Equipment Information Demolition Excavator



Litronie

Engine

250 kW/340 HP Stage V Stage IV Non-regulated only for select markets

Operating Weight 77,300 – 97,700 kg

Working Height 33 m H/2: 29 m

12





Technical Data

Rating per ISO 9249	250 kW (340 HP) at 1,800 RPM
Torque	2,280 Nm at 1,000 RPM
Model	Liebherr D936 A7-25 (Stage V)
	or
	Liebherr D936 A7-24 (Stage IV)
	or
	Liebherr D936 A7-20 (non-regulated only for
	select markets)
Туре	6 cylinder in-line
Bore	130 mm
Stroke	150 mm
Displacement	10.5
Engine operation	4-stroke diesel
	Common-Rail, monoturbo
Exhaust gas treatment	DOC + DPF + SCR (Stage V)
	or
	SCR (Stage IV)
	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, primar
	and safety elements
Fuel tank	770
Urea tank	96
Electrical system	
Voltage	24 V
Batteries	2 x 180 Ah/12 V
Starter	24 V/7.8 kW
Alternator	Three-phase current 28 V/140 A
Engine idling	Sensor controlled
Motor management	Connection to the integrated excavator syster controlling via CAN-BUS to the economical

Hydraulic System

Hydraulic pumps	
For equipment	Liebherr, variable displacement, swashplate
and travel drive	double pump
Max. flow	2 x 380 l/min.
Max. pressure	350 bar
For swing drive	Reversible, variable displacement, swashplate
-	pump, closed-loop circuit
Max. flow	201 l/min.
Max. pressure	375 bar
Pump regulation	Electro-hydraulic with electronic engine speed
	sensing regulation, pressure compensation,
	flow compensation
Hydraulic tank	394
Hydraulic system	1,350 I with demolition equipment
Hydraulic oil filter	2 full flow filters in return line with integrated fine
	filter area (5 µm)
Cooling system	Compact cooler for water cooler, after-cooler,
	fuel cooler and transmission pump oil, sand-
	wiched with cooler for oil and condenser of
	air-conditioning with hydrostatically controlled
	fan drives
MODE selection	Adjustment of engine and hydraulic performance
	via a mode pre-selector to match application,
	e.g. for especially economical and environmen-
	tally 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	380 l/min.
Pressure	350 bar
Attachment rotation	
system	
Flow	30 l/min.
Pressure	180 bar

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



•	
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 – 5.8 RPM stepless
Swing torque	160 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)

Operator's Cab

Cab	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 insulat- ing, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, cigarette lighter and 12 V plug, storage bins, lunchbox, cup holder, polycar- bonate windows on right side
Operator's seat	Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in com- bination, seat heating as standard
Control system	Arm consoles, swinging with the seat
Operation and displays	Large high-resolution colour display with intui- tive operation via touchscreen, video, additional colour display for front and side camera, versa- tile adjusting, control and monitoring facilities, e.g. climate control, implement and attachment parameters, specific demolition display
Air-conditioning	Standard automatic air-conditioning fully con- trolled on the display, 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 outside and standing on the ground. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures The air conditioning system contains fluorinated greenhouse gases
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Undercarriage

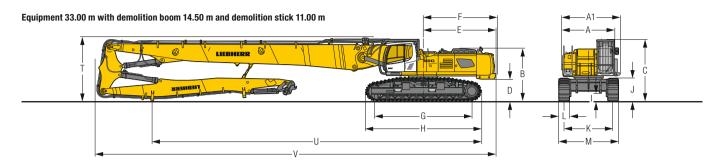
Versions	
VH-HD	Hydraulic variable gauge
HD-EW	Removable side frames
Drive	Liebherr swashplate motor with brake valves or both sides
Transmission	Liebherr compact planetary reduction gear
Maximum travel speed	Low range 2.0 km/h
	High range 3.2 km/h
Net drawbar pull on crawler	563 kN
Track components	D8K, maintenance-free
Track rollers/	11/2
Carrier rollers	
Tracks	Sealed and greased
Track pads	Double grouser
Holding brake	Wet multi-disc (spring applied, pressure released)

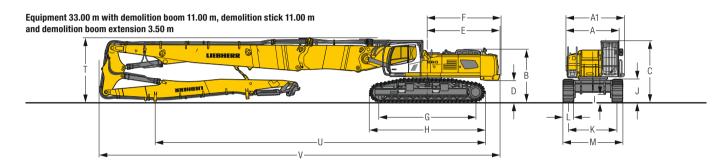
Equipment

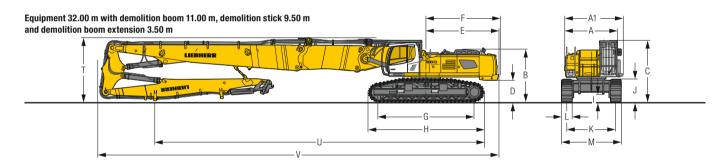
Туре	Combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance
Lubrication	Automatic central lubrication system (except link and tilt geometry)
Hydraulic connections	Pipes and hoses equipped with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

