

## **Technical data**



Liiginio	
Rating per ISO 9249	200 kW (272 HP) at 1,800 RPM
Torque	1,400 Nm at 1,100 RPM
Model	Liebherr D944 A7-25 (Stage V)
	Liebherr D944 A7-24 (Tier 4 Final)
	Liebherr D944 A7-20 (non-regulated only for select markets)
Туре	4 cylinder in-line
Bore	130 mm
Stroke	150 mm
Displacement	7.9641
Engine operation	4-stroke diesel
	Common-Rail, monoturbo
Exhaust gas treatment	DOC + SCR Filter (Stage V)
	or
	SCR (Tier 4 Final)
	or
	without EGR (non-regulated only for select markets)
Cooling system	Water-cooled and integrated motor oil cooler, after- cooled and fuel cooled
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	7701
Urea tank	901
Electrical system	
Voltage	24V
Batteries	2 x 180 Ah/12 V
Starter	24V/7.8kW
Alternator	Three-phase current 28 V / 140 A
Engine idling	Sensor controlled
Motor management	Connection to the integrated excavator system controlling via CAN-BUS to the economical utilisation of the service that is available



# $\stackrel{\bigcap}{ riangle}$ Hydraulic controls

Power distribution	Via control valves in single block with integrated safety valves
Flow summation	To boom and stick
Closed-loop circuit	For uppercarriage swing drive
Servo circuit	
Equipment and swing	Proportional via joystick levers
Travel	- Proportional control via foot pedals or removable levers - Speed pre-selection
Additional functions	Proportional regulation via foot pedals or mini-joystick

## Hydraulic system

e ilyulaulic systelli				
Hydraulic system	Positive Control hydraulic system. Demand-based, double independent pump flows Features high system dynamics and sensitivity provided by integrated system controlling Independent circuit for rotation			
Hydraulic pumps				
For equipment and travel drive	Liebherr, variable displacement, swashplate double pump			
Max. flow	2 x 315 l/min.			
Max. pressure	380 bar			
For swing drive	Reversible, variable displacement, swashplate pump, closed-loop circuit			
Max. flow	205l/min.			
Max. pressure	400 bar			
Pump management	Electronic pump management via the integrated system controlling (CAN-BUS) synchronous to the control block			
Hydraulic tank	3801			
Hydraulic system	1,100 l with demolition equipment			
Filtration	$1$ full flow filter (10 $\mu m)$ in return line with integrated fine filter area (5 $\mu m)$			
Cooling system	Compact cooler, consisting of a water cooler, with hydraulic oil cooler, gearbox oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan			
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs			
RPM adjustment	Stepless adjustment of engine output via RPM at each selected mode			
Tool Control	20 pre-adjustable pump flows and pressures for add-on attachments			
Attachment system				
Flow	3151/min.			
Pressure	380 bar			
Attachment rotation system				
Flow	30l/min.			
Pressure	140 bar			
Max. pressure	180 bar			



## $\bigcirc$ Swing drive

Drive	Liebherr swashplate motor with integrated brake valve
Transmission	Liebherr compact planetary reduction gears
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0-7.5 min <sup>-1</sup> stepless
Swing torque	115.2 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)



Safety cab structure, headlight integrated under the protection, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, sound damping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, cigarette lighter and 12V plug, storage bins, lunchbox, cup holder, polycarbonate windows on right side  Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination, seat heating as standard  Arm consoles  Operation and displays  Arm consoles  Operation and displays  Large high-resolution colour display with intuitive operation via touchscreen, video, additional colour display for front and side camera, versatile adjusting, control and monitoring facilities, e.g. climate control, implement and attachment parameters, specific demolition display  Air-conditioning  Standard automatic air-conditioning, ambient air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Ambient air and fresh air filters can be easily replaced and are accessible from the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures  Refrigerant  R134a Rlobal warming potential  Quantity at 25°C*  1,260g  C0 <sub>2</sub> equivalent  Vibration emission**  Hand / arm vibrations  Vale (S)	ETT CAD	
adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination, seat heating as standard  Arm consoles  Operation and displays  Large high-resolution colour display with intuitive operation via touchscreen, video, additional colour display for front and side camera, versatile adjusting, control and monitoring facilities, e.g. climate control, implement and attachment parameters, specific demolition display  Air-conditioning  Standard automatic air-conditioning, ambient air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Ambient air and fresh air filters can be easily replaced and are accessible from the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures.  The air conditioning system contains fluorinated greenhouse gases  Refrigerant  R134a  Refrigerant  R134a  R134a  Quantity at 25°C*  1,260 g  C0,2 equivalent  1.80t  Vibration emission**  Hand / arm vibrations  Vibration emission**  Hand / arm vibrations  Volse emission  ISO 6396  71 dB(A) = LpA (Inside cab)	Cab	protection, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, sound damping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, cigarette lighter and 12V plug, storage bins, lunchbox,
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tion, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Ambient air and fresh air filters can be easily replaced and are accessible from the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures. The air conditioning system contains fluorinated greenhouse gases  Refrigerant R134a Global warming potential 1,430 Quantity at 25°C* 1,260 g CO2 equivalent 1.80 t Vibration emission** Hand / arm vibrations < 2.5 m/s², according with ISO 5349-1:2001 Whole-body vibrations < 0.5 m/s² Noise emission ISO 6396 71 dB(A) = LpA (inside cab)		tion via touchscreen, video, additional colour display for front and side camera, versatile adjusting, control and monitoring facilities, e.g. climate control, implement and attachment parameters, specific demolition display
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Air-conditioning	tion, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Ambient air and fresh air filters can be easily replaced and are accessible from the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures  The air conditioning system contains fluorinated green-
Quantity at 25 °C* 1,260 g  CO <sub>2</sub> equivalent 1.80 t  Vibration emission**  Hand /arm vibrations <2.5 m/s², according with ISO 5349-1:2001  Whole-body vibrations <0.5 m/s²  Measuring inaccuracy According with standard EN 12096:1997  Noise emission  ISO 6396 71 dB(A) = L <sub>pA</sub> (inside cab)		11-21-2
CO <sub>2</sub> equivalent  Vibration emission**  Hand / arm vibrations  Whole-body vibrations  Whose emission  ISO 6396  Vibration = 1.80t  1.80t  < 2.5 m/s², according with ISO 5349-1:2001  < 0.5 m/s²  According with standard EN 12096:1997  Noise emission  ISO 6396  71 dB(A) = L <sub>pA</sub> (inside cab)	0 1	1 '
Vibration emission**     < 2.5 m/s², according with ISO 5349-1:2001		1 ' 0
$ \begin{array}{lll} \mbox{Hand/arm vibrations} & <2.5\mbox{m/s}^2, \mbox{according with ISO 5349-1:2001} \\ \mbox{Whole-body vibrations} & <0.5\mbox{m/s}^2 \\ \mbox{Measuring inaccuracy} & \mbox{According with standard EN 12096:1997} \\ \mbox{Noise emission} & \\ \mbox{ISO 6396} & 71\mbox{dB(A)} = L_{pA} \mbox{ (inside cab)} \\ \end{array} $		1.80t
Whole-body vibrations $< 0.5  m/s^2$ Measuring inaccuracy According with standard EN 12096:1997  Noise emission ISO 6396 71 dB(A) = $L_{pA}$ (inside cab)		
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ISO 6396 $71 dB(A) = L_{pA}$ (inside cab)		According with standard EN 12096:1997
	Noise emission	
2000/14/EC $  105 dB(A) = L_{WA}$ (surround noise)		
	2000/14/EC	105 dB(A) = L <sub>WA</sub> (surround noise)

