

Stationary Electric Material Handlers

EP 934 C Working Radius: 13 – 20 m
EP 944 C Working Radius: 15 – 22 m
EP 954 C Working Radius: 16 – 24 m



LIEBHERR

EP 934 C

Working radius: 13 – 20 m
Motor rating: 160 kW/217 hp
Weight: 28,600 kg – 29,600 kg

EP 944 C

Working radius: 15 – 22 m
Motor rating: 200 kW/272 hp
Weight: 38,300 kg – 40,600 kg

EP 954 C

Working radius: 16 – 24 m
Motor rating: 250 kW/340 hp
Weight: 50,300 kg – 51,600 kg



Performance

These new electric Material Handlers have been designed to meet the specific needs of industrial handling. A wide range of equipment and uppercarriages optimized for long working radius provide the ideal answer to all the demands which arise in the industry.

The performance of the kinematic chain formed from components from our in-house production, combined with the power of the electric motor, maximize the performance of the machine when it comes to lifting power, precision, and speed of operation.

Reliability

Backed by more than 30 years experience in the construction of electric excavators, Liebherr designed the new EP 934 C, EP 944 C and EP 954 C with the aim of providing top performance whatever the challenge might be. The structure of the machine, using components from our own manufacture for the electric drive, has been completely rethought, and so moves away from simply being an adaptation of a diesel-engine machine.

Being intended for key functions in the organization of industrial sites, Liebherr electric Material Handlers provide a very high level of reliability. The service life of the hydraulic components has also been increased, thanks to the smoother movement of the electric drive.

The concept of the single actuator (one single electric motor for all the hydraulic functions) allows for the risk area associated with the low voltage at the electric cabinet to be reduced even further.

Comfort

Helping the operator to concentrate on his work and get the best out of his machine is achieved by providing a comfortable driving position, good visibility, and a highly ergonomic layout of the controls. The new electric Material Handlers offer the same level of comfort as on the mobile excavators (arrangement of the controls, driver's seat, climate control, large window areas, etc.). The electric motor system adds a further layer of comfort thanks to the low noise emissions and absence of vibration.

For Liebherr, comfort also means ease of daily maintenance of the machine in terms of access to the service and inspection points, so as to minimize downtime.

Economy

Investing in the acquisition of an electric Material Handler is a great long-term advantage. Constant increases in the costs of conventional energy sources are pushing up operating charges, and reducing profit margins considerably. Environmental criteria, in particular CO₂ emissions, are also playing a constantly greater part in the choice of power systems and working methods. With the electric drive, Liebherr offers an economical alternative to conventional diesel-engine machines, and a solution with real respect for the environment.



Excavator electric at a glance

Cab with special control panel

- Control power on/off of the excavator
- Additional interface for the cable reel option



Integrated electric cabinet

- Hard conditions
- Pressure relief system to prevent the intrusion of dust
- Closing with padlocks
- Robust



Wide range of tools, including

- Grapples
- Shells for Loose Material
- Wood clamps
- Quick change adapter



Wide range of equipments

- Range of equipments from the stationary excavators for a moving machine
- Special adjustments on demand



Kinematic chain Liebherr

- High work precision
- Immediate response
- Large power for maximum productivity



Electric motor

- Hard conditions
- Constant regime whatever the load
- Integrated sensors for maximum availability





Cab elevation

- Wide range of rigid cab elevation and adjustable hydraulically
- High visibility of the working area and the site



Walkways

- Wide walkways and handrails all around the excavator
- Can be fitted with secure trapdoors, wicket doors



Access

- As standard, safety and comfort to access the work space
- Handrails, non-slip surfaces



Undercarriage

- Derived from thermal excavators, specifically equipped for electric excavators :
 - cable entry
 - power connector
 - slip ring collector
- Stability for all operations



Cable entry

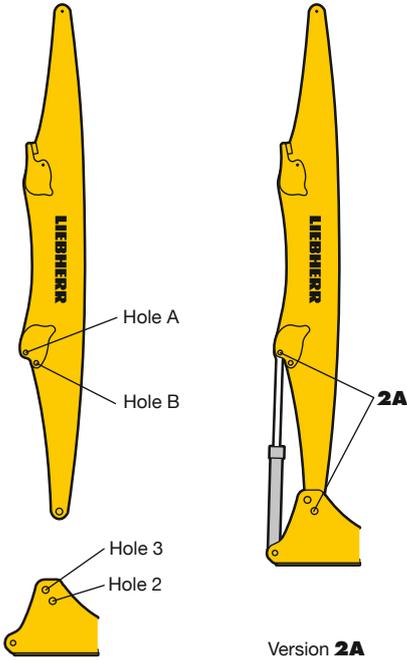
- In free-standing, cable left entry as standard, right or rear on demand
- Rear cable reel for a large radius of action and movement facilities
- Side cable reel for in-line processes



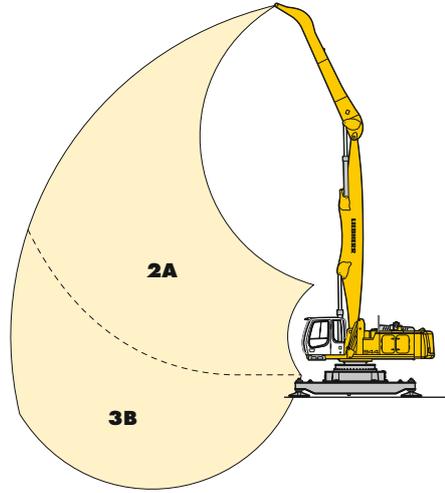
VarioLiftPlus

Variable Boom Mounting Positions for Optimized Lift Capacities

Example with Free Standing Pedestal Low Version

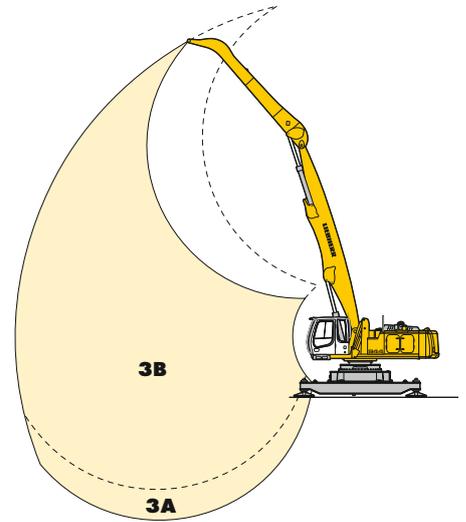


with **the same** working range



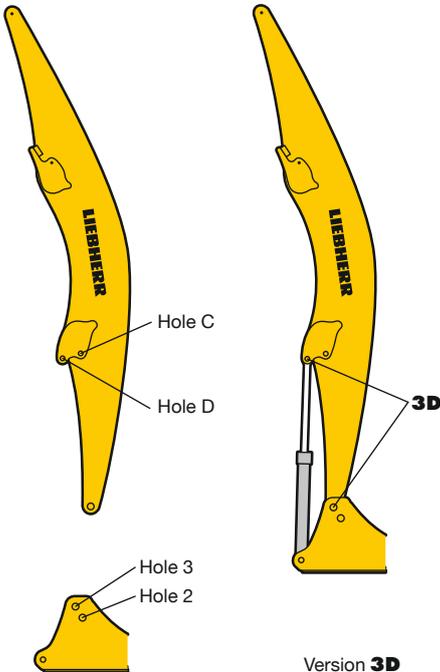
Kinematic variant 2A:
Increased lift capacities above ground level
Kinematic variant 3B:
Increased lift capacities below ground level
and when working at large outreach

with a **different** working range

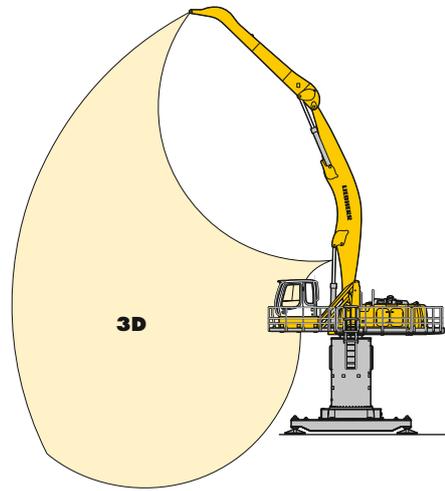


Kinematic variant 3A:
Altered range curve with additional reach
depth, e.g. for unloading from ships

Example with Free Standing Pedestal High Version



with a **different** working range



Kinematic variant 3D:
Increased lift capacities below ground level
and when working at large outreach

Kinematic variant 3C:
Altered range curve with additional reach
depth, e.g. for unloading from ships

Technical Data



Electric Motor

Engine	induction motor dedicated definition Liebherr		
	934	944	954
Power rating (as per CEI 34-1)	160 kW (218 HP)	200 kW (272 HP)	250 kW (340 HP)
Rated voltage	400 V – 50 Hz*		
Number of poles	4		
Design type	horizontal axle B35 axle height 315 mm		
Standard degree of protection	IP55		
Insulation	class F		
Cooling	IC06		
Heat protection for windings			
Heat protection for bearings			
Anti-condensation heating system resistors			



Electric System

The 400 V electrical cabinet provides a degree of protection to IP55.

