MAIN TECHNICAL DATA

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Mobile Harbour Crane
HMK 170 E
(63 t - Version)

1.0 MAIN DIMENSIONS

Length of the chassis without stabilizer pads		approx.	15,2 m
Width of chassis without stabilizer pads		approx.	8,16 m
Size of stabilizer pads (other sizes on request)			4 x 1,2 x 1,8 m
Propping base			11,0 x 11,5 m
Tail radius			6,2 m
Height of the boom fulcrum point		approx.	15,6 m
Viewing height of crane driver		approx.	19,1 m
Boom length			40,0 m
Max. outreach			38,0 m
Min. outreach			10,0 m
Lifting height above quay	10 m – 30 m radius		36,0 m
	30 m – 35 m radius		30,0 m
	35 m – 38 m radius		26,0 m
Lifting height below quay			12,0 m

2.0 Weights

Counterweight			52,0 t
Total weight of fully rigged crane		approx.	240,0 t

3.0 Main Drive

Type of drive system: Diesel - electric

3.1 Diesel Engine

Manufacturer	MAN
Type	D2842 LE 201
Combustion type	Diesel
Cooling	Water
Power	597 kW at 1500 rpm
Number of cylinder	12 – V
Consumption *	max. 208g / kWh

* Standby 100 %

3.2 Fuel Tank

Capacity of fuel tank		approx.	4700 l
Possible operating hours		about	150 h

4.0 Speeds

4.1	Hoisting		
	- heavy lift operation	63,0 t	17 m/min
		50,0 t	25 m/min
	- standard operation	45,0 t	29 m/min
		20,0 t	61 m/min
		10,0 t	78 m/min
4.2	Slewing		
	- speed at standard operation		up to 1,4 rpm
	- speed at heavy lift operation		up to 0,6 rpm
	- maximum speed boom head		180 m/min
4.3	Luffing		
	- standard operation		0 - 45 m/min
	- heavy lift operation		0 - 20 m/min
4.4	Travelling		0 - 80 m/min
4.5	Climbing ability		max. 6 %

5.0 Axles and Tyres

Number of axles	4
- steerable	4
- driven	2
Size of tyre	14.00-24
Total number of tyres	16

6.0 Turning Radius

Inner turning radius	approx. 5,5 m
Outer turning radius	approx. 13,2 m

7.0 Wind forces

-crane in operation	up to	24 m/s (9 Beaufort)
-crane out of operation	up to	46 m/s (14 Beaufort)

8.0 Utilization of Tipping Load

General cargo operation	≤ 66 %
Heavy load operation	66 % / 75 %
Grab operation	≤ 60 %

9.0 Crane and Mechanism Group Classification

Classification according to:		**FEM 1.001 1998**
9.1 Steel structure		
Heavy lift operation	63 t	A3
General cargo operation	45 t	A6
Grab operation	32 t	A7
	25 t	A8
9.2 Machinery		
Hoisting		
- standard operation	45 t	M6
- heavy lift operation	63 t	M3
- grab operation	32 t	M6
	25 t	M7
Slewing		
- standard operation		M6
- heavy lift operation		M5
Luffing		
- standard operation		M6
- heavy lift operation		M5
Travelling		M4

10.0 Lighting

Metal vapour light under boom head	1 x 2000 W
Floodlight (Halogen) under boom	2 x 2000 W
Floodlight (Halogen) tower front	2 x 2000 W
Floodlight at the rear of the superstructure	1 x 2000 W
Floodlight at the tower sides (optional)	2 x 2000 W
Aviation warning lights (optional)	1
Yellow flasher lights	2

11.0 Painting

All load bearing parts are blast cleaned and painted to an approved specification taking into consideration the corrosive saline atmosphere in ports. The steel surface will be blast cleaned to preparation class SA 2.5.

Base paint:	2-component epoxy-resin	60 µm
Intermediate coat:	2-component epoxy-resin	60 µm
Final paint:	2-component acryl-polyurethane-resin	50 µm

Total thickness of paintwork is minimum 170 µm according to EN ISO 12944-5.

	Gottwald standard
Chassis	RAL 7001 grey
Rims, outriggers, staircases	RAL 5015 blue
Superstructure with housing	RAL 5015 blue
Tower complete with staircases	RAL 7001 grey
Luffing cylinder	RAL 5015 blue
Boom (Jib)	RAL 5015 blue
Rope pulleys (Jib-head)	RAL 1003 yellow
Drivers cabin	RAL 1013 white
Tower cabin	RAL 1013 white
Counter weight	RAL 5015 blue
Warning stripes outriggers black / yellow	RAL 9005/RAL 1003
Warning stripes counterweight black / yellow	RAL 9005/RAL 1003
LOGO, both sides of superstructure	please add specimen

11.0 Spreader Systems for ISO Containers

Spreader type container type	Capacity under spreader (t)	Weight (t)
Fully Automatic Telescopic Spreader for		
20’ - 40’ container	41	9,0
Fully Automatic Fix Spreader (with suspension tower) for		
20' container	25	4,0
40' container	35	6,5
Fully Automatic Telescopic Lightweight Spreader for		
20’ - 40’ container	35	6,9
Manual Fix Spreader for		
20' container	32	1,2
40' container	36	2,2
Semi automatic Fix Spreader with Set-Down-Automatic for		
20' container	32	1,2
40' container	36	2,3

Other spreader sizes on request !

Subject to technical modification without prior notice!