Whatever way the wind blows

Cranes for wind power

LIEBHERR

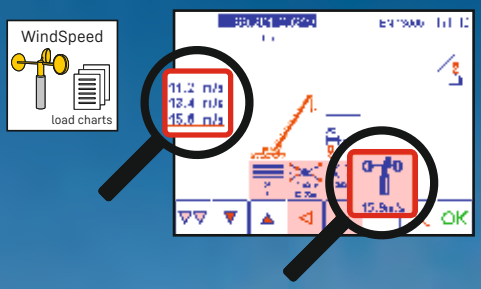
Mobile and crawler cranes

Definitions of terms

Concepts for wind power

	Size of facility	Economical transportation	Moving on the jobsite	Flexibility
LTM 	■■■□□	■■■■■	■■■■□	■■■■■
LR 	■■■■■	■■□□□	■■■■□	■■■■■
LR-W 	■■■■□	■■□□□	■■■■■	■■□□□
LG 	■■■■■	■■■□□	■■■□□	■■■□□

Increased flexibility and safety by using lifting capacity tables with different maximum wind speeds.



Concepts for wind power

Telescopic cranes

Telescopic mobile crane
- Driving on public roads
- Economical transportation and short erection times
- Limited space requirement for crane erection
- Driving from job site to job site with retracted telescopic boom, Y-guying system, additional equipment and partial ballast on 3 m wide roads
- Universally employable: industry, infrastructural measures, wind power

Hub height	LTM 1350-6.1	LTM 1400-7.1	LTM 1450-8.1	LTM 1500-8.1	LTM 1650-8.1	LTM 1750-9.1	LTM 11200-9.1
80 m	21.1 t	27.5 t	27.2 t	56 t	68 t	92.1 t	141 t
100 m	10.1 t	14.9 t	14.9 t	31 t	45 t	65.6 t	97 t
140 m	-	-		-	12.7 t	14.3 t	26.1 t
	Page 6	Page 8	Page 10	Page 12	Page 14	Page 16	Page 18

Example:
You are looking for a mobile crane to erect a wind turbine with a hub height of 100 m.
The maximum unit weight is approx. 25 t.

Hub height	LTM 1350-6.1	LTM 1400-7.1	LTM 1450-8.1	LTM 1500-8.1	LTM 1650-8.1	LTM 1750-9.1	LTM 11200-9.1
100 m	10.1 t	14.9 t	14.9 t	31 t	45 t	65.6 t	97 t
	Page 6	Page 8	Page 10	Page 12	Page 14	Page 16	Page 18

Starting from the LTM 1500-8.1 you will find the suitable solution for your project. See page 12.

Lattice boom cranes

Lattice boom crawler crane LR
- Highest capacity and lifting height
- Movable with complete equipment on wide tracks
- Universally employable: heavy load, industry, wind power
- Efficient for operation in wind parks as well as for single units

Narrow track lattice boom crawler crane LR 1700-1.0W
- Movable on narrow roads
- Driving with long boom systems
- With derrick system also capable for large wind generators
- Especially efficient for jobs in wind parks

Lattice boom mobile crane LG 1800-1.0
- Basic unit drivable on public roads
- Less transportation units than lattice boom crawler cranes
- Universally employable: heavy load, industry, wind power
- Efficient for operation in wind parks as well as for single units
- Dismantling of the crane for relocation, basic unit drives with only 3 m width

Lattice boom cranes without derrick system
Economical installation of wind turbines up to 120 m hub height

Hub height	LR 1500	LR 1700-1.0	LR 1700-1.0W	LR 1800-1.0	LR 11000	LG 1800-1.0
80 m	118 t	170 t	170 t	185 t	253 t	185 t
100 m	88 t	151 t	145 t	172 t	253 t	174 t
	Page 20	Page 22	Page 24	Page 26	Page 28	Page 30