This houses the following components:

- Electrical cabinet – remote control inside the cab
- Star/delta starter for motor
- Outlets for supplying auxiliary elements: heating, climate control
- Overheat protection devices
- Integrated heating and ventilation
- Filtered booster
- Transformers – rectifier for 24 V control circuit
- Motor protection
- Auxiliary batteries: 2 x 135 Ah/12 V: secured functions: lighting for excavator/ attachment position (option)
- Connecting inside closed panel



Hydraulic System

	934	944	954
Hydraulic pump for the attachment	two Liebherr swash plate pumps with variable output		
Max. flow	2 x 253 l/min.	2 x 305 l/min.	2 x 341 l/min.
Max. pressure	350 bar		
Pumpenansteuerung	electro-hydraulic, with electronic regulation by power limit, minimum pump flow at max. pressure, distribution of oil to different receptor components proportional to demand		
Hydraulic pump for the swing drive	reversible swash plate pump, in closed circuit		
Max. flow	170 l/min.	205 l/min.	205 l/min.
Max. pressure	370 bar		
Hydraulic tank	340 l	460 l	440 l
Hydraulic system	550 l	710 l	790 l
Filtration	934: filter in the return circuit, with integrated fine filter elements (5 µm) 944/954: 2 filters in the return circuit, with integrated fine filter elements (5 µm)		
Cooling	radiator equipped with hydrostatic drive fan for cooling the hydraulic oil and climate control condenser		
Tool Control	10 flow rates and pressures adjustable as option for optional accessories		



Hydraulic Controls

Power distribution	with the aid of hydraulic distributors with integrated safety valves
Flow summation	to boom stick and stick
Closed-loop circuit	for uppercarriage swing drive mechanism
Control	
Attachment and swing	proportional by handling element in cross operation
Travel	proportional by pedals or by lever
Additional functions	proportional by pedals or by toggle switch



Swing Drive

Drive by	hydraulic swash plate motor with integrated brake valves		
Transmission	Liebherr compact planetary reduction gear		
Swing ring	Liebherr, sealed single race ball bearing swing ring, internal teeth		
	934	944	954
Swing speed	0 – 9.4 RPM	0 – 7.9 RPM	0 – 5.6 RPM
	stepless	stepless	stepless
Swing torque	81.07 kNm	119 kNm	167.23 kNm
Holding brake	oil-bath disk brake (negative action)		
Option	pedal controlled positioning brake		



Operator's Cab

Cab	single shell concept with shaped profiles, resiliently mounted, sound insulated, tinted windows. Front window can be folded away under roof, door with sliding window		
Operator's seat	shock absorbing suspension, adjustable to operator's weight, 6-way adjustable seat		
Controls	integrated into adjustable seat consoles		
Monitoring	menu driven digital display of current operating conditions. Automatic monitoring, display, warning (audible and visual signal) and saving of machine malfunction data, such as overheating of windings, motor bearings, or low hydraulic oil level		
Climate control	standard climate control system, combined cooler/heater, additional dust filter in the outside/fresh air circuit		
	934	944	954
Noise emission ISO 6396			
L _{2A} (inside cab)	66 dB(A)	65 dB(A)	67 dB(A)
2000/14/EC			
L _{WA} (surround noise)	102 dB(A)	103 dB(A)	105 dB(A)



Resilient Suspension

The resilient suspension consists of 12 resilient contact blocks. Its main function is to absorb the shocks and vibrations resulting from the movement of the excavator.

An electrical rotating joint is integrated into the resilient suspension and allows the electrical supply to the excavator to be assured. This meets the sealing requirements of IP55.



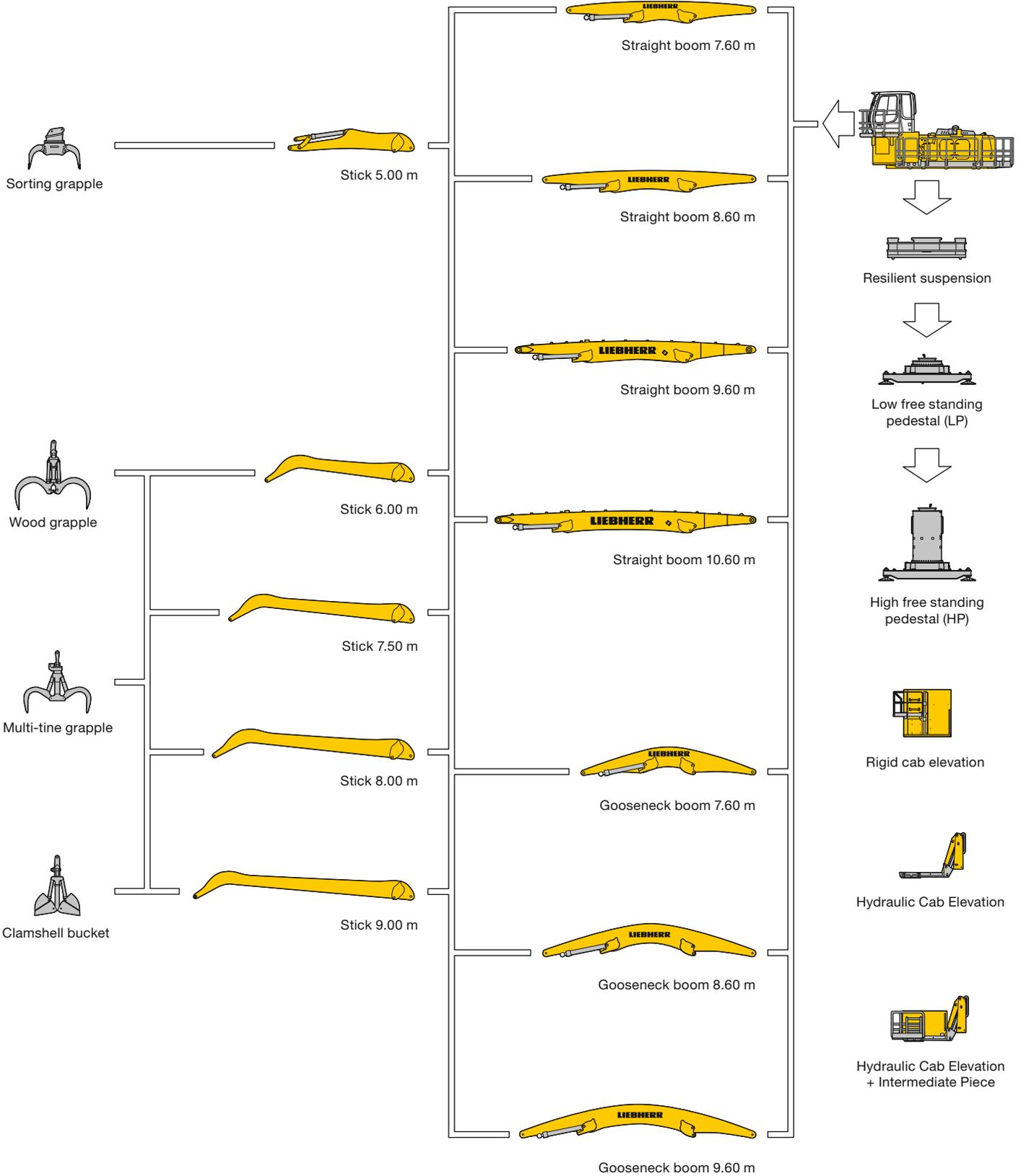
Attachment

Type	high-strength steel for extreme stresses. Bearings designed for optimum distribution of stresses
Hydraulic cylinders	Liebherr cylinders with end-of-travel shock absorbing, fitted with guide and sealing joints
Pivots	sealed, low maintenance
Lubrication	centralised semi-automatic Liebherr lubrication system
VarioLiftPlus	variable boom mounting positions for optimized lift capacities

* Other voltages and frequencies possible on request.

