

Mobile Harbour Crane HMK 300E

Training Course Manual

Technical Data

6.2.1

Dimensions:

HMK 300E

Chassis length	approx. 16.0 m
Chassis width	
with retracted stabilizer pads	8.7 m
Propping base	12.0 m x 13.0 m
Stabilizer pad size	2.4 m x 5.0 m and 1.85 m x 5.0 m
Superstructure over-rear radius	7.2 m
Boom pivot point height	approx. 22.0 m
Tower cab operator viewing height	approx. 28.0 m
Superstructure travel clearance height	approx. 9.0 m

Fuel Tank

Main tank capacity	approx. 7000 l
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Working Range

Max. radius	50.0 m
Min. radius	11.0 m

Hoisting Height

Hoisting height above ground by radius 11 to 45 m	40.0 m
Hoisting height above ground by radius 45 to 50m	29.0 m
Hoisting height below ground	12.0 m

Weights

Total weight of crane in operational state	approx. 420.0 t
Fixed counterweight	approx. 114.0 t

Wind Loadings

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

Tip Load Factor

Normal load	66.6 %
Special load	75.0 %
Grab operation	50.0 %

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Diesel Engine

Make	Cummins
Type	QST30-G1 GCS
Model	12 cyl. V
Type of combustion	diesel
Cooling	water-cooled
Output	701 kW, 1500 rpm

Generator

Make	Leroy Somer
Type	LSA49.1L9C51/4 400V / 50Hz

Speeds:

Hoist

1st gear speed: heavy load operation for	100 t	0 - 15 m/min
1st gear speed: heavy load operation for	60 t	0 - 25 m/min
1st gear speed: heavy load operation for	26 t	0 - 40 m/min
2nd gear speed: normal load operation for	63 t	0 - 25 m/min
2nd gear speed: normal load operation for	26 t	0 - 50 m/min
2nd gear speed: normal load operation for	13 t	0 - 70 m/min

Slewing Gear

Superstructure slewing speed during normal operation	0 - 1.35 rpm
Maximal peripheral speed	180 m/min
Superstructure speed during heavy-duty operation	0 - 0.6 rpm

Luffing Gear

Luffing speed during normal operation	0 - 60 m/min
Luffing speed during heavy load operation	0 - 25 m/min

Travel Gear

Travel speed	0 - 80 m/min
Climbing ability	max. 6 %
Lateral inclination when travelling	max. 2.5 %
Inner turning radius	approx. 8.8 m
Outer turning radius	approx. 18.2 m