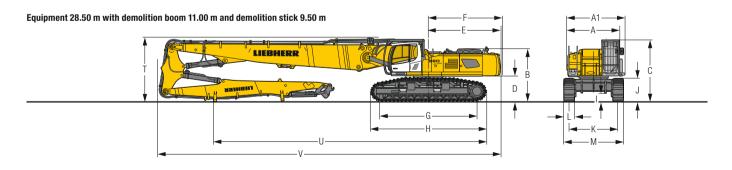
 * Valid for standard machine without operator's cab elevation and without height adjustable cab ** For the risk assessment according to 2002/44/EC see ISO/TR 25398:2006

Dimensions







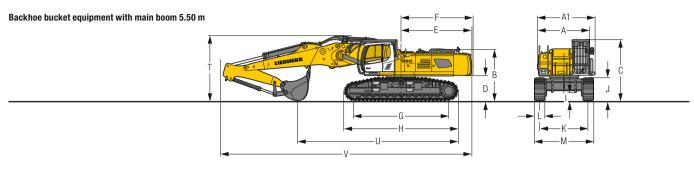


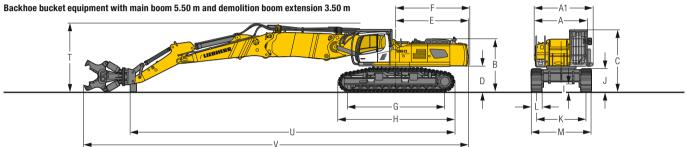
		VH-HD mm HD-EW		mm
Α	Uppercarriage width	2,985***		2,985***
A1	Uppercarriage width with catwalks	3,380		3,380
В	Uppercarriage height	3,055		3,115
C	Cab height	3,600		3,660
D	Counterweight ground clearance	1,275/1,445**	1,335	/1,505**
Е	Rear-end length	4,235/4,155**	4,235	/4,155**
F	Tail swing radius	4,280/4,200**	4,280	/4,200**
G	Wheelbase	5,610		5,605
Н	Undercarriage length	6,725		6,725
1	Undercarriage ground clearance	490		490
J	Track height	1,340		1,380
Κ	Track gauge	2,850/4,050		4,000
L	Track pad width	600 500	600	750
Μ	Width over tracks	3,500/4,820 4,630	4,630	4,750
Ν	Width over steps	3,885*/5,085* 5,050*	5,050*	5,050*
* 1	vidth with removable steps		.,	.,

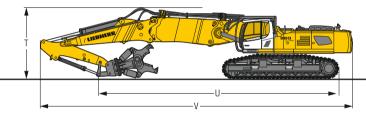
width with removable steps
 length with equipment 28.50 m
 without door stop device and spacer

		Demolition equipment 33.00 m with demolition boom 14.50 m mm		vith demolition boom 14.50 m with demolition boom 11.00 m		Demolition equipment 32.00 m		Demolition equipment 28.50 m	
		VH-HD	HD-EW	VH-HD	HD-EW	VH-HD	HD-EW	VH-HD	HD-EW
Т	Boom height	3,750	3,800	3,750	3,800	3,750	3,800	3,750	3,800
U	Length on ground	19,200	19,200	19,200	19,200	19,200	19,200	15,750	15,750
V	Overall length	23,400	23,400	23,400	23,400	23,400	23,400	19,850	19,850

Dimensions



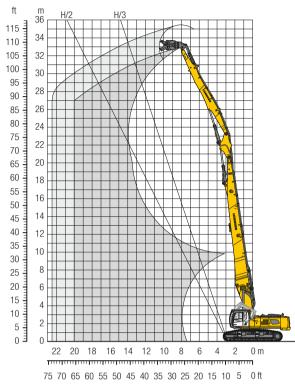




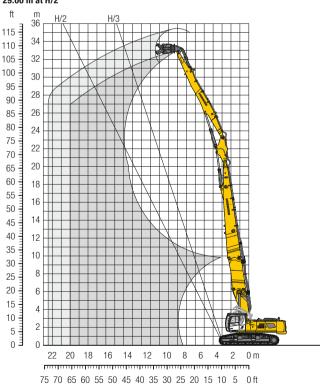
		Stick length	Backhoe bucket equipment		Backhoe bucket equipment with demolition boom extension	
		m	m		m NULUE	
			VH-HD	HD-EW	VH-HD	HD-EW
Т	Boom height	2.35	3,950	3,950	_	-
		2.90	4,050	4,050	3,950	3,950
T1		2.90	-	-	4,100	4,100
U	Length on ground	2.35	9,450	9,450	-	-
		2.90	9,000	9,000	18,750	18,750
U1		2.90	-	-	13,900	13,900
۷	Overall length	2.35	14,800	14,800	-	-
		2.90	14,800	14,800	22,250	22,250
V1		2.90	-	-	18,050	18,050

