

SAFETY FIRST

Spacious stairway access, can accommodate stretcher if needed. Maintenance jib crane access to main pulleys.

CONNECTED

The TRUCONNECT® remote service combines the relevant data for informed decision-making through a single graphical interface, YourKonecranes.com.

SHIP-TO-SHORE GANTRY CRANE

For the fastest ship turnaround time

Konecranes Ship-to-Shore (STS) gantry cranes are known for their reliability and high performance. They are built around the Core of Lifting concept that incorporates Konecranes' purpose-designed and purpose-built electric motors, gears and control system. With Konecranes STS cranes you will achieve the fastest possible container ship turnaround time.

Operator comfort

Operator comfort is central when it comes to high productivity. Konecranes STS cranes are known for their smooth ride and predictable control – the keys to a very productive work shift.

Maintaining uptime

Maintaining uptime means that the crane is always ready for work, regardless of the conditions. Konecranes STS cranes have a designed lifetime of four million fatigue cycles. The service access points have been designed by listening to customer voices from the field, minimizing downtime in practice.

Konecranes STS

Technical data

Performance	Monobox	Doublebox	
Trolley type	Semi-rope trolley	Rope-towed trolley	
Trolley speed	180 m/min – 244 m/min	240 m/min – 300 m/min	
Hoist speed (with load)	75 or 90 m/min	90 m/min	
Hoist speed (empty)	150 or 180 m/min	180 m/min	
Gantry travel speed	45 m/min	45 or 55m/min	
Typical wheel loads	47-70 tons/m*	52-76 tons/m*	
Diagnostics and maintenance	Konecranes Crane Managemer	nt System (CMS), TRUCONNECT,	
Diagnostics and maintenance	yourKONECRANES, Konecranes STORE, Konecranes Port Service		

^{*8, 10} or 12 wheels per corner

Konecranes STS

Technical data

Electrical	Monobox STS	Doublebox STS
Main power supply	3-20 kV, 3 phase, 50/60 Hz	3-20 kV, 3 phase, 50/60 Hz
Supply method	Cablel reel on middle beam	Cable reel on middle beam
Cable length for crane travelling distance	300 – 700 m	300 – 700 m
Control method – main hoist	AC frequency control	AC frequency control
Control method – boom hoist	AC frequency control	AC frequency control
Control method – trolley travel	AC frequency control	AC frequency control
Control method – gantry travel	AC frequency control	AC frequency control
Motor power – main hoist	2 x 500 kW S3 – ED 60%	2 x 600 kW S3 – ED 60%
Motor power – boom hoist	110,1800 kW S3 – ED 40%	300,400 kW S3 – ED 40%
Motor power – trolley travel	4 x 37 kW S3 – ED 60%	1 x 355 kW S3 – ED 60%
Motor power – gantry travel	16,20,24 x 15 kW S3 – ED 40%	12,20,24 x 55 kW S3 – ED 40%

Main dimensions	Monobox	Doublebox
Rail span	30.0 m	35.5 m
Slope of dock (Landside rail is Dh higher than WS rail)	0 – 500 mm	0 – 500 mm
Outreach from waterside rail	65.0 m	75.0 m
Backreach from landside rail	25.0 m	30.0 m
Max. lift height above waterside rail to bottom of spreader	52.5 m	57.5 m
Lowering depth below waterside rail to bottom of spreader	20.0 m	20.0 m
Overall crane width over bumpers	27.0 m	27.0 m
Clearance between the legs for passage of containers	18.0 m	19.0 m
Max. width of trolley	8.9 m	7.2 m
Clearance under portal beam	14.0, 17.0 m	14.0, 17.0 m
Rail type size	A75-150	A75-120
Number of wheels / crane corner	8, 10, 12	8, 10, 12
Number of gantry parking rail brakes / rail waterside	2	2
Number of gantry parking rail brakes / rail landside	0.2	0.2

Crane classification		
Normal container use with Fatigue Lifted Load (FLL)		4 million loading cycles
Crane classification	EN 13001-1	(FEM 1.001 eq.)
Class of utilization	U8	U8
Spectrum class	Q3	Q2
Appliance group	-	A8

Konecranes STS

Technical data

Most common Smart Features	
Shipside Collision Prevention	Boom Anticollision System
Quayside Collision Prevention	Bogie/Gantry Anticollision System
Quayside Auto-Truck Guiding	Trailer Positioning System
Backreach Auto-Truck Guiding	Ship Profiling System (Path Optimization for Trolley)
Ship Gate	Auto/Smart Landing & Pick-up System
Anti-sway System (Spreader)	Active Anti-skew System (Spreader)
Optical Container Recognition	Trolley Truck Lane Position System

Core of Lifting components*	
Motors*	Konecranes
Gear reducers*	Konecranes
Drive system*	Konecranes drives
Programmable Logic Controller (PLC)	Siemens
*Extended 5-year warranty available	

Enviromental design data		
Operating wind speed (WLO)	20 m/s	
Stowed wind speed (WLS)	60 m/s	
Maximum ambient temperature	+45 °C	
Minimum ambient temperature	-30 °C	



Konecranes is a world-leading group of Lifting Businesses, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. In 2021 Group sales totaled EUR 3.2 billion. The Group has approximately 16,600 employees in around 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).

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