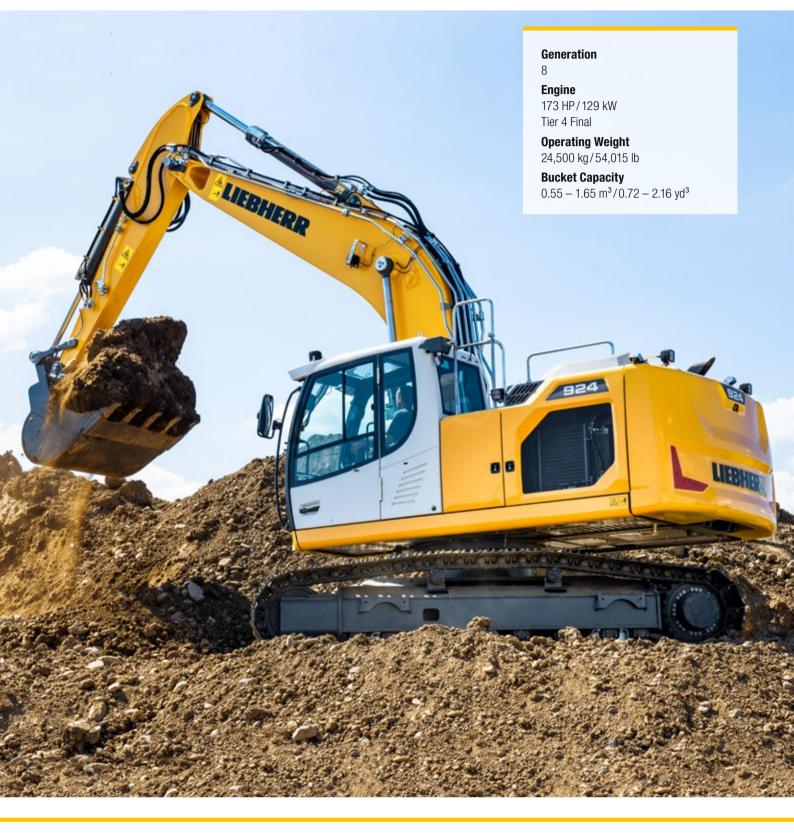
# Product Information: Crawler Excavator

R 924

Litronic®





# Experience the Progress R 924

### Safety

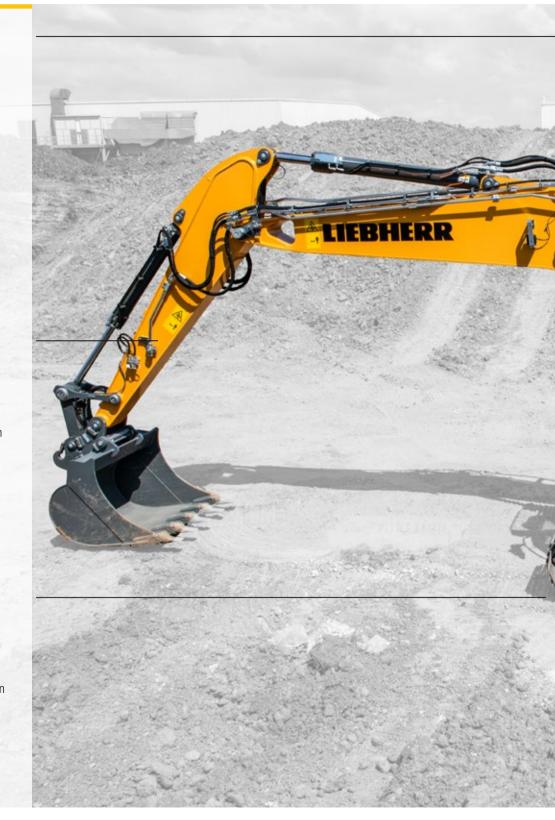
- Panoramic visibility with no obstructions and camera on the rear and the right side equipment for enhanced safety
- Liftable console for easy and safe access to cab
- ROPS-certified cab structure: rollover protection
- Emergency exit via the rear cab window
- Right window and windshield in laminated and tinted glass

