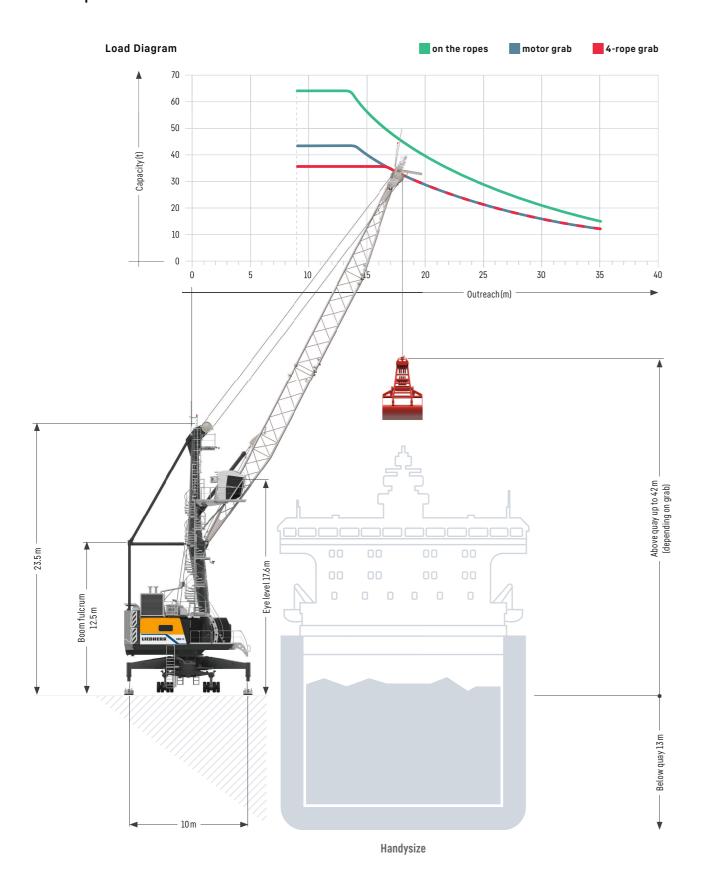


Main dimensions

Bulk operation



Lifting capacities

Bulk operation

Lifting capacity 64t

fting capaci	ty 64 t		
		Grab operation	
Outreach	on the ropes	4-rope grab	motor grab
(m)	(t)	(t)	(t)
9-12	64.0	35.0	42.0
13	63.5	35.0	42.0
14	58.9	35.0	41.9
15	54.7	35.0	38.9
16	50.6	35.0	36.0
17	46.9	33.3	33.3
18	43.5	30.9	30.9
19	40.2	28.6	28.6
20	37.1	26.4	26.4
21	34.9	24.8	24.8
22	32.3	23.0	23.0
23	30.4	21.6	21.6
24	28.4	20.2	20.2
25	26.8	19.0	19.0
26	25.1	17.8	17.8
27	23.8	16.9	16.9
28	22.3	15.9	15.9
29	21.2	15.1	15.1
30	20.0	14.2	14.2
31	19.0	13.5	13.5
32	18.0	12.8	12.8
33	17.1	12.2	12.2
34	16.2	11.5	11.5
7-			

Lifting capacity 42t

		Grab operation	
Outreach	on the ropes	4-rope grab	motor grab
(m)	(t)	(t)	(t)
9-12	42.0	24.0	30.0
13	42.0	24.0	30.0
14	42.0	24.0	30.0
15	42.0	24.0	30.0
16	42.0	24.0	30.0
17	42.0	24.0	30.0
18	42.0	24.0	30.0
19	40.2	24.0	28.6
20	37.1	24.0	26.4
21	34.9	24.0	24.8
22	32.3	23.0	23.0
23	30.4	21.6	21.6
24	28.4	20.2	20.2
25	26.8	19.0	19.0
26	25.1	17.8	17.8
27	23.8	16.9	16.9
28	22.3	15.9	15.9
29	21.2	15.1	15.1
30	20.0	14.2	14.2
31	19.0	13.5	13.5
32	18.0	12.8	12.8
33	17.1	12.2	12.2
34	16.2	11.5	11.5
35	15.3	10.9	10.9