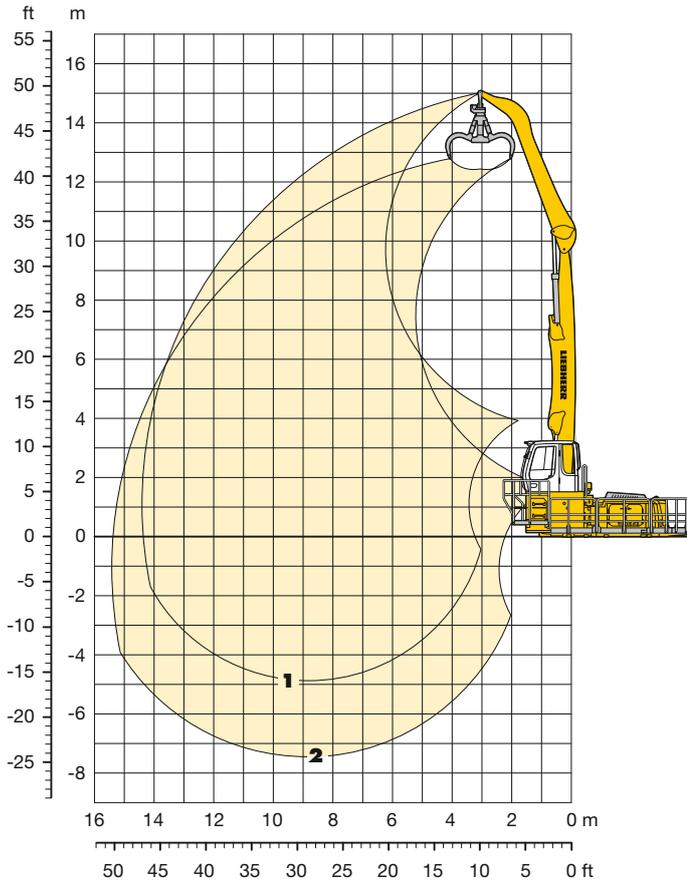
The right attachment for every application

EP 934 C



Industrial Attachment

with Industrial-Type Straight Boom 8.60 m



Attachment Envelope

Kinematic variants 3A/3B

- 1 with industrial stick 6.00 m (3B)
- 2 with industrial stick 6.00 m and grapple model GM 65 (3B)

Operating Weight

The operating weight includes the basic machine with rigid cab elevation 1.20 m, counterweight 7.5 t, handrails, industrial-type straight boom 8.60 m, industrial stick 6.00 m and grapple model GM 65 with 5 semi-closed tines 0.60 m³.

Weight 28,600 kg

Swing ring base as reference.

Lift Capacities

with Industrial-Type Straight Boom 8.60 m

EP 934 C

Industrial Stick 6.00 m (Variant 3B)

↕ m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m	19.5 m	21.0 m	22.5 m		
																m	m
15.0	Ponton															10.7*	3.1
13.5	Ponton			8.9*												7.0*	7.1
12.0	Ponton			8.5*	7.8*	6.7*										5.9*	9.3
10.5	Ponton				7.4*	6.9*	6.4*									5.4*	10.9
9.0	Ponton				7.4*	6.8*	6.4*	5.1*								5.1*	12.0
7.5	Ponton			8.5*	7.6*	6.9*	6.4*	6.1*								4.9*	12.9
6.0	Ponton			9.2*	8.0*	7.2*	6.6*	6.1*	5.0*							4.8*	13.5
4.5	Ponton		12.7*	10.2*	8.7*	7.6*	6.8*	6.2*	5.7*							4.8*	14.0
3.0	Ponton	9.9*	15.2*	11.5*	9.4*	8.0*	7.1*	6.4*	5.8*							4.8*	14.3
1.5	Ponton		8.9*	12.7*	10.1*	8.5*	7.3*	6.5*	5.8*							5.0*	14.4
0	Ponton		4.6*	13.6*	10.7*	8.8*	7.5*	6.6*	5.8*							5.1*	14.4
- 1.5	Ponton		4.7*	12.0*	10.9*	9.0*	7.6*	6.6*	5.6*							5.1*	14.2
- 3.0	Ponton		5.7*	11.1*	10.8*	8.9*	7.5*	6.4*								5.5*	13.2
- 4.5	Ponton				10.3*	8.5*	7.1*									6.8*	10.9

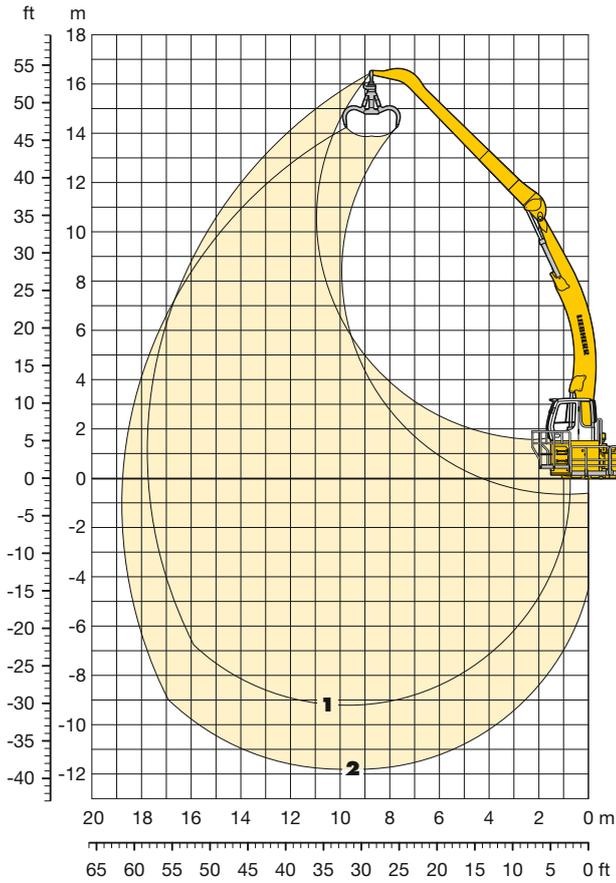
↕ Height  Max. reach * Limited by hydr. capacity

The lift capacities are stated in metric tonnes (t) on the lifting gear's stick tip, and can be lifted 360° on firm, level supporting surface. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Lifting capacity of the excavator is limited by machine stability, hydraulic capacity and maximum permissible load of the load hook.

According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic check valves on the hoist cylinders, when they are used for lifting operations which require the use of lifting accessories.

Industrial Attachment

with Industrial-Type Gooseneck Boom 9.60 m



Attachment Envelope

Kinematic variants 3C/3D

- 1 with industrial stick 9.00 m (3D)
- 2 with industrial stick 9,00 m and grapple model GM 65 (3D)

Operating Weight

The operating weight includes the basic machine with rigid cab elevation 1.20 m, counterweight 7.5 t, handrails, industrial-type gooseneck boom 9.60 m, industrial stick 9.00 m and grapple model GM 65 with 5 semi-closed tines 0.60 m³.

Weight 29,600 kg

Swing ring base as reference.

Lift Capacities

with Industrial-Type Gooseneck Boom 9.60 m

EP 934 C

Industrial Stick 9.00 m (Variant 3D)

