

APMT

On Sell Equipment

Equipment .: STS 911 Bcn

Version 0.1

Classification: Internal

Revision History

Revision	Date	Description
0.1	07-09-2020	Equipo on Sell

Revision Status

Revision	Description	Issue Date	Prepared By	Checked By	Approved By
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1 General Picture



2 Sell mode

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3 Contacts

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4 Technical data

4.1 Crane Dimensions and Features

4.1.1 Crane dimensions

The following table depicts the main dimensions of the Crane on Sell.

Table 1: Crane dimensions

Description	Capacity/Dimension
STS Crane type [A-frame, low-profile, articulated boom, etc]	Standard post panamax
Boom & girder construction type [mono box, double box, lattice]	Double box
Trolley type [self-propelled, rope towed, machinery trolley]	Self-propelled
Outreach from waterside rail center	18 containers widthwise * 50,000 mm
Span [rail center to center distance]	30,480 mm
Backreach from landside rail center	18.300 mm
Height under spreader, above waterside rail	33.500 mm
Lowest point of spreader, below waterside rail	17,000 mm
Total spreader hoisting/lowering path	50.500 mm
Clearance between portal legs [minimum]	31.575mm
Overall length from buffer to buffer [uncompressed]	26.860 mm
Clearance under portal beam	15.672 mm
Upper spreader emergency stop clearance, headblock to struct [minimum]	2.000 mm
Maximum boom or trolley width	7.000 mm
Main power supply	cable reel 6kV,50 Hz
Electrical system	DC
Drives	Thyristor units
Supply to trolley [festoon, cable chain, bus bars]	Festoon
Auxiliaries voltage	400/230V 50Hz
Gantry travel distance from MV supply point	± 300 m
Distance from WS rail Center to quay wall's edge	3.600 mm
Quay Fenders depth	1,900 mm
number of wheels per corner	8
Rails same height	RMS 87A
Gantry buffers height	850 mm

4.1.2 Operating speeds and accelerations

	Speeds	De-/Acceleration Ramp Times
Hoisting/Lowering with rated load 50 t	53/60 m/min	0.60 m/s ² (1.5 s)
Hoisting/Lowering with empty spreader	130 m/min	0.70 m/s ² (3 s)
Trolley travel (full load) against operating wind load	180 m/min	0.75 m/s ² (4 s)
Gantry travel against operating wind load min.	45 m/min	0.15 m/s ² (5 s)
Boom hoist, raise/lower from 0° to 85°:	5 min	

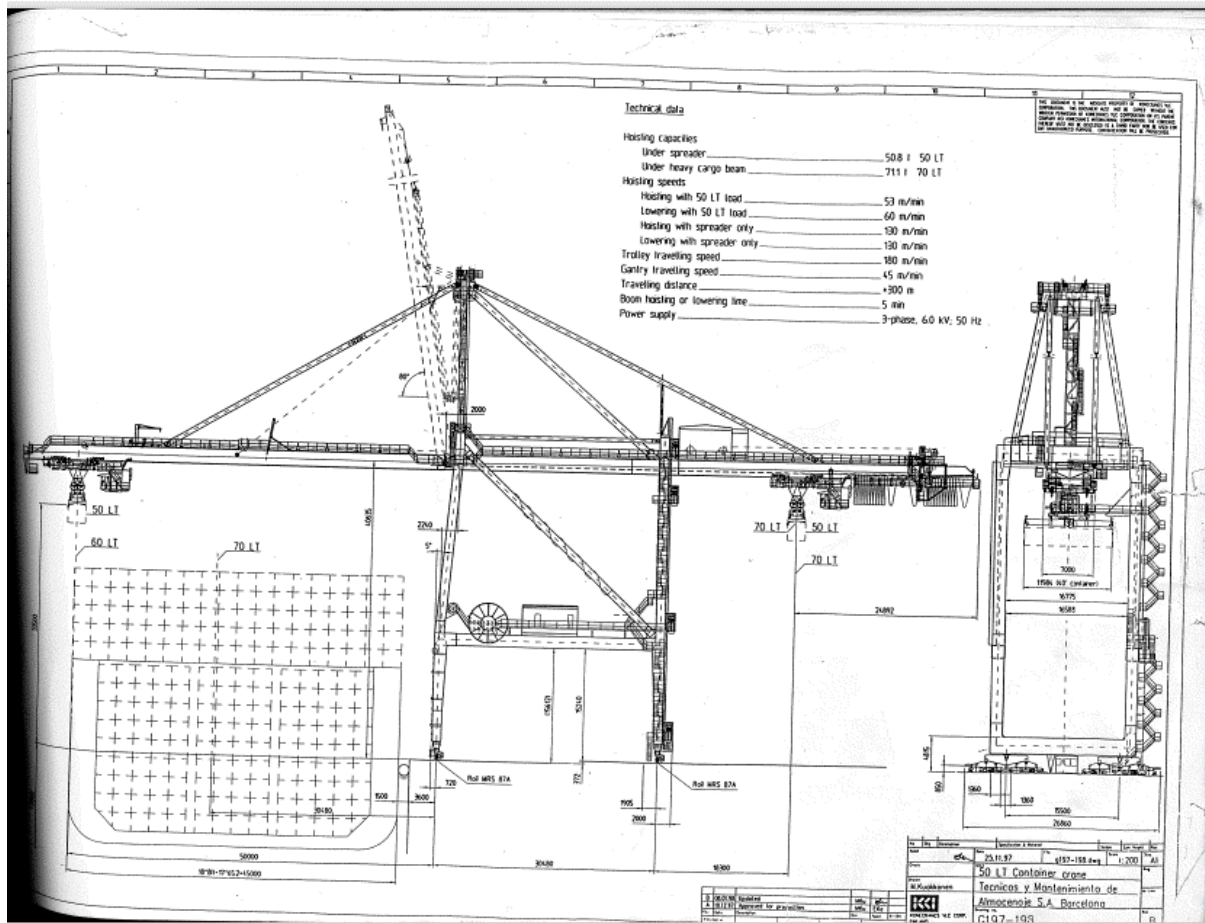
4.1.3 Lifting capacity

Table 3: Lifting Capacities

Description	Dimension
Lifting capacity under spreader	SWL 50 t
Lifting capacity under cargo beam	SWL hook 70 t

. The time to trim, list or skew the spreader

5 Drawings



6 Pictures