#### Undercarriage

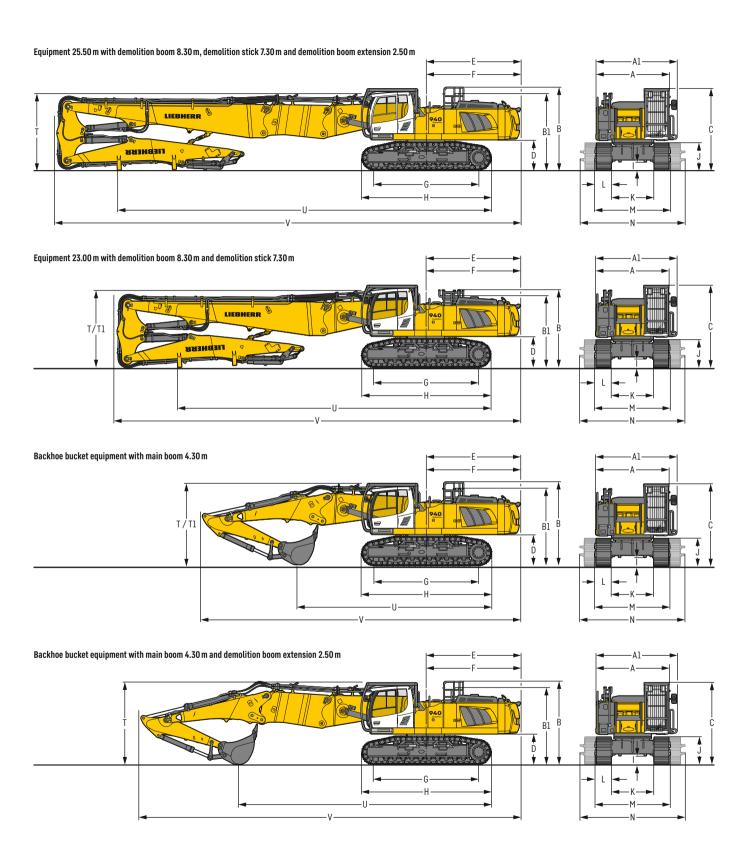
Versions			
VH-HD	Hydraulic variable gauge		
LC-V	Mechanical variable gauge		
LC/NLC	Standard		
Drive	Liebherr swashplate motor with integrated brake valve		
Transmission	Liebherr compact planetary reduction gear		
Maximum travel speed	2.2 km/h low range		
	3.1 km/h high range		
Drawbar pull on crawler	400 kN (VH-HD)		
	347 kN (LC-V)		
	296 kN (LC/NLC)		
Track components	D7, D7G, maintenance-free		
Track rollers / Carrier rollers	10/3 (VH-HD)		
	10/3 (LC-V)		
	9/2 (LC/NLC)		
Tracks	Sealed and greased		
Track pads	Triple grouser		
Holding brake	Wet multi-disc (spring applied, pressure released)		



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Туре	Combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance
Lubrication	Automatic central lubrication system (except link and tilt geometry)
Hydraulic connections	Pipes and hoses equipped with SAE split-flange connections
Buckets	Standard equipped with Liebherr tooth system

<sup>\*</sup> Valid for standard machine without operator's cab elevation and without height adjustable cab \*\* For the risk assessment according to 2002/44/EC see ISO/TR 25398:2006

## **Dimensions**



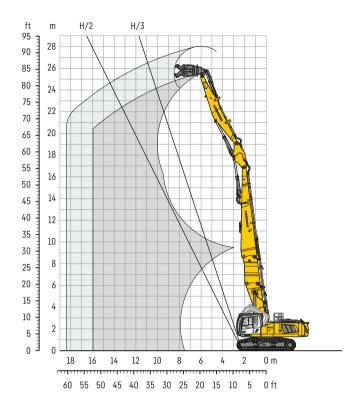
		VH-HD mm	LC-V mm	LC mm	NLC mm
Α	Uppercarriage width	2,9852)	2,9852)	2,9852)	2,9852)
A1	Uppercarriage width with catwalks	3,325	3,325	3,325	3,325
В	Uppercarriage height	3,450	3,560	3,405	3,405
B1	Uppercarriage height (handrails folded)	3,190	3,300	3,145	3,145
C	Cab height	3,400	3,510	3,355	3,355
D	Counterweight ground clearance	1,250	1,360	1,205	1,205
Ε	Rear-end length	3,945	3,945	3,945	3,945
F	Tail swing radius	3,945	3,945	3,945	3,945
G	Wheelbase	4,390	4,400	4,108	4,108
Н	Undercarriage length	5,370	5,365	5,030	5,030
- 1	Undercarriage ground clearance	440	760	535	535
J	Track height	1,140	1,165	1,070	1,070
K	Track gauge	2,380-3,3003)	2,390-2,8903)	2,590	2,390
L	Track pad width	600	600	600	600
М	Width over tracks	2,980-3,9303)	2,990-3,4903)	3,190	2,990
N	Width over steps	3,090-4,3101)3)	3,240-3,7401)3)	3,180	2,980

		Equipment 25.50 m	Equipment 23.00 m			
		mm		m	ım	
		VH-HD	VH-HD	LC-V	LC	NLC
T	Boom height	3,200	3,200	3,300	3,150	3,150
T1	Boom height with automatic hydraulic coupling system	-	3,650	3,750	3,600	3,600
U	Length on ground	15,600	13,100	13,050	12,900	12,900
٧	Overall length	19,500	16,950	16,950	16,950	16,950