Demolition Equipment 33.00 m

29.00 m at H/2



with demolition boom extension 3.50 m 29.00 m at H/2



Reach Limitation

	14 m	16 m	18 m	20 m
Demolition boom 14.50 m + Intermediate boom				
+ Demolition stick 11.00 m (Kinematic 932)	Attac	hment	weign	r in t
VH-HD-Undercarriage lengthwise	3.50	3.50	3.50	3.50
transverse	3.50	3.50	3.00	2.50
HD-EW-Undercarriage lengthwise	3.50	3.50	3.50	3.50
transverse	3.50	3.50	3.00	2.25
	14 m	16	m	18 m
Demolition boom 14,50 m + Intermediate boom + Demolition stick 11.00 m (Kinematic 946)	Attac	hment	weight	t* in t
VH-HD-Undercarriage lengthwise	4.00	4.	00	4.00
transverse	4.00	3.	50	3.00
HD-EW-Undercarriage lengthwise	4.00	4.	00	4.00
transverse	4.00	3.	50	2.70

included quick coupler, adapter plate and attachment

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 11.8 t and 4 t removable, demolition boom 14.50 m, intermediate boom 2.60 m, demolition stick 11.00 m and attachment 3.5 t.

Undercarriage			HD	HD	EW
Pad width	mm	600	750	600	750
Weight	kg	93,500	94,700	88,600	89,800
Ground pressure	kg/cm ²	1.30	1.05	1.23	1.00

Reach Limitation

		14 m	16 m	18 m	20 m
Demolition boom extension 3.50 m + Demolition boom 11.00 m + Intermediate boom + Demolition stick 11.00 m (Kinematic 9	32)	Attac	hment	weight	t* in t
VH-HD-Undercarriage	lengthwise	3.50	3.50	3.50	3.50
	transverse	3.50	3.50	2.75	2.25
HD-EW-Undercarriage	lengthwise	3.50	3.50	3.50	3.00
	transverse	3.50	3.50	2.50	2.00
		14 m	16	m	18 m
Demolition boom extension 3.50 m + Demolition boom 11.00 m + Intermediate boom					
+ Demolition stick 11.00 m (Kinematic 9	46)	Attac	hment	weight	t* in t
VH-HD-Undercarriage	lengthwise	4.00	4.0	00	4.00
	transverse	4.00	3.	50	2.80
HD-EW-Undercarriage	lengthwise	4.00	4.0	00	4.00
	transverse	4 00	3 1	25	2 50

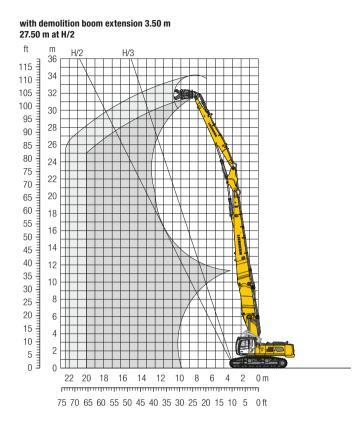
* included quick coupler, adapter plate and attachment

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 11.8 t and 4 t removable, demolition boom extension 3.50 m, demolition boom 11.00 m, intermediate boom 2.60 m, demolition stick 11.00 m and attachment 3.5 t.

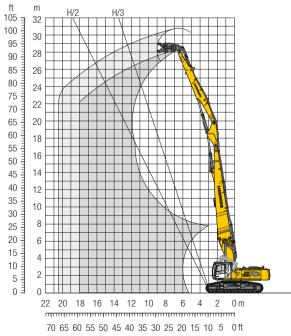
Undercarriage		VH·	HD	HD-EW			
Pad width	mm	600	750	600	750		
Weight	kg	96,500	97,700	91,600	92,800		
Ground pressure	kg/cm ²	1.34	1.08	1.27	1.03		

Demolition Equipment 32.00 m



Demolition Equipment 28.50 m

24.50 m at H/2



Reach Limitation

		14 m	16 m	18 m	20 m
Demolition boom extension 3.50 m + Demolition boom 11.00 m + Intermediate boom		Atto			* : 4
+ Demolition stick 9.50 m (Kinematic 93)	<u>(</u>)	Attac	chment	weight	r in t
VH-HD-Undercarriage	lengthwise	3.50	3.50	3.50	3.25
	transverse	3.50	3.50	3.00	2.25
HD-EW-Undercarriage	lengthwise	3.50	3.50	3.50	3.25
	transverse	3.50	3.25	2.50	2.00
* included auticly counter, educates and attack					

* included quick coupler, adapter plate and attachment

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 11.8 t and 4 t removable, demolition boom extension 3.50 m, demolition boom 11.00 m, intermediate boom 2.60 m, demolition stick 9.50 m and attachment 3.5 t.