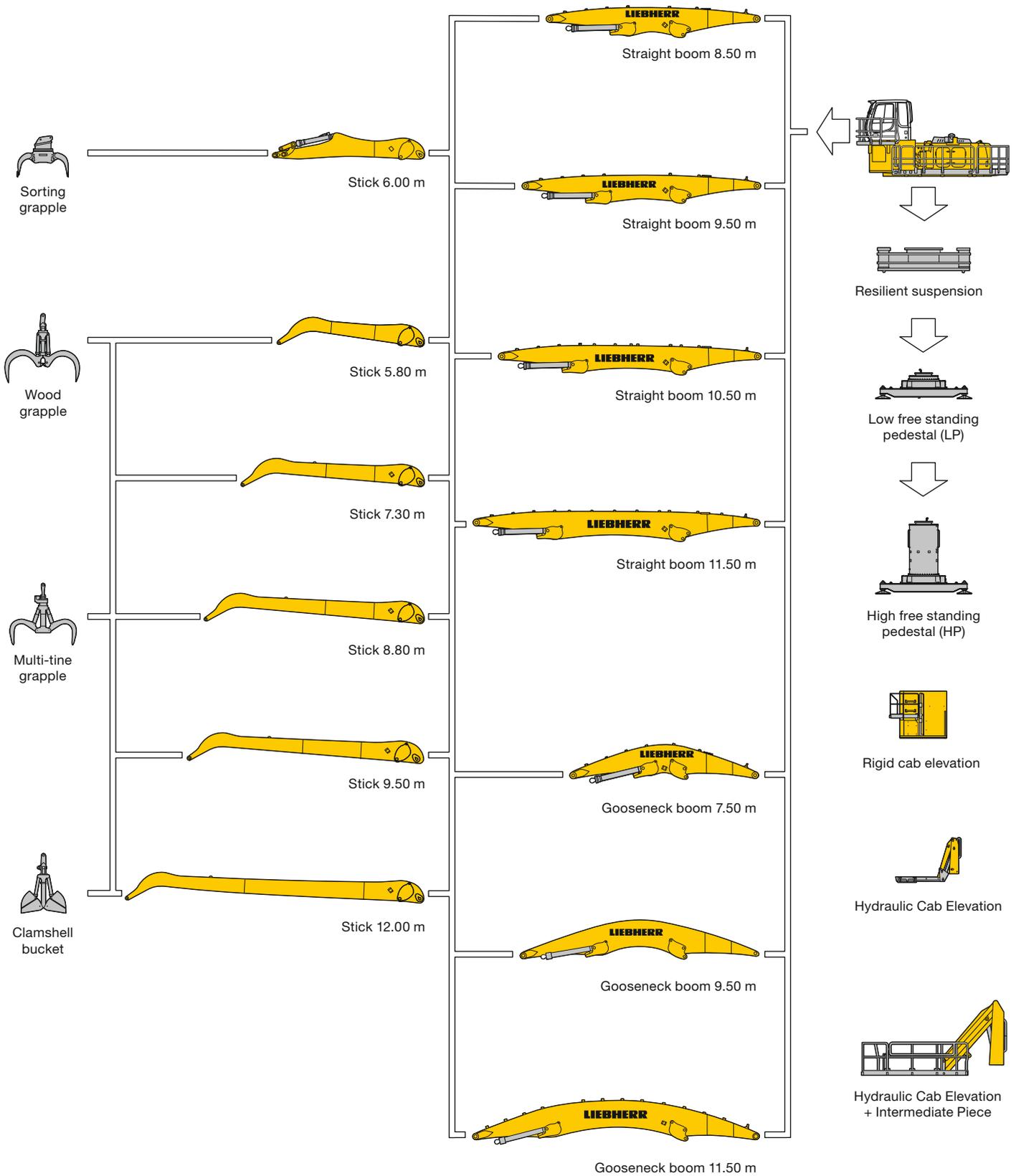
↕ m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m	19.5 m	21.0 m	22.5 m	 m	
15.0	Ponton						4.0*									3.6*	10.9
13.5	Ponton						4.5*	3.9*								3.3*	12.6
12.0	Ponton							4.2*	3.6*							3.1*	14.0
10.5	Ponton							4.1*	4.0*	3.0*						3.0*	15.0
9.0	Ponton							4.2*	4.0*	3.9*						2.9*	15.9
7.5	Ponton						4.5*	4.3*	4.1*	3.9*	3.0*					2.9*	16.6
6.0	Ponton						4.7*	4.4*	4.2*	3.9*	3.7*					2.9*	17.1
4.5	Ponton					5.4*	5.0*	4.6*	4.3*	4.0*	3.8*					2.9*	17.4
3.0	Ponton				6.8*	5.9*	5.3*	4.8*	4.4*	4.1*	3.9*					3.0*	17.7
1.5	Ponton	18.7*	12.3*	9.3*	7.6*	6.5*	5.7*	5.1*	4.6*	4.2*	3.9*					3.1*	17.8
0	Ponton	4.2*	14.7*	10.7*	8.4*	7.0*	6.0*	5.3*	4.8*	4.3*	4.0*					3.2*	17.7
- 1.5	Ponton	3.0*	6.9*	11.7*	9.1*	7.4*	6.3*	5.5*	4.9*	4.4*	4.0*					3.3*	17.6
- 3.0	Ponton	3.3*	5.7*	11.2*	9.5*	7.8*	6.6*	5.7*	5.0*	4.5*	4.0*					3.6*	17.3
- 4.5	Ponton	3.7*	5.6*	9.3*	9.7*	7.9*	6.7*	5.8*	5.0*	4.4*	3.9*					3.7*	16.8
- 6.0	Ponton	4.3*	5.8*	8.8*	9.7*	7.9*	6.7*	5.7*	5.0*	4.3*						3.7*	16.2
- 7.5	Ponton		6.2*	8.9*	9.3*	7.7*	6.5*	5.5*	4.7*	4.0*						3.9*	15.0
- 9.0	Ponton				7.2*	6.0*										5.3*	11.7

↕ Height  Max. reach * Limited by hydr. capacity

The lift capacities are stated in metric tonnes (t) on the lifting gear's stick tip, and can be lifted 360° on firm, level supporting surface. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Lifting capacity of the excavator is limited by machine stability, hydraulic capacity and maximum permissible load of the load hook.

According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic check valves on the hoist cylinders, when they are used for lifting operations which require the use of lifting accessories.

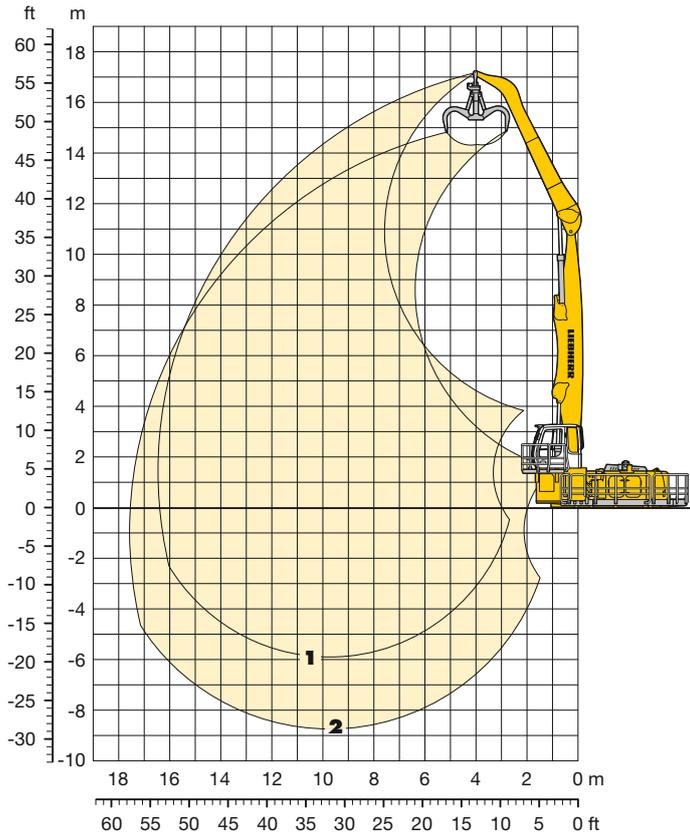
The right attachment for every application



Industrial Attachment

with Industrial-Type Straight Boom 9.50 m

EP 944 C



Swing ring base as reference.

Attachment Envelope

Kinematic variants 3A/3B

1 with industrial stick 7.30 m (3B)

2 with industrial stick 7.30 m and grapple model GM 70C (3B)

Operating Weight

The operating weight includes the basic machine with rigid cab elevation 1.20 m, counterweight 11.0 t, handrails, industrial-type straight boom 9.50 m, industrial stick 7.30 m and grapple model GM 70C with 5 semi-closed tines 1.10 m³.

Weight

38,300 kg

Lift Capacities

with Industrial-Type Straight Boom 9.50 m

Industrial Stick 7.30 m (Variant 3B)

↑ m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m	19.5 m	21.0 m	22.5 m		
																m	m
16.5	Ponton			11.0*												10.8*	6.1
15.0	Ponton				11.2*	8.7*										8.6*	9.0
13.5	Ponton				10.5*	9.8*	8.8*									7.6*	11.0
12.0	Ponton					9.4*	8.9*	8.3*								7.0*	12.5
10.5	Ponton					9.3*	8.8*	8.3*	7.2*							6.7*	13.6
9.0	Ponton				10.2*	9.5*	8.8*	8.3*	7.9*							6.5*	14.6
7.5	Ponton				10.7*	9.8*	9.0*	8.4*	7.9*	7.3*						6.4*	15.3
6.0	Ponton			13.2*	11.5*	10.3*	9.4*	8.6*	8.0*	7.5*						6.3*	15.8
4.5	Ponton		15.1*	14.9*	12.6*	11.0*	9.8*	8.9*	8.2*	7.6*						6.4*	16.2
3.0	Ponton	19.4*	22.6*	17.0*	13.8*	11.8*	10.3*	9.2*	8.4*	7.7*						6.5*	16.4
1.5	Ponton		11.2*	19.0*	15.0*	12.5*	10.8*	9.5*	8.6*	7.7*						6.6*	16.5
0	Ponton	0.7*	5.8*	20.2*	15.9*	13.1*	11.2*	9.8*	8.7*	7.8*						6.8*	16.4
-1.5	Ponton		5.8*	13.7*	16.5*	13.5*	11.4*	9.9*	8.7*	7.7*						6.7*	16.2
-3.0	Ponton		6.9*	12.8*	16.5*	13.6*	11.5*	9.9*	8.6*	7.4*						6.9*	15.6
-4.5	Ponton			13.4*	16.0*	13.2*	11.2*	9.6*	8.2*							7.7*	14.1

↑ Height  Max. reach * Limited by hydr. capacity

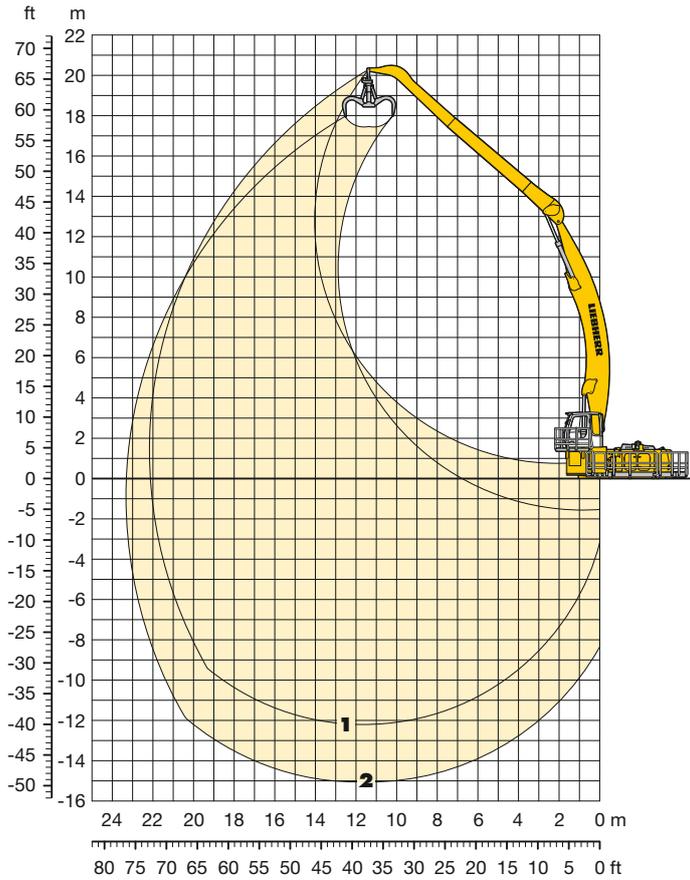
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Industrial Attachment

with Industrial-Type Gooseneck Boom 11.50 m

EP 944 C



Attachment Envelope

Kinematic variants 3C/3D

1 with industrial stick 12.00 m (3D)