		Stick length	Backhoe buc					ket equipmen ion boom exte	nsion	
		m		m	m			m	m	
			VH-HD	LC-V	LC	NLC	VH-HD	LC-V	LC	NLC
T	Boom height	2.50	3,400	3,450	3,400	3,400	3,400	3,450	3,400	3,400
		2.80	3,450	3,500	3,450	3,450	3,450	3,500	3,450	3,450
T1	Boom height with automatic hydraulic coupling system	2.50	3,850	3,900	3,850	3,850	-	-	-	-
		2.80	3,900	3,950	3,900	3,900	-	-	-	-
U	Length on ground	2.50	8,150	8,000	7,800	7,800	10,550	10,400	10,200	10,200
		2.80	7,950	7,800	7,600	7,600	10,750	10,600	10,400	10,400
٧	Overall length	2.50	13,400	13,400	13,400	13,400	15,900	15,900	15,900	15,900
		2.80	13,400	13,400	13,400	13,400	15,900	15,900	15,900	15,900

<sup>1)</sup> width with removable steps 2) without door stop device and spacer 3) work position

## Demolition equipment 25.50 m



#### **Reach limitation**

		12 m	14 m	16 m
Demolition boom 8.30 m				
+ Intermediate boom 2.25 m		Att	tachme	ent
+ Demolition stick 7.30 m		١	weight	*
+ Demolition boom extension 2.50 m			t	
VH-HD undercarriage	lengthwise	2.50	2.00	1.50
	transverse	1.50	-	-

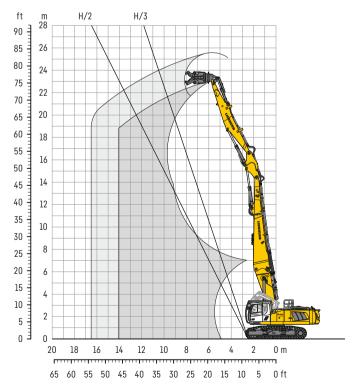
<sup>\*</sup> included quick coupler, adapter plate and attachment

#### Operating weight and ground pressure

The operating weight includes the basic machine with counterweight  $11.0\,t$ , demolition boom  $8.30\,m$ , intermediate boom  $2.25\,m$ , demolition stick  $7.30\,m$ , demolition boom extension  $2.50\,m$  and attachment  $3.0\,t$ .

Undercarriage	VH-HD
Pad width	<b>mm</b> 600
Weight	<b>kg</b>   67,100
Ground pressure	kg/cm <sup>2</sup> 1.18

## Demolition equipment 23.00 m



#### **Reach limitation**

		10 m	12 m	14 m
Demolition boom 8.30 m + Intermediate boom 2.25 m + Demolition stick 7.30 m			tachme weight t	
VH-HD undercarriage	lengthwise transverse	3.00 3.00	3.00 2.75	3.00 2.50
LC-V undercarriage	lengthwise transverse	3.00 3.00	3.00 2.25	2.75 1.75
LC undercarriage	lengthwise transverse	3.00 2.00	3.00 1.75	2.75
NLC undercarriage	lengthwise transverse	3.00 1.50	3.00 1.25	2.50

<sup>\*</sup> included quick coupler, adapter plate and attachment

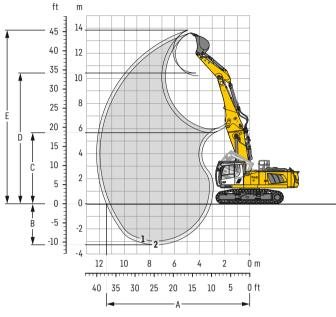
#### Operating weight and ground pressure

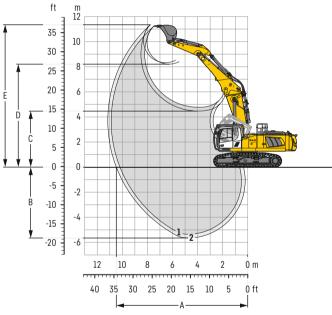
The operating weight includes the basic machine with counterweight 11.0 t, demolition boom 8.30 m, intermediate boom 2.25 m, demolition stick 7.30 m and attachment 3.0 t.

Undercarriage		VH-HD	LC-V	LC	NLC
Pad width	mm	600	600	600	600
Weight	kg	63,900	59,800	54,700	54,600
Ground pressure	kg/cm²	1.13	1.05	1.03	1.03

## **Backhoe bucket**

#### with main boom 4.30 m





#### Digging envelope

Main boom pinned in upper (in lower) bearing

		1	2
Stick length	m	2.50	2.80
A Max. reach at ground level	m	11.13 (10.19)	11.41 (10.48)
B Max. digging depth	m	2.96 ( 5.35)	3.26 ( 5.65)
C Min. dumping height	m	5.95 ( 4.77)	5.66 ( 4.47)
D Max. dumping height	m	10.20 ( 8.21)	10.42 ( 8.21)
E Max. cutting height	m	13.61 (11.23)	13.84 (11.35)

#### **Forces**

		1	2
Stick digging force (ISO 6015)	kN	168	156
Bucket digging force (ISO 6015)	kN	204	204
Stick digging force (SAE J1179)	kN	160	149
Bucket digging force (SAE J1179)	kN	178	178

#### Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 11.0 t, main boom  $4.30\,m$ , stick  $2.50\,m$  and bucket  $2.00\,m^3$  (1,210 kg).