Weight rotator 2.5 t

Weight rotator 1.5 t

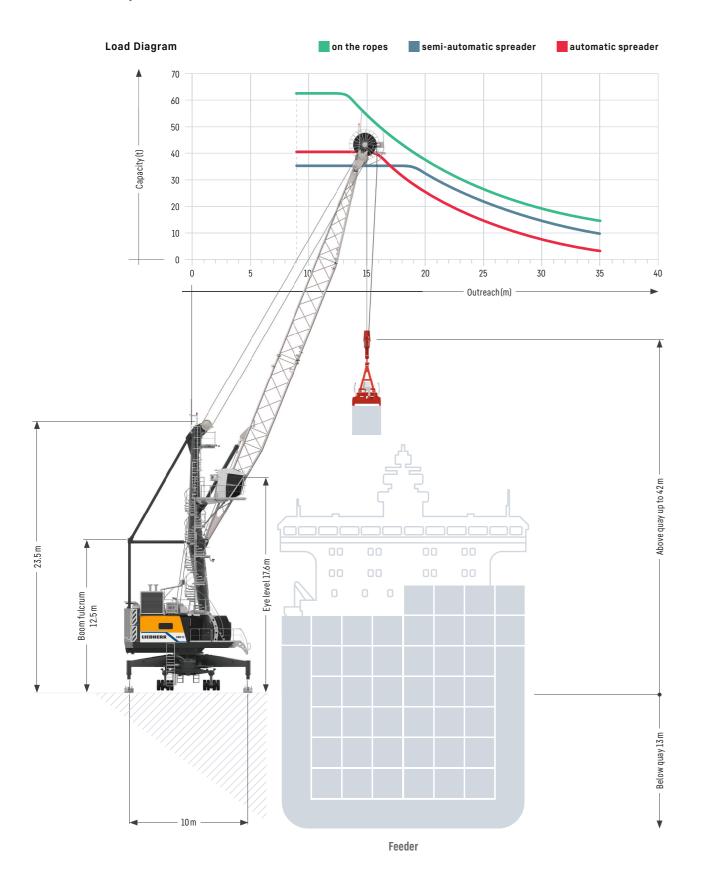
Performance – Turnover up to 600 t per hour

The powerful hydrostatic transmission and advanced Liebherr electronics ensure short, productive working cycles during bulk handling.

2 LHM 180 3

Main dimensions

Container operation



Lifting capacities

Container operation

Lifting capacity 64t

fting capaci	ty 64 t		
		Capacity under 40	O´ spreader
Outreach	on the ropes	automatic	semi-automatic
(m)	(t)	(t)	(t)
9	64.0	41.0	36.0
10	64.0	41.0	36.0
11	64.0	41.0	36.0
12	64.0	41.0	36.0
13	63.5	41.0	36.0
14	58.9	41.0	36.0
15	54.7	41.0	36.0
16	50.6	39.1	36.0
17	46.9	35.4	36.0
18	43.5	32.0	36.0
19	40.2	28.7	35.1
20	37.1	25.6	32.0
21	34.9	23.4	29.8
22	32.3	20.8	27.2
23	30.4	18.9	25.3
24	28.4	16.9	23.3
25	26.8	15.3	21.7
26	25.1	13.6	20.0
27	23.8	12.3	18.7
28	22.3	10.8	17.2
30	20.0	8.5	14.9
32	18.0	6.5	12.9
34	16.2	4.7	11.1
35	15.3	3.8	10.2

Weight rotator 2.5t

Weight fully automatic (telescopic) spreader 9t
Weight semi-automatic spreader 1.3t (20ft), 2.6t (40ft)

Lifting capacity 42t

		Capacity under 40´s	preauer
Outreach	on the ropes	automatic	semi-automatic
(m)	(t)	(t)	(t)
9	42.0	31.5	36.0
10	42.0	31.5	36.0
11	42.0	31.5	36.0
12	42.0	31.5	36.0
13	42.0	31.5	36.0
14	42.0	31.5	36.0
15	42.0	31.5	36.0
16	42.0	31.5	36.0
17	42.0	31.5	36.0
18	42.0	31.5	36.0
19	40.2	29.7	36.0
20	37.1	26.6	33.0
21	34.9	24.4	30.8
22	32.3	21.8	28.2
23	30.4	19.9	26.3
24	28.4	17.9	24.3
25	26.8	16.3	22.7
26	25.1	14.6	21.0
27	23.8	13.3	19.7
28	22.3	11.8	18.2
30	20.0	9.5	15.9
32	18.0	7.5	13.9
34	16.2	5.7	12.1

Weight rotator 1.5 t

Weight fully automatic (telescopic) spreader 9t Weight semi-automatic spreader 1.3t (20ft), 2.6t (40ft)

Performance – Turnover up to 35 cycles per hour

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

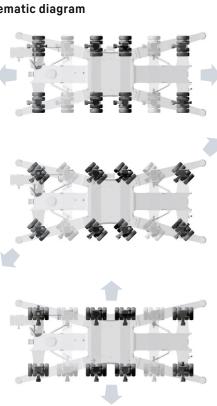
4 LHM 180 E

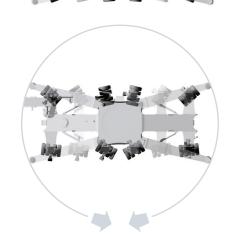
Undercarriage

Mobility

- Outstanding mobility and manoeuvrability
- Curves at any possible radii and even slewing

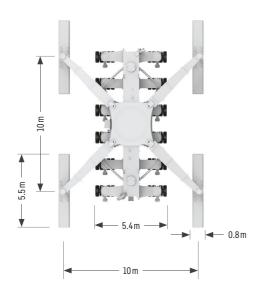
Schematic diagram





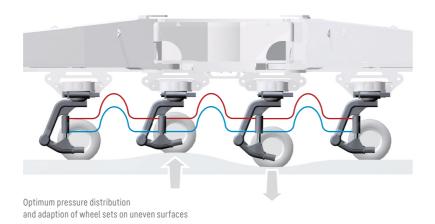
Modular propping system

- Minimised stress and strain of undercarriage due to cruciform support base which directs the load path from boom tip to quay
- Modular system allows further reduction of quay loads by installing additional axle sets
- Easy adaptation to various sizes of support pads and bases