#### Equipment

- Large choice of types and sizes of equipment
- Safety check valves for hoist and stick cylinders
- Guaranteed maintenance thanks to automatic centralised lubrication system (option)

#### Undercarriage

- Robust, reliable X-frame undercarriage, easy to secure thanks to its integrated eyelets
- Easy maintenance
- Maintenance-free travel gear and track rollers with lifetime lubrication
- Extra storage as an option





### Comfort

- Spacious, air-conditioned work space
- Airsprung seat with vertical and horizontal suspension
- Easy-to-use high resolution 7" colour touchscreen
- Completely retractable front cab window
- New LED lighting as standard

### Engine

- New engine that conforms with the US EPA Tier 4 Final exhaust emissions standard
- Automatic idle-stop

#### Maintenance

- Innovative servicing concept, with service points accessible from ground level
- New concept for lateral access to uppercarriage and large maintenance platform
- Engine oil, hydraulic oil, fuel and urea (diesel exhaust fluid) levels visible on the display

# **Technical Data**

Engine	
Rating	
per SAE J1349	173 HP (129 kW) at 1,800 rpm
per ISO 9249	175 HP (129 kW) at 1,800 rpm
Torque	682 Nm at 1,400 rpm / 503 lbf ft at 1,400 rpm
Model	D924 A7-04 – FPT motor designed for Liebherr
Туре	4 cylinder in-line
Bore	104 mm / <b>4.1 in</b>
Stroke	132 mm / <b>5.2 in</b>
Displacement	4.51/ 275 in <sup>3</sup>
Engine operation	4-stroke diesel
	Common-Rail
	Turbo-charged and after-cooler
Exhaust gas treatment	Tier 4 Final
	DOC + SCR
	Passive regeneration by thermo management
Cooling system	Water-cooled and oil cooler, after-cooled and fuel
	cooled
Air cleaner	Dry-type air cleaner with pre-cleaner
Fuel tank	4001/ 106 gal
Urea tank	46 I / 12 gal
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah/12 V
Alternator	Three-phase current 28 V/140 A
Engine idling	Sensor controlled



Hydraulic system	Positive Control hydraulic system. Demand-based, double independent pump flows Features high system dynamics and sensitivity provided by integrated system controlling
Hydraulic pump	
For equipment and travel drive	Liebherr, variable displacement, swashplate double pump
Max. flow	2 x 210 l/min. / <b>2 x 55 gpm</b>
Max. pressure	380 bar / <b>5,511 psi</b>
Pump management	Electronic management synchronous to the control block. Open circuit for the rotation
Hydraulic tank	1551/ <b>41 gal</b>
Hydraulic system	max. 3201/ max. 85 gal
Hydraulic oil filter	1 main return filter with integrated partial micro filtration (10 μm / <b>1,250 mesh</b> )
Cooling system	Compact cooler, consisting of a water cooler, sand- wiched with hydraulic oil cooler and fuel and after-coole cores and hydrostatically driven fan
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for espe- cially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
Engine speed and performance setting	Stepless adjustment of engine output and hydraulic power via engine speed

# Hydraulic Controls

Power distribution	Via control valves, simultaneous and independent actuation of undercarriage, swing drive and equipment
Electric servo circuit	Electro-hydraulic control
Equipment and swing	Proportional via joystick levers
Travel	<ul> <li>Proportional control via foot pedals or removable levers</li> </ul>
	<ul> <li>Automatic or manual speed adjustment</li> </ul>
Additional functions	Proportional regulation via foot pedals or mini-joystick

## Swing Drive

Drive	Liebherr swashplate motor with integrated brake valve
	and torque control
Transmission	Liebherr compact planetary reduction gears
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0 – 12.9 rpm stepless
Swing torque	74.3 kNm / <b>54,801 lbf ft</b>
Holding brake	Wet multi-disc (spring applied, pressure released)