Undercarriage		VH-HD	LC-V	LC	NLC
Pad width	mm	600	600	600	600
Weight	kg	58,000	53,900	48,800	48,700
Ground pressure	kg/cm <sup>2</sup>	1.02	0.95	0.92	0.92

#### **Buckets** Machine stability per ISO 10567\* (75% of tipping capacity)

ting th acity 7451 ght				dercarriage pads 600 mm)		ercarriage oads 600 mm)		rcarriage oads 600 mm)	NLC undercarriage (with track pads 600 mm)			
Cuttir	Capac ISO 7	. Weigh		ngth (m)		ngth (m)		ngth (m)		ngth (m)		
mm	m³	kg	2.50	2.80	2.50	2.80	2.50	2.80	2.50	2.80		
1,550	1.60	1,110	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		
1,650	1.75	1,160	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		
1,550	1.85	1,170	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		
1,650	2.00	1,210	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		
1,750	2.15	1,260	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	•		

 $<sup>^{\</sup>ast}\,$  Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground

Max. material weight  $\triangle$  =  $\leq 2.0 \text{ t/m}^3$ ,  $\blacksquare$  =  $\leq 1.8 \text{ t/m}^3$ 

## **Lift capacities**

## with main boom 4.30 m (pinned in upper bearing), counterweight 11.0 t and track pads 600 mm

Stic	k 2.5	0 m													Stic	k 2.8	30 m												
. 8	I	4.5	m	6.0	) m	7.5	5 m	9.0	) m	10.	5 m	1	~ <u>c</u>	þ	. 8	I	4.5	5 m	6.0	) m	7.5	5 m	9.0	) m	10.	5 m	0	<u>~</u>	7
Under- carriage	180	-5	Ŀ	50		-50	Ŀ	_ ~	Ŀ	- <del>4</del>			6		Under- carriage	120			5	Ŀ		Ŀ	5	Ŀ	-5				_
<b>⊃</b> ö	m 12.0	ريدا	u		<u></u>	ريوا	u	- <del>4</del>	<u></u>	ريوت		<b>~</b> □		m	⊃ ວັ	m 12.0	5)	-		L		<b></b>				-	10.2*	10.2*	m 4.7
	10.5			11.2*	11.2*							9.5*	9.5*	6.7		10.5			10.1*	10.1*							8.3*	8.3*	7.1
	9.0			11.2*	11.2*	10.9*						8.6*	8.6*	8.2		9.0			9.8*	9.8*	9.9*	9.9*					7.5*	7.5*	8.6
	7.5	14.5*	14.5*	13.1*		12.4*			10.0*			8.2*	8.2*	9.3		7.5	11.1*	11.1*	11.1*		10.9*			9.6*			7.2*	7.2*	9.6
VH-HD	6.0			17.0* 17.8*		13.8* 14.2		11.3 11.0	11.8* 12.1*			8.1* 8.1*	8.1* 8.1*	10.0 10.4	WH-HD	6.0			16.6*	16.6* 18.2*	14.3*	13.5*	11.4	11.5* 12.0*	8.8*	8.8*	7.1* 7.2*	7.1* 7.2*	10.3 10.7
≢	4.5 3.0			17.0	17.0		14.9*	10.8	12.3*	8.7	9.9*	8.4*	8.4*	10.4	₹	4.5 3.0			10.2	10.2		14.8*	10.8	12.0*		10.4*	7.4*	7.4*	10.7
	1.5					13.4		10.6	12.2*		10.0*	8.6	8.9*	10.6		1.5					13.4			12.2*		10.1*	7.8*	7.8*	10.9
	0			9.7*	9.7*		14.1*	10.5	11.6*			8.8	9.4*	10.4		0			10.8*		13.2			11.7*	8.6	9.4*	8.5	8.5*	10.6
	-1.5			14.4*	14.4*	12.6*	12.6*	10.4*	10.4*			8.7*	8.7*	9.9		-1.5			15.1*	15.1*	12.9*		10.5	10.6*			8.5*	8.5*	10.2
	-3.0 12.0											11.9*	11 0*		-	-3.0 12.0					10.8*	10.8*					9.3* 10.0*	9.3*	8.7 4.7
	10.5			11.3*	11.3*							9.4*	9.4*	6.7		10.5			10.0*	10.0*							8.2*	8.2*	7.1
	9.0			11.3*		11.0*	11.0*					8.5*	8.5*	8.2		9.0			9.8*	9.8*	9.9*	9.9*					7.5*	7.5*	8.6
	7.5	15.5*	15.5*	13.4*			12.5*		10.2*			8.2*	8.2*	9.3		7.5	11.5*	11.5*		11.3*	11.0*		9.4	9.7*			7.2*	7.2*	9.6
>	6.0			16.3			13.8*	9.1	11.9*			7.7	8.1*	10.0	>	6.0				16.7*		13.6*		11.7*	7.1	0.0*	7.1*	7.1*	10.3
PC-V	4.5 3.0			15.2	16.0*		14.5* 14.9*	8.9	12.1* 12.3*	7.0	10.0*	7.2 6.9	8.2* 8.5*	10.4 10.6	rc-	4.5 3.0			15.5	18.2*	11.4 10.9	14.3*	8.9	12.0* 12.2*	7.1 7.0	9.0* 10.3	6.9	7.2* 7.4*	10.7 10.9
	1.5						14.8*	8.4	12.2*		10.0*	6.9	9.0*	10.6		1.5						14.8*		12.1*		10.1*	6.6	7.9*	10.7
	0			10.1*	10.1*	10.5	14.0*	8.3	11.5*			7.1	9.4*	10.4		0			11.1*	11.1*		14.1*		11.6*	6.9	9.3*	6.8	8.6*	10.6
	-1.5			14.3*	14.3*	10.6	12.5*	8.4	10.3*			7.6	8.7*	9.9		-1.5			14.3	14.9*	10.5	12.8*	8.3	10.5*			7.3	8.5*	10.2
	-3.0 12.0															-3.0 12.0											10.4*	10 /*	8.7 4.7
	10.5			11.2*	11 2*							9.6*	9.6*	6.7		10.5			10.1*	10.1*							8.3*	8.3*	7.1
	9.0			11.2*		10.6	10.9*					8.6*	8.6*	8.2		9.0			9.8*	9.8*	9.9*	9.9*					7.5*	7.5*	8.6
	7.5	13.9*	13.9*	13.0*			12.3*	7.7	9.8*			7.3	8.2*	9.3		7.5	10.8*	10.8*		11.0*	10.5	10.8*	7.8	9.5*			7.0	7.2*	9.6
	6.0			13.6			13.8*	7.6	11.5			6.4	8.1*	10.0		6.0				16.6*	10.0	13.5*		11.4*		0.74	6.1	7.1*	10.3
2	4.5 3.0			12.5	18.5*		14.5* 14.1	7.3	11.2 10.9	5.7	8.8	5.9 5.6	8.1* 8.4*	10.4	2	4.5 3.0			12.7	18.1*		14.2* 14.1		11.2 10.9	5.8 5.7	8.7* 8.8	5.7 5.4	7.2* 7.4*	10.7 10.9
	1.5						13.7	6.9	10.7	5.7	8.7	5.6	8.6	10.6		1.5						13.7	6.9	10.7	5.6	8.7	5.4	7.8*	10.9
	0			9.5*	9.5*		13.6	6.8	10.6	0.7	0.7	5.8	8.9	10.4		0			10.6*	10.6*		13.5	6.7	10.6	5.6	8.6	5.5	8.5*	10.6
	-1.5			11.6	14.5*	8.6	12.7*	6.8	10.4*			6.2	8.7*	9.9		-1.5			11.5	15.2*		13.0*	6.8	10.6			5.9	8.6*	10.2
	-3.0															-3.0					8.7	10.9*					7.2	9.1*	8.7
	12.0 10.5			11.2*	11 2*							9.6*	9.6*	6.7		12.0 10.5			10.1*	101*							10.4* 8.3*	10.4*	4.7 7.1
	9.0			11.2*		9.9	10.9*					8.4	8.6*	8.2		9.0			9.8*	9.8*	9.9*	9.9*					7.5*	7.5*	8.6
	7.5	13.9*	13.9*	13.0*			12.3*	7.2	9.8*			6.8	8.2*	9.3		7.5	10.8*	10.8*		11.0*	9.7	10.8*	7.3	9.5*			6.5	7.2*	9.6
	6.0			12.6			13.8*	7.0	11.5			6.0	8.1*	10.0		6.0				16.6*		13.5*	7.1	11.4*			5.7	7.1*	10.3
NIC	4.5			11.5	18.5*		14.5*	6.8	11.2	F 7	0.0	5.5	8.1*	10.4	NLC	4.5			11.6	18.1*	8.7	14.2*	6.8	11.2	5.4	8.7*	5.2	7.2*	10.7
	3.0 1.5						14.0 13.7	6.5	10.9	5.3 5.2	8.8	5.2 5.2	8.4*	10.6		3.0 1.5						14.1 13.7		10.9 10.7	5.3 5.2	8.8	5.0 4.9	7.4* 7.8*	10.9 10.9
	0			9.5*	9.5*		13.6	6.3	10.7	J.Z	0.7	5.3	8.8	10.6		0			10.4	10.6*		13.5		10.7	5.1	8.6	5.1	8.5	10.6
	-1.5			10.6			12.7*		10.4*			5.7	8.7*	9.9		-1.5			10.5			13.0*		10.5			5.4	8.6*	10.2
	-3.0															-3.0					8.0	10.9*					6.6	9.1*	8.7