Lattice boom cranes with derrick system
Maximum utilisation of load capacity

Hub height	LR 1500	LR 1700-1.0	LR 1700-1.0W	LR 1800-1.0	LR 11000	LG 1800-1.0
80 m	113 t					
100 m	90 t					
140 m	51 t	135 t	138 t	157 t	202 t	167 t
165 m	–	105 t	108 t	126 t	140 t	121 t
170 m	–	–	–	115 t	123 t	143 t
180 m	–	–	–	80 t	110 t	135 t
190 m	–	–	–	–	87 t	–
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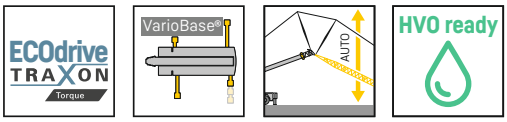
Telescopic mobile crane

max	350 t
m	70 m
	455 kW 619 HP
	180 kW 245 HP
	140 t
	12 x 6 x 12 12 x 8 x 12
km/h	85

LTM 1350-6.1

A real power pack, but flexible as well!

- 6-axle all terrain chassis
- Longest telescopic boom of its class
- Self-assembly of Y-guying system for telescopic boom
- Top capacities at the fixed jib for erection and maintenance of wind power generators
- Sensitive manoeuvring due to comfortable all-wheel steering and torque converter
- Economical transportation logistics as for maximum capacities at steep working radii only partial ballast is needed



Telescopic boom + Y-guying system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
60 m	35 t x 16 m	70 m	TYVEF
80 m	21.1 t x 18 m	88 m	TYVEF
100 m	8.2 t x 22 m	106 m	TYVEFH

Telescopic boom + Y-guying system + luffing jib

Hub height	Max. capacity at radius	Hook height	System
60 m	31 t x 18 m	71 m	TYVEN
80 m	17.3 t x 24 m	92 m	TYVEN
100 m	10.1 t x 30 m	109 m	TYVEN

Telescopic mobile crane

max	400 t
m	60 m
	450 kW 612 HP
	240 kW 326 HP
	140 t
	14 x 6 x 14 14 x 8 x 14
km/h	85

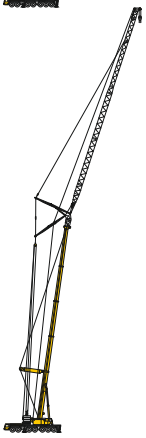
LTM 1400-7.1

Manoeuvrable and flexible with seven axles.

- 7-axle all terrain chassis
- Strong boom system due to Y-guying system and spacer
- Self-assembly of Y-guying system for telescopic boom
- Sensitive manoeuvring due to comfortable all-wheel steering and torque converter
- Hydraulic adjustment of the ballast radius from 5.6 m to 6.6 m, thus reduction of ballast transportation
- Economical transportation logistics as for maximum capacities at steep working radii only partial ballast is needed

Telescopic boom + Y-guying system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
60 m	29.3 t x 16 m	70 m	TYSF
80 m	16.8 t x 16 m	87 m	TYSF
100 m	7.4 t x 22 m	107 m	TYSF



Telescopic boom + Y-guying system + luffing jib

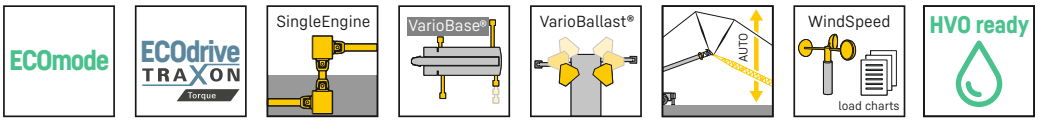
Hub height	Max. capacity at radius	Hook height	System
60 m	46.5 t x 16 m	68 m	TYSN
80 m	27.5 t x 22 m	88 m	TYSN
100 m	14.9 t x 30 m	108 m	TYSN

Telescopic mobile crane

LTM 1450-8.1

The big fast-erecting crane!