Undercarriage	VH	HD	HD-EW			
Pad width	mm	600	750	600	750	
Weight	kg	96,000	97,200	91,100	92,300	
Ground pressure	kg/cm ²	1.33	1.07	1.26	1.03	

Reach Limitation

		12 M	14 M	16 Ш	18 m				
Demolition boom 11.00 m									
+ Intermediate boom									
+ Demolition stick 9.50 m (Kinematic 932	2)	Attachment weight* in t							
VH-HD-Undercarriage	lengthwise	3.50	3.50	3.50	3.50				
	transverse	3.50	3.50	3.50	2.75				
HD-EW-Undercarriage	lengthwise	3.50	3.50	3.50	3.50				
	transverse	3.50	3.50	3.50	2.50				
* included quick coupler, edepter plate and attack	mont								

10 m 11 m 16 m 10 m

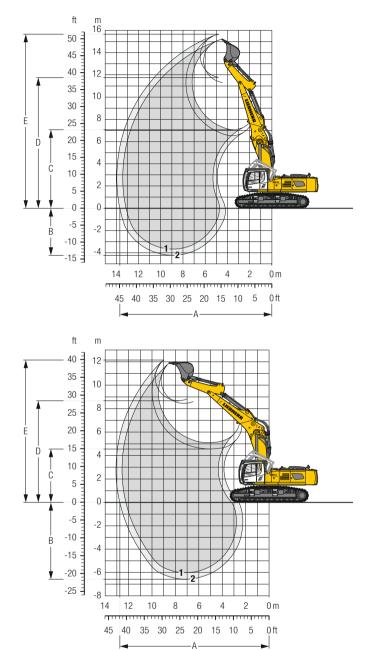
included quick coupler, adapter plate and attachment

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 11.8 t, demolition boom 11.00 m, intermediate boom 2.60 m, demolition stick 9.50 m and attachment 3.5 t.

Undercarriage	Undercarriage					
Pad width	mm	600	750	600	750	
Weight	kg	87,500	88,700	82,600	83,800	
Ground pressure	kg/cm ²	1.22	0.98	1.15	0.93	

Backhoe Bucket with Main Boom 5.50 m



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

Cutting width	Capacity ISO 7451	Weight	VH-HD-/HD-EW (with track p Stick let	ads 600 mm)
mm	m ³	kg	2.35	2.90
1,550	2.00	2,800	▲	A
1,750	2.35	3,050	▲	A
1,950	2.70	3,300	▲	
2,100	3.00	3,450		

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground

Max. material weight $\blacktriangle = \le 2.0 \text{ t/m}^3$, $\blacksquare = \le 1.8 \text{ t/m}^3$, $\blacksquare = \le 1.5 \text{ t/m}^3$

Digging Envelope

Main Boom pinned in upper (in lower) bearing

		1	2
Stick length	m	2.35	2.90
A Max. reach at ground level	m	13.10 (12.10)	13.65 (12.65)
B Max. digging depth	m	3.70 (6.20)	4.25 (6.75)
C Min. dumping height	m	7.05 (5.05)	6.50 (4.50)
D Max. dumping height	m	11.30 (8.10)	11.80 (8.30)
E Max. cutting height	m	15.20 (11.45)	15.65 (11.70)

Forces

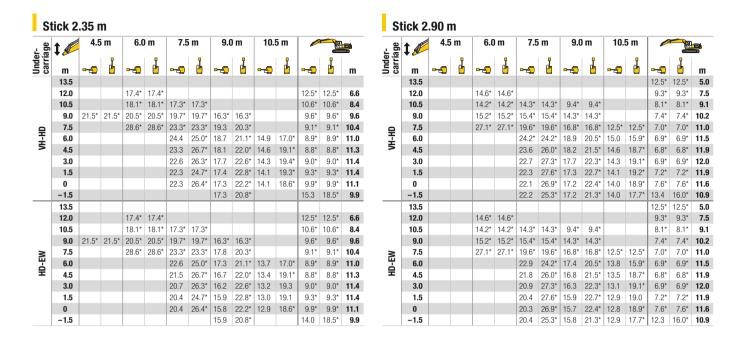
			2
Stick digging force (ISO 6015)	kN	248	217
Bucket digging force (ISO 6015)	kN	313	313
Stick digging force (SAE J1179)	kN	233	206
Bucket digging force (SAE J1179)	kN	269	269
Max, bucket digging force ISO			345 kN

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 13.5 t, main boom 5.50 m, HD stick 2.35 m and HD bucket 2.35 m 3 (3,050 kg).