Hydraulic load distribution

- Hydraulic suspension avoids overloading of individual wheel sets
- Standard trailer tyres making requisition of spares economical
- Increased lifetime of tyres due to individually steerable wheel



Technical data

Capacity and Classification

	Capacity	Classification	
Four rope grab operation	≤ 24t	A8	
Four rope grab operation	≤ 35t	A7	
Motor grab operation	≤ 30 t	A7	
Container operation	≤ 41t	A6	
Heavy lift operation	≤ 64t	A4	

Main Dimensions

Min. to max. outreach	9 – 35 m
Height of boom fulcrum	12.5 m
Tower cabin height (eye level)	17.6 m
Overall height (top of tower)	23.5 m
Overall length of undercarriage	12.6 m
Overall width of undercarriage	5.4 m

Working Speeds

Hoisting / lowering	0 – 90 m/min
Slewing	0 - 1.6rpm
Luffing (average horizontal speed)	0 - 61m/min
Travelling	0 - 5 km/h

Propping Arrangements

_		
	Standard supporting base	10.0 m x 10.0 m
	Standard pad dimension	5.5 m x 0.8 m
	Standard supporting area of pads	$4.4\mathrm{m}^2$

Quay Load Arrangements

with the most stringent quay load restrictions.

Ullifullity distributed toda	1./31/111-
Max. load per tyre	5.5 t
	uay loads specified above can even be reduced of axle sets can easily be adapted to comply

Weight

loisting Heights		
Above quay at minimum radius	42.0 m	
Above quay at maximum radius	19.0 m	

approx. 175 t

Noise emissions and vibrations

Below quay level (approx)

Total weight of crane LHM 180

_	Emission sound pressure level LPA in the cabin	65,4db(A)
	Guaranteed sound power level LWA oft he machine	107db(A)
	Vibrations on upper limbs of the machine operator	$< 2,5 \mathrm{m/s^2}$
	Vibrations on the entire body of machine operator	< 0,5 m/s ²

Optional equipment

Additional products and services

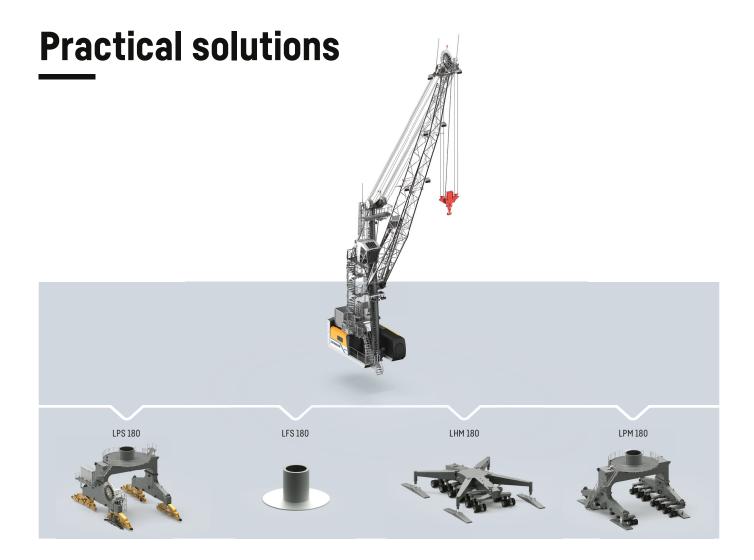
- Electric drive with high or low voltage connection
- Fully biodegradable hydraulic fluids

Optional size of supporting pads and bases on request

- HVO 100 certified drives
- Sycratronic® synchronizing crane control 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

LHM 180 LHM 180



Liebherr develops and produces special designs and solutions to meet customer-specific requirements

The Liebherr Portal Crane (LPS) is an efficient combination of a space-saving portal (mounted on rails) and the proven mobile harbour crane concept. Particularly on narrow quays, individual portal solutions permit (railway) trains and (road) trucks to travel below the portal.

The Liebherr Portal Mobile Crane (LPM) is the perfect combination of a space-saving portal undercarriage, efficient mobile harbour crane technology and unrestricted mobility. A gantry on rubber tyres enables the crane to be travelled from one quay to another. Supporting pads allow the crane to be used on quays with or without rail tracks.

The LPM offers the same 360-degree mobility as the LHM. Driving in longitudinal, diagonal or transverse direction. Performance of conventional steering or slewing on the spot is possible and provided as standard. Liebherr Fixed Slewing Cranes (LFS) are an efficient combination of a mobile harbour crane upper carriage and a fixed pedestal. LFS cranes provide an economical and space-saving solution for the installation on quaysides and jetties, especially where room for manoeuvring is limited and low ground pressure is essential. Additionally LFS solutions are also ideally suited for the installation on crane barges.