- 8-axle all-terrain chassis
- Travel on public roads with 85 m telescopic booms and four support beams at 12 t axle load
- Hydraulically variable adjustment of the ballast radius from 5 m to 7 m, thus saving on ballast transport
- Sensitive manoeuvring thanks to comfortable all-wheel steering and torque converter
- Economical transport logistics, as for maximum load-bearing capacity in steep working areas only a partial ballast is required



Telescopic boom

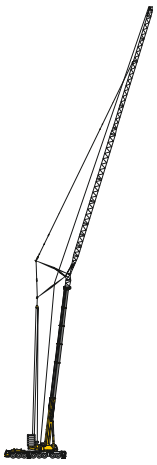
Hub height	Max. capacity at radius	Hook height	System
60 m	33.7 x 16 m	68 m	T

Telescopic boom + swing-away jib

Hub height	Max. capacity at radius	Hook height	System
80 m	17.4 x 17 m	88 m	TK

Telescopic boom + luffing jib

Hub height	Max. capacity at radius	Hook height	System
60 m	50 t x 20 m	68 m	TN
80 m	27.2 t x 24 m	89 m	TN
100 m	14.9 t x 32 m	108 m	TN
120 m	3.7 t x 36 m	130 m	TN



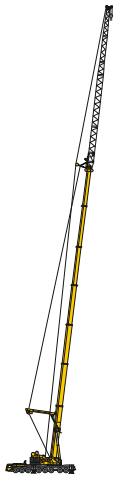
Telescopic mobile crane

- max 500 t
- m 50 m / 84 m
- 500 kW 680 HP
- 240 kW 326 HP
- 165 t
- 16 x 8 x 12
- km/h 85

LTM 1500-8.1

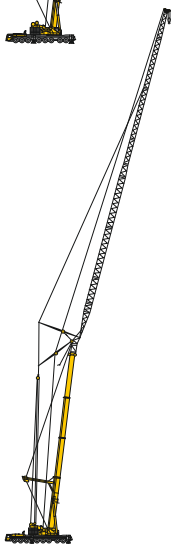
The most successful large crane of all time.

- 8-axle all terrain chassis
- Bestseller for the assembly of wind generators of the 1.5 MW class
- Multi variable boom system: 50 m and 84 m telescopic boom, fixed and luffing lattice jib
- Sensitive manoeuvring due to comfortable all-wheel steering and torque converter
- Economical transportation logistics as for maximum capacities at steep working radii only partial ballast is needed



84 m-telescopic boom + Y-guying system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
60 m	64 t x 16 m	72 m	TY3ENZF
80 m	38.5 t x 20 m	88 m	TY3ENZF
100 m	17.2 t x 24 m	109 m	TY3ENZF



50 m-telescopic boom + Y-guying system + luffing jib

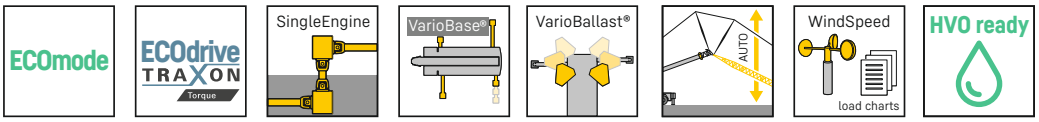
Hub height	Max. capacity at radius	Hook height	System
60 m	78 t x 18 m	72 m	TY3SN
80 m	56 t x 24 m	90 m	TY3SN
100 m	31 t x 30 m	109 m	TY3SN
105 m	24 t x 34 m	116 m	TY3SN
120 m	16.1 t x 38 m	129 m	TY3SN

Telescopic mobile crane

LTM 1650-8.1

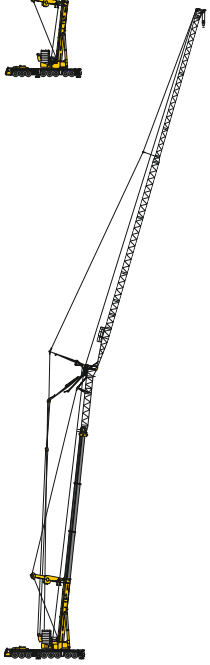
The maximum on eight axles.