2 with industrial stick 12.00 m and grapple model GM 70C (3D)

Operating Weight

The operating weight includes the basic machine with rigid cab elevation 1.20 m, counterweight 11.0 t, handrails, industrial-type gooseneck boom 11.50 m, industrial stick 12.00 m and grapple model GM 70C with 5 semi-closed tines 1.10 m³.

Weight

40,600 kg

Swing ring base as reference.

Lift Capacities

with Industrial-Type Gooseneck Boom 11.50 m

Industrial Stick 12.00 m (Variant 3D)

↑ m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m	19.5 m	21.0 m	22.5 m		
																m	m
19.5	Ponton							4.6*								4.1*	12.6
18.0	Ponton								4.6*							3.7*	14.5
16.5	Ponton								4.5*	4.3*						3.5*	16.1
15.0	Ponton									4.2*	4.1*					3.3*	17.4
13.5	Ponton									4.1*	4.0*	3.7*				3.2*	18.5
12.0	Ponton									4.1*	3.9*	3.8*				3.1*	19.4
10.5	Ponton									4.1*	4.0*	3.8*	3.7*			3.1*	20.2
9.0	Ponton								4.4*	4.2*	4.0*	3.8*	3.7*			3.1*	20.8
7.5	Ponton								4.6*	4.3*	4.1*	3.9*	3.7*	3.4*		3.1*	21.3
6.0	Ponton							5.1*	4.8*	4.5*	4.2*	4.0*	3.8*	3.6*		3.1*	21.7
4.5	Ponton							5.4*	5.0*	4.6*	4.3*	4.1*	3.8*	3.6*		3.1*	21.9
3.0	Ponton						6.4*	5.8*	5.3*	4.8*	4.5*	4.2*	3.9*	3.7*		3.2*	22.1
1.5	Ponton				9.4*	8.0*	7.0*	6.2*	5.5*	5.0*	4.6*	4.3*	4.0*	3.7*		3.3*	22.2
0	Ponton	11.3*	18.5*	13.5*	10.6*	8.8*	7.5*	6.5*	5.8*	5.2*	4.8*	4.4*	4.1*	3.8*		3.4*	22.1
-1.5	Ponton	4.0*	10.0*	15.0*	11.6*	9.4*	8.0*	6.9*	6.1*	5.4*	4.9*	4.5*	4.1*	3.8*		3.6*	22.0
-3.0	Ponton	3.6*	6.7*	13.3*	12.4*	10.0*	8.4*	7.2*	6.3*	5.6*	5.0*	4.6*	4.2*	3.8*		3.6*	21.7
-4.5	Ponton	3.9*	6.0*	10.1*	12.9*	10.4*	8.7*	7.4*	6.5*	5.7*	5.1*	4.6*	4.2*	3.8*		3.7*	21.4
-6.0	Ponton	4.4*	6.1*	9.1*	13.2*	10.6*	8.9*	7.6*	6.6*	5.8*	5.2*	4.6*	4.1*			3.7*	20.9
-7.5	Ponton	4.9*	6.3*	8.8*	13.2*	10.7*	9.0*	7.7*	6.6*	5.8*	5.2*	4.6*	4.0*			3.7*	20.3
-9.0	Ponton		6.7*	8.9*	12.8*	10.6*	8.9*	7.6*	6.6*	5.7*	5.0*	4.4*	3.8*			3.7*	19.6
-10.5	Ponton			9.2*	12.4*	10.2*	8.6*	7.4*	6.4*	5.5*	4.8*					4.2*	17.8
-12.0	Ponton						8.1*	6.9*	6.0*							5.7*	13.9

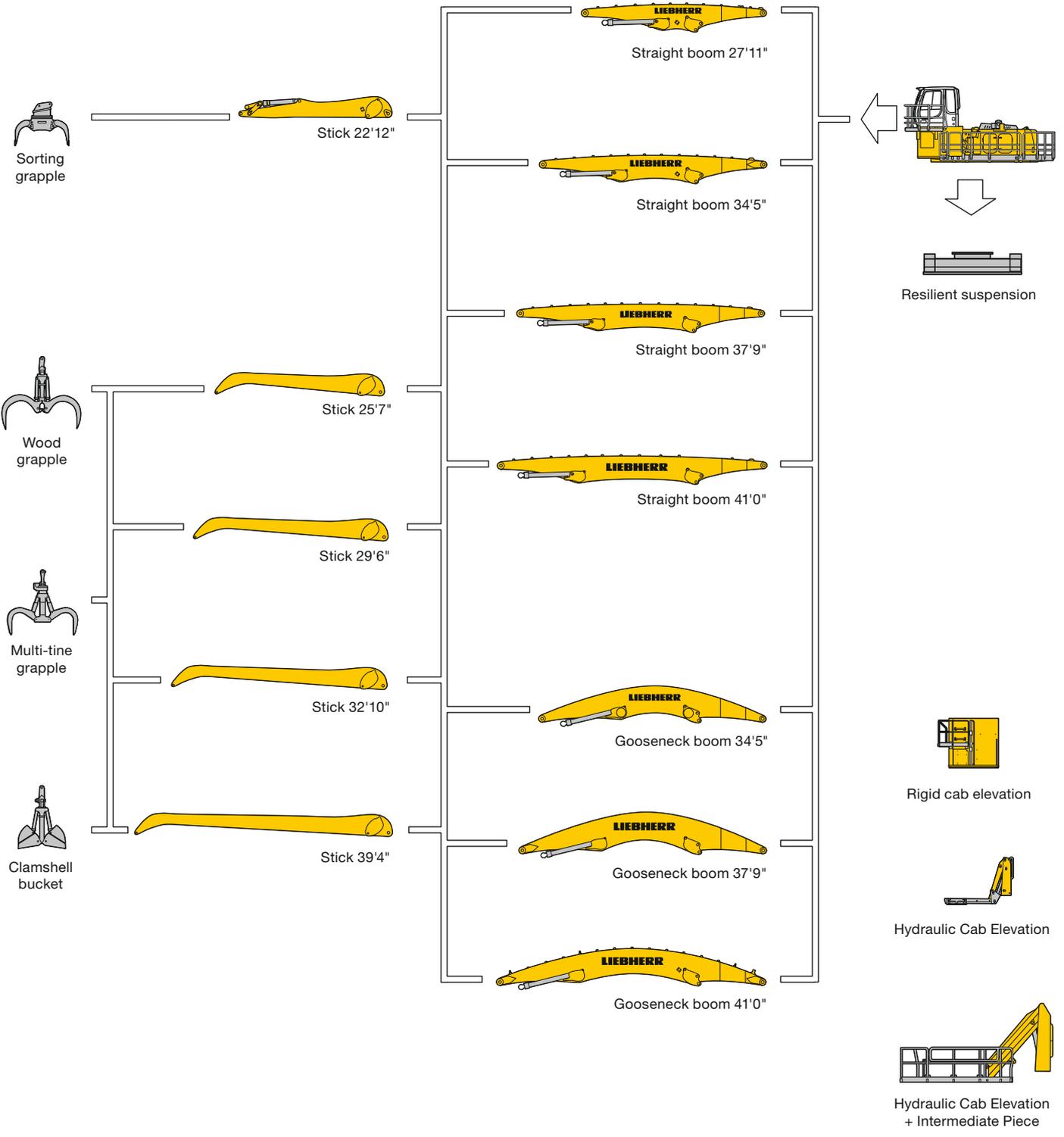
↑ Height  Max. reach * Limited by hydr. capacity

The lift capacities are stated in metric tonnes (t) on the lifting gear's stick tip, and can be lifted 360° on firm, level supporting surface. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Lifting capacity of the excavator is limited by machine stability, hydraulic capacity and maximum permissible load of the load hook.

According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic check valves on the hoist cylinders, when they are used for lifting operations which require the use of lifting accessories.

