile Harbour Crane Drive Upgrade Retrofit

A new generation hard- and software fix for all MHC crane drives that will increase productivity by reducing downtime.

Intelligence. Evolved.



ADAPT AND THRIVE

Konecranes is the premier **port services** provider to brownfield terminal developments. Our range of retrofit products will enable your fleet to adapt to a fast-changing environment. Welcome to your **evolution**. Small, incremental changes that enable existing fleets to continue to adapt and thrive.

MHC Drive Upgrade Retrofit

Extend the life of your 2- and 4-rope cranes with new, customized drive systems. A solution with new technology and spare parts that will be available for the next 10 to 15 years.



EQUIPMENT

This retrofit is available for all Gottwald MHCs delivered since the early 2000s and where the drive systems are obsolete.

This is a standard retrofit but **drive configurations depend on:**

- Whether it is a 2-rope or 4-rope.
- The power and supply voltage.

WHY UPGRADE YOUR MHC'S DRIVE?

After 10 to 20 years, the crane's steel structure is often still in good working condition and could be used for some years to come.* **But**

- Specific crane components are getting old and obsolete.
- It is increasingly difficult to find original spare parts.
- Spare parts and support from the drive's original equipment manufacturer (OEM) are no longer available, negatively impacting the crane's availability and terminal productivity.
- + Decreased downtime means increased productivity. Running your crane until it breaks down can result in several months' unnecessary downtime.

* Assuming normal usage and conditions.



For AC-drives



For DC-drives



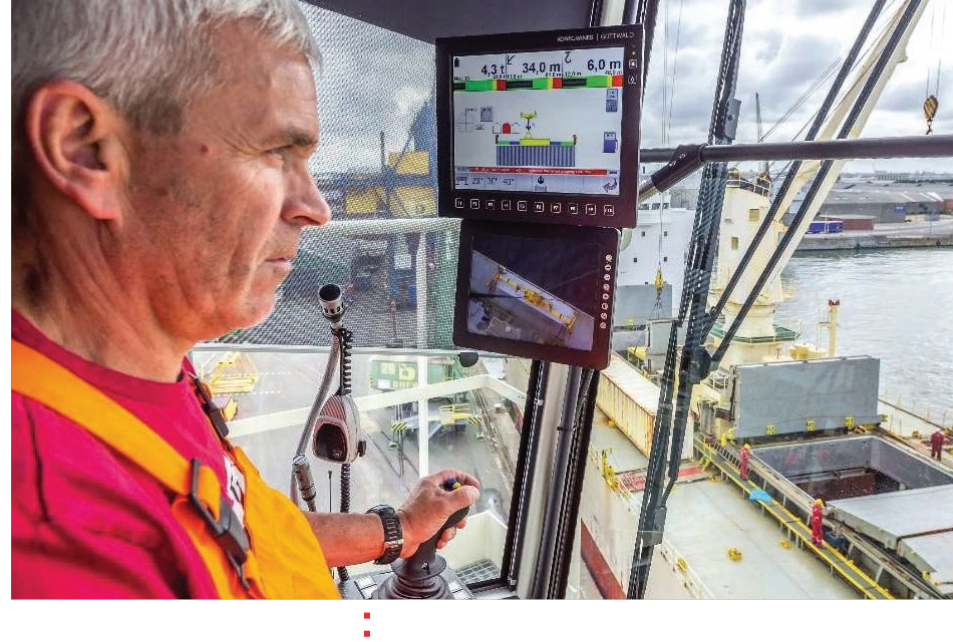
VISUMATIC®



BENEFITS

- The MHC Drive Upgrade includes:
 - Supply unit for drive system (smart line module), i.e.
 - Motor modules for cable drives.
 - Control units and operator panel.
 - Sensor modules for encoders.
- Update to the latest IPC for the crane's visualization system is included as standard, **including** for those cranes that do not already have one.
- The new IPC comes:
 - With VISUMATIC8 software
 - With a monitor for the electrical control room, keyboard, mouse, and UPS.
 - Ready to connect via TRUCONNECT Digital Services to yourKonecranes

- DC drives for hoisting and slewing
- Optional DC drive for variable braking resistors.
- For 4-rope cranes, includes an additional control unit for DC drives.
- Optional variable braking resistors (VBR) can be integrated with the existing system.
- This retrofit is a turn-key solution that includes:
 - Installation, testing and commissioning.
 - Technical documentation and training support.
- Konecranes guarantees spare parts support.
- Decreased downtime means increased productivity.



WHAT YOU NEED TO KNOW

- The MHC drive retrofit is delivered with industrial internet capabilities as standard.
- For all DC drives, line fuses are replaced and, as necessary, circuit breakers, contact, etc. are modified for the new equipment.
- For AC drive cranes, there is a feedback unit that can potentially feed regenerative energy back into the grid.
- The Variable Braking Resistor system can be added to your MHC upgrade as an optional extra.
- On 4-rope cranes, the upgrade includes an additional control unit for DC drives as standard.
- Timeframe:
 - From order to delivery = 4 to 6 months.
 - Downtime = 2 to 3 weeks per crane, depending on the crane.
- Customers must:
 - Supply the correct order number and information about the crane's availability.
 - Provide an appropriate storage area for components during the upgrade.
 - Hand over the crane to be upgraded in a fully functional condition and with sufficient diesel fuel to facilitate the commissioning.

SELECTED REFERENCES



Year	Customer/Location	Quantity
2-rope		
2022	Eimskip / Canada	1
2022	P/F Faroe Ship / Faroe Islands	1
2022	DP World / Mozambique	1
2022	GulfTainer / UAE	2
2022	Gulf Stevedoring / USA	1
2022	Logistec Palmetto / USA	2
2021	DP World / Dominican Republic	2
4-rope		
2022	ARTC / USA	1

Ports. Evolved.

KONECRANES®



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