- 8-axle all-terrain chassis
- Driving on public roads with 54 m telescopic boom and the front outrigger beams at 12 t axle load
- Hydraulically variable adjustment of the ballast radius from 6.4 m to 8.4 m, thus saving on ballast transport
- Sensitive manoeuvring thanks to comfortable all-wheel steering and torque converter
- Automized raising and lowering of the luffing jib
- Economical transportation logistics



Telescopic boom + Y-guying system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
80 m	56.4 t x 16 m	89 m	T5YVENZF 15°



Telescopic boom + Y-guying system + luffing jib

Hub height	Max. capacity at radius	Hook height	System
80 m	68 t x 21 m	87 m	T3YV2EN
90 m	56.3 t x 24 m	97 m	T3YV2EN
100 m	45 t x 28 m	107 m	T3YV2EN
110 m	34.6 t x 32 m	117 m	T3YV2EN
120 m	26.4 t x 32 m	127 m	T3YV2EN
130 m	18.7 t x 38 m	137 m	T3YV2EN
140 m	12.7 t x 42 m	147 m	T5YVEN

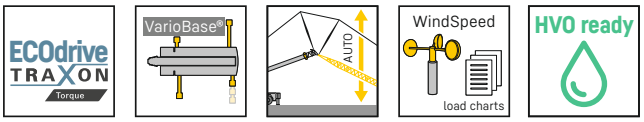
Telescopic mobile crane

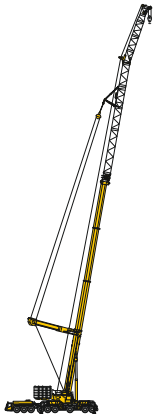
- 800 t
- 52 m
- 505 kW 686 HP
- 300 kW 408 HP
- 204 t
- 18 x 8 x 18
- km/h 85

LTM 1750-9.1

Wide range of uses with powerful boom systems.

- 9-axle all terrain chassis
- Driving on public roads with telescopic boom and 2 outrigger beams at 12 t axle load
- Most modern working equipment: fixed and luffing lattice jib, boom extension and auxiliary jib are optimized for the assembly of wind power generators
- Sensitive manoeuvring due to comfortable all-wheel steering and torque converter
- Economical transportation logistics as for maximum capacities at steep working radii only partial ballast is needed





Telescopic boom + Y-guying system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
80 m	56.5 t x 18 m	88 m	TYV23E3F 10°

Telescopic boom + Y-guying system + luffing jib

Hub height	Max. capacity at radius	Hook height	System
80 m	92.1 t x 19 m	89 m	TYV23EN
90 m	79.8 t x 21 m	98 m	TYV23EN
100 m	65.6 t x 24 m	108 m	TYV23EN
105 m	61.2 t x 25 m	112 m	TYV23EN
110 m	46 t x 28 m	118 m	TYV2EN
120 m	33 t x 34 m	129 m	TYV2EN
130 m	22.8 t x 38 m	138 m	TYV2EN
140 m	14.3 t x 42 m	148 m	TYV2EN

Telescopic mobile crane

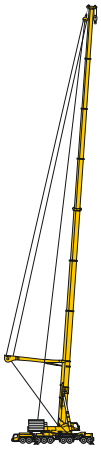
- 1,200 t
- 55 m / 100 m
- 505 kW 686 HP
- 300 kW 408 HP
- 202 t
- 18 x 8 x 18
- 80

LTM 11200-9.1

The largest Liebherr mobile crane.