Cab	ROPS safety cab structure (roll-over protection system according to ISO 12117-2:2008) with windscreen, totally or partially retractable (only upper part), under cab rodf, LED work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, laminated right hand side and roof windows, all windows tinted, separate exten- sible window shades for the sunroof window and wind- screen, cigarette lighter and 24 V plug, 12 V plug, cup holder, mobile phone storage net
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 combination (adjustable in width, height and inclination), seat heating as standard
Arm consoles	Oscillating consoles with seat, tiltable console left
Operation and displays	Large high-resolution operating unit, intuitive, color display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air con- ditioning control, fuel consumption, machine and attachment parameters
Air-conditioning	Automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Recirculated 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
Noise emission	a a construction de la const
ISO 6396	$L_{pA}$ (inside cab) = 70 dB(A)
2000/14/EC	L <sub>WA</sub> (surround noise) = 103 dB(A)

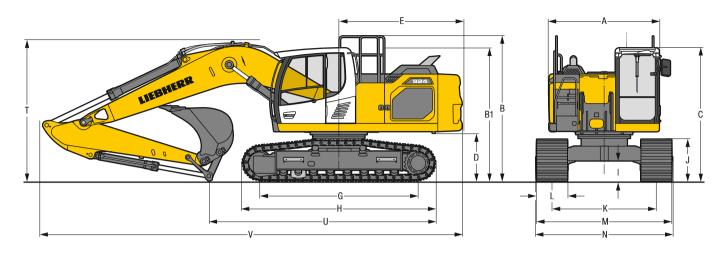
# Undercarriage

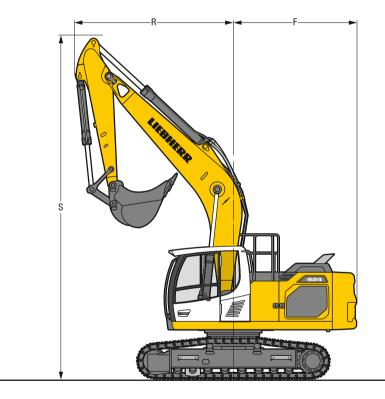
LC	Gauge 2,390 mm / 7'10"
Drive	Liebherr swashplate motor with brake valves on both
	sides
Transmission	Liebherr planetary reduction gear
Maximum travel speed	Low range 3.1 km/h / 1.9 mph
	High range 5.9 km/h / <b>3.7 mph</b>
Drawbar pull on crawler	236 kN / 53,060 lbf
Track components	B60, D6C, maintenance-free
Track rollers/Carrier rollers	8/2
Tracks	Sealed and greased
Track pads	Triple grouser
Holding brake	Wet multi-disc (spring applied, pressure released)
Brake valves	Integrated into travel motor
Lashing eyes	Integrated

# 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	Liebherr central lubrication system
Hydraulic connections	Pipes and hoses equipped with SAE split-flange
	connections
Buckets	Standard equipped with Liebherr tooth system

### Dimensions





		LC				mm/ft in
Α	Uppercarriage width					2,545**/ 8' 4"*
В	Uppercarriage height					3,335 / <b>10'11"</b>
B1	Uppercarriage height (handrails folded)					3,060 /10'
C	Cab height					3,060 / <b>10'</b>
D	Counterweight ground clearance					1,100 / <b>3' 7"</b>
E	Rear-end length					2,830 / <b>9' 3"</b>
F	Tail swing radius					2,880 / 9' 5"
G	Wheelbase					3,640 / <b>11'11"</b>
Н	Undercarriage length					4,435 / <b>14' 7"</b>
I –	Undercarriage ground clearance					485 / <b>1' 7"</b>
J	Track height					960 / <b>3' 2"</b>
Κ	Track gauge					2,390 / <b>7'10"</b>
L	Track pad width		600/ <b>24"</b>	700 / 28"	800 / 31"	900 / <b>35"</b>
М	Width over tracks		2,990/ <b>9'10"</b>	3,090 /10' 2"	3,190 / <b>10' 6"</b>	3,290 / <b>10'10"</b>
Ν	Width over steps		2,925/9'7"	3,125*/10' 3"*	3,125*/10' 3"*	3,225* /10' 7"*

