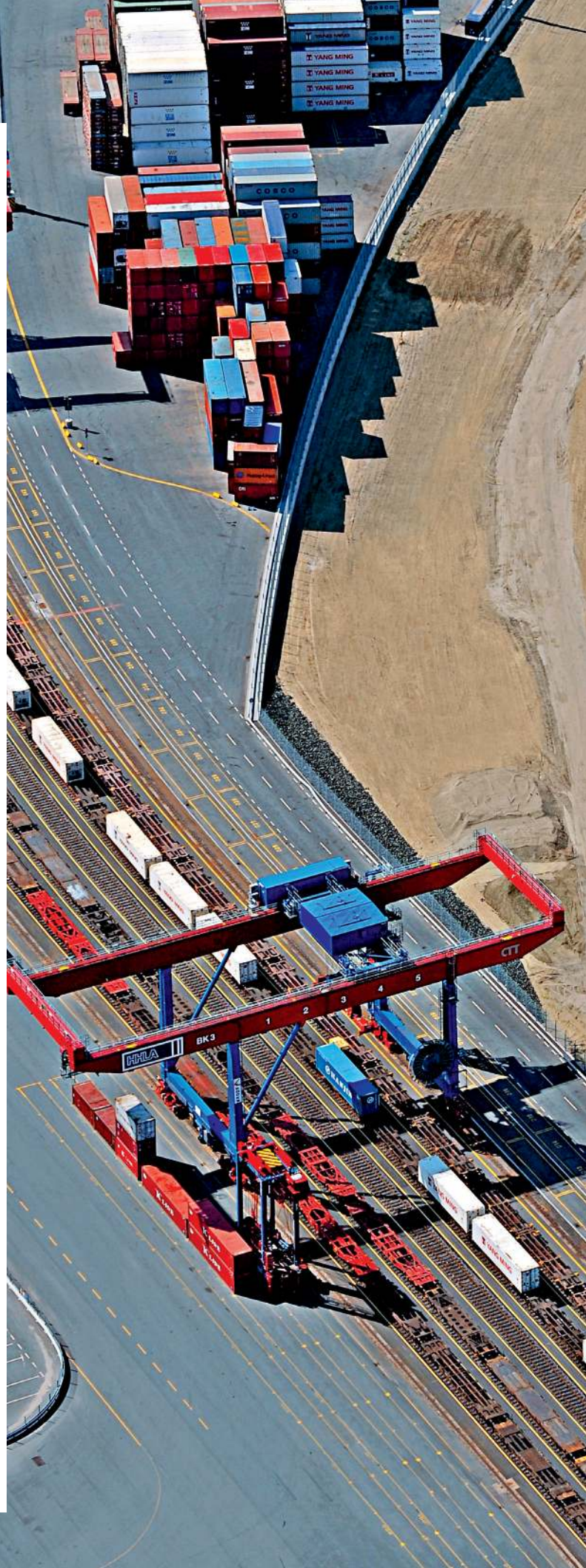
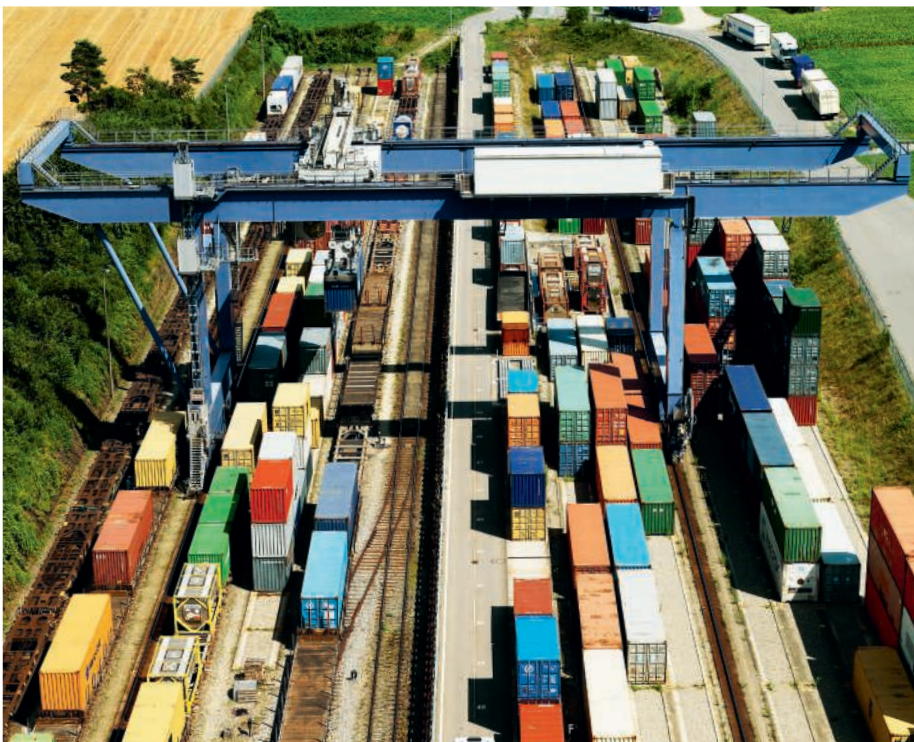