Undercarriage	VH	-HD	HD-EW			
Pad width	mm	600	750	600	750	
Weight	kg	82,200	83,400	77,300	78,500	
Ground pressure	kg/cm ²	1.14	0.93	1.07	0.87	

Lift Capacities with Main Boom 5.50 m (pinned in upper bearing), Counterweight 13.5 t and Track Pads 600 mm



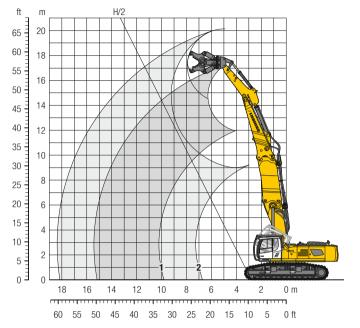
with Main Boom 5.50 m (pinned in lower bearing), Counterweight 13.5 t and Track Pads 600 mm

ge	† 🧖	4.5	m	6.0	m	7.5	5 m	9.0) m	10.	5 m			_	. e	1	4.5	5 m	6.0) m	7.5	5 m	9.0) m	10.9	5 m		<u></u>	٩.
carriage	* Ø		հ	57	p.		սե		սե		դ			m	Under- carriage	♦ Ø	-5	ս		Å	5	սե	57	ĥ		վ		Å	
-	10.5															10.5										-	7.6*	7.6*	
	9.0					16.7*	16.7*					9.1*	9.1*	8.5		9.0							8.6*	8.6*			7.0*	7.0*	Г
	7.5					17.9*	17.9*	14.8*	14.8*			8.7*	8.7*	9.5		7.5					16.7*	16.7*	14.0*	14.0*			6.7*	6.7*	1
	6.0			24.8*	24.8*	20.0*	20.0*	17.8*	17.8*			8.7*	8.7*	10.1		6.0			22.8*	22.8*	18.8*	18.8*	16.8*	16.8*	8.4*	8.4*	6.7*	6.7*	1
,	4.5					22.5*	22.5*	19.1	19.2*			8.8*	8.8*	10.5	_	4.5			27.9*	27.9*	21.4*	21.4*	18.3*	18.3*	12.8*	12.8*	6.8*	6.8*	
	3.0					23.9	25.0*	18.5	20.7*	11.6*	11.6*	9.2*	9.2*	10.6	OH-HV	3.0			16.1*	16.1*	24.0*	24.0*	18.6	19.9*	14.9	15.6*	7.1*	7.1*	Ŀ
-	1.5					23.3	26.8*	18.1	22.0*	10.2*	10.2*	9.9*	9.9*	10.5	5	1.5			16.0*	16.0*	23.4	26.1*	18.1	21.4*	14.6	16.7*	7.6*	7.6*	1
	0			19.7*	19.7*	23.0	27.9*	17.9	22.9*			10.9*	10.9*	10.2		0			21.7*	21.7*	23.0	27.4*	17.8	22.5*	13.5*	13.5*	8.3*	8.3*	Ŀ
	-1.5			32.3	33.6*	23.0	28.2*	17.8	23.2*			12.7*	12.7*	9.7		-1.5	14.9*	14.9*	31.1*	31.1*	22.9	28.0*	17.7	23.0*			9.5*	9.5*	
	-3.0			32.6	34.1*	23.2	27.4*					15.8*	15.8*	8.8		-3.0	25.3*	25.3*	32.3	34.8*	23.0	27.7*	17.8	22.7*			11.5*	11.5*	
	-4.5															-4.5					23.4	25.9*					21.6	24.2*	
	10.5															10.5											7.6*	7.6*	Γ
	9.0					16.7*	16.7*					9.1*	9.1*	8.5		9.0							8.6*	8.6*			7.0*	7.0*	
	7.5					17.9*	17.9*	14.8*	14.8*			8.7*	8.7*	9.5		7.5					16.7*	16.7*	14.0*	14.0*			6.7*	6.7*	
	6.0			24.8*	24.8*	20.0*	20.0*	17.8*	17.8*			8.7*	8.7*	10.1		6.0			22.8*	22.8*	18.8*	18.8*	16.8*	16.8*	8.4*	8.4*	6.7*	6.7*	
	4.5					22.5*	22.5*	17.7	19.2*			8.8*	8.8*	10.5	N	4.5			27.9*	27.9*	21.4*	21.4*	17.8	18.3*	12.8*	12.8*	6.8*	6.8*	
	3.0					22.1	25.0*	17.1	20.7*	11.6*		9.2*	9.2*	10.6	HD-EW	3.0			16.1*	16.1*	22.3	24.0*	17.2	19.9*		15.6*	7.1*	7.1*	
	1.5					21.5	26.8*	16.7	22.0*	10.2*	10.2*	9.9*	9.9*	10.5	т	1.5			16.0*	16.0*	21.6	26.1*	16.7	21.4*	13.5	16.7*	7.6*	7.6*	
	0				19.7*	21.2	27.9*	16.4	22.9*			10.9*	10.9*	10.2		0			21.7*	21.7*	21.2	27.4*	16.4	22.5*	13.3	13.5*	8.3*	8.3*	1
	-1.5			29.7	33.6*	21.1	28.2*	16.4	23.2*			12.7*	12.7*	9.7		-1.5	14.9*	14.9*	29.5	31.1*	21.0	28.0*	16.3	23.0*			9.5*	9.5*	
	-3.0			30.0	34.1*	21.3	27.4*					15.8*	15.8*	8.8		-3.0	25.3*	25.3*	29.7	34.8*	21.1	27.7*	16.4	22.7*				11.5*	
	-4.5															-4.5					21.5	25.9*					19.9	24.2*	