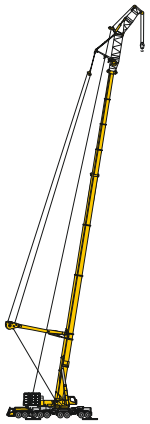
- 9-axle all terrain chassis
- Strongest mobile crane worldwide
- Driving on public roads at 12 t axle load with slewing platform and 4 outrigger beams without telescopic boom
- Driving on jobsites with 100 m telescopic boom and Y-guying system plus attachments
- Sensitive manoeuvring due to comfortable all-wheel steering and torque converter
- Economical transportation logistics as for maximum capacities at steep working radii only partial ballast is needed

HVO ready



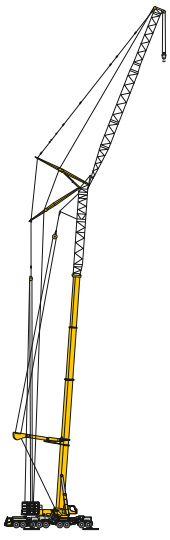
100 m-telescopic boom + Y-guying system

Hub height	Max. capacity at radius	Hook height	System
80 m	84 t x 16 m	92 m	T7Y



100 m-telescopic boom + Y-guying system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
80 m	94 t x 20 m	89 m	T7YVENZF
100 m	76 t x 16 m	107 m	T7YVEV2NZF
105 m	65 t x 16 m	114 m	T7YVEV3V2NZF



55 m-telescopic boom + Y-guying system + luffing jib

Hub height	Max. capacity at radius	Hook height	System
80 m	141 t x 18 m	90 m	T3YVEN
100 m	97 t x 22 m	112 m	T3YV2VEN
105 m	83 t x 24 m	117 m	T3YV2VEN
120 m	58 t x 32 m	128 m	T3YV2VEN
130 m	38 t x 36 m	138 m	T3YV2VEN
140 m	26.1 t x 44 m	148 m	T3YV2VEN
150 m	15.8 t x 50 m	158 m	T3YV2VEN

Lattice boom crawler crane

- 500 t
- 330 kW
  449 HP
- 190 t
- 55 t
- max.
  280 t x 16 m
- 7.6 m

LR 1500

Powerful, smart, compact.

- The latest crawler crane technology
- Improved wind power systems for tower heights of 80 m to 100 m
- Worldwide cost-effective transport
- The dimensions of a 400 t class with the lifting capacity of a 500 t crane over its entire working range

Main boom + fixed jib

Hub height	Max. capacity at radius	Hook height	System
80 m	107 t x 16 m	94 m	SL3F
80 m	118 t x 16 m	94 m	SL8F
90 m	88 t x 18 m	103 m	SL3F
90 m	101 t x 18 m	103 m	SL8F
100 m	77 t x 18 m	112 m	SL3F
100 m	88 t x 18 m	112 m	SL8F

Main boom + derrick system + fixed jib

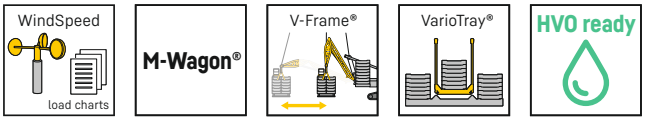
Hub height	Max. capacity at radius	Hook height	System
100 m	90 t x 24 m	112 m	SL4DFB
120 m	73 t x 24 m	130 m	SL4DFB
130 m	59 t x 22 m	142 m	SL4DFB
140 m	51 t x 22 m	150 m	SL4DFB

Lattice boom crawler crane

LR 1700-1.0

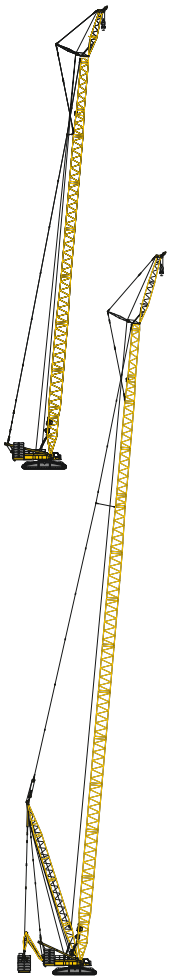
Blending worlds, merging types

- The perfect crane for wind power
- Unbeatable lattice boom technology – dimensions from the 600 t class and lifting capacities from the 750 t class
- Latest generation of fixed jib F with 170 t lifting capacity and integral runner
- Heavy-duty crawler carrier (HD) for maximum driving performance