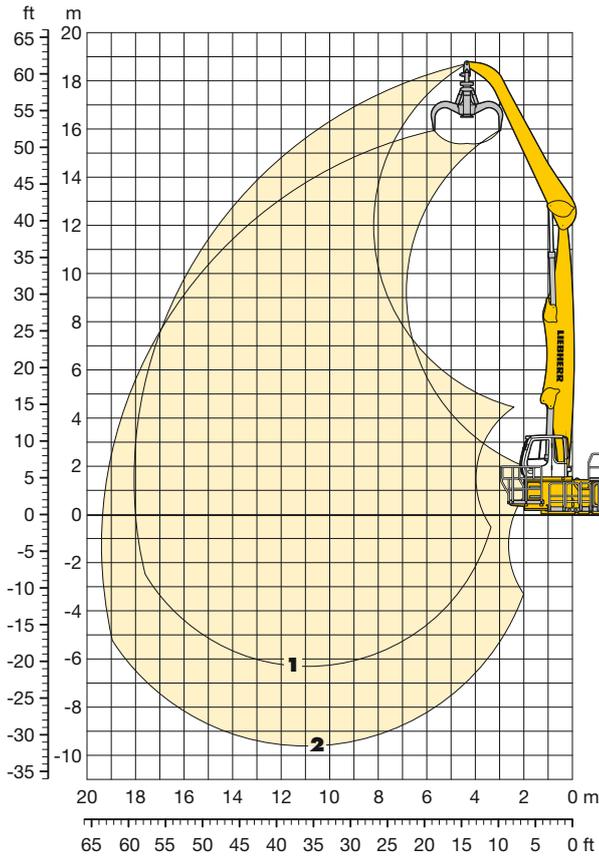
The right attachment for every application

EP 954 C



Industrial Attachment

with Industrial-Type Straight Boom 10.50 m



Swing ring base as reference.

Attachment Envelope

Kinematic variants 3A/3B

- 1 with industrial stick 7.80 m (3B)
- 2 with industrial stick 7.80 m and grapple model GM 72C (3B)

Operating Weight

The operating weight includes the basic machine with rigid cab elevation 1.20 m, counterweight 14.5 t, handrails, industrial-type straight boom 10.50 m, industrial stick 7.80 m and grapple model GM 72C with 5 semi-closed tines 1.40 m³.

Weight 50,300 kg

EP 954 C

Lift Capacities

with Industrial-Type Straight Boom 10.50 m

Industrial Stick 7.80 m (Variant 3B)

↑ m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m	19.5 m	21.0 m	22.5 m		
																	m
18.0	Ponton			14.9*												13.5*	6.7
16.5	Ponton				14.7*	12.5*										10.8*	9.7
15.0	Ponton					12.7*	11.8*									9.6*	11.8
13.5	Ponton					12.2*	11.4*	10.7*								8.9*	13.3
12.0	Ponton					12.1*	11.2*	10.5*	10.0*							8.4*	14.6
10.5	Ponton					12.2*	11.2*	10.5*	9.9*	9.4*						8.1*	15.6
9.0	Ponton					12.5*	11.5*	10.6*	9.9*	9.4*						8.0*	16.4
7.5	Ponton				14.6*	13.1*	11.8*	10.9*	10.1*	9.5*	8.9*					7.9*	17.0
6.0	Ponton			18.6*	15.8*	13.9*	12.4*	11.2*	10.3*	9.6*	9.0*					7.9*	17.5
4.5	Ponton	13.5*	22.3*	21.1*	17.3*	14.8*	13.0*	11.7*	10.6*	9.8*	9.0*					7.9*	17.8
3.0	Ponton		24.6*	23.9*	18.9*	15.8*	13.7*	12.1*	10.9*	9.9*	9.1*					8.0*	18.0
1.5	Ponton		3.5*	20.5*	20.4*	16.8*	14.3*	12.5*	11.2*	10.1*	9.2*	8.3*				8.2*	18.1
0	Ponton		2.6*	9.9*	21.5*	17.5*	14.8*	12.9*	11.4*	10.2*	9.2*					8.1*	18.0
-1.5	Ponton		3.5*	8.4*	19.8*	18.0*	15.2*	13.1*	11.5*	10.2*	9.1*					8.0*	17.8
-3.0	Ponton			8.7*	16.8*	18.1*	15.2*	13.1*	11.5*	10.1*	8.8*					8.1*	17.3
-4.5	Ponton			9.8*	16.4*	17.7*	15.0*	12.9*	11.2*	9.7*						8.9*	15.9
-6.0	Ponton					16.8*	14.3*	12.3*								11.1*	13.1

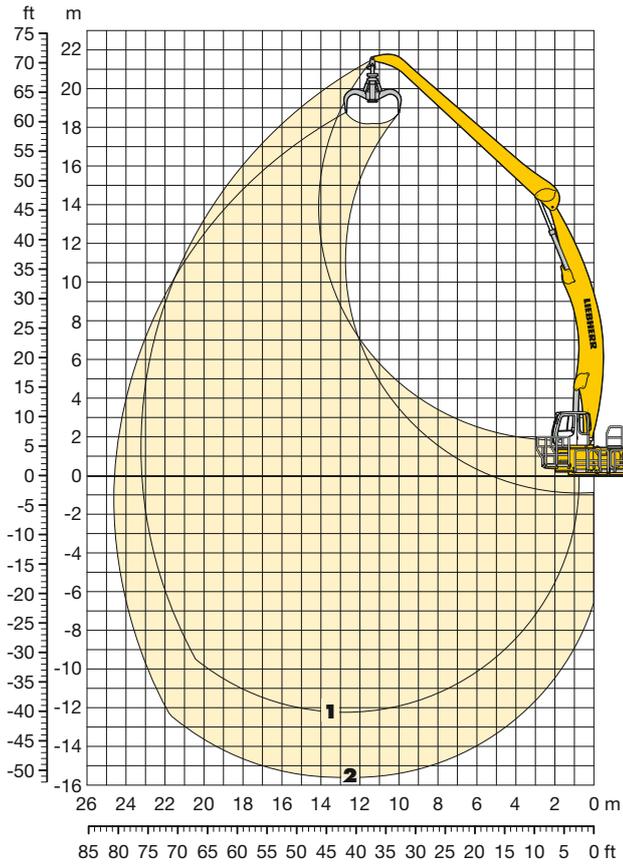
↑ Height  Max. reach * Limited by hydr. capacity

The lift capacities are stated in metric tonnes (t) on the lifting gear's stick tip, and can be lifted 360° on firm, level supporting surface. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Lifting capacity of the excavator is limited by machine stability, hydraulic capacity and maximum permissible load of the load hook.

According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic check valves on the hoist cylinders, when they are used for lifting operations which require the use of lifting accessories.

Industrial Attachment

with Industrial-Type Gooseneck Boom 12.50 m



Swing ring base as reference.

Attachment Envelope

Kinematic variants 3C/3D

- 1** with industrial stick 12.00 m (3D)
- 2** with industrial stick 12.00 m and grapple model GM 72C (3D)

Operating Weight

The operating weight includes the basic machine with rigid cab elevation 1.20 m, counterweight 14.5 t, handrails, industrial-type gooseneck boom 12.50 m, industrial stick 12.00 m and grapple model GM 72C with 5 semi-closed tines 1.40 m³.

Weight 51,600 kg

EP 954 C

Lift Capacities

with Industrial-Type Gooseneck Boom 12.50 m

Industrial Stick 12.00 m (Variant 3D)

