Modernize your crane

Modernizations prolong the economic service life of your crane. They can provide a complete transformation of your existing crane as an alternative to replacing it and give you an opportunity to add current technologies.

The decision to modernize should begin with a Crane Reliability Study. The CRS provides a detailed analysis of your crane in relationship to its application and will help identify the most appropriate system upgrade and corresponding modernization plan.

Electrical upgrades

1. Motors
Our motors are specifically designed for crane duty and lifting motions. They can tolerate high starting currents without overheating, making them suitable for the frequent starts and stops required in crane operations.

2. Control system upgrade
Upgrade to a variable frequency drive. Air-conditioned E-room with variable frequency controls is available for severe applications.

3. Festoon system or energy chain
Festoon systems increase safety by replacing wear-prone open conductors and collectors. Energy Chain protects the power and control cables from mechanical wear and reduces the risk of external damage.

4. Limit switches
Prevent the hook block from damaging the drum. Bridge and trolley travel limit switch protection. Collision avoidance systems, zone control and automation.

5. Continuous monitoring
Brake and Rope Monitoring Units (BMU, RMU) can be added to monitor wear of specific components. Konecranes TRUCONNECT Remote Monitoring can include condition monitoring, alerts and operating data in real time.

6. Radio control
Floor-operated controls allow the operator ease of mobility and a good view of the load. The controls can be equipped with real-time load data.

7. Remote Operating Station (ROS)
Crane controls can be located away from the crane, e.g. in challenging or dangerous environments for the driver, such as waste bunkers and hot metal handling.

Mechanical upgrades

8. Open winch trolley
When processes change or components are nearing the end of their service life, a new lifting device can make lifting safer and more efficient.

9. Ergonomic cabin and chair
An enclosed insulated, air-conditioned cabin helps provide maximum visibility. An ergonomic console chair offers optimum comfort to the operator.

10. End carriages, bogies and wheel assemblies
Anti-friction bearings help meet increased productivity demands. Our high-capacity end carriages and bogies are designed to lengthen wheel life and improve crane tracking. Protect the crane and the building by installing hydraulic or rubber buffers.

11. Traveling machineries
Drives can be upgraded with heavy duty foot-mounted gearboxes. Shaft-mounted motor reducers can also be applied to eliminate cross shaft maintenance and alignment issues.

12. Hoisting machinery
Uprating lift capacity and speed. Our cranes are built around the Core of Lifting, the package of key components—gears, motors and controls—that we design and manufacture in-house.

13. Self-adjusting, bonded non-asbestos, self-aligning brakes
These brakes reduce maintenance by automatically compensating for lining wear. Includes electric/hydraulic shoe, or electric release disc brakes.

