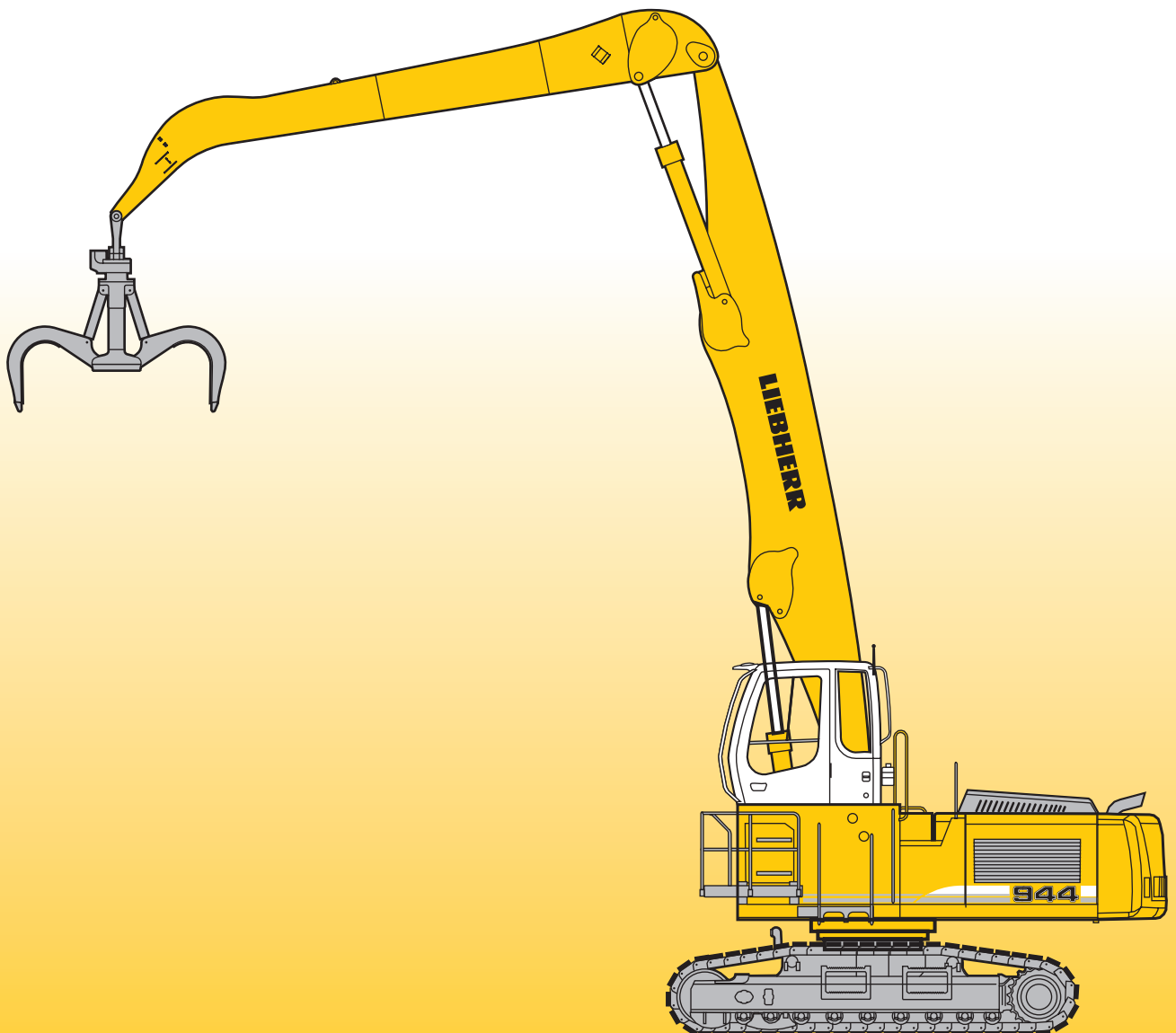


# Technical Description Hydraulic Excavator

**R 944 C**  
Litronic®

## Machine for Industrial Applications

Operating Weight 101,604–103,808 lb  
Engine Output 258 hp (190 kW)



# LIEBHERR

# Technical Data



## Engine

Rating per ISO 9249	258 hp (190 kW) at 1800 RPM
Model	Liebherr D 936 L
Type	6 cylinder in-line
Bore/Stroke	4.8/6.1 in
Displacement	641 in <sup>3</sup>
Engine operation	4-stroke diesel unit pump system turbo-charged and after-cooled reduced emissions
Cooling	water-cooled and integrated motor oil cooler
Air cleaner	dry-type air cleaner with pre-cleaner, primary and safety elements, automatic dust discharge
Fuel tank	174 gal
Standard	sensor controlled engine idling
Electrical system	
Voltage	24 V
Batteries	2 x 170 Ah/12 V
Starter	24 V/6.6 kW
Alternator	three phase current 28 V/80 A



## Hydraulic System

Hydraulic pump	
for attachment and travel drive	two Liebherr variable flow, swash plate pumps
Max. flow	2 x 80 gpm
Max. pressure	5075 PSI
Pump regulation	electro-hydraulic with electronic engine speed sensing regulation, pressure compensation, flow compensation, automatic oil flow optimizer
Hydraulic pump	
for swing drive	reversible, variable flow, swash plate pump, closed-loop circuit
Max. flow	54 gpm
Max. pressure	5800 PSI
Hydraulic tank	121 gal
Hydraulic system	187 gal
Hydraulic oil filter	2 full flow filters in return line with integrated fine filter area (5 µm)
Hydraulic oil cooler	cooler unit, consisting of radiator for engine coolant with after-cooler core, for hydraulic fluid with hydrostatically controlled fan drive
MODE selection	adjustment of machine performance and the hydraulics via a mode selector to match application
ECO	for economical and environmentally friendly operation
POWER	for maximum digging power and heavy duty jobs
LIFT	for lifting
FINE	for precision work and lifting
RPM adjustment	stepless adjustment of engine output via rpm at each selected mode
Liebherr Tool Control	ten preadjustable pump flows and pressures for add on tools (option)



## Hydraulic Controls

Power distribution	via monoblock control valve with integrated safety valves
Flow summation	to boom and stick
Closed-loop circuit	for uppercarriage swing drive
Servo circuit	
Attachment and swing	– proportional via joystick levers
Travel	– proportional via foot pedals or removable hand levers – speed pre-selection
Additional functions	via foot pedals or joystick toggle switch