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via \*). Without bucket cylinder, link and lever the lift capacities will increase by 410 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

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 safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.

Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

## **Lift capacities**

## with main boom 4.30 m (pinned in lower bearing), counterweight 11.0 t and track pads 600 mm

Stic	tick 2.50 m Stick 2.80 m																	
. 8	1	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	1	<b>~</b> ₽	3	. es	12	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m		片
Under- carriage	m	-5 6		-5 6	j	j			m	Under- carriage	m	b	-5 6	b	-5 6	-5 6	-5	m
_ 3	10.5		_ <del>_</del>	- Gar Gar				bed	1111	0	10.5							
	9.0						8.3*	8.3*	7.3		9.0			8.2* 8.2*			7.3* 7.3*	7.7
	7.5			11.5* 11.5				8.1*	8.5		7.5			10.5* 10.5*			7.1* 7.1*	8.8
	6.0	19.5* 19.5*	14.5* 14.5			:		8.1*	9.2		6.0	18.4* 18.4*	14.0* 14.0*		9.8* 9.8*		7.1* 7.1*	9.5
오	4.5		16.6* 16.6*			·		8.4*	9.7	웊	4.5		16.1* 16.1*		11.2* 11.2*		7.4* 7.4*	10.0
VH-HD	3.0 1.5		18.4* 18.4° 16.4* 16.4°			t		9.0* 9.8*	9.9 9.9	W-HD	3.0 1.5		18.0* 18.0* 18.5* 18.5*		11.1 11.7* 10.8 12.1*		7.8* 7.8* 8.6* 8.6*	10.2
	0		18.4 18.9		1	:		1.3*	9.7		0		18.4 18.9*		10.0 12.1		9.4 9.7*	9.9
	-1.5	12.0* 12.0*		13.5 14.5		:		1.5*	9.1		-1.5	12.0* 12.0*	18.2* 18.2*		10.6 11.9*		10.0 11.2*	9.4
	-3.0		16.2* 16.2*				11.6* 1	1.6*	8.3		-3.0	19.9* 19.9*					11.3* 11.3*	8.6
	-4.5										-4.5							7.1
	10.5						0.74	0.74			10.5			0.14 0.14			774 774	
	9.0 7.5		13.0* 13.0°	11 5* 11 5*				8.3* 8.1*	7.3		9.0			8.4* 8.4* 10.6* 10.6*			7.3* 7.3* 7.1* 7.1*	7.7 8.8
	6.0	19.8* 19.8*	14.6* 14.6		9.5 10.2	:		8.1*	8.5 9.2		7.5 6.0	18.7* 18.7*	14.1* 14.1*		9.5 9.9*		7.1 7.1	9.5
	4.5	17.0 17.0	16.2 16.7		9.2 11.5	:		8.4*	9.7		4.5	10.7 10.7	16.2* 16.2*		9.3 11.2*		7.4* 7.4*	10.0
S	3.0		15.1 18.4			:		9.0*	9.9		3.0			11.4 14.0*	8.9 11.8*		7.5 7.9*	10.2
_	1.5		14.6 16.4	11.0 14.9	8.7 12.3		7.7	9.9*	9.9	_	1.5		14.6 18.5*	11.0 14.7*	8.7 12.2*		7.4 8.6*	10.2
	0		14.5 18.8		8.5 12.3	•		1.4*	9.7		0		14.4 18.9*	10.7 14.9*	8.5 12.3*		7.5 9.8*	9.9
	-1.5	12.5* 12.5*	14.5 17.9		8.5 11.7	•		1.5*	9.1		-1.5	12.4* 12.4*			8.5 11.8*		8.1 11.2*	9.4
	-3.0 -4.5		14.7 16.1	10.9 13.0			9.7 1	1.5	8.3		-3.0 -4.5	20.1 20.1	14.5 16.5*	10.8 13.4*			9.2 11.3*	8.6 7.1
	10.5										10.5							7.1
	9.0						8.3*	8.3*	7.3		9.0			8.0* 8.0*			7.3* 7.3*	7.7
	7.5		12.9* 12.9*	10.9 11.5			8.1*	8.1*	8.5		7.5			10.5* 10.5*			7.1* 7.1*	8.8
	6.0	19.3* 19.3*	14.5* 14.5			•		8.1*	9.2		6.0	18.2* 18.2*	14.0* 14.0*	10.6 11.9*	8.0 9.7*		7.1* 7.1*	9.5
	4.5		13.4 16.5	10.0 13.2		•		8.4*	9.7		4.5		13.6 16.0*	10.0 12.9*	7.7 11.2*		6.6 7.4*	10.0
2	3.0 1.5		12.4 18.3° 11.9 16.4°	9.4 14.2° 9.0 14.2	7.4 11.3			8.9* 9.6	9.9 9.9	2	3.0 1.5		12.6 17.9* 11.9 18.5*	9.5 13.9* 9.0 14.2	7.4 11.3		6.2 7.8* 6.0 8.5*	10.2
	0		11.7 18.9	8.8 13.9	7.0 10.8			9.9	9.7		0		11.9 18.5* 11.7 18.9*	8.8 13.9	7.1 11.0		6.1 9.5	9.9
	-1.5	11.7* 11.7*	11.7 18.0	8.7 13.8	7.0 10.8			0.6	9.1		-1.5	11.8* 11.8*	11.6 18.2*	8.7 13.8	6.9 10.7		6.5 10.1	9.4
	-3.0		11.9 16.3	8.9 13.2			7.8 1	1.6*	8.3		-3.0	18.0 19.5*	11.8 16.7*	8.7 13.5*			7.4 11.3*	8.6
	-4.5										-4.5						9.6 11.7*	7.1
	10.5						0.74	0.74			10.5			0.04 (5.51			774 7-1	
	9.0		10.0* 10.0	100 115				8.3*	7.3		9.0			8.0* 8.0*			7.3* 7.3*	7.7
	7.5 6.0	19.3* 19.3*	12.9* 12.9° 13.5 14.5°	10.2 11.5 <sup>1</sup> 9.8 12.2 <sup>1</sup>	7.4 9.8	:		8.1* 8.1*	8.5 9.2		7.5 6.0	18.2* 18.2*	13.7 14.0*	10.3 10.5* 9.9 11.9*	7.4 9.7*		7.1* 7.1* 6.7 7.1*	8.8 9.5
	4.5	17.5 17.5	12.4 16.5	9.3 13.2	7.4 7.0			8.4*	9.7		4.5	10.2 10.2	12.6 16.0*	9.3 12.9*	7.4 7.7		6.1 7.4*	10.0
NC	3.0		11.4 18.3	8.7 14.2	6.8 11.2			8.9*	9.9	NC NC	3.0		11.6 17.9*	8.8 13.9*	6.9 11.3		5.7 7.8*	10.2
_	1.5		10.9 16.4	8.3 14.1	6.6 11.0			9.6	9.9	~	1.5		10.9 18.5*	8.3 14.1	6.6 11.0		5.6 8.5*	10.2
	0		10.7 18.9	8.1 13.9	6.5 10.8			9.8	9.7		0		10.7 18.9*	8.1 13.8	6.4 10.8		5.7 9.4	9.9
	-1.5	11.7* 11.7*	10.7 18.0	8.0 13.8	6.4 10.8			0.6	9.1		-1.5	11.8* 11.8*	10.6 18.2*	8.0 13.7	6.4 10.7		6.0 10.1	9.4
	-3.0		10.9 16.3	8.1 13.2			7.2 1	1.6*	8.3		-3.0	16.3 19.5*	10.8 16.7*	8.0 13.5*			6.8 11.3*	8.6
	- 4.5	I	1	1	1	1	1				- 4.5	1	1	1	1		8.9 11.7*	7.1