TERMINAL SERVER

DEFINING YARD EFFICIENCY

KOCKS





→ **INFO**

A consistent and reliable crane – an economic solution for all types of yards and terminals:

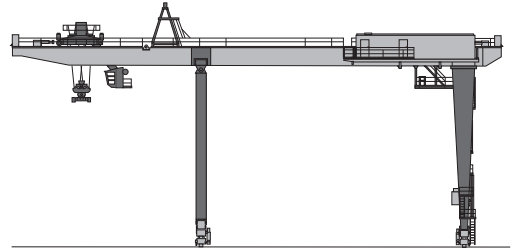
- Zero emission with advanced energy recovery systems
- High operating speed
- High handling capacity
- Pin-point positioning accuracy
- Automation interface
- High availability
- Long service life
- Low life-time cost
- Low dead weight
- Low maintenance

↑
The robust box girder design is perfectly suited to the Terminal Server's mode of operation

THE CRANE CONCEPTS

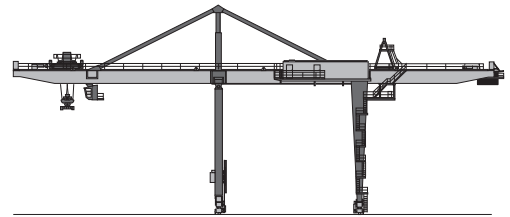
STANDARD*

→ Track	Up to 147 ft	Up to 45 m
→ Cantilever Arm	Up to 39 ft	Up to 12 m
→ Cantilever Arm II	Up to 39 ft	Up to 12 m
→ Hoisting/Lowering	Up to 147/295 ft/min	Up to 45/90 m/min
→ Trolley Travelling	Up to 590 ft/min	Up to 180 m/min
→ Crane Travelling	Up to 524 ft/min	Up to 160 m/min
→ Lifting Capacity	Up to 66 US t under spreader	Up to 60 t under spreader
→ Lifting Heights	Up to 65 ft	Up to 20 m
→ Slewing	Up to 2 rpm	Up to 2 rpm
→ Applications	Container/Bulk/ Project cargo/	Container/Bulk/ Project cargo/



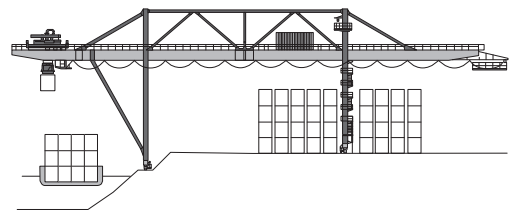
ONE-SIDED SPANNING*

→ Track	Up to 147 ft	Up to 45 m
→ Cantilever Arm	Up to 65 ft	Up to 20 m
→ Cantilever Arm II	Up to 39 ft	Up to 12 m
→ Hoisting/Lowering	Up to 147/295 ft/min	Up to 45/90 m/min
→ Trolley Travelling	Up to 590 ft/min	Up to 180 m/min
→ Crane Travelling	Up to 524 ft/min	Up to 160 m/min
→ Lifting Capacity	Up to 66 US t under spreader	Up to 60 t under spreader
→ Lifting Heights	Up to 65 ft	Up to 20 m
→ Slewing	Up to 2 rpm	Up to 2 rpm
→ Applications	Container/Bulk/ Project cargo/	Container/Bulk/ Project cargo/