## Swing Drive

Drive by	Liebherr swash plate motor
Transmission	Liebherr compact planetary reduction gear
Swing ring	Liebherr, sealed single race ball bearing swing ring, internal teeth
Swing speed	0–8 RPM stepless
Swing torque	92,275 lb
Holding brake	wet multi-disc (spring applied, pressure released)
Option	pedal controlled positioning brake



## Operator's Cab

Cab	built from deep drawn components, resiliently mounted, sound insulated, tinted windows, front window stores overhead, door with sliding window
Operator's seat	shock absorbing suspension, adjustable to operator's weight, 6-way adjustable seat integrated into adjustable seat consoles
Joysticks	menu driven query of current operating conditions via the LCD display. Automatic monitoring, display, warning (acoustical and optical signal) and saving machine malfunction data, for example, engine overheating, low engine oil pressure or low hydraulic oil level
Monitoring	standard air conditioning, combined cooler/heater, additional dust filter in fresh air/recirculated
Heating system	
Noise emission	
ISO 6396	L <sub>PA</sub> (inside cab) = 75 dB(A)
2000/14/EC	L <sub>WA</sub> (surround noise) = 105 dB(A)



## Undercarriage

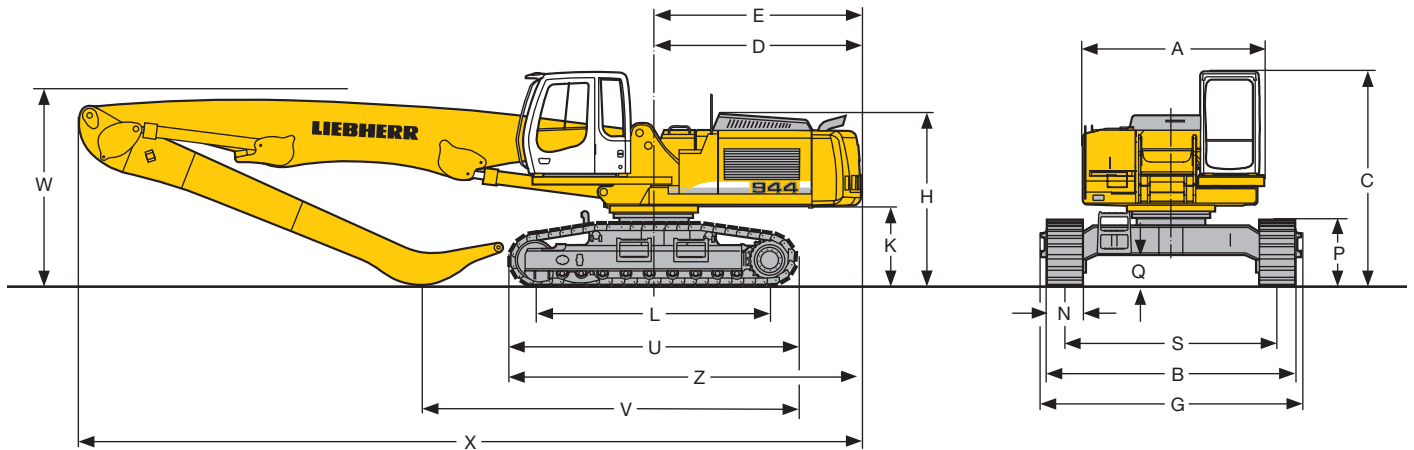
Version EW	special duty, extra wide gauge
Drive	Liebherr swash plate motors with integrated brake valves on both sides
Transmission	Liebherr planetary reduction gears
Travel speed	low range –2.0 mph high range –3.1 mph
Drawbar pull max.	75,533 lb
Track components	D 7, maintenance-free
Track rollers/Carrier rollers	9/2
Tracks	sealed and greased
Track pads	triple grouser
Digging locks	wet multi-discs (spring applied, pressure released)
Brake valves	integrated into travel motor



## Attachment

Type	high-strength steel plates at 3 high-stress points for the toughest requirements. Complex and stable mountings of attachment and cylinders. Unrivalled strength, even at high loads
Hydraulic cylinders	Liebherr cylinders with special seal system. Shock absorption
Pivots	sealed, low maintenance
Lubrication	Liebherr semi-automatic central lubrication system

# Dimensions



		ft in
A	Upper – overall width	10' 1"
C	Basic machine – height overall	11' 11"
D	Tail reach	11' 7"
E	Tail swing	11' 7"
H	Height – engine hood	9' 6"
K	Clearance under counterweight	4' 4"
L	Center idler to center sprocket	13' 1"
P	Track height	3' 8"
Q	Ground clearance	21"
S	Track gauge	11' 10"
U	Track length	16' 2"
N	Pad width	20" 24" 30"
B	Track outside width	13' 9" 13' 9" 14' 3"
G	Undercarriage width overall	14' 6" 14' 6" 14' 6"
Z	Length track to counterweight	19' 7"

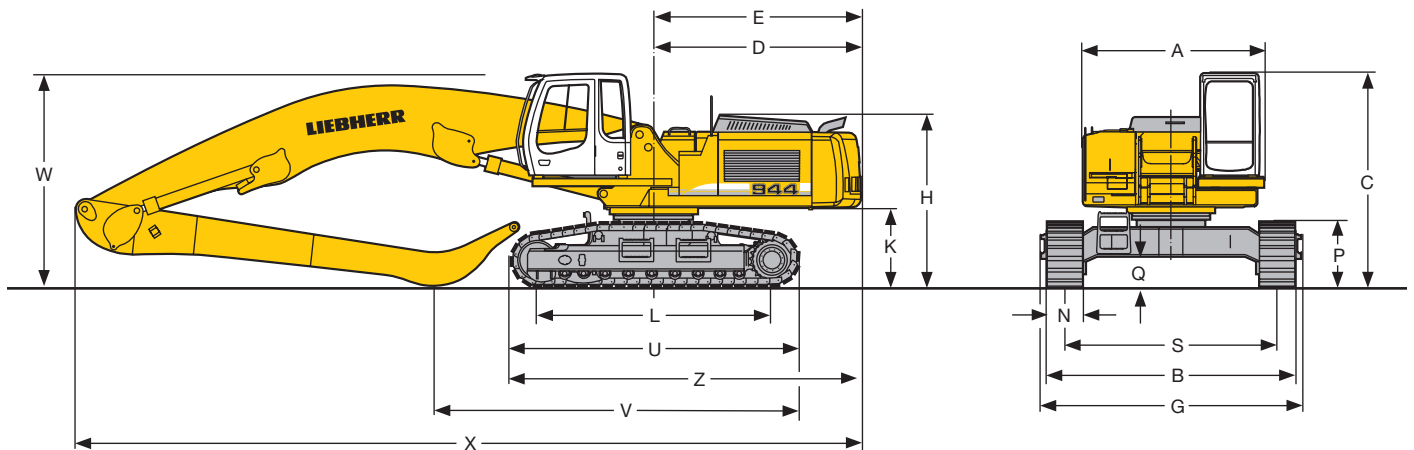
E = Tail radius

## Industrial-Type Straight Boom 31'2" and Industrial Stick 23'11"

V	ft in	21' 4"
W	ft in	11'
X	ft in	44' 3"