Main boom + fixed jib

Hub height	Max. capacity at radius	Hook height	System
80 m	170 t x 16 m	93 m	HSL3AF
90 m	168 t x 16 m	102 m	HSL3AF
100 m	151 t x 17 m	110 m	HSL3AF
105 m	140 t x 18 m	113 m	HSL3AF
105 m	135 t x 18 m	116 m	HSL2AF
110 m	114 t x 18 m	119 m	HSL2AF
110 m	103 t x 19 m	122 m	HSL2AF



Main boom + derrick system + fixed jib

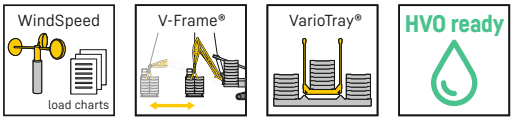
Hub height	Max. capacity at radius	Hook height	System
140 m	135 t x 30 m	152 m	HSL9ADFBV
150 m	120 t x 30 m	161 m	HSL9ADFBV
160 m	109 t x 32 m	170 m	HSL9AZDFBV
165 m	105 t x 28 m	173 m	HSL9AZDFBV
166 m	99 t x 28 m	177 m	HSL9AZDFBV

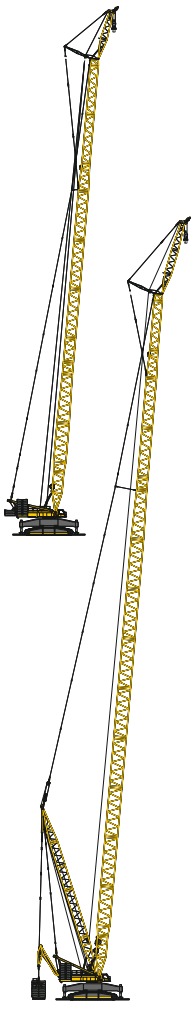
Narrow track lattice boom crawler crane

LR 1700-1.0W

Big impact on narrow track.

- Optimal driving on narrow roads, total width of the crawler chassis only 5.9 m
- High safety during driving as the support plates can be kept close to the ground and the folding beams can be adapted to the available road width
- Driving with 126 m main boom and 27 m fixed jib with derrick system, as well as with a 111 m main boom and 15 m fixed jib without derrick system
- High stability during crane operation due to crane supports
- 2 m-crawler plates, quick connection and 4-fold crawler drive standard
- Radio remote control for driving and supporting
- Heavy-duty crawler carrier (HD) for maximum driving performance





Main boom + fixed jib

Hub height	Max. capacity at radius	Hook height	System
80 m	170 t x 16 m	95 m	HSL3AF
90 m	170 t x 16 m	104 m	HSL3AF
100 m	145 t x 18 m	112 m	HSL3AF
105 m	141 t x 18 m	115 m	HSL3AF
105 m	135 t x 18 m	118 m	HSL3AF
110 m	117 t x 18 m	121 m	HSL3AF
110 m	106 t x 19 m	124 m	HSL3AF

Main boom + derrick boom + fixed jib

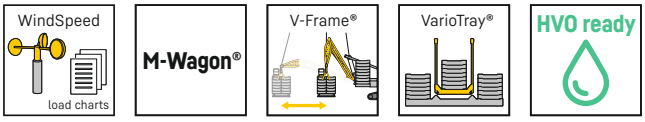
Hub height	Max. capacity at radius	Hook height	System
140 m	138 t x 30 m	154 m	HSL9ADFBV
150 m	124 t x 30 m	163 m	HSL9ADFBV
160 m	113 t x 30 m	172 m	HSL9AZDFBV
165 m	108 t x 32 m	175 m	HSL9AZDFBV