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position.

Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via \*). Without bucket cylinder,

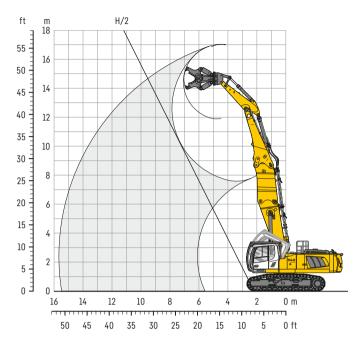
link and lever the lift capacities will increase by 410 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

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 safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.

Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

## **Backhoe bucket**

## with main boom 4.30 m and demolition boom extension 2.50 m



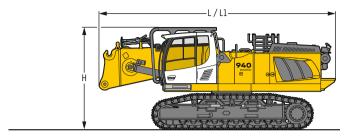
#### Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 11,0 t, main boom 4.30 m, demolition boom extension 2.50 m, stick 2.50 m and attachment\* 4.0 t.

Undercarriage		VH-HD	LC-V	LC	NLC
Pad width	mm	600	600	600	600
Weight	kg	63,200	59,100	54,000	53,900
Ground pressure	kg/cm <sup>2</sup>	1.11	1.04	1.01	1.01

<sup>\*</sup> included quick coupler, adapter plate and attachment

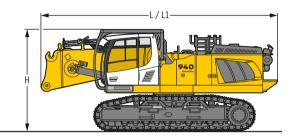
# **Dimensions and weights**



#### **Basic machine**

without counterweight with cab tiltable 30° and integral protection grid

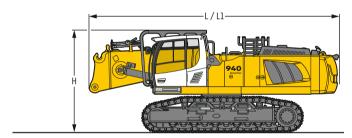
		VH-HD	LC-V	LC	NLC
L	mm	8,000	8,000	8,000	8,000
L1 with automatic hydraulic coupling system	mm	8,250	8,250	8,250	8,250
Н	mm	3,400	3,510	3,355	3,355
Weight	kg	40,900	36,800	31,700	31,600
Weight with automatic hydraulic coupling system	kg	41,800	37,700	32,600	32,500



#### **Basic machine**

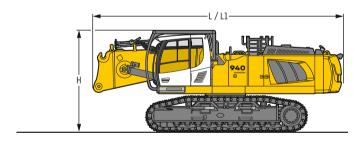
without counterweight with cab tiltable 30° and integral protection grid on tilting device

		VH-HD	LC-V	LC	NLC
L	mm	8,000	8,000	8,000	8,000
L1 with automatic hydraulic coupling system	mm	8,250	8,250	8,250	8,250
Н	mm	3,400	3,510	3,355	3,355
Weight	kg	41,300	37,200	32,100	32,000
Weight with automatic hydraulic coupling system	kg	42,200	38,100	33,000	32,900