## Industrial-Type Gooseneck Boom 31'2" and Industrial Stick 23'11"

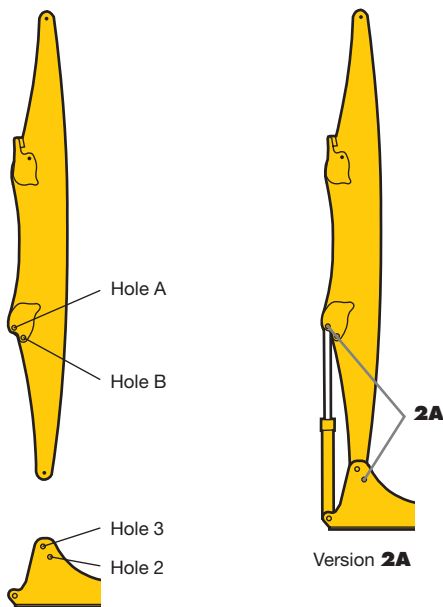
V	ft in	20' 4"
W	ft in	11' 10"
X	ft in	44'



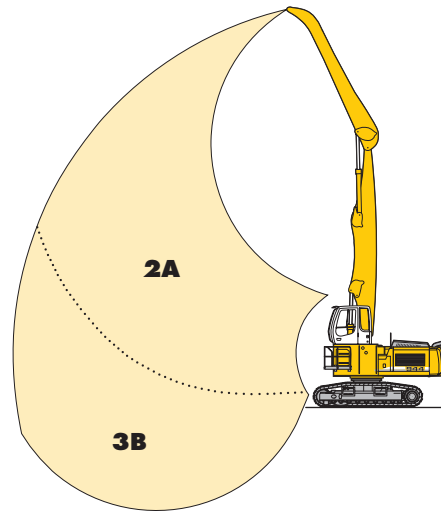
These dimensions are stated with cab carrier. This assembly is only valid for transportation.

# VarioLiftPlus

## Variable Boom Mounting Positions for Optimised Lift Capacities



with **the same** working range



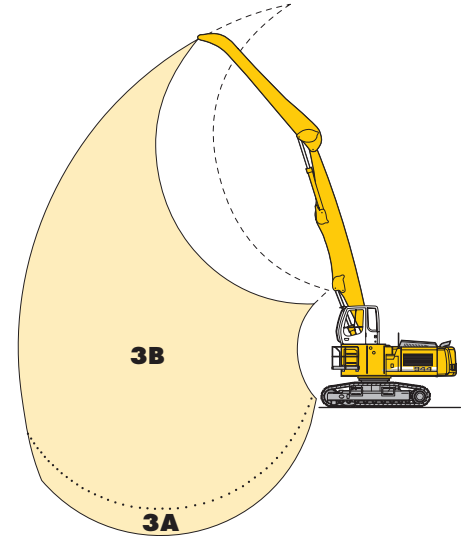
### Kinematic variant 2A:

Increased lift capacities above ground level

### Kinematic variant 3B:

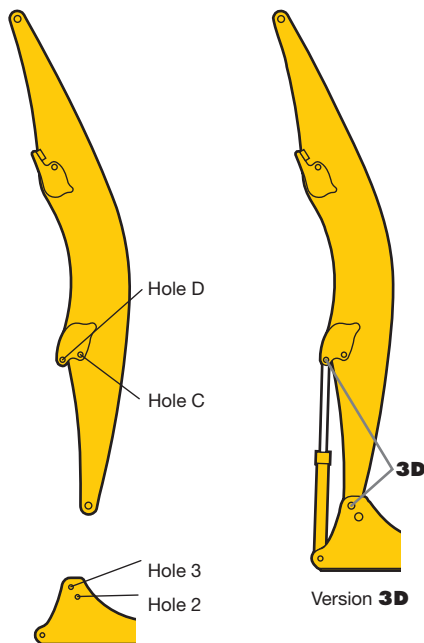
Increased lift capacities below ground level and when working at extended reach