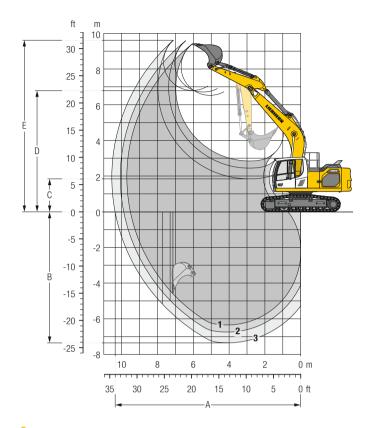
\*\* without door stop device and spacer

		Stick length m/ft in	Mono boom 5.70 m/18'8" mm/ft in
R	Front swing radius	2.50/ 8'2"	3,650/ <b>12'</b>
		2.90/ <b>9'6"</b>	3,650/ <b>12'</b>
		3.50/ <b>11'6"</b>	3,600/ <b>11'10</b> "
S	Height with boom up		7,900/ <b>25'11"</b>
Т	Boom height	2.50/ 8'2"	3,250/10' 8"
		2.90/ <b>9'6"</b>	3,250/ <b>10' 8"</b>
		3.50/ <b>11'6"</b>	3,150/ <b>10' 4"</b>
U	Length on ground	2.50/ 8'2"	6,200/ <b>20' 4"</b>
		2.90/ <b>9'6''</b>	5,900/ <b>19' 4"</b>
		3.50/ <b>11'6"</b>	4,450/ <b>14' 7"</b>
V	Overall length		9,700/ <b>31'10"</b>

# Transport Dimensions removable elements dismantled

	Stick	Mono boom 5.70 m/18'8"					
	m/ft in		mm/ft in				
Pad width		600/ 24"	700/ <b>28"</b>	800/ <b>31"</b>	900/ <b>35"</b>		
Transport width		2,990/9'10"	3,125/10' 3"	3,190/10' 6"	3,290/10'10"		
Transport length			9,700/ <b>31'10"</b>				
Transport height	2.50/ 8'2"		3,250/ <b>10' 8"</b>				
	2.90/ 9'6"		3,250/	10' 8"			
	3.50/11'6"		3,150/	10' 4"			

### Backhoe Bucket with Mono Boom 5.70 m/18'8" and Counterweight 5.0 t/11,020 lb



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

### **Digging Envelope**

LC-Undercarriage

without quick coupler		1	2	3
Stick length	m/ft in	2.50/ 8' 2"	2.90/ <b>9'6"</b>	3.50/11'6"
A Max. reach at ground level	m/ft in	9.51/ <b>31' 2"</b>	9.89/ <b>32'5"</b>	10.37/ <b>34'</b>
B Max. digging depth	m/ft in	6.35/ <b>20'10"</b>	6.75/ <b>22'2"</b>	7.35/ <b>24'1"</b>
C Min. dumping height	m/ft in	2.85/ 9' 4"	2.45/ <b>8'</b>	1.85/ 6'1"
D Max. dumping height	m/ft in	6.53/ <b>21' 5"</b>	6.71/ <b>22'</b>	6.80/ <b>22'4"</b>
E Max. cutting height	m/ft in	9.40/ <b>30'10"</b>	9.59/ <b>31'6"</b>	9.61/ <b>31'6"</b>