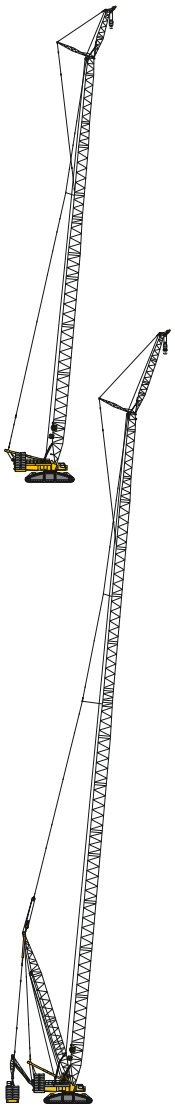
Lattice boom crawler crane

LR 1800-1.0

Strong like a bull.

- Top all-rounder
- Boom systems from a module system, which all fit together
- Simple switch to the world of industry
- Unbeatably low ground pressure using 2.4 m ground plates
- Equipment compatible with LG 1800-1.0





Main boom + fixed jib

Hub height	Max. capacity at radius	Hook height	System
80 m	185 t x 18 m	95 m	HSL3AF
90 m	185 t x 17 m	101 m	HSL3AF
100 m	166 t x 19 m	113 m	HSL3AF
105 m	164 t x 18 m	119 m	HSL3AF
110 m	140 t x 20 m	122 m	HSL5AF
115 m	127 t x 20 m	125 m	HSL5AF

Main boom + derrick system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
140 m	157 t x 24 m	155 m	HSL2ADFBV
150 m	134 t x 24 m	163 m	HSL2ADFBV
160 m	114 t x 24 m	172 m	HSL2ADFBV
165 m	98 t x 26 m	177 m	HSL2ADFBV
165 m	126 t x 26 m	177 m	HSL4AZD2FBV
170 m	90 t x 26 m	184 m	HSL2ADFBV
170 m	115 t x 26 m	184 m	HSL4AZD2FBV
185 m	62 t x 26 m	198 m	HSL4AZD2FBV

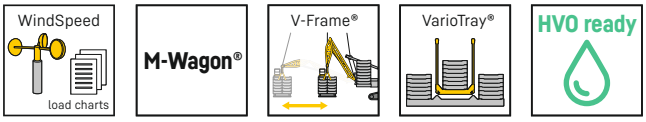
Lattice boom crawler crane

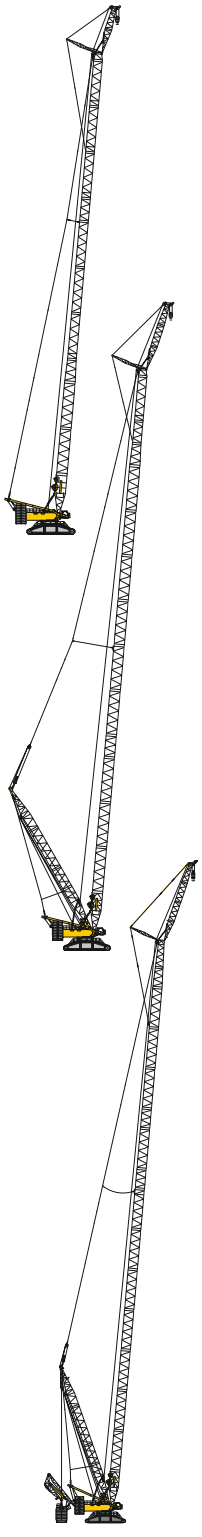
- 1,000 t
- 500 kW
  680 HP
- 250 t
- 130 t
- max.
  450 t x 20 m
- max.
  450 t x 30 m
- max.
  450 t x 30 m
- 9.2 m

LR 11000

Stays strong when things get tight.