with a **different** working range

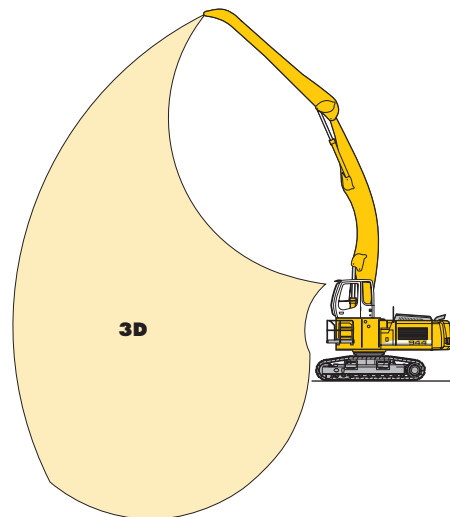


### Kinematic variant 3A:

Altered range curve with additional reach depth, e.g. for unloading from ships

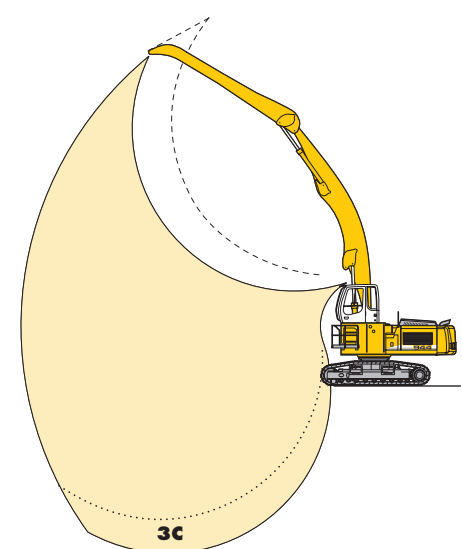


with a **different** working range



### Kinematic variant 3D:

Increased lift capacities below ground level and when working at extended reach

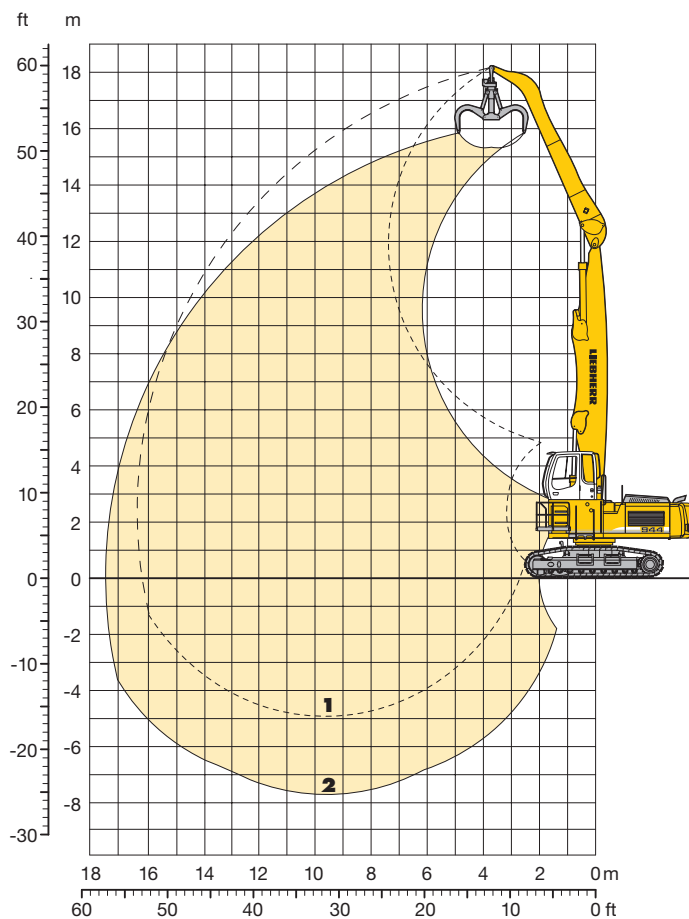


### Kinematic variant 3C:

Altered range curve with additional reach depth, e.g. for unloading from ships

# Industrial Attachment

## with Industrial-Type Straight Boom 31'2"



### Attachment Envelope

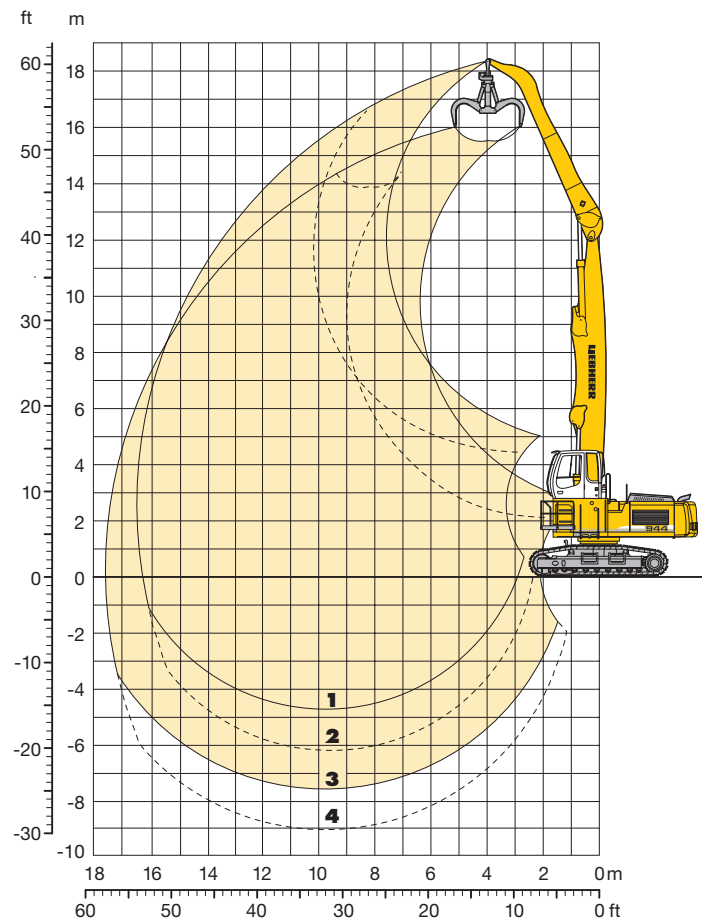
Kinematic variant 2A

- 1 with industrial stick 23'11"
- 2 with industrial stick 23'11" and grapple model 70 C

### Operating Weight and Ground Pressure

Operating weight includes basic machine with rigid cab elevation 3'11" and counterweight 24,244 lb, industrial-type straight boom 31'2", industrial stick 23'11" and grapple model 70 C with 5 semi-closed tines 1.05 yd<sup>3</sup>.

Undercarriage		EW	
Pad width	in	24"	30"
Weight	lb	101,631	102,954
Ground pressure	PSI	12.7	10.2



### Attachment Envelope











Kinematic variants 3A/3B

- 1 with industrial stick 23'11" (3B)
- 2 with industrial stick 23'11" (3A)
- 3 with industrial stick 23'11" and grapple model 70 C (3B)
- 4 with industrial stick 23'11" and grapple model 70 C (3A)



