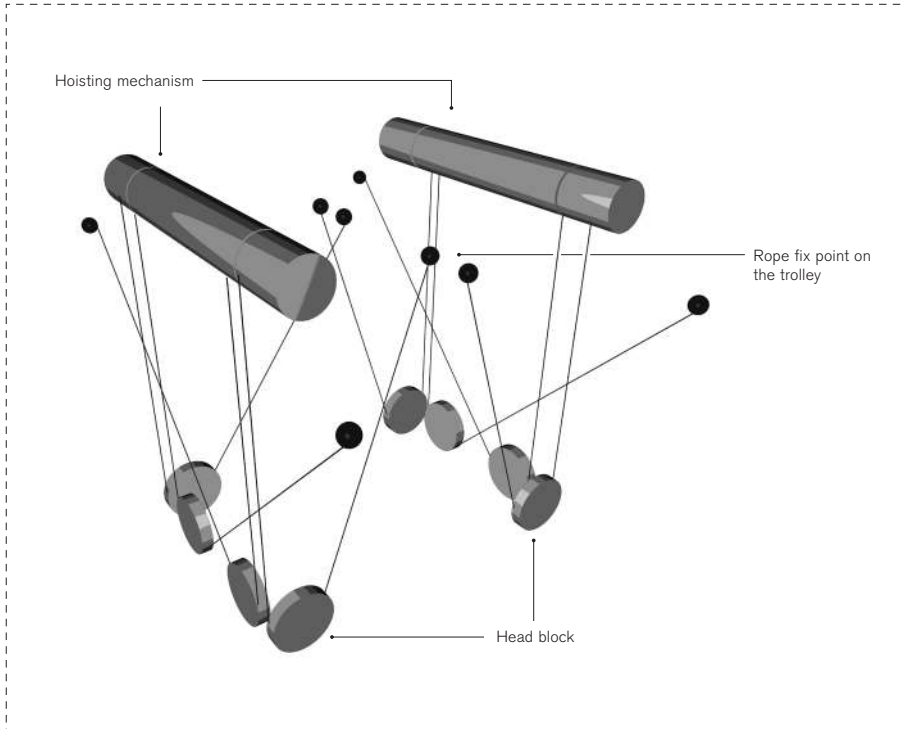
WIDE TRACK AND LARGE TRUSS SPAN*

→ Track	Up to 229 ft	Up to 70 m
→ Cantilever Arm	Up to 82 ft	Up to 25 m
→ Cantilever Arm II	Up to 82 ft	Up to 25 m
→ Hoisting/Lowering	Up to 147/295 ft/min	Up to 45/90 m/min
→ Trolley Travelling	Up to 590 ft/min	Up to 180 m/min
→ Crane Travelling	Up to 524 ft/min	Up to 160 m/min
→ Lifting Capacity	Up to 66 US t under spreader	Up to 60 t under spreader
→ Lifting Heights	Up to 65 ft	Up to 20 m
→ Slewing	Up to 2 rpm	Up to 2 rpm
→ Applications	Container/Bulk/ Project cargo/	Container/Bulk/ Project cargo/



*other features on request

HOISTING MECHANISM – RIGID ROPE TOWER – NATURAL ANTI-SWAY IN EVERY DIRECTION



↑
Unifilar drawing



↑
The driver's cabin offers an optimal view to the load

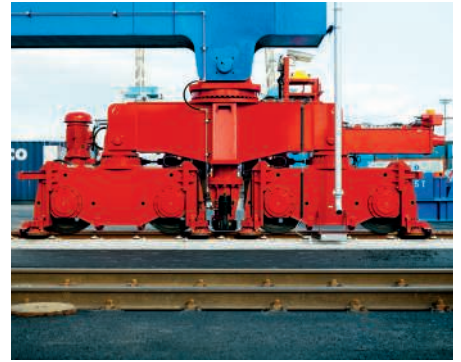


↑
Slewing trolley (slewing as option)



