Mobile Harbour Crane

Maximum lifting capacity 144 t

Maximum outreach 58 m

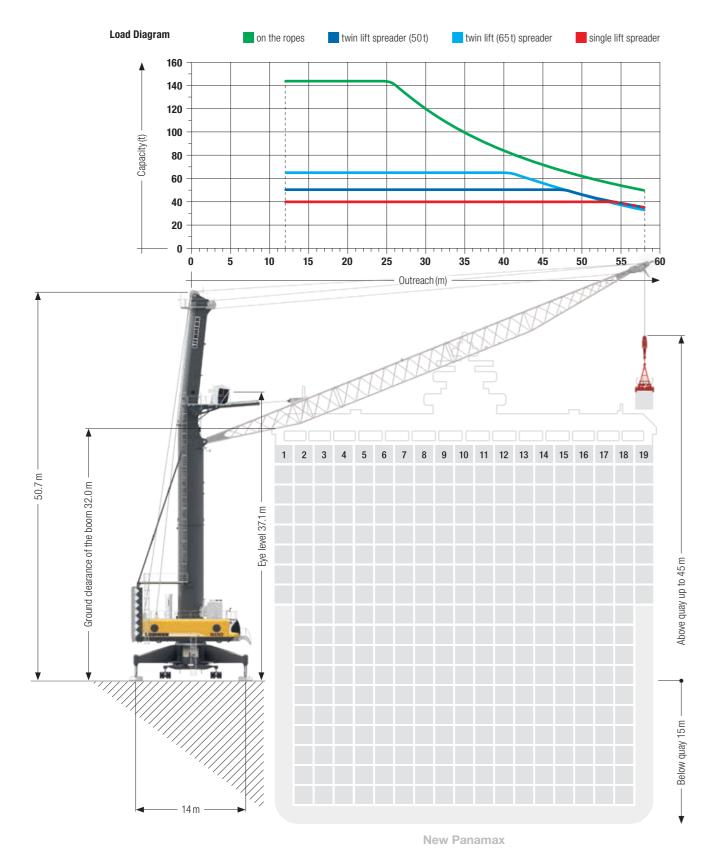
Ship size New Panamax Ultra Large Container Vessel

High Rise Version



Main Dimensions

Container Operation



Lifting Capacities Container Operation

Maximum crane capacity 104 t

	Spreader o	peration under		Hook operation on the ropes
Outreach	Single lift	Twin lift (50 t)	Twin lift (65 t)	Standard
(m)	(t)	(t)	(t)	(t)
12	41.0	50.0	65.0	104.0
14	41.0	50.0	65.0	104.0
16	41.0	50.0	65.0	104.0
18	41.0	50.0	65.0	104.0
20	41.0	50.0	65.0	104.0
22	41.0	50.0	65.0	104.0
24	41.0	50.0	65.0	104.0
26	41.0	50.0	65.0	104.0
28	41.0	50.0	65.0	104.0
30	41.0	50.0	65.0	104.0
33	41.0	50.0	65.0	104.0
34	41.0	50.0	65.0	102.0
36	41.0	50.0	65.0	94.8
38	41.0	50.0	65.0	88.6
40	41.0	50.0	65.0	82.7
42	41.0	50.0	62.8	77.3
44	41.0	50.0	57.7	72.2
47	41.0	50.0	50.9	65.4
48	41.0	49.3	49.0	63.5
50	41.0	45.4	45.1	59.6
52	41.0	41.9	41.6	56.1
53	41.0	40.3	40.0	54.5
54	40.5	38.8	38.5	53.0
56	37.7	36.0	35.7	50.2
58	35.3	33.6	33.3	47.8

Weight rotator 3.5t; Weight fully automatic (telescopic) spreader 9t Weight (50t) twin lift spreader 10.7t; Weight (65t) twin lift spreader 11.0t

Standard Configuration / Turnover up to 32 Cycles per Hour Pactronic[®] / Turnover up to 38 Cycles per Hour

Precision to perfection: With incredibly short acceleration times for all crane motions, Liebherr is the top performer in container handling.