# Lift Capacities

## with Industrial-Type Straight Boom 31'2"

### Industrial Stick 23'11" (Variant 2A)

 ft	Under-carriage	 15 ft		 20 ft		 25 ft		 30 ft		 35 ft		 40 ft		 45 ft		 50 ft				ft in
60	EW	27,770*	27,770*															27,770*	27,770*	14'10"
55	EW			27,330*	27,330*	22,922*	22,922*											20,277*	20,277*	26' 7"
50	EW					26,228*	26,228*	22,922*	22,922*									17,632*	17,632*	33'10"
45	EW					25,566*	25,566*	22,481*	22,481*	19,395	20,056*							14,987	15,869	39' 1"
40	EW					25,346*	25,346*	22,260*	22,260*	19,836*	19,836*	15,428	16,089					12,563	13,224	43' 2"
35	EW					25,566*	25,566*	22,260*	22,260*	19,616	19,616*	15,428	16,089	12,122	12,783			11,020	11,461	46' 5"
30	EW					26,007*	26,007*	22,481*	22,481*	19,395	19,836	15,208	16,089	12,122	12,783			9,918	10,359	48'11"
25	EW			31,517*	31,517*	26,668*	26,668*	22,922*	22,922*	18,734	19,836	14,767	15,648	11,902	12,563	9,698	10,138	9,036	9,477	50'10"
20	EW	30,856*	30,856*	33,721*	33,721*	27,770*	27,770*	23,362	23,583*	18,073	18,954	14,326	15,208	11,681	12,342	9,477	10,138	8,375	9,036	52' 2"
15	EW	47,386*	47,386*	35,705*	35,705*	28,652*	28,652*	22,040	23,142	17,191	18,073	13,885	14,546	11,240	11,902	9,257	9,918	7,934	8,596	53' 1"
10	EW	50,251*	50,251*	37,027*	37,027*	27,109	28,652	20,497	21,820	16,310	17,191	13,224	13,885	10,800	11,461	9,036	9,698	7,714	8,375	53' 6"
5	EW	16,530*	16,530*	34,382	36,807	24,905	26,668	19,175	20,497	15,428	16,310	12,563	13,224	10,359	11,020	8,816	9,477	7,714	8,155	53' 5"
0	EW	13,885*	13,885*	31,958	34,162	23,362	24,905	18,073	19,175	14,546	15,428	12,122	12,783	10,138	10,800	8,596	9,257	7,714	8,155	52'11"
- 5	EW	15,428*	15,428*	30,415	30,636*	22,260	23,803	17,412	18,514	14,106	14,987	11,681	12,342	9,918	10,579	8,596	9,036	7,494*	7,494*	51' 9"
- 10	EW			26,007*	26,007*	21,599	22,260*	16,750	18,073	13,665	14,546	11,461	12,122	9,698	10,138*			8,155*	8,155*	47' 7"
- 15	EW					17,632*	17,632*	15,208*	15,208*	12,563*	12,563*							10,138*	10,138*	39' 4"
- 20	EW																			
- 25	FW																			

### Industrial Stick 23'11" (Variant 3A)

 ft	Under-carriage	 15 ft 		 20 ft 		 25 ft 		 30 ft 		 35 ft 		 40 ft 		 45 ft 		 50 ft 				ft in	
60	EW																				
55	EW																				
50	EW									18,514*	18,514*								17,412*	17,412*	35' 1"
45	EW									18,293*	18,293*	14,987	15,648						14,326	14,987	40' 2"
40	EW									18,073*	18,073*	15,208	16,089						11,902	12,563	44' 2"
35	EW									18,073*	18,073*	15,208	16,089	12,122	12,783				10,579	11,020	47' 3"
30	EW									18,514*	18,514*	14,987	16,089	12,122	12,783	9,698	10,138	9,477	9,918	49' 8"	
25	EW							21,158*	21,158*	18,514	18,954*	14,767	15,428	11,902	12,563	9,477	10,138	8,596	9,257	51' 6"	
20	EW					25,566*	25,566*	22,260*	22,260*	17,852	18,734	14,106	14,987	11,461	12,122	9,477	9,918	8,155	8,596	52'10"	
15	EW	44,962*	44,962*	33,942*	33,942*	27,550	27,500*	21,599	22,922	16,971	17,852	13,665	14,326	11,020	11,681	9,257	9,698	7,714	8,375	53' 8"	
10	EW	33,721*	33,721*	37,027	37,248*	26,448	27,991	20,056	21,379	15,869	16,971	13,004	13,665	10,579	11,240	8,816	9,477	7,494	8,155	54'	
5	EW	13,665*	13,665*	33,501	35,925	24,464	26,007	18,734	20,056	14,987	15,869	12,342	13,004	10,359	11,020	8,596	9,257	7,494	7,934	53'10"	
0	EW	12,783*	12,783*	31,076	31,738*	22,701	24,244	17,632	18,954	14,326	15,208	11,902	12,563	9,918	10,579	8,375	9,036	7,494	7,934	53' 4"	
- 5	EW	14,987*	14,987*	28,432*	28,432*	21,820	23,362	16,971	18,073	13,665	14,546	11,461	12,122	9,698	10,359	8,375	8,816	7,714	8,155	52' 3"	
- 10	EW	18,073*	18,073*	29,313*	29,313*	21,158	22,701	16,530	17,632	13,444	14,326	11,240	11,902	9,477	10,138	8,375	8,816	8,155	8,596	50' 9"	
- 15	EW			29,534	31,738*	21,158	22,701	16,310	17,632	13,224	14,106	11,240	11,902	9,698	10,138			9,036	9,698	46' 9"	
- 20	EW							16,530	17,632	13,444	14,326							12,342	13,224	36' 7"	
- 25	EW																				




















 Height  Can be slewed through 360°  In longitudinal position of undercarriage  Max. reach \* Limited by hydr. capacity


The lift capacities are stated in pounds (lb) on the lifting gear's stick tip, and can be lifted 360° on firm, level supporting surface. Capacities are valid for 24" wide triple grouser pads. 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.

# Lift Capacities

with Industrial-Type Straight Boom 31'2"