- Excellent capacities over the complete working range
- Variable boom systems for the erection of wind power plants
- Also deployable with great flexibility in wind parks without derrick system
- Enormous capacity increases with PowerBoom
- Transportation optimized dimensions and weights
- Outstanding assembly times due to simple set-up concept





Main boom + fixed jib

Hub height	Max. capacity at radius	Hook height	System
100 m	253 t x 17 m	114 m	SL8F2
105 m	233 t x 18 m	120 m	SL8F2
110 m	212 t x 19 m	123 m	SL8F2
115 m	193 t x 21 m	126 m	SL8F2

Main boom + derrick system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
120 m	209 t x 18 m	132 m	SL8DF2
130 m	184 t x 19 m	144 m	SL8DF2
135 m	160 t x 22 m	150 m	SL8DF2
140 m	145 t x 24 m	156 m	SL8DF2

Main boom + derrick system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
140 m	202 t x 24 m	156 m	SL10DF2BV
150 m	182 t x 24 m	156 m	SL10DF2BV
160 m	156 t x 24 m	174 m	SL10DF2BV
166 m	140 t x 24 m	180 m	SL10DF2BV
170 m	123 t x 28 m	186 m	SL10DF2BV
175 m	116 t x 28 m	189 m	SL10DF2BV
180 m	110 t x 30 m	192 m	SL10DF2BV
190 m	87 t x 32 m	202 m	SL10DF2BV

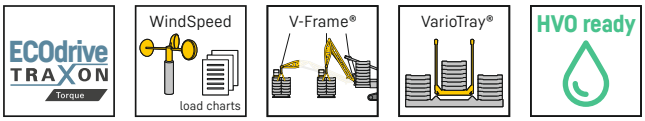
Lattice boom mobile crane

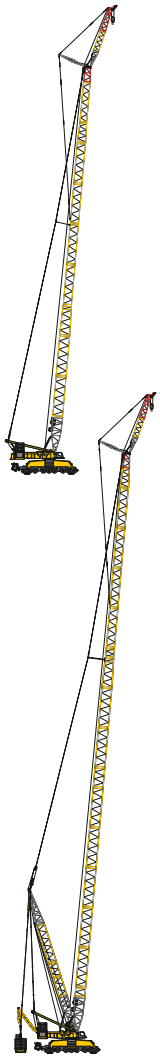
max	800 t
	505 kW 686 HP
	455 kW 619 HP
	270 t 25 t
B	max. 400 t x 20 m
BV	max. 400 t x 24,4 m
	13 m x 13 m
km/h	85

LG 1800-1.0

The legend grows.

- Successor to the legendary LG 1750
- The master of wind power
- Combination of the strength and flexibility of an 800-tonne crawler crane with the mobility of a mobile crane
- The base unit can be driven on regular roads within 3 m width anywhere in the world thanks to flexible axle loads
- HSL5AF for 120 m turbines without derrick system, HSL4 with derrick system for hook heights of 196 m
- Equipment compatible with LR 1800-1.0
- X3 boom system for outstanding load bearing capacities





Main boom + fixed jib

Hub height	Max. capacity at radius	Hook height	System
80 m	185 t x 20 m	97 m	HSL5AF
90 m	185 t x 20 m	103 m	HSL5AF
100 m	174 t x 18 m	115 m	HSL5AF
110 m	154 t x 18 m	124 m	HSL5AF
120 m	122 t x 22 m	132 m	HSL5AF

Main boom + derrick system + fixed jib

Hub height	Max. capacity at radius	Hook height	System
140 m	167 t x 24 m	156 m	HSL4AZD2FBV
150 m	153 t x 24 m	165 m	HSL4AZD2FBV
160 m	134 t x 26 m	174 m	HSL4AZD2FBV
160 m	162 t x 26 m	174 m	X3AZD2FBV
170 m	111 t x 24 m	186 m	HSL4AZD2FBV
170 m	143 t x 26 m	183 m	X3AZD2FBV
185 m	63 t x 32 m	196 m	HSL4AZD2FBV
185 m	83 t x 30 m	200 m	X3AZD2FBV

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**Our MyLiebherr portal is the easy way for you to access Liebherr's digital service world.
Take advantage of extensive basic and additional services for your mobile and crawler cranes.**

One portal, all services

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