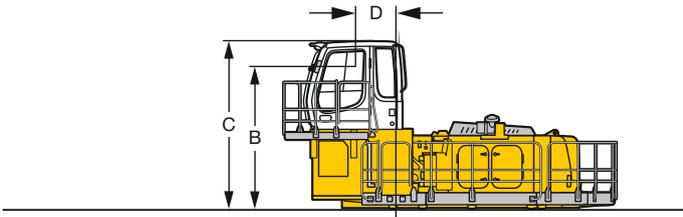
↑ m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m	19.5 m	21.0 m	22.5 m		
																m	
21.0	Ponton							6.1*								5.8*	12.3
19.5	Ponton								6.2*							5.2*	14.4
18.0	Ponton								6.1*	5.7*						4.9*	16.2
16.5	Ponton									5.6*	5.3*					4.6*	17.6
15.0	Ponton									5.5*	5.2*	5.0*				4.4*	18.8
13.5	Ponton									5.5*	5.2*	4.9*	4.7*			4.3*	19.8
12.0	Ponton									5.5*	5.2*	4.9*	4.6*			4.3*	20.7
10.5	Ponton									5.5*	5.2*	4.9*	4.6*	4.4*		4.2*	21.4
9.0	Ponton								6.1*	5.6*	5.3*	4.9*	4.7*	4.4*		4.2*	22.0
7.5	Ponton								6.3*	5.8*	5.4*	5.0*	4.7*	4.5*		4.2*	22.4
6.0	Ponton							7.1*	6.5*	6.0*	5.5*	5.1*	4.8*	4.5*	4.3*	4.2*	22.8
4.5	Ponton						8.4*	7.5*	6.8*	6.2*	5.7*	5.2*	4.9*	4.6*	4.3*	4.2*	23.0
3.0	Ponton				12.3*	10.4*	9.0*	7.9*	7.1*	6.4*	5.8*	5.4*	5.0*	4.6*	4.3*	4.2*	23.2
1.5	Ponton	22.8*	23.9*	17.3*	13.6*	11.2*	9.5*	8.3*	7.4*	6.6*	6.0*	5.5*	5.1*	4.7*	4.4*	4.2*	23.2
0	Ponton	2.6*	9.0*	19.2*	14.8*	12.0*	10.1*	8.7*	7.7*	6.8*	6.2*	5.6*	5.2*	4.8*	4.4*	4.3*	23.2
-1.5	Ponton	2.1*	5.0*	11.2*	15.7*	12.7*	10.6*	9.1*	7.9*	7.0*	6.3*	5.7*	5.3*	4.8*	4.4*	4.3*	23.0
-3.0	Ponton	2.5*	4.5*	8.0*	15.5*	13.2*	11.0*	9.4*	8.2*	7.2*	6.5*	5.8*	5.3*	4.9*	4.4*	4.3*	22.8
-4.5	Ponton	3.1*	4.6*	7.2*	11.9*	13.6*	11.3*	9.6*	8.4*	7.4*	6.6*	5.9*	5.4*	4.9*		4.4*	22.4
-6.0	Ponton	3.7*	5.0*	7.1*	10.7*	13.8*	11.5*	9.8*	8.5*	7.5*	6.6*	5.9*	5.3*	4.8*		4.4*	22.0
-7.5	Ponton		5.4*	7.2*	10.3*	13.8*	11.5*	9.8*	8.5*	7.5*	6.6*	5.9*	5.3*	4.6*		4.5*	21.4
-9.0	Ponton			7.5*	10.3*	13.6*	11.4*	9.7*	8.4*	7.4*	6.5*	5.8*	5.1*			4.5*	20.7
-10.5	Ponton				10.5*	13.1*	11.0*	9.5*	8.2*	7.2*	6.3*	5.5*				5.0*	19.0
-12.0	Ponton					10.5*	9.0*	7.8*	6.7*							6.6*	15.2

↑ Height  Max. reach * Limited by hydr. capacity

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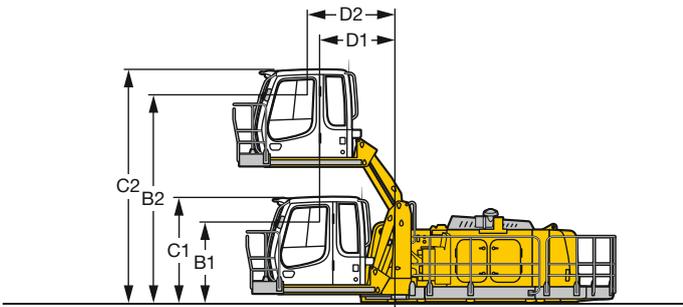
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic check valves on the hoist cylinders, when they are used for lifting operations which require the use of lifting accessories.

Choice of Cab Elevation and Cab Protection



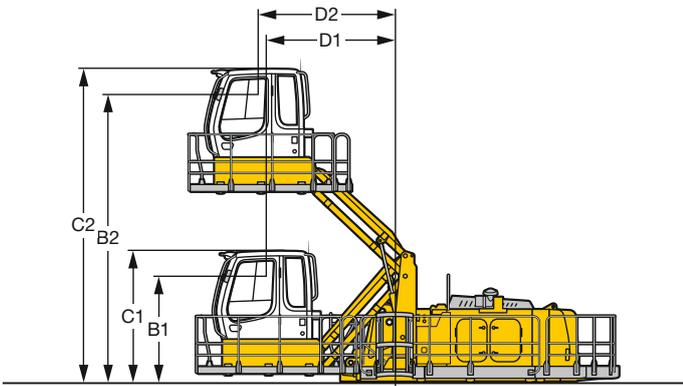
Rigid Cab Elevation

	934 mm	944 mm	954 mm	934 mm	944 mm	954 mm
Height	1,200	1,200	1,200	2,000	2,000	2,000
B	2,750	2,780	2,785	3,550	3,580	3,585
C	3,250	3,280	3,285	4,050	4,080	4,085
D	670	765	1,105	670	765	1,105



Hydraulic Cab Elevation

	934 mm	944 mm	954 mm
B1	1,550	1,575	1,580
B2	4,050	4,075	4,080
C1	2,050	2,075	2,080
C2	4,550	4,575	4,580
D1	1,485	1,450	1,460
D2	1,730	1,700	1,700



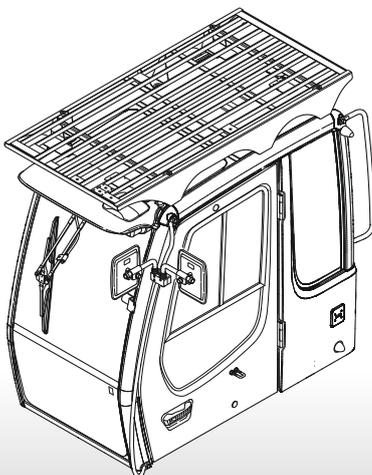
Hydraulic Cab Elevation

Parallelogram

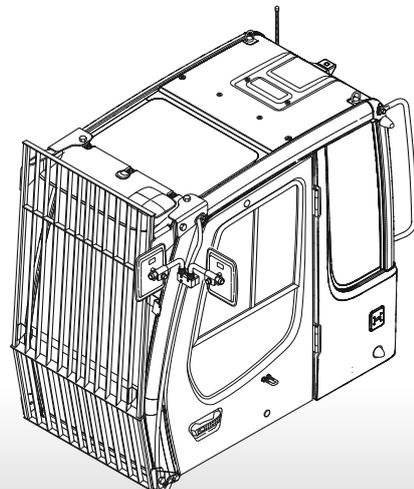
+ Intermediate Piece 0.5 m

	934 mm	944 mm	954 mm
B1	1,910	2,075	2,080
B2	5,310	5,660	5,665
C1	2,410	2,575	2,580
C2	5,810	6,160	6,165
D1	2,400	2,490	2,890
D2	2,400	2,630	3,040

FOPS Guard



Front Guard

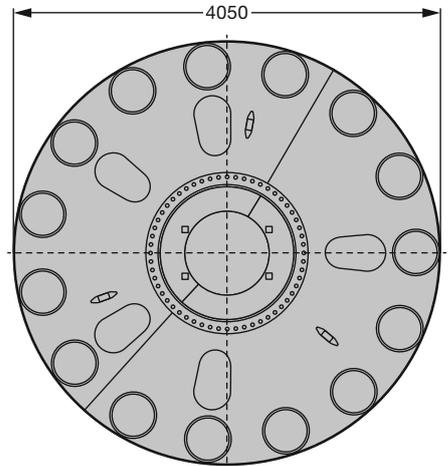
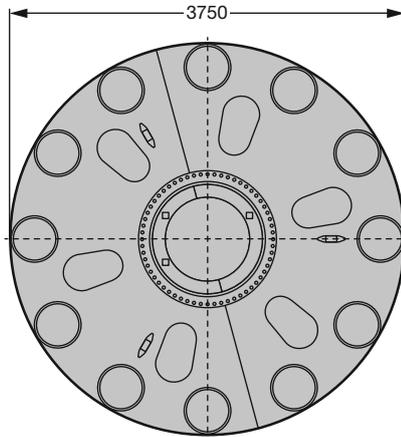
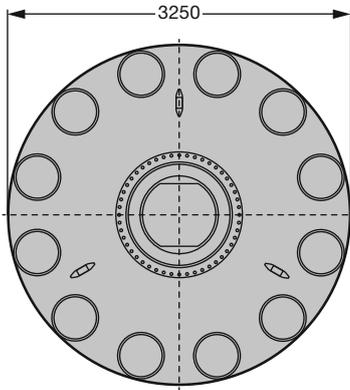
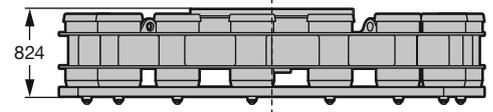
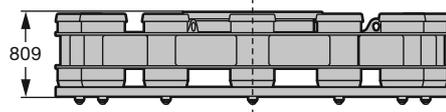
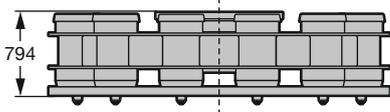