## Industrial Stick 23'11" (Variant 3B)

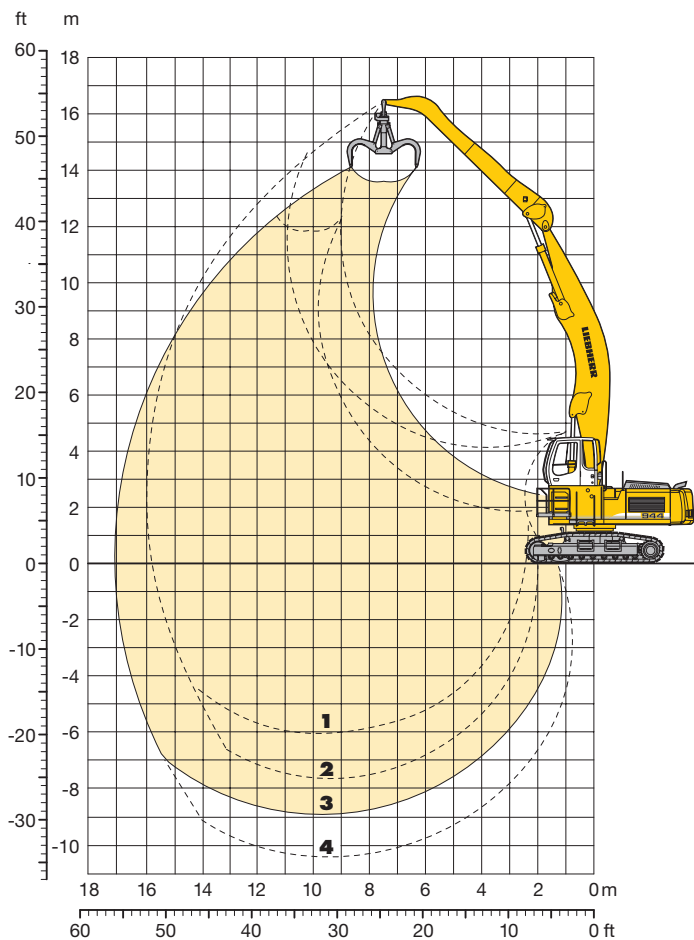
 ft	Under-carriage	15 ft		20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft				
																			ft in	
60	EW																			
55	EW					22,260*	22,260*											19,836*	19,836*	28' 3"
50	EW					20,718*	20,718*	18,954*	18,954*	17,852*	17,852*							17,412*	17,412*	35' 1"
45	EW					19,836*	19,836*	18,293*	18,293*	16,971*	16,971*	14,987	15,648					14,326	14,987	40' 2"
40	EW							18,073*	18,073*	16,750*	16,750*	15,428	15,869*					11,902	12,563	44' 2"
35	EW					19,836*	19,836*	18,073*	18,073*	16,750*	16,750*	15,428	15,648*	12,122	12,783			10,579	11,020	47' 3"
30	EW					20,718*	20,718*	18,734*	18,734*	17,191*	17,191*	15,208	15,869*	12,122	12,783	9,698	10,138	9,477	9,918	49' 8"
25	EW			25,126*	25,126*	22,040*	22,040*	19,616*	19,616*	17,632*	17,632*	14,767	15,428	11,902	12,563	9,698	10,138	8,596	9,257	51' 6"
20	EW	31,297*	31,297*	28,211*	28,211*	23,803*	23,803*	20,718*	20,718*	17,852	18,514*	14,106	14,987	11,461	12,122	9,477	9,918	8,155	8,596	52'10"
15	EW	41,656*	41,656*	31,738*	31,738*	25,787*	25,787*	21,599	22,040*	16,971	17,852	13,665	14,326	11,020	11,681	9,257	9,698	7,714	8,375	53' 8"
10	EW	33,721*	33,721*	35,264*	35,264*	26,448	27,770*	20,277	21,379	15,869	16,971	13,004	13,665	10,579	11,240	9,036	9,477	7,494	8,155	54'
5	EW	13,665*	13,665*	33,501	35,925	24,464	26,007	18,734	20,056	14,987	16,089	12,342	13,004	10,359	11,020	8,596	9,257	7,494	7,934	53'10"
0	EW	12,783*	12,783*	31,297	31,738	22,922	24,464	17,852	18,954	14,326	15,208	11,902	12,563	9,918	10,579	8,375	9,036	7,494	7,934	53' 4"
- 5	EW	14,987*	14,987*	28,432*	28,432*	21,820	23,362	16,971	18,073	13,665	14,767	11,461	12,122	9,698	10,359	8,375	8,816	7,714	8,375	51' 9"
- 10	EW			29,313*	29,313*	21,379	22,922	16,530	17,632	13,444	14,326	11,240	11,902	9,477	10,138			8,816	9,477	47' 3"
- 15	EW							16,530	17,632	13,224	14,326							11,902	12,783	37' 5"
- 20	EW																			
- 25	EW																			

 Height
  Can be slewed through 360°
  In longitudinal position of undercarriage
  Max. reach
 \* Limited by hydr. capacity

The lift capacities are stated in pounds (lb) on the lifting gear's stick tip, and can be lifted 360° on firm, level supporting surface. Capacities are valid for 24" wide triple grouser pads. 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.

# Industrial Attachment

## with Industrial-Type Gooseneck Boom 31'2"



### Attachment Envelope

Kinematic variants 3C/3D

- 1** with industrial stick 23'11" (3D)
- 2** with industrial stick 23'11" (3C)
- 3** with industrial stick 23'11" and grapple model 70 C (3D)
- 4** with industrial stick 23'11" and grapple model 70 C (3C)

### Operating Weight and Ground Pressure

Operating weight includes basic machine with rigid cab elevation 3'11" and counterweight 24,244 lb, industrial-type gooseneck boom 31'2", industrial stick 23'11" and grapple model 70 C with 5 semi-closed tines 1.05 yd<sup>3</sup>.



















Undercarriage		EW	
Pad width	in	24"	30"
Weight	lb	102,513	103,836
Ground pressure	PSI	12.8	10.4























# Lift Capacities

with Industrial-Type Gooseneck Boom 31'2"

## Industrial Stick 23'11" (Variant 3C)

		15 ft		20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft					
ft	Under-carriage																		ft in		
60	EW																				
55	EW																				
50	EW																				
45	EW																				
40	EW												12,563*	12,563*				12,563*	12,563*	41'10"	
35	EW												12,342*	12,342*	12,342*	12,342*		11,902	12,342*	45' 1"	
30	EW										13,224*	13,224*	12,563*	12,563*	12,342*	12,342*		10,579	11,240	47' 8"	
25	EW										13,885*	13,885*	13,004*	13,004*	12,122	12,563*	9,698	10,359	9,698	10,138	49' 6"
20	EW								16,089*	16,089*	14,767*	14,767*	13,665*	13,665*	11,681	12,342	9,698	10,138	9,036	9,477	50'11"
15	EW			24,685*	24,685*	20,497*	20,497*	17,632*	17,632*	15,869*	15,869*	13,885	14,546*	11,240	11,902	9,257	9,918	8,375	9,036	51' 9"	
10	EW	40,333*	40,333*	29,093*	29,093*	23,142*	23,142*	19,395*	19,395*	16,310	16,971*	13,224	13,885	10,800	11,461	9,036	9,477	8,155	8,596	52' 1"	
5	EW	22,040*	22,040*	33,060*	33,060*	24,905	25,566*	19,175	20,497*	15,428	16,310	12,563	13,224	10,359	11,020	8,596	9,257	7,934	8,375	52'	
0	EW	18,514*	18,514*	31,517	33,721	23,142	24,685	17,852	19,175	14,546	15,428	11,902	12,783	9,918	10,579	8,375	9,036	7,934	8,375	51' 5"	
- 5	EW	19,395*	19,395*	29,754	32,178	21,820	23,362	16,971	18,073	13,885	14,767	11,461	12,122	9,698	10,359	8,155	8,816	7,934	8,596	50' 4"	
- 10	EW	21,379*	21,379*	29,093	31,297	21,158	22,701	16,530	17,632	13,224	14,326	11,020	11,902	9,477	10,138			8,375	8,816	48' 9"	
- 15	EW	23,583*	23,583*	28,872	31,297	20,718	22,260	16,089	17,191	13,004	14,106	11,020	11,681	9,477	10,138			8,816	9,477	46' 6"	
- 20	EW			29,313	31,517	20,938	22,481	16,089	17,412	13,224	14,106	11,020	11,681					9,698	10,359	43' 8"	
- 25	EW							16,530	17,632									13,885	14,987	33' 4"	