**Basic machine** with counterweight 11.0 t, cab tiltable 30° and integral protection grid

		VH-HD	LC-V	LC	NLC
L	mm	8,450	8,450	8,450	8,450
L1 with automatic hydraulic coupling system	mm	8,700	8,700	8,700	8,700
Н	mm	3,400	3,510	3,355	3,355
Weight	kg	51,900	47,800	42,700	42,600
Weight with automatic hydraulic coupling system	kg	52,800	48,700	43,600	43,500

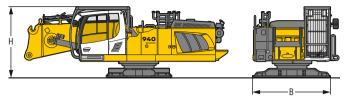


#### **Basic machine**

with counterweight 11.0 t, cab tiltable 30° and integral protection grid on tilting device

		VH-HD	LC-V	LC	NLC
L	mm	8,450	8,450	8,450	8,450
L1 with automatic hydraulic coupling system	mm	8,700	8,700	8,700	8,700
Н	mm	3,400	3,510	3,355	3,355
Weight	kg	52,300	48,200	43,100	43,000
Weight with automatic hydraulic coupling system	kg	53,200	49,100	44,000	43,900

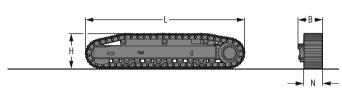
# **Dimensions and weights**



#### **Basic machine**

without side frames

В	mm	2,995
H Height	mm	2,750
Weight	kg	24,700
Weight with automatic hydraulic coupling system	kg	25,600



#### Side frame

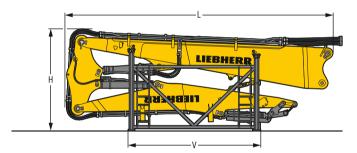
for LC-V undercarriage

L	Length	mm	5,555
Н	Height	mm	1,175
N		mm	600
В		mm	795
	Weight	kg	6,250



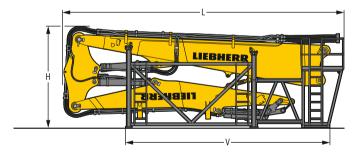
#### Counterweight

		•	
L	Length	mm	940
Н	Height	mm	1,420
	Width	mm	2,970
	Weight	ka	11 000



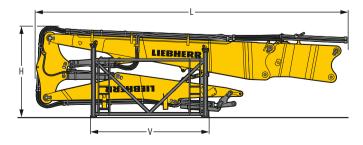
## **Demolition equipment** with storage rack

			23.00 m
L	Length	nm	9,050
Н	Height	nm	3,400
٧	r	nm	4,450
	Width	nm	2,500
	Weight without attachment	kg	10,100
	Weight with automatic hydraulic coupling system	kg	10,500



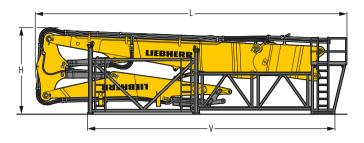
## **Demolition equipment** with storage rack with catwalks

		23.00 m
L	Length mm	9,500
Н	Height mm	3,400
٧	mm	6,900
	Width mm	2,500
	Weight without attachment kg	10,900
	Weight with automatic hydraulic coupling system kg	11,300



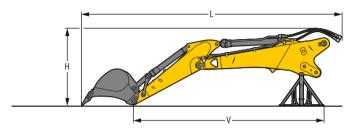
## $\begin{tabular}{ll} \textbf{Demolition equipment with demolition boom extension} \\ \textbf{with storage rack} \\ \end{tabular}$

			25.50 m
L	Length	mm	11,600
Н	Height	mm	3,400
٧		mm	4,445
	Width	mm	2,200
	Weight without attachment	kg	12,700



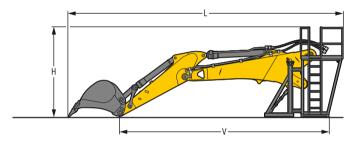
# Demolition equipment with demolition boom extension with storage rack with catwalks

		25.50 m
L Length	mm	12,500
H Height	mm	3,400
V	mm	9,840
Width	mm	2,500
Weight without attachment	kg	13,750



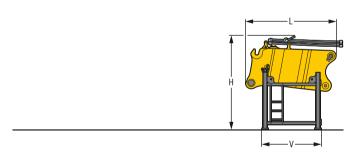
## Backhoe equipment with storage rack

	. 0101230 12011			
	Main boom length	m	4.	30
	Stick length	m	2.50	2.80
L	Length	mm	8,800	9,100
Н	Height	mm	2,600	2,600
٧		mm	6,450	6,750
	Width	mm	2,500	2,500
	Weight without bucket	kg	5,100	5,200
	Weight with automatic hydraulic coupling system	kq	5.500	5.600



## Backhoe equipment with storage rack with catwalks

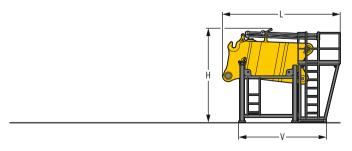
	Main boom length	m	4.	30
	Stick length	m	2.50	2.80
L	Length	mm	9,300	9,600
Н	Height	mm	3,020	3,020
٧		mm	7,050	7,350
	Width	mm	2,500	2,500
	Weight without bucket	kg	5,700	5,800
	Weight with automatic hydraulic coupling system	kg	6,100	6,200



#### **Demolition boom extension**

with storage rack

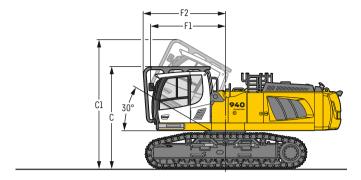
*****	in otorage rack		
L	Length	mm	3,040
Н	Height	mm	3,150
٧		mm	1,980
	Width	mm	2,200
	Weight	kg	3,740



## **Demolition boom extension** with storage rack with catwalks

	· · · · · · · · · · · · · · · · · · ·		
L	Length	mm	3,950
Н	Height	mm	3,150
٧		mm	2,925
	Width	mm	2,485
	Weight	kg	4,160

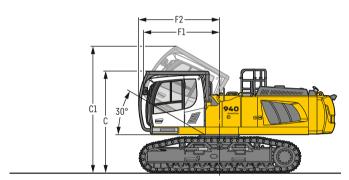
# Choice of cab elevations



#### Version

with cab tiltable 30° and integral protection grid

		VH-HD	LC-V	LC	NLC
C	mm	3,400	3,510	3,365	3,365
C1	mm	4,325	4,435	4,290	4,290
F1	mm	2,530	2,530	2,530	2,530
F2	mm	2,770	2,770	2,770	2,770