### Forces

without quick coupler		1	2	3
Max. digging force (ISO 6015)	kN/lbf	135/ <b>30,350</b>	122/ <b>27,430</b>	106/ <b>23,830</b>
Max. breakout force (ISO 6015)	kN/lbf	173/ <b>38,890</b>	173/ <b>38,890</b>	173/ <b>38,890</b>
Max. digging force (SAE J1179)	kN/lbf	129/ <b>29,000</b>	117/ <b>26,300</b>	103/ <b>23,160</b>
Max. breakout force (SAE J1179)	kN/lbf	151/ <b>33,950</b>	151/ <b>33,950</b>	151/ <b>33,950</b>

### **Operating Weight and Ground Pressure**

The operating weight includes the basic machine with counterweight 5.0 t/11,020 lb, mono boom 5.70 m/  $18^{\circ}8^{\circ}$ , stick 2.90 m/9'6" and bucket 1.25 m<sup>3</sup>/1.63 yd<sup>3</sup> (890 kg/1,960 lb).

Undercarriage			L	C	
Pad width	mm/in	600/ <b>24"</b>	700/ <b>28"</b>	800/ <b>31"</b>	900/ <b>35"</b>
Weight	kg/ <b>lb</b>	23,600/ <b>52,030</b>	23,850/ <b>52,580</b>	24,250/ <b>53,460</b>	24,550/ <b>54,120</b>
Ground pressure	kg/cm <sup>2</sup> /psi	0.50/ <b>7.1</b>	0.44/6.3	0.39/5.5	0.35/5.0

	vidth							rcarriage Is 800 mm/ <b>31")</b>					
	Cutting width	Capacity ISO 7451	Weight <sup>3)</sup>	Weight <sup>4)</sup>		Stick length (m/ft in)							
	-					without quick coupler			with quick coupler				
	mm	m <sup>3</sup>	kg	kg	2.50	2.90	3.50	2.50	2.90	3.50			
	in	yd <sup>3</sup>	lb	lb	8'2"	9'6"	11'6"	8'2"	9'6"	11'6"			
	1,050	0.95	700	710									
	41"	1.24	1,540	1,570	_	_	_	_	_	_			
	1,250	1.15	810	830									
	49"	1.50	1,790	1,830	_	_	_	_	_	_			
~	1,250	1.25	890	910		▲ (1)							
STD <sup>1)</sup>	49"	1.63	1,960	2,010									
s	1,400 <b>55"</b>	1.35	850	880									
	1,400	1.77 1.50	<b>1,870</b> 950	<b>1,940</b> 980									
	1,400 55"	1.50 1.96	950 <b>2,090</b>	980 2,160						Δ			
	1,500	1.65	1,020	1,030									
	59"	2.16	2,250	2,270			$\Delta$			Δ			
	1,050	0.95	790	800									
	41"	1.24	1,740	1,760									
	1,250	1.15	910	940						_			
	49"	1.50	2,010	2,070									
	1,250	1.25	1,010	1,030					_				
HD <sup>2)</sup>	49"	1.63	2,230	2,270									
H	1,400	1.35	970	990									
	55"	1.77	2,140	2,180	<b>A</b>		•		<b>A</b>				
	1,400	1.50	1,090	1,120						Δ			
	55"	1.96	2,400	2,470				-		$\Delta$			
	1,500	1.65	1,160	1,160			Δ		Δ	Δ			
	59"	2.16	2,560	2,560	-								

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

1) Standard bucket with teeth Z 40 2) HD bucket with teeth Z 40 3) Bucket for direct mounting 4) Bucket for mounting to quick coupler

Other buckets available upon request

Max. material weight ▲ = ≤ 2.0 t/m<sup>3</sup>/3,400 lb/yd<sup>3</sup>, ■ = ≤ 1.8 t/m<sup>3</sup>/3,000 lb/yd<sup>3</sup>, ▲ = ≤ 1.65 t/m<sup>3</sup>/2,800 lb/yd<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup>/2,500 lb/yd<sup>3</sup>, △ = ≤ 1.2 t/m<sup>3</sup>/2,000 lb/yd<sup>3</sup>