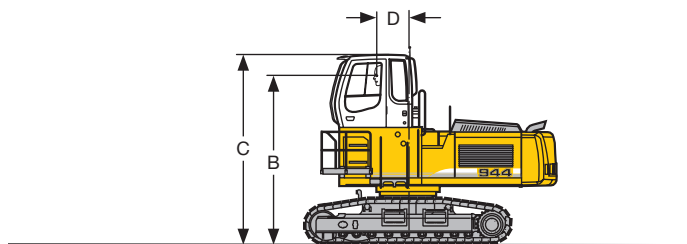
## Industrial Stick 23'11" (Variant 3D)

 ft	Under-carriage	 15 ft		 20 ft		 25 ft		 30 ft		 35 ft		 40 ft		 45 ft		 50 ft					
																					ft in
60	EW																				
55	EW																				
50	EW							16,750*	16,750*										16,310*	16,310*	32' 1"
45	EW							16,089*	16,089*			15,208*	15,208*						14,987*	14,987*	37' 8"
40	EW											14,987*	14,987*	14,326*	14,326*				13,885	14,106*	41'10"
35	EW							15,869*	15,869*	14,987*	14,987*	14,326*	14,326*	12,563	13,224				11,902	12,563	45' 1"
30	EW							16,530*	16,530*	15,428*	15,428*	14,326*	14,326*	12,342	13,004				10,579	11,240	47' 8"
25	EW					19,175*	19,175*	17,412*	17,412*	15,869*	15,869*	14,767*	14,767*	12,122	12,783	9,698	10,359	9,698	10,138	49' 6"	
20	EW			24,685*	24,685*	21,158*	21,158*	18,514*	18,514*	16,750*	16,750*	14,546	15,428*	11,681	12,342	9,477	10,138	8,816	9,477	50'11"	
15	EW	37,468*	37,468*	28,432*	28,432*	23,362*	23,362*	20,056*	20,056*	17,412	17,632*	13,885	14,767	11,240	11,902	9,257	9,918	8,375	9,036	51' 9"	
10	EW	44,962*	44,962*	32,399*	32,399*	25,787*	25,787*	20,718	21,599*	16,310	17,191	13,224	13,885	10,800	11,461	9,036	9,477	8,155	8,596	52' 1"	
5	EW	22,040*	22,040*	34,162	35,705*	24,905	26,448	19,175	20,277	15,428	16,310	12,563	13,224	10,359	11,020	8,596	9,257	7,934	8,375	52'	
0	EW	18,514*	18,514*	31,517	33,721	23,142	24,685	17,852	19,175	14,546	15,428	11,902	12,563	9,918	10,579	8,375	9,036	7,934	8,375	51' 5"	
- 5	EW	19,395*	19,395*	29,754	32,178	21,820	23,362	16,971	18,073	13,885	14,767	11,461	12,122	9,698	10,359	8,155	8,816	7,934	8,596	50' 4"	
- 10	EW	21,379*	21,379*	29,093	31,297	21,158	22,701	16,530	17,632	13,224	14,326	11,020	11,902	9,477	10,138			8,375	8,816	48' 9"	
- 15	EW			28,872	31,297	20,718	22,260	16,089	17,191	13,004	14,106	11,020	11,681	9,477	10,138			8,816	9,477	46' 3"	
- 20	EW																	13,665	14,767	33' 4"	
- 25	EW																				

 Height  Can be slewed through 360°  In longitudinal position of undercarriage  Max. reach \* Limited by hydr. capacity

The lift capacities are stated in pounds (lb) on the lifting gear's stick tip, and can be lifted 360° on firm, level supporting surface. Capacities are valid for 24" wide triple grouser pads. 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.

# Choice of Cab Elevation and Cab Protection

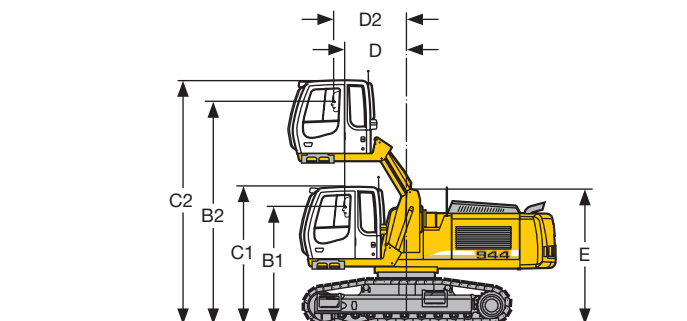


## Rigid Cab Elevation

Height	3'11" ft in	6'7" ft in
B	13' 1" ft in	15'9" ft in
C	14' 9" ft in	17'4" ft in
D	2' 2" ft in	2'2" ft in

Weight includes basic machine with pad width 24"  
80,467 lb

80,908 lb

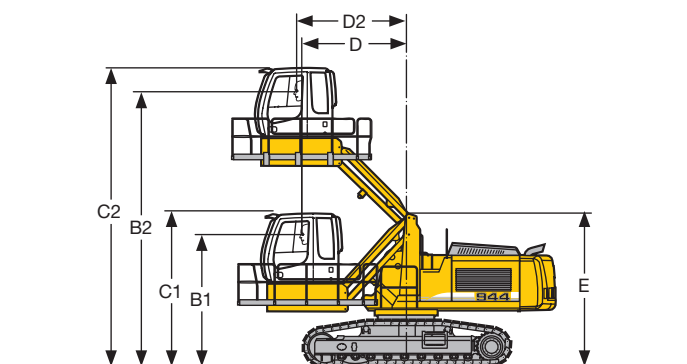


## Hydraulic Cab Elevation

B1	9' 2" ft in
B2	17' 4" ft in
C1	10'10" ft in
C2	19' ft in
D1	4' 9" ft in
D2	5' 7" ft in
E	10' 6" ft in

