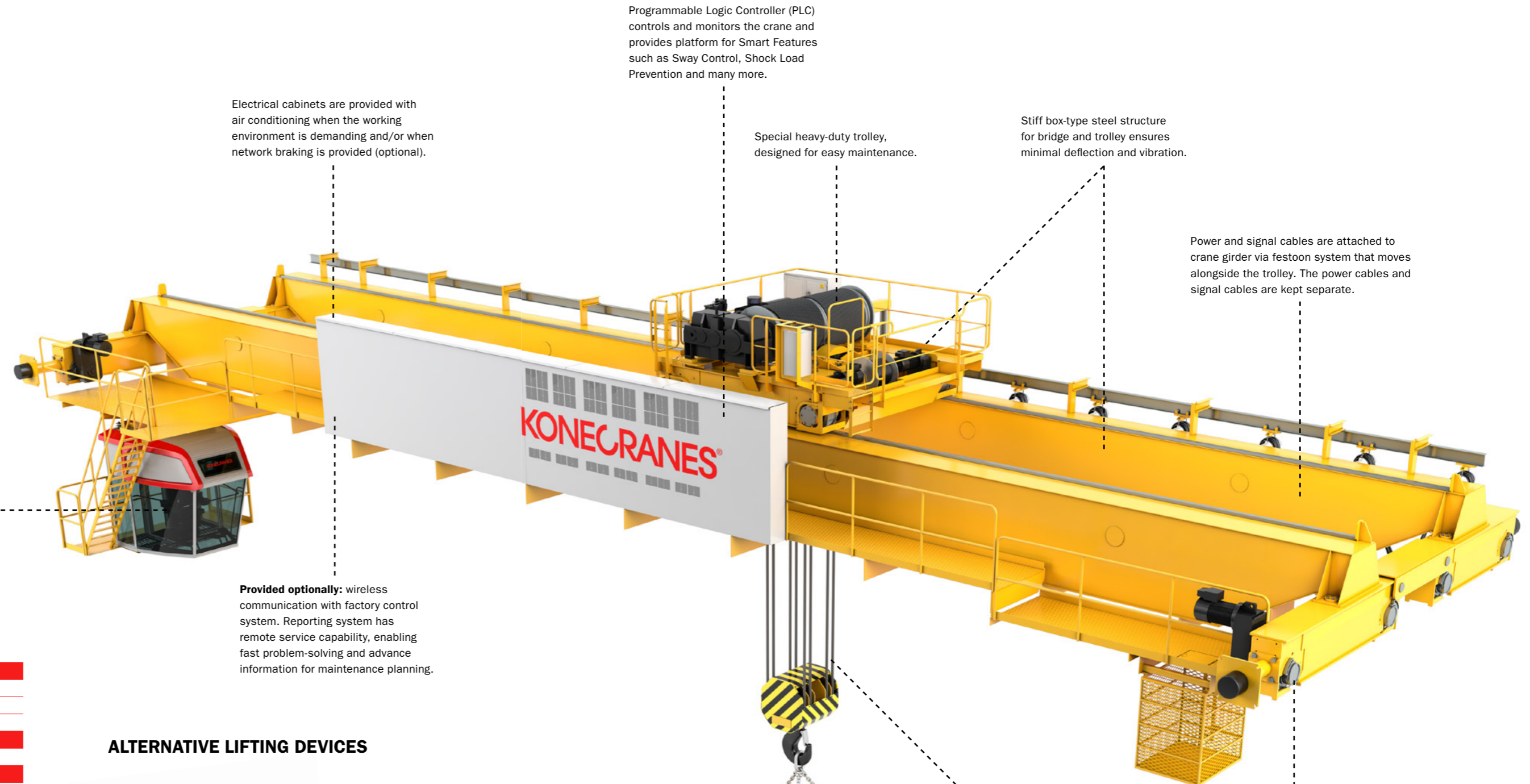


# SCRAP HANDLING CRANES

Scrap handling cranes work in the scrap yard, loading scrap into buckets that are transported to the melt shop. These cranes are typically high-duty, high-speed cranes. Special attention is paid to the crane operator's environment because of the high dust, noise and vibration levels that are typical in the scrap yard environment.



Smarter cabin (optional) provides much improved visibility with a window area increase of 60% and improved ergonomics and comfort.

Electrical cabinets are provided with air conditioning when the working environment is demanding and/or when network braking is provided (optional).

Programmable Logic Controller (PLC) controls and monitors the crane and provides platform for Smart Features such as Sway Control, Shock Load Prevention and many more.

Special heavy-duty trolley, designed for easy maintenance.

Stiff box-type steel structure for bridge and trolley ensures minimal deflection and vibration.

Power and signal cables are attached to crane girder via festoon system that moves alongside the trolley. The power cables and signal cables are kept separate.

Provided optionally: wireless communication with factory control system. Reporting system has remote service capability, enabling fast problem-solving and advance information for maintenance planning.

Heavy-duty hook block for safer, reliable attachment of lifting devices.

End-carriages/bogies are heavy-duty, with surface-hardened wheels.

## ALTERNATIVE LIFTING DEVICES



Magnet



Grab

Fast swapping of lifting devices.

|   | Tailored heavy-duty crane                  | Typical             |
|---|--|---------------------|
| <b>Classification</b>   |  |                     |
| Working cycles (EN13001-1)                                    | Up to 8 million                            | 1–2 million         |
| Load spectrum (EN13001-1)                                     | Up to Q5                                   | Q4–Q5               |
| FEM 1.001 3rd edition / year 1998                             | Up to M8                                   | M7–M8               |
| <b>Trolley</b>  |  |                     |
| Type  | Tailored open winch                        | Tailored open winch |
| <b>Lifting devices</b>  |  |                     |
| Attached with hook  | Grab/Magnet                                | Magnet              |
| Attached with rope  | Grab/Magnet                                |                     |
| <b>Lifting capacity</b>                                       |  |                     |
| Maximum capacity  | Tailored                                   | 12–40 tons          |
| <b>Main dimensions</b>  |  |                     |
| Span  | Tailored                                   | 20–35 m             |
| Lifting height  | Tailored                                   | 8–20 m              |
| <b>Speeds</b>   |  |                     |
| Bridge travel speeds  | Tailored                                   | 60–140 m/min        |
| Trolley traversing speeds                                     | Tailored                                   | 30–80 m/min         |
| Hoisting speed with nominal load                              | Tailored                                   | 10–40 m/min         |
| <b>Electrical systems</b>                                     |  |                     |
| Bridge power supply   | Conductors                                 | Conductors          |
| Trolley power supply  | Festoon                                    | Festoon             |
| Motor control system  | Konecranes Variable Frequency Drives (VFD) | Konecranes VFD      |
| Electrical braking  | Regenerative network braking units         | Resistors           |
| <b>Control</b>  |  |                     |
| Manual  | Cabin/Radio                                | Cabin               |
| Automated   |  |                     |
| <b>Monitoring</b>   |  |                     |
| Event history recorder in Programmable Logic Controller (PLC) | Standard                                   | Standard            |
| Crane Monitoring System                                       | Option                                     | Option              |