14. Platforms
Increase safety and maintenance accessibility by adding or improving platforms.

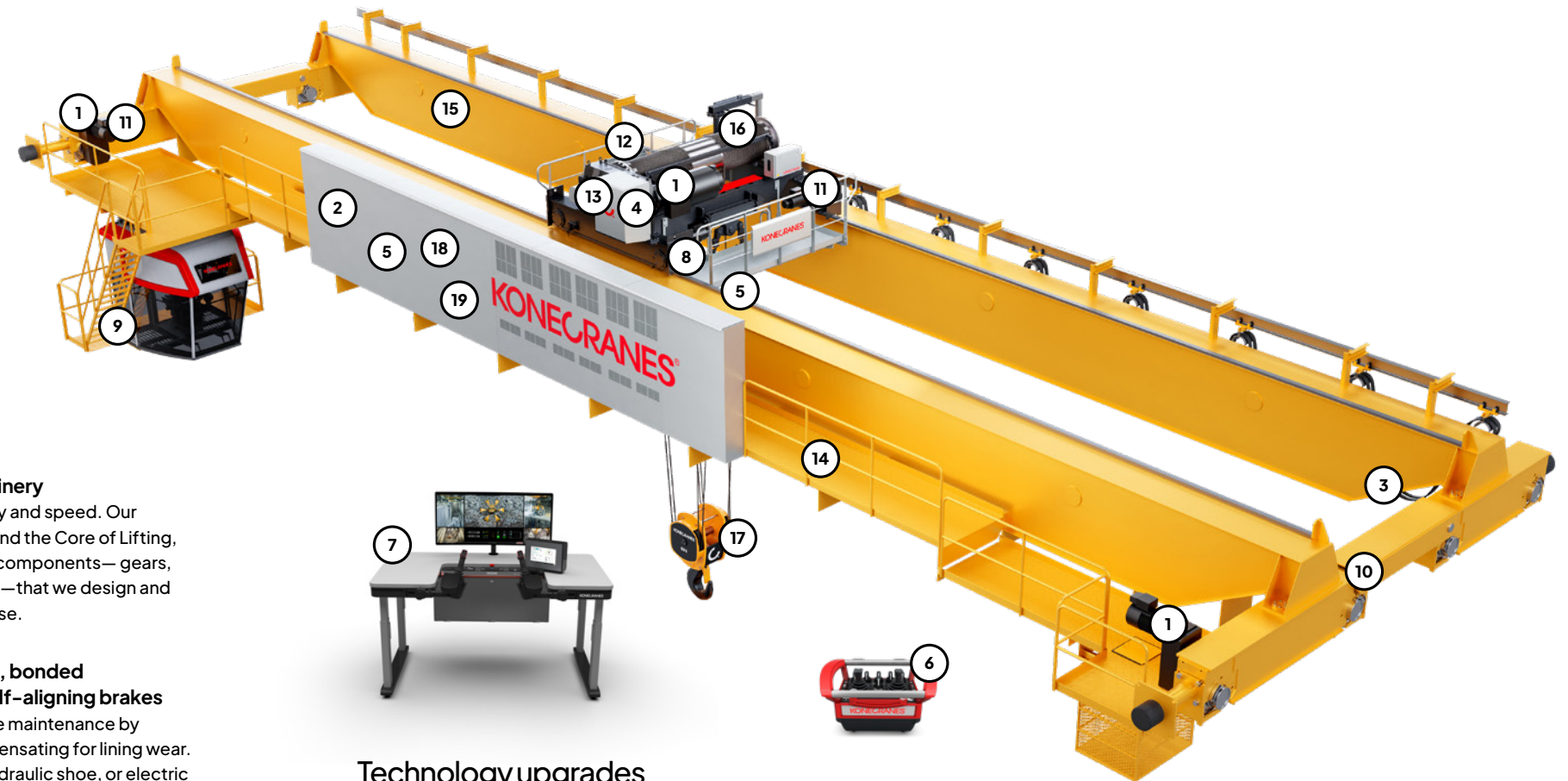### 15. Girder modifications and reinforcements
We can increase or decrease the length of the girder span, which may be required during building expansions or when fitting a used crane into an existing building. We can also provide structurally improved end ties and end carriages for severe applications to address fatigue and repair issues.

16. Hoist drums
Redesign drums for upgraded capacity and performance. Hardened drums are available for demanding applications.

17. Hook blocks
We offer hook blocks in a wide variety of sizes and configurations, including rotating blocks or specially designed blocks for severe duty applications. We also offer common wear items such as hooks, frames, pins, sheaves, bearings and safety latches.

Technology upgrades

18. TRUCONNECT Remote Monitoring
The TRUCONNECT Modem Upgrade has been designed to equip a crane with a modem for TRUCONNECT Remote Monitoring. TRUCONNECT Remote Monitoring uses sensors to collect data, such as running time, motor starts, work cycles and emergency stops, providing visibility to crane usage.
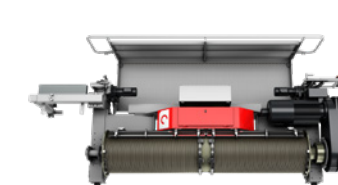
19. Smart Features
Smart Features are Konecranes designed add-ons that work together or individually to improve safety, cycle time and load positioning. They add intelligence to your crane with purpose-built software and hardware. Smart Features include Sway Control, Assisted Load Turning, End Positioning, Restricted Areas and more.

20. Safety Features
Tailored solutions are available to improve the level of safety or to comply with the latest requirements, also for the most demanding applications.

Open winch and hoisting trolley upgrades

We have solutions for all applications from light lifting equipment to heavy duty processes. Specialized solutions include GL trolley for waste to energy and biomass, CXT and DH hoist for light duty lifting, completely customized LV solutions for any need, and more.

SMARTON trolley
The SMARTON trolley is built for heavy process industries and applications. The motor, gearbox and control unit are designed and manufactured in-house for excellent lifting performance and long life. Trolley frame made of high-quality steel and hoisting machinery built on Core of Lifting components combined with a full range of software-based intelligence offer all-around exceptional performance.

Konecranes M-series trolley
The M-series trolley is ideal for heavy-duty process use. It features integrated brake, motor and gear combined into one unit for improved reliability and fewer maintenance points. Our proven Core of Lifting components return high process performance and maximized uptime, while the modular architecture offers excellent accessibility for short inspection times and safe maintenance. The M-series trolley offers several options for different applications such as twin hook trolleys and two hoists on the same trolley.

KONECRANES