### Lift Capacities with Mono Boom 5.70 m/18'8", Counterweight 5.0 t/11,020 lb and Track Pads 800 mm/31"

### Stick 2.50 m/8'2"

		1	3.0	) m	4.5	i m	6.0	) m	7.5	5 m			
- age	18	P	10	ft	15	ft	20	ft	25	ft	-	2	
Under- carriage				Ľ		Ľ		Ľ		Ľ		Ľ	m ft in
	7.5 m	t									6.0*	6.0*	5.8
	25 ft	lb									13,3*	13,3*	18'7"
	6.0 m	t					6.0	6.1*			4.7	5.6*	7.0
	20 ft	lb					13,0	13,3*			10,6	12,3*	22'7"
	4.5 m	t			7.8*	7.8*	5.8	6.7*	4.2	6.1	4.0	5.5*	7.7
	15 ft	lb			16,9*	16,9*	12,6	14,5*	8,9	12,5*	8,9	12,1*	25'1"
	3.0 m	t			8.4	10.0*	5.6	7.6*	4.0	6.0	3.7	5.4	8.0
	10 ft	lb			18,1	21,5*	12,0	16,5*	8,7	12,9	8,1	12,0	26'4"
9	1.5 m	t			7.9	11.7*	5.3	8.2	3.9	5.9	3.5	5.3	8.1
2	5 ft	lb			17,0	25,3*	11,5	17,6	8,5	12,7	7,8	11,6	26'6"
	0 m	t			7.7	12.4*	5.2	8.0	3.8	5.8	3.6	5.4	7.9
	0 ft	lb			16,5	26,9	11,1	17,2	8,3	12,5	8,0	12,0	25'10"
	-1.5 m	t	12.0*	12.0*	7.6	12.2*	5.1	7.9			4.0	6.0	7.3
	-5 ft	lb	27,3*	27,3*	16,4	26,5*	11,1	17,1			8,8	13,2	24'
	-3.0 m	t	15.0	15.4*	7.7	11.1*	5.2	8.0			4.8	7.4	6.4
	-10 ft	lb	32,2	33,4*	16,7	24,0*	11,3	17,3			10,7	16,4	20'10"
	-4.5 m	t			8.1	8.2*					7.4	7.5*	4.8
	–15 ft	lb			17,2*	17,2*					16,5*	16,5*	15'5"

### Stick 3.50 m/11'6"

	<b>.</b>	an l	3.0	) m	4.5	i m	6.0	) m	7.5	ōm	1	<u>y</u>	
age	18		10	ft	15	ft	20	ft	25	ft			
Under- carriage				Ŀ		ď		ď	5	ď		ė	m ft in
	7.5 m	t									3.9*	3.9*	6.9
	25 ft	lb									8,6*	8,6*	22'4"
	6.0 m	t							4.3	4.8*	3.7*	3.7*	7.9
	20 ft	lb							9,2	9,7*	8,1*	8,1*	25'10"
	4.5 m	t					5.5*	5.5*	4.2	5.3*	3.4	3.7*	8.5
	15 ft	lb					12,1*	12,1*	9,0	11,5*	7,5	8,1*	27'11"
	3.0 m	t	12.8*	12.8*	8.2*	8.2*	5.6	6.6*	4.0	5.8*	3.1	3.8*	8.9
	10 ft	lb	27,2*	27,2*	17,8*	17,8*	12,1	14,3*	8,7	12,6*	6,8	8,4*	29'1"
2	1.5 m	t	6.7*	6.7*	8.0	10.4*	5.3	7.7*	3.9	5.8	3.0	4.1*	8.9
-	5 ft	lb	15,9*	15,9*	17,2	22,5*	11,5	16,7*	8,3	12,6	6,6	9,0*	29'4"
	0 m	t	7.8*	7.8*	7.6	11.8*	5.1	7.9	3.7	5.7	3.0	4.6*	8.7
	0 ft	lb	17,7*	17,7*	16,3	25,5*	10,9	17,0	8,1	12,3	6,7	10,1*	28'7"
	-1.5 m	t	11.2*	11.2*	7.4	12.2*	5.0	7.8	3.7	5.6	3.2	4.9	8.2
	-5 ft	lb	25,3*	25,3*	16,0	26,4	10,7	16,7	7,9	12,1	7,2	10,9	27'
	-3.0 m	t	14.4	16.2*	7.4	11.8*	4.9	7.8			3.8	5.7	7.4
	-10 ft	lb	30,9	36,7*	16,0	25,5*	10,7	16,7			8,3	12,7	24'2"
	-4.5 m	t	14.7*	14.7*	7.6	10.3*	5.1	7.4*			5.0	7.2*	6.1
	-15 ft	lb	31,5*	31,5*	16,4	22,0*					11,2	15,8*	19'10"