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 825 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.

Backhoe Bucket with Main Boom 5.50 m and Demolition Boom Extension 3.50 m



Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 13.5 t, demolition boom extension 3.50 m, main boom 5.50 m, HD bucket 2.90 m and attachment* 4.25 t.

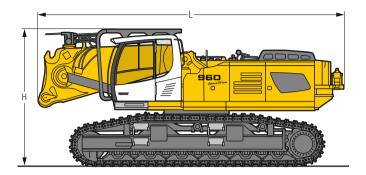
Undercarriage	VH	-HD	HD-EW			
Pad width	mm	600	750	600	750	
Weight	kg	88,000	89,200	83,000	84,200	
Ground pressure	kg/cm ²	1.22	0.99	1.15	0.94	

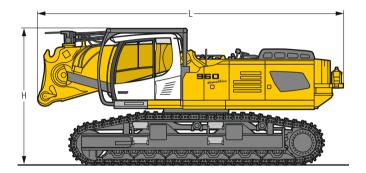
* included quick coupler, adapter plate and attachment

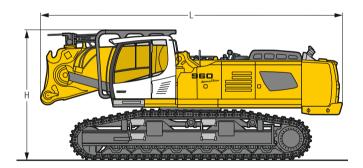
1 reach at stick end

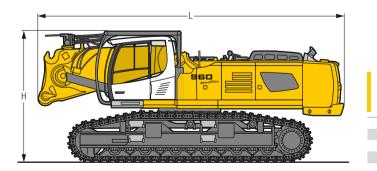
2 reach at attachment end

Dimensions and Weights









Basic Machine

without counterweight with cab tiltable 30° and integral protection grid

		VH-HD	HD-EW
L	mm	8,100	8,100
Н	mm	3,600	3,660
Weight	kg	59,100	54,100

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

	VH-HD	HD-EW
L mn	8,100	8,100
H mn	3,600	3,660
Weight kg	59,500	54,500
noight	00,000	01,000

Basic Machine

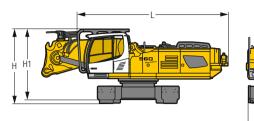
with counterweight 11.8 t and 4 t removable, cab tiltable 30° and integral protection grid

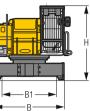
	VH-HD	HD-EW
L mm	8,450	8,450
H mm	3,600	3,660
Weight kg	75,100	70,100

Basic Machine

with counterweight 11.8 t and 4 t removable, cab tiltable 30° and integral protection grid on tilting device

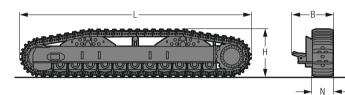
	VH-HD	HD-EW
L mm	8,450	8,450
H mm	3,600	3,660
Weight kg	75,500	70,500





Basic Machine

without side frames		
В	mm	3,200
B1	mm	3,035
L Length	mm	6,550
H Height	mm	2,990
H1 Height	mm	2,360
Weight	kg	30,100



Side Frame for HD-EW-Undercarriage L Length

L	Length	mm			6,725
H	Height	mm			1,380
Ν		mm	500	600	750
В		mm	1,200	1,200	1,260
	Weight	kg	11,200	11,700	12,300



