

TYPICAL TECHNICAL SPECIFICATION

Konecranes STS: For the fastest ship turnaround time



Konecranes STS

Technical data

Performance specification	Monobox	Doublebox
Lifting capacity under spreader	65 LT	65 LT
Lifting height above rail	40.0 - 52.5 m	42.5 - 57.5 m
Outreach	52.5 - 65.0 m	60.0 - 75.0 m
Span	19.5 - 30.5 m	27.0 - 35.0 m
Backreach	20.0 m or 25.0 m	25.0 m, 27.5 m or 30.0 m
Trolley type	Semi-rope trolley	Rope-towed trolley
Trolley speed	210 or 240 m/min	240 or 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 Management System (CMS), TRUCONNECT, yourKONECRANES, Konecranes STORE, Konecranes Port Service	

*8, 10 or 12 wheels per corner

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	Cabel reel on middle beam	Cabel reel on middle beam
Cable length for crane travelling distance	300-700 meter	300-700 meter
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%

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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

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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/Danfoss drives
Programmable Logic Controller (PLC)	Siemens

*Extended 5-year warranty available

Environmental 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 2019, Group sales totaled EUR 3.33 billion. Including MHE-Demag, the Group has around 18,000 employees in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).

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