

# Mobile Harbour Crane G HMK 4406

## Maintenance Manual

### Technical Data

3.1

#### Dimensions

Chassis length	approx. 14.6 m
Chassis width (without stabiliser pads)	approx. 9.0 m
Propping base, longitudinal x transverse	13.0 m x 12.5 m
Stabiliser pad size 4x	2.0 m x 4.5 m

Superstructure overhang to rear	7.15 m
Boom pivot point height	approx. 16.7 m
Tower cab operator viewing height	approx. 19.1 m

#### Working range

Max. radius	46.0 m
Min. radius	11.0 m

#### Hoisting height

Hoisting height above quay level, radius 11 - 38 m	40.0 m
Hoisting height above quay level, radius 39 - 42 m	35.0 m
Hoisting height above quay level, radius 43 - 46 m	29.5 m
Hoisting height below quay level	12.0 m

#### Weights

Total weight of crane in operational state	approx. 364.5 t
Fixed counterweight	approx. 94.0 t

#### Wind Loads

	Beaufort	Wind pressure	Wind speed
Crane in travel condition	9	33.0 kg/m <sup>2</sup>	20.8 - 24.0 m/s
Crane, propped, in operation	9	33.0 kg/m <sup>2</sup>	20.8 - 24.0 m/s
Crane, propped, out of operation	14	120.0 kg/m <sup>2</sup>	41.5 - 46.1 m/s

#### Tipping Load Utilisation

Normal load	75,0 %
Special load	75,0 %
Grab operation	50,0 %

#### Noise

For this product, we guarantee a noise power level of  $L_{WA} = 114$  dB.

The measured values were determined in accordance with DIN EN ISO 3744 for the operating conditions indicated in this manual.

In accordance with EU Directive 98/37/EC, the mean sound pressure level in the tower cab is  $L_P = 70$  dB (A).

The values were determined in accordance with DIN EN ISO 3744 for the operating conditions indicated here and with the fan running at level 2.

#### Electrical Data

Nominal voltage 440 V/60 Hz/max. current input, auxiliary power supply, 63 A/clearance between crane and overhead high-voltage lines up to 420 kV = 20 m

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#### Diesel Engine

Make	MAN
Model	2842 LE 211
Cylinders	V12
Type of engine	diesel
Cooling system	water-cooled
Output	750 kW/1800 rpm
Fuel consumption	Approx. 205 g/kWh

#### Fuel Tank

Capacity, main tank	approx. 7,000 l
Capacity, day tank	1000 l
Possible operating time with full tank	Approx. 112 hours

#### Generator

Make	Marelli
Model	MJB 400/LA4 440 V/60 Hz

#### Speeds

##### Hoist

Lifting capacity, 2rd gear, high-speed	15 t	0 - 88 m/min
Lifting capacity, 2rd gear, high-speed	35 t	0 - 40 m/min
Lifting capacity, 2rd gear, high-speed	47 t	0 - 30 m/min
Lifting capacity, 1st gear, low-speed	35 t	0 - 42 m/min
Lifting capacity, 1st gear, low-speed	70 t	0 - 25 m/min
Lifting capacity, 1st gear, low-speed	100 t	0 - 15 m/min

##### Slewing Gear

Superstructure slewing speed in normal operation	0 - 1.6 rpm
Maximal peripheral speed	180 m/min
Superstructure speed in heavy-load operation 100 t	0 - 0.6 rpm

##### Luffing Gear

Luffing speed in normal operation	0 - 60 m/min
Luffing speed in heavy-load operation	0 - 27 m/min

##### Travel Gear

Travel speed	0 - 80 m/min
Climbing ability	max. 6 %
Lateral inclination during travel	max. 3.0 %
Diagonal inclination of propping surface	max. 6 %
Inner turning radius	max. 4.9 m
Outer turning radius	max. 14.5 m
Crab steering angle	max. 22.6°

#### Climatic operating conditions

Absolute maximum day temperature	approx. 35°C
Absolute minimum day temperature	approx. -30°C
Max. air humidity	approx. 80%