- The Pactronic[®] Hybrid Drive System is characterized by an energy storage device, which is added to the drive system as a secondary energy source. This results in substantially higher hoisting and lowering speeds. Not only is the crane's efficiency increased, but also the turnover (+30%). In addition, the crane's energy consumption is significantly reduced (-30%).
- Liebherr Cycoptronic[®] is an accurate, sway-free load motion control system that uses in-house designed software. Cycoptronic[®] allows for direct load positioning and aids the crane driver in mastering his task. With Cycoptronic[®] turnover, safety and the confidence of the operator will be improved.
 The Liebherr hydrostatic drive is the most reliable and highest performing drive system for mobile harbour cranes. Independent of components to guarantee highly responsive, smooth and precise operation while maximizing operational safety.

	Spreader operation under			Hook operation on the ropes
Outreach	Single lift	Twin lift (50t)	Twin lift (65 t)	Standard
(m)	(t)	(t)	(t)	(t)
12	41.0	50.0	65.0	144.0
14	41.0	50.0	65.0	144.0
16	41.0	50.0	65.0	144.0
18	41.0	50.0	65.0	144.0
20	41.0	50.0	65.0	144.0
22	41.0	50.0	65.0	144.0
24	41.0	50.0	65.0	144.0
25	41.0	50.0	65.0	144.0
28	41.0	50.0	65.0	130.4
30	41.0	50.0	65.0	120.0
33	41.0	50.0	65.0	106.1
34	41.0	50.0	65.0	102.0
36	41.0	50.0	65.0	94.8
38	41.0	50.0	65.0	88.6
40	41.0	50.0	65.0	82.7
42	41.0	50.0	62.3	77.3
44	41.0	50.0	57.2	72.2
47	41.0	50.0	52.6	65.4
48	41.0	48.8	48.5	63.5
50	41.0	44.9	44.6	59.6
52	41.0	41.4	41.1	56.1
53	41.0	39.8	39.5	54.5
54	40.0	38.3	38.0	53.0
56	37.2	35.5	35.2	50.2
58	34.8	33.1	32.8	47.8

Maximum crane capacity 144 t

Weight rotator 4.0 t; Weight fully automatic (telescopic) spreader 9 t Weight (50 t) twin lift spreader 10.7 t; Weight (65 t) twin lift spreader 11.0 t

• When loading/unloading containers, the crane driver needs to slew the crane causing the container to deviate from its parallel position to the vessel. With the Advanced Container Control System the container remains parallel to the vessel which eases the positioning for the crane driver and boosts handling figures.

Technical Data

Container Operation

Capacity and Classification

	Capacity	Classification
Container operation	≤73t	A8
Standard operation	≤73t	A8

Main Dimensions

Min. to max. outreach	12—58 m
Height of boom fulcrum	30.6 m
Tower cabin height (eye level)	37.1 m
Overall height (top of tower)	50.7 m
Overall length of undercarriage	26.7 m
Overall width of undercarriage	8.0 m
Number of axle sets (standard)	26
Number of axle sets (optional)	28

Working Speeds

Hoisting / lowering 0 — 120 m/min	
Toolding / lowering	
Slewing 0 — 1.6 rpm	
Luffing (average horizontal speed) 0 — 58 m/min	
Travelling 0 — 5.0 km/h	

Propping Arrangements

Standard supporting base	14.0 m x 14.0 m
Standard pad dimension	5.5 m x 1.8 m
Standard supporting area of pads	$9.9m^2$

Optional size of supporting pads and bases on request

Quay Load Arrangements

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Uniformly distributed load	2.1 t/m ²
Max. load per tyre	5.7 t

Due to a unique undercarriage design the quay loads specified above can even be reduced. Pad sizes, supporting base and the number of axle sets can easily be adapted to comply with the most stringent quay load restrictions.

Weight

Hoisting Heights

Above quay at minimum radius	45.0 m
Above quay at maximum radius	45.0 m
Below quay level (approx.)	15.0 m

Optional Equipment

Additional products and services

- Pactronic® power by accumulator and electronics
- SmartGrip intelligent grabbing
- Cycoptronic® anti-sway system
- Teach-In semi-automatic point to point system
- Sycratronic[®] synchronizing crane control system
- Vertical Line Finder diagonal pull preventing system
- Collision alert system
- LiDAT[®] smartApp
- Economy software for optimised fuel consumption
- Video monitoring system

- Radio remote control
- Autopropping undercarriage
- Cyclone air-intake system for the engine
- Low temperature package
- Customer-specific painting & logo
- Additional (driven) axle sets
- Axle sets equipped with foamed tyres
- Different supporting bases and pad sizes
- And many more as per customers' requirements