Dimensions

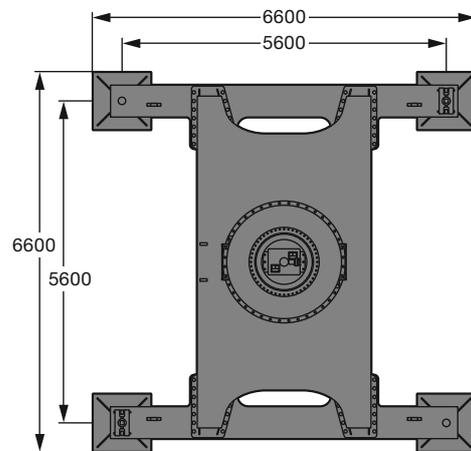
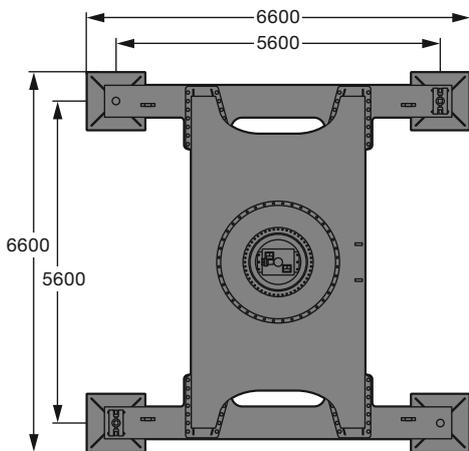
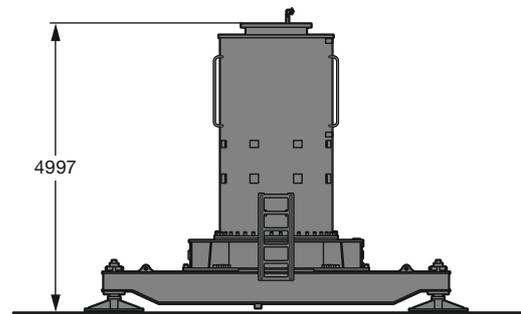
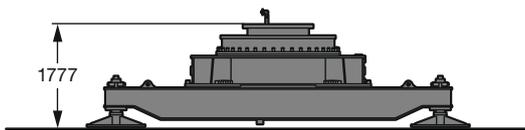
EP 934 C

EP 944 C

EP 954 C

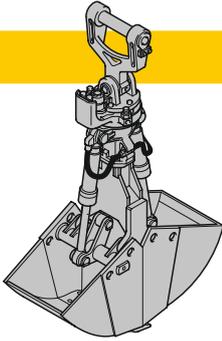


EP 934 C / EP 944 C



Pression au sol : nous consulter

Variety of Tools



Shells for Loose Material

Shells for loose material with cutting edge (without teeth)

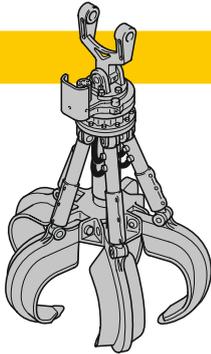
Clamshell Model GM 20B

Cutting width of shells	mm	1,000	1,200	1,600
Capacity	m ³	1.30	1.50	2.00
For loose material, specific weight up to	t/m ³	1.5	1.5	1.5
Weight	kg	1,355	1,415	1,550

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Multiple Tine Grapples

open tines

semi-closed tines

closed tines

Grapple Model GM 65 (5 tines)

Capacity	m ³	0.40	0.60	0.40	0.60	0.40	0.60
Weight	kg	1,150	1,230	1,285	1,415	1,325	1,520

Grapple Model GM 70C (5 tines)

Capacity	m ³	0.80	1.10	0.80	1.10	0.80	1.10
Weight	kg	1,485	1,590	1,705	1,860	1,950	1,995

Grapple Model GM 72C (5 tines)

Capacity	m ³	1.40	1.60	1.80	1.40	1.60	1.80	1.40	1.60	1.80
Weight	kg	2,450	2,500	2,550	2,850	2,900	2,950	2,950	3,050	3,050

Wood Grapple



Grapple Model GM 20B

Capacity	m ³	1.3	1.5	2.1
Weight	kg	1,674	1,724	1,950

Grapple Model GM 22C

Capacity	m ³	2.0	2.5	3.0
Weight	kg	2,350	2,550	3,050

Grapple Model GMH 50

Capacity	m ³	2.5	3.2
Weight	kg	2,158	2,453

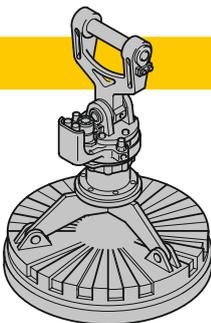
Crane Hook with Suspension



Max. load	t	12.5
Height with suspension	mm	930
Weight	kg	96

Electro Magnets with Suspension

Magnet information on request



For further information see color brochure "Add-on tools for material-handling technology". To operate a magnet the installation of a generator is required; please contact your Liebherr dealer or the factory for further information.

Standard Equipment



Uppercarriage

Complete tool set
Engine hood with pneumatic damping and mechanical stop
Handrails, non-slip surfaces
Junction box with active protection
Lockable tool box
Maintenance-free swing brake lock, integrated in the transmission
Sound insulation



Hydraulic System

Electronic regulation by power limit
Filter with integrated fine filter area (5 µm)
Measuring points for hydraulic circuit pressure
Minimum flow at high pressure
Operating mode selector with continuous regulation
Pressure accumulator for controlled lowering of attachments with the engine turned off
Shut-off valve between hydraulic tank and pumps



Operator's Cab

Automatic climate control with defrosting function
Cab front roof
Cigar lighter and ashtray
Closed storage space
Coat hook
Emergency exit through rear window
Floor mat
Interior lighting
Interior rear-view mirror
Multi-function display
Operating hours display, visible from the outside
Panoramic tinted windows
Pocket storage space
Radio pre-equipment
Right-hand window without central mounting
Roof window and windshield in laminated glass
Seat adjusted independently or in association with the console (6 adjustment positions)
Seat belt
Sliding window in door
Sun blind
Windshield wipers and windshield wash



Attachment

Cylinders with end of run damper
Hydraulic connections for quick coupling system
Hydraulic lines for supply to clamshell/grapple in stick
Liebherr semi-automatic centralised lubrication
Operating spotlights
Safety device to prevent hose rupture (lifting cylinder) with regeneration
Safety device to prevent hose rupture (stick cylinder) with regeneration
Sealed pivots and bearings

Individual Options



Uppercarriage

- Extension of security system for access to the machine
- Frequency of 60 Hz
- Pedal controlled positioning swing brake
- Special painting
- Voltage other than 400 V
- Wide walkways and handrails



Hydraulic System

- Filling with bio-degradable oil
- Filter for secondary circuit
- Supplementary hydraulic circuits
- Tool Control



Operator's Cab

- Additional spotlights on cab roof (front/rear)
- Armored windshield (not movable)
- Electrical outlet
- Electric cool box
- Extinguishers
- Extra supply heating
- Gantry control rail
- Radio unit
- Seat with pneumatic suspension, headrest and heating
- Stone impact protection (FOPS)
- Warning beacon
- Wipers for front lower window
- Wipers for roof window



Attachment

- Liebherr automatic centralised lubrication
- Liebherr range of clamshells/grapples
- Lifting hook
- Overload warning
- Special painting

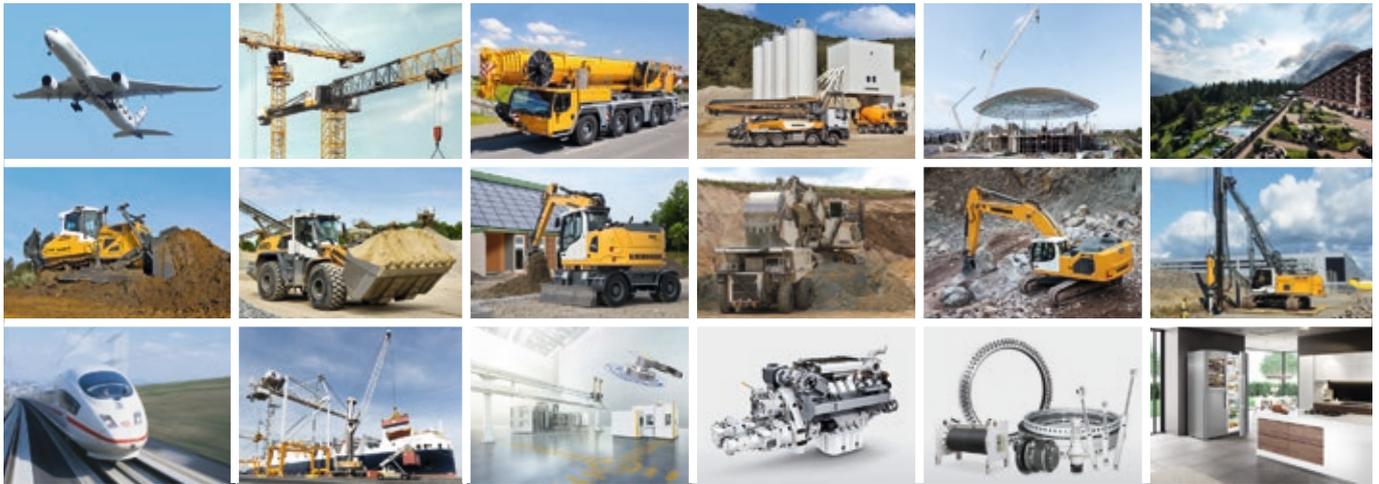
EP 934 C

EP 944 C

EP 954 C

Options and/or special attachments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr in order to retain warranty.

The Liebherr Group of Companies



Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical applications.

State-of-the-art Technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since then, the family business has steadily grown to a group of more than 130 companies with more than 46,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

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