Counterweight

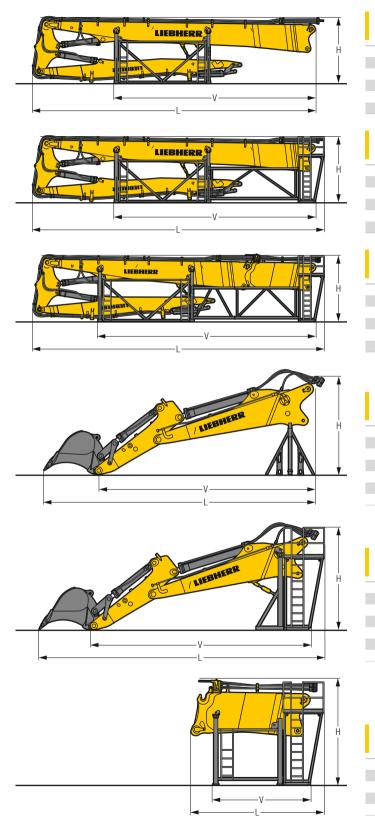
jjjjjj		
L Length	mm	1,035
H Height	mm	1,290
Width	mm	2,970
Weight	kg	11,800



Additional Counterweight

L	Length	mm	1,115
Н	Height	mm	350
	Width	mm	2,990
	Weight	kg	4,000

Dimensions and Weights



Demolition Equipment with storage rack

		29.50 m	33 m
L	Length mm	12,050	15,550
Н	Height mm	3,600	3,600
V	mm	5,300	5,300
	Width mm	2,450	2,450
	Weight without attachment kg	14,400	17,000

Demolition Equipment with storage rack with catwalks

			29.50 m	33 m
L	Length r	nm	12,500	16,000
Н	Height r	nm	3,600	3,600
۷	1	nm	8,450	11,050
	Width	nm	2,500	2,500
	Weight without attachment	kg	15,000	18,050

Demolition Equipment with Demolition Boom Extension with storage rack with catwalks

		29.50 m
L	Length mm	16,000
Н	Height mm	3,600
۷	mm	11,920
	Width mm	2,500
	Weight without attachment kg	19,950

Backhoe Equipment

5.5	50
	00
2.35	2.90
9,960	10,540
3,600	3,600
7,700	8,270
2,250	2,250
8,810	9,100
	9,960 3,600 7,700 2,250

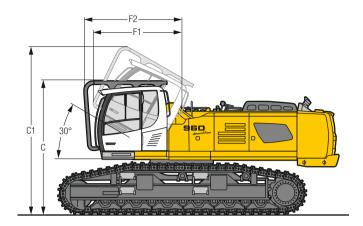
Backhoe Equipment

wit	h storage rack with catwalks			
	Main boom length	m	m 5.50	
	Stick length	m	2.35	2.90
L	Length	mm	9,480	10,060
Н	Height	mm	3,600	3,600
V		mm	7,700	8,270
	Width	mm	2,500	2,500
	Weight without bucket	kg	8,810	8,970

Demolition Boom Extension with storage rack with catwalks

L	Length	mm	4,630
Н	Height	mm	3,650
V		mm	3,380
	Width	mm	2,490
	Weight	kg	5,550
		3	.,

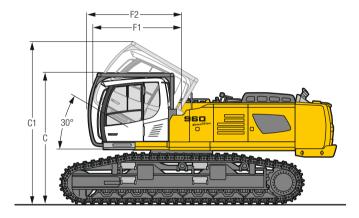
Choice of Cab Elevations





with cab tiltable 30° and integral protection grid

	VH	-HD	HD-EW
C	mm 3,	600	3,660
C1	mm 4,	520	4,580
F1	mm 2,	415	2,415
F2	mm 2,	650	2,650



Version

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

	VH-H	D HD-EW
C	mm 3,60	0 3,660
C1	mm 4,44	0 4,580
F1	mm 2,45	0 2,415
F2	mm 2,60	5 2,650

Serial Equipment

Undercarriage

Lashing eyes Sprocket double-toothed Track rollers, lifetime-lubricated

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
Removable counterweight
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



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 + DPF + SCR Fixed geometry turbocharger Fuel pre-filter and water separator Intercooler Power Pack EU Stage V Power Pack non-regulated countries (for select markets)