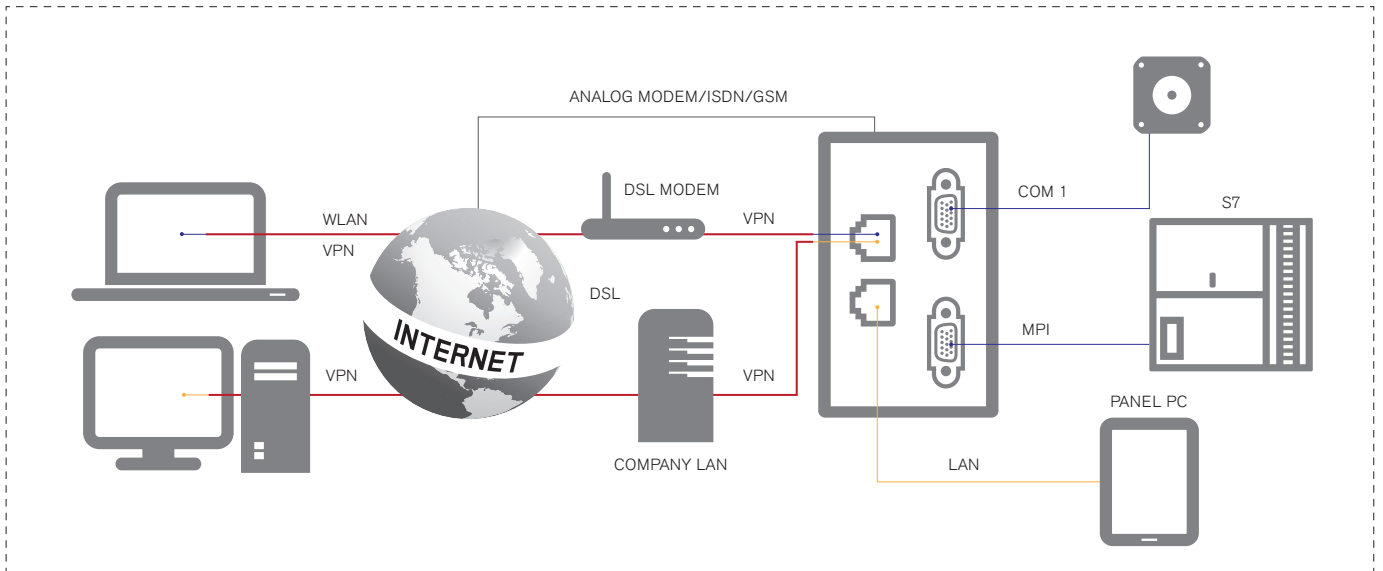
↑
Heavy duty trolley in double girder design (turnable head-block as option)

WORKING THE CURVE



↑
Option: slewing gantry travelling mechanism

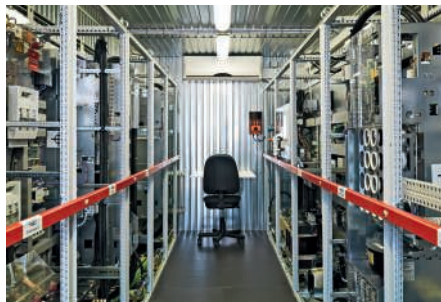
- Perfect for terminals where space is limited
- Curved tracks increase the efficiency of the yard
- The KOCKS Terminal Server can travel from the straight track into the curve and back without reducing speed



↑
Standard remote access



↑
The entire control system is installed in the electrocontainer to make maintenance easy



↑
Inside the electrocontainer



↑
Access – stairs, platforms, ladders and elevator

TERMINAL SERVER

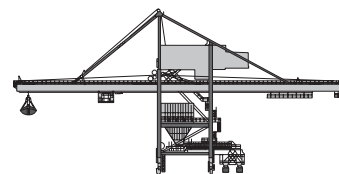
→ BOXER

Crane system for container handling



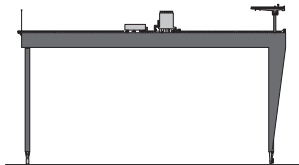
→ DIGGER

Ship unloader for bulk cargo handling



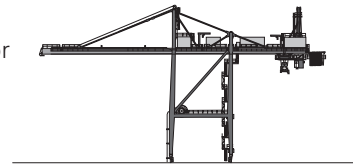
→ GOLIATH

Dockyard crane for the handling of ship sections



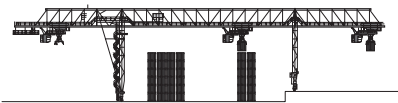
→ FEEDER SERVER

Mobile container crane for fast changes of position



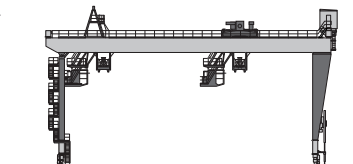
→ BARGE SERVER

Portal crane for handling procedures in ports and harbours



→ TERMINAL SERVER

Portal crane for trimodal terminals and stockyards



KOCKS ARDEL T K RANBAU INC.
1957 SENNEBOGEN TRAIL
STANLEY, NC 28164
USA

PHONE +1 704 675 1998
E-MAIL MARK.REARDON@KOCKSARDEL T.DE

WWW KOCKSARDEL T.DE

KOCKS ARDEL T K RANBAU GMBH
OFFICE OBERHAUSEN
ESSENER STRASSE 99C
46047 OBERHAUSEN / GERMANY

PHONE +49 (0)208.302 69 12
FAX +49 (0)208.302 69 19
E-MAIL INFO@KOCKSARDEL T.DE

WWW KOCKSARDEL T.DE