Weight includes basic machine  
with pad width 24"

82,892 lb



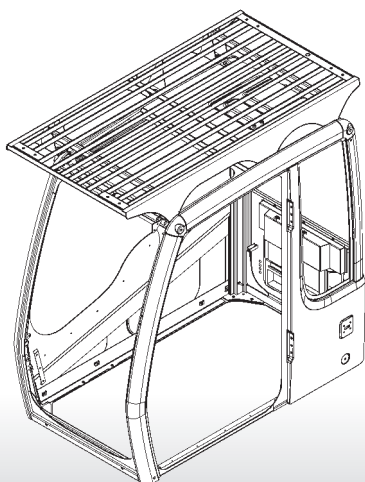
## Hydraulic Cab Elevation (Parallelogram) + Intermediate Piece 1'7"

B1	10' 4" ft in
B2	21' 6" ft in
C1	11'11" ft in
C2	23' 2" ft in
D1	8' 2" ft in
D2	8' 2" ft in
E	11'11" ft in

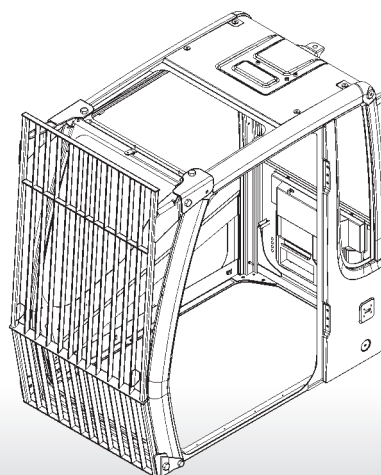
Weight includes basic machine  
with pad width 24"

83,774 lb

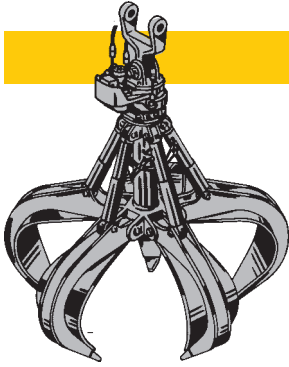
## FOPS Guard



## Front Guard



# Variety of Tools



## Multiple Tine Grapples

			open tines		semi-closed tines		closed tines	
<b>Grapple Model 69</b> (4 tines)	Capacity	yd <sup>3</sup>	1.05	1.44	1.05	1.44	1.05	1.44
	Weight	lb	2,601	2,932	3,197	3,946	3,924	4,277
<b>Grapple Model 70 C</b> (5 tines)	Capacity	yd <sup>3</sup>	1.05	1.44	1.05	1.44	1.05	1.44
	Weight	lb	3,307	3,351	3,770	4,101	4,189	4,387



## Crane Hook with Suspension

Max. load	lb	27,550
Height with suspension	ft in	3'3"
Total weight	lb	287

For further information see "Attachment-Information – Liebherr Hydraulic Clamshells and Grapples". To operate a magnet the installation of a generator is required; please contact your Liebherr dealer or the factory for further information.

# Equipment



## Undercarriage

s o

Two-speed travel	•	
Track guides on idler end	•	
Life time lubricated track rollers	•	
Travel drive completely integrated into the undercarriage frame	•	
Tracks sealed and greased	•	
Track guides at sprocket and in center		•
Reinforced base-plate center-piece		•
Conversion kit – Track D 7 to D 7 G		•



## Uppercarriage

s o

Engine hood with lift cylinder	•	
Lockable tool box	•	
Handrails, non slip surfaces	•	
Tool kit	•	
Maintenance-free swing brake lock	•	
Maintenance-free HD-batteries	•	
Main switch for electric circuit	•	
Sound insulation	•	
Electric fuel tank filler pump		•
Foot pedal swing positioning brake		•
Extended tool kit		•
Customized colors		•



## Hydraulics

s o

Electronic pump regulation	•	
Stepless work mode selector	•	
Pressure storage for controlled lowering of attachments with engine turned off	•	
Hydraulic tank shut-off valve	•	
Pressure compensation	•	
Flow compensation	•	
Filter with integrated fine filter area (5 µm)	•	
Pressure test ports	•	
Additional hydraulic circuits		•
Bio-degradable hydr. oil		•
Filter for secondary circuit		•



## Engine

s o

Unit pump system	•	
Turbo-charged and after-cooled, reduced emissions	•	
Dry-type air cleaner w/pre-cleaner, main and safety element	•	
Sensor controlled engine idling	•	
Engine cold starting aid		•



## Operator's Cab

s o

Roof hatch	•	
Tinted windows	•	
Right window made of one piece (without post)	•	
Door with sliding window	•	
Rain hood over front window opening	•	
Wiper/washer	•	
Emergency exit rear window	•	
Sun roller blind	•	
Seat and consoles independently adjustable (6-way adjustable seat)	•	
Storage tray	•	
Closed storage space	•	
Coat hook	•	
Removable customized foot mat	•	
Dome light	•	
Inside rear mirror	•	
Cigarette lighter and ashtray	•	
Seat belt	•	
Mechanical hour meters, readable from outside the cab	•	
Displays for engine operating condition	•	
Automatic air conditioning with defroster	•	
Preparation for radio installation	•	
Stereo radio		•
Electric cooler		•
Auxiliary heating		•
Additional flood lights		•
Wiper in lower front window		•
Roof window wiper		•
Bullet proof window (fixed installation – can not be opened)		•
FOPS Protection		•
Air pressure operator seat with heating and head-rest		•
Electronic theft protection		•
Beacon		•
Extinguisher		•



## Attachment

s o

Flood lights	•	
Hydr. lines for clam operation in stick	•	
Sealed pivots	•	
Liebherr semi-automatic central lubrication system	•	
Safety check valves on hoist cylinder, regenerative	•	
Safety check valves on stick cylinder, regenerative	•	
Hose quick connection	•	
Cylinders with shock absorber	•	
Industrial-type gooseneck sticks with remote hydraulic pin puller		•
Safety lift hook		•
Liebherr line of clams		•
Liebherr fully-automatic central lubrication system		•
Customized colors		•
Overload warning device		•

S = Standard, O = Option

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

**Liebherr Construction Equipment Co.**  
4100 Chestnut Avenue, Newport News, VA 23607, USA  
☎ (757) 2 45 52 51, Fax (757) 9 28 87 01  
www.liebherr.com, E-Mail: info.lce@liebherr.com