Derator's Cab

7" 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 Engine oil level on touchscreen Fuel level on touchscreen Hydraulic oil level on touchscreen Impact resistant one-piece windscreen Integral front wiper and washer Integral protection guard Interior lighting Left hand side view monitoring camera LiDAT Plus (Liebherr data transfer system)* Mechanical hour meters, 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		
Bottle holder Cab door sliding windows Cigarette lighter Coat hook DEF level on touchscreen Engine oil level on touchscreen Fuel level on touchscreen Hydraulic oil level on touchscreen Impact resistant one-piece windscreen Impact resistant one piece windscreen Integral front wiper and washer Integral protection guard Interior lighting Left hand side view monitoring camera LiDAT Plus (Liebherr data transfer system)* Mechanical hour meters, 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	7" multifunction colou	r touchscreen + demolition display for LDC
Cab door sliding windows Cigarette lighter Coat hook DEF level on touchscreen Engine oil level on touchscreen Hydraulic oil level on touchscreen Impact resistant one-piece windscreen Impact resistant roof window Integral protection guard Interior lighting Left hand side view monitoring camera LIDAT Plus (Liebherr data transfer system)* Mechanical hour meters, visible from ground level Rear view monitoring camera Rear window emergency exit Right hand side view monitoring camera Boll-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	Air conditioning, auton	natic, tri-zone, controlled via display
Cigarette lighter Coat hook DEF level on touchscreen 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 meters, 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	Bottle holder	
Coat hook DEF level on touchscreen 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 meters, 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	Cab door sliding windo	DWS
DEF level on touchscreen 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 meters, 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	Cigarette lighter	
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 meters, 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	Coat hook	
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 meters, 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	DEF level on touchscre	een
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 meters, 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	Engine oil level on touc	chscreen
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 meters, 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	Fuel level on touchscre	een
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 meters, 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	Hydraulic oil level on to	ouchscreen
Integral front wiper and washer Integral protection guard Interior lighting Left hand side view monitoring camera LiDAT Plus (Liebherr data transfer system)* Mechanical hour meters, 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	Impact resistant one-p	piece windscreen
Integral protection guard Interior lighting Left hand side view monitoring camera LiDAT Plus (Liebherr data transfer system)* Mechanical hour meters, 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	Impact resistant roof v	vindow
Interior lighting Left hand side view monitoring camera LiDAT Plus (Liebherr data transfer system)* Mechanical hour meters, 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	Integral front wiper an	d washer
Left hand side view monitoring camera LiDAT Plus (Liebherr data transfer system)* Mechanical hour meters, 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	Integral protection gua	ard
LiDAT Plus (Liebherr data transfer system)* Mechanical hour meters, 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	Interior lighting	
Mechanical hour meters, 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	Left hand side view me	onitoring camera
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	LiDAT Plus (Liebherr d	ata transfer system)*
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	Mechanical hour mete	rs, visible from ground level
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	Rear view monitoring of	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	Rear window emergen	cy exit
Roof wiper and washer Rubber floor mat, fixed on floor and removable Storage spaces Visco-elastic damping	Right hand side view n	nonitoring camera
Rubber floor mat, fixed on floor and removable Storage spaces Visco-elastic damping	Roll-down sun blinds f	or windscreen and roof window
Storage spaces Visco-elastic damping	Roof wiper and washe	r
Visco-elastic damping	Rubber floor mat, fixed	d on floor and removable
1 0	Storage spaces	
Work mode selector	Visco-elastic damping	
	Work mode selector	



Equipment

Pipe fracture safety valves for boom cylinders Standard boom with multicouplers for demolition boom and backhoe equipment

* optionally extendable after one year

Equipment Standard/Option

Undercarriage

Chain guide 1 piece	•
Chain guide 4 pieces	+
Chain guide full length	+
Chain scrapers	+
Special painting	+
Steps	•
Steps wide	+
Tracks, sealed and greased	•
Undercarriage HD-EW	+
Undercarriage VH-HD	+

🚛 Uppercarriage

Air compressor	+
Boxing ring	+
Catwalks tiltable left and right	+
Electric socket on uppercarriage (24 V)	+
Extended tool set including tool box	+
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 right, 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	+
Hydraulic for counterweight	+
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)	+

• = Standard, + = Option

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

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

Operator's Cab

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	+
Emergency stop in cab	+
Fire extinguisher	+
Footrest	+
Headlights on cab, front, LED, 2 pieces	●1)
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

Boom bottom protection	+
Bucket cylinder rod protection for backhoe equipment	+
Camera for equipment	+
Centralised lubrication extended for connecting link for backhoe equipment	+
Fogging system for backhoe equipment	+
Fogging system for demolition equipment	+
Headlight on boom, on each side, LED, 1 piece, protection included	●1)
Headlight on boom, on each side, LED+, 1 piece, protection included	+1)
Headlights on equipment, LED, 4 pieces, protections included	•
Headlights on equipment, LED+, 4 pieces, protections included	+
High pressure circuit for backhoe equipment	+
Boom cylinder rods protection	+
LIKUFIX for quick coupler SWA 66 hydraulic	+
Medium pressure circuit for backhoe equipment	+
Overload warning system	+
Pipe fracture safety valve for stick cylinder for backhoe equipment	+
Quick coupler for standard boom	+
Quick coupler SWA 66 hydraulic	+
Quick coupler SWA 66 mechanical	+
Standard boom with quick change coupling	+
Stick bottom protection	+
Storage rack with catwalks	+
Tool Management	+

Notes	

The Liebherr Group of Companies



Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's highvalue 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 48,000 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.

www.liebherr.com

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