**Version**with cab tiltable 30° and integral protection grid on tilting device

	-	•	-	-				
					VH-HD	LC-V	LC	NLC
C				mm	3,400	3,510	3,355	3,355
C1				mm	4,245	4,355	4,210	4,210
F1				mm	2,570	2,570	2,570	2,570
F2				mm	2,730	2,730	2,730	2,730

## Serial equipment



#### Undercarriage

Lashing eyes Sprocket with dirt ejector Track rollers, lifetime-lubricated Tracks, sealed and greased

#### **Uppercarriage**

Anti-skid surfaces Automatic swing brake lock Centralised lubrication system (automatic) Engine hood with gas spring opening Handrails

Lockable fuel tank cap Lockable tool box Sound insulation



## Hydraulic system

Filter with integrated fine filters High pressure circuit with Tool Control and LDC

Hydraulic pressure measuring ports

Medium pressure circuit

Pressure accumulator for controlled lowering of equipment with engine turned off

Shut-off valve between hydraulic tank and pumps



## Engine

Air filter with automatic dust ejector

Automatic engine idling / speed increase, controlled via joystick sensors

Common-Rail injection system

Exhaust gas after-treatment system - DOC + SCR

Fixed geometry turbocharger Fuel pre-filter and water separator

Intercooler

Power Pack EU Stage V

Power Pack non-regulated countries (for select markets)



9" multifunction colour touchscreen + demolition display for LDC Air conditioning, automatic, tri-zone, controlled via display

Bottle holder

Cab door sliding windows

Cigarette lighter

Coat hook

DEF level on touchscreen

Emergency stop in cab

Engine oil level on touchscreen

Fuel level on touchscreen

Hydraulic oil level on touchscreen

Impact resistant one-piece windscreen

Impact resistant roof window

Integral front wiper and washer

Integral protection guard

Interior lighting

Left hand side view monitoring camera

LiDAT Plus (Liebherr data transfer system)\*

Mechanical hour meter, visible from ground level

Rear view monitoring camera

Rear window emergency exit

Right hand side view monitoring camera

Roll-down sun blinds for windscreen and roof window

Roof wiper and washer

Rubber floor mat, fixed on floor and removable

Storage spaces

Visco-elastic damping

Work mode selector



#### **Equipment**

Pipe fracture safety valves for boom cylinders Standard boom with quick change coupling

<sup>\*</sup> optionally extendable after one year

# All illustrations and data may differ from standard equipment. Subject to change without notice. All indicated loads are based in accordance with ISO 9248. RG-BK $\cdot$ LFR/SP-12258606-web-11.25\_enGB

## **Equipment standard / option**

#### Undercarriage

	Chain guide 1 piece	•
	Chain guide 4 pieces	+
	Chain guide full length	+
	Chain scrapers	+
	Special painting	+
	Tracks, sealed and greased	•
	Undercarriage LC	+
	Undercarriage LC-V	+
	Undercarriage NLC	+
	Undercarriage VH-HD	+

### **Uppercarriage**

Air compressor	+
Boxing ring	+
Catwalks tiltable left and right	+
Electric socket on uppercarriage (24V)	+
Fogging system	+
Headlight on uppercarriage, front right, LED, 1 piece, protection included	•1)
Headlight on uppercarriage, front right, LED+, 1 piece, protection included	+1)
Headlight on uppercarriage, lateral left, LED+, 1 piece	+1)
Headlights on uppercarriage, rear, LED+, 2 pieces	+1)
Lighting for tank area	+1)
Lighting for uppercarriage access	+1)
Radiator fine mesh protection grid	+
Reversible fan drive	+
Rock protection (swing gear and lubrication pipes)	+
Special painting	+
Tank refilling pump fuel	+
Tool set including storage case	•
Transport device for the counterweight	+
Uppercarriage bottom and side protection	+

## Hydraulic system

Bypass filter for hydraulic oil	+
Filter for hydraulic hammer return flow	+
High flow	+
Liebherr hydraulic oil	•
Liebherr hydraulic oil, adapted for extreme climate conditions	+
Liebherr hydraulic oil, biodegradable	+
Pre-heating system for hydraulic oil (240 V)	+

## Engine

•		
Automatic engine shutdown after idling	+	
Pre-heating system for fuel, coolant and engine oil (240 V)	+	

## 

2" seat belt with retractor	•
3" seat belt with retractor, orange colour	+
4-points seat belt	+
Acoustic travel alarm deactivatable	+
Additional air filtration	+
Air system for roof window cleaning	+
Auxilary heater programmable	+
Coming/Leaving Home with lighting for cabin access	+
Cool box (12 V)	+
Dark tinted windows	+
Electrically adjustable and heated outside rear-view mirrors	+
Electronic immobiliser	+
Fire extinguisher	+
Footrest	+
Headlights on cab, front, LED, 2 pieces	•l)
Headlights on cab, front, LED+, 2 pieces	+1)
Luminosity control (LED+ headlights)	+1)
Operator seat Comfort	•
Operator seat Premium	+
Radio Comfort	+
Radio pre-installation	•
Rotating beacon on cabin, LED, 1 piece	+
Sun visor	+

#### **Equipment**

$\circ$	-qaipinont	
Aut	omatic hydraulic coupling system	+
Boo	om cylinders rod protection	+
Bud	cket cylinder rod protection for backhoe equipment	+
Car	nera for equipment	+
Cer	ntralised lubrication extended for connecting link for backhoe equipment	+
Fog	ging system for backhoe equipment	+
Fog	ging system for demolition equipment	+
Hea	adlight on boom, on each side, LED, 1 piece, protection included	<b>●</b> 1)
Hea	adlight on boom, on each side, LED+, 1 piece, protection included	+1)
Hea	adlights on equipment, LED, 4 pieces, protections included	•
Hea	adlights on equipment, LED+, 4 pieces, protections included	+
	h pressure circuit for backhoe equipment	+
Me	dium pressure circuit for backhoe equipment	+
Ove	erload warning system	+
Pip	e fracture safety valve for stick cylinder for backhoe equipment	+
Qui	ck coupler for standard boom	+
	ck coupler SWA 66 hydraulic	+
Qui	ck coupler SWA 66 mechanical	+
	idlink for quick coupler SWA 66 hydraulic	+
Sta	ndard boom with multicouplers for demolition boom and backhoe equipment	+
	sk bottom protection	+
	rage rack with catwalks	+
Too	l Management	+

#### • = Standard, + = Option

 $^{1\! 1}$  Equipment not individually available, but only as predefined packages Non-exhaustive list, please contact us for further information.

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

#### **Liebherr-France SAS**