



## **Technical Data**

Table of Contents		Page
1.0	Main Dimensions	2
2.0	Weights	2
3.0	Main Drive	2
4.0	Hoist	3
5.0	Slewing Gear	3
6.0	Luffing Gear	3
7.0	Travel Gear	3
8.0	Ambient Conditions	4
9.0	Stability Requirement (Percentage of Tipping Load)	4
10.0	Classification of Crane and Mechanisms	4
11.0	Lighting	5
12.0	Surface Treatment	5





### 1.0 Main Dimensions

Length of chassis without stabiliser pads	approx.	17.7 m	
Width of chassis without stabiliser pads	approx.	9.0 m	
Size of stabiliser pads * 2.0 m x		0 m x 4.5 m	
Propping base (length, width)	14.0	14.0 m x 12.5 m	
Tail radius		7.5 m	
Height of boom pivot point	approx.	17.6 m	
Crane operator viewing height	approx.	20.7 m	
Boom length		51.5 m	
Maximum radius		51.0 m	
Minimum radius		11.0 m	
Hoisting height on hook above quay *	11 m to 37 m radius	46.0 m	
	51 m radius	24.5 m	
Hoisting height on hook below quay		12.0 m	

### 2.0 Weights

Counterweight		100.0 t
Total weight of operational crane***	approx.	420.0 t

### 3.0 Main Drive

Type of drive system Diesel – electric

### 3.1 Diesel Engine

Manufacturer	Cummins
Model	QST 30-G5 NR1
Engine type	Diesel
Cooling	Water
Nominal output	1112 kW at 1800 rpm
Number of cylinders	12
Fuel consumption (at full load)	max. 204 g/kWh

### 3.2 Fuel Tank

Volume of main fuel tank in chassis	approx.	7000 I
Volume of intermediate tank in superstructure	approx.	1000 l
Possible operating time without refueling		up to 150 h
(depending on operating mode and intensity)		





4.0	Hoist		
	Number of rope drums		2
	Number of ropes		4
	Hoisting speeds:		
		to 28.0	
		40.0 45.0	
		50.0 50.0	
		63.0	
		100.0	t 42.0 m/min
<b>5</b> 0	Slaveing Cook		
5.0	Slewing Gear		2
	Number of slewing gear drive units		2
	Slewing speeds:	to 63.0 t	to 1.6 rpm
		to 100.0 t	to 0.6 rpm
	Maximum peripheral speeds at boom head:	without load	to 350 m/min
	Grab operation, with load	to 50.0 t	to 300 m/min
	Normal-load operation, with load	to 63.0 t	to 200 m/min
	Heavy-load operation, with load	to 100.0 t	to 80 m/min
6.0	Luffing Gear		
	Maximum luffing speeds:	to 63.0 t	82 m/min
	Maximum running speeds.	to 100.0 t	34 m/min
	Average luffing speeds:	to 63.0 t	65 m/min
		to 100.0 t	27 m/min
7.0	Travel Gear		
	Travel speed	up to	80.0 m/min
	Total number of axles		7
	Number of steered axles		7
	Number of driven axles		2
	Number of wheels		28
	Tyre size		14.00-24
	Climbing ability		6.0 %
			- ,

Vertical axle compensation

Minimum inner curve radius

Minimum outer curve radius

Maximum crab steering angle

4.9 m

14.5 m

25°

+250 mm / -250 mm

approx.

approx.

approx.





8.0	Ambient Conditions		
	Permissible wind speeds:		
	Crane in operation	to	24 m/s
	Crane in travel operation	to	24 m/s
	Crane out of service	to	46 m/s
	At wind speeds above 46 m/s, the boom head should be lowered and secured.		
	Permissible ambient temperatures: *	minimum	-20°C
	·	maximum	+35°C
9.0	Stability Requirement (Percentage of Tipping Load)		
	Normal-load operation / heavy-load operation		<u>&lt;</u> 75 %
	Four-rope grab operation		<u>&lt;</u> 60 %
10.0	Classification of Crane and Mechanisms		
	Classification in accordance with:	FEM 1.001, 3rd e	dition 1998
10.1	Crane Classification		
	Container operation (single lift)	40.07	A7
	Four-rope grab operation	40.0 t	A8
	Four-rope grab operation  Normal-load operation	50.0 t 63.0 t	A7 A5
	Heavy-load operation	100.0 t	A3
10.2	Classification of Mechanisms	100.0 t	710
10.2			
	Hoist:		
	Container operation (single lift)	40.04	M8
	Four-rope grab operation  Normal-load operation	40.0 t 63.0 t	M8 M6
	Heavy-load operation	100.0 t	M3
		100.0 t	IVIO
	Slewing gear:		Mo
	Container operation (single lift) Four-rope grab operation	40.0 t	M8 M8
	Normal-load operation	63.0 t	M8
	Heavy-load operation	100.0 t	M8
	•		_
	Luffing gear: Container operation (single lift)		M7
	Four-rope grab operation	40.0 t	M7
	Normal-load operation	63.0 t	M7
	Heavy-load operation	100.0 t	M7
	Travel gear:		M4
	<del>-</del>		





#### 11.0 Lighting

Boom head \*Metal vapour lamp2 x 1000 WBottom of boom \*Metal vapour lamp1 x 1000 WFront of tower \*Metal vapour lamp2 x 400 WRear of tower \*Metal vapour lamp1 x 400 W

#### 12.0 Surface Treatment

Surface treatment of the steel structure: EN ISO 12944
Surface preparation: Sa 2.5 (ISO 8501-1)

Edge protection: Two-component epoxy resin with micaceous iron ore

 $\begin{array}{lll} \mbox{Primer coat:} & \mbox{Two-component epoxy resin} & \geq 60 \ \mu \mbox{m} \\ \mbox{Intermediate coat:} & \mbox{Two-component epoxy resin} & \geq 60 \ \mu \mbox{m} \\ \mbox{Top coat:} & \mbox{Two-component acrylic-polyurethane} & \geq 50 \ \mu \mbox{m} \\ \end{array}$ 

Total coating thickness: ≥ 170 μm

### Key:

- \* Data for basic equipment. Alternative special equipment available
- \*\* Data for special equipment
- \*\*\*Depending on the configuration selected

Subject to technical modification without prior notice.