🕻 🌽 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)/lb x 1,000 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 800 mm/31<sup>n</sup> 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 325 kg/720 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

#### Stick 2.90 m/9'6" 3.0 m 4.5 m 6.0 m 7.5 m Under-carriage Î 10 ft 15 ft 20 ft 25 ft m ŀ Ľ ď Ь ŀ --5 ft in 7.5 m 5.6\* 5.6\* 5.0\* 5.0\* 6.3 25 ft lb 11,8\* 11,8\* 11,1\* 11,1\* 20'4" 6.0 m 5.6\* 5.6' 4.3 4.7 7.4 10,4\* 20 ft lb 12,2\* 12,2\* 9,7 24' Ť 45 m 7 1\* 7.1 5.9 6.2\* 42 5.8\* 3.7 4.6\* 81 15 ft lb 15,4\* 15,4\* 12,7 13,5\* 8,9 12,8\* 8,2 10,2\* 26'4" 3.0 m 8.5 9.3\* 5.6 7.2\* 4.0 6.0 3.4 4.8 8.4 10 ft lb 18,3 20,0\* 12,0 15,6\* 8,7 12,9 7,5 10,5\* 27'6" 1.5 m t 79 11.2 53 39 58 3.3 49 8.5 2 5 ft lb 17,0 24,2\* 11,4 17,5 8,4 12,6 7,2 10,8 27'8" 0 m 61\* 6.1\* 7.6 12.2 51 79 38 57 3.3 50 82 0 ft lb 14.1\* 14,1\* 16.4 26.5\* 11.0 17,1 82 12.4 27' 7.4 11.1 15m t 11.3\* 11.3\* 75 12.3\* 50 78 3.8 57 36 55 77 -5 ft lb 25.7\* 25,7\* 16.2 26.6 10,9 16.9 8,1 12.3 8.0 12.1 25'4" -3.0 m t 14.8 16.3\* 7.6 11.5' 5.1 7.9 4.3 6.6 6.8 -10 ft lb 31,6 11,0 17,0 35.3\* 16.4 24.8\* 9.6 14.6 22'4" 12.9\* -4.5 m t 12.9\* 79 9.2 6.1 5.4 -15 ft lb 27,7\* 27,7\* 17,0 19,7\* 16,2\* 13,8 17'6"

#### R 924 Litronic 9

### Available Attachments



### Rigid Ditch Cleaning Bucket

GRL 90, for direc	t mounting							
Cutting width	mm/in	1,500/ <b>59"</b>	2,000/ <b>79"</b>	2,010/ <b>79"</b>	2,400/ <b>95"</b>			
Capacity	m³/yd³	0.50/ <b>0.65</b>	0.70/ <b>0.92</b>	0.85/1.11	0.85/ <b>1.11</b>			
Weight	kg/ <b>lb</b>	400/ <b>880</b>	500/ <b>1,100</b>	530/ <b>1,170</b>	580/ <b>1,280</b>			
GRL 90, for mour	nting to quic	k coupler SWA 48						
Cutting width	mm/in	1,500/ <b>59"</b>	1,500/ <b>59"</b>	2,000/79"	2,000/ <b>79"</b>	2,000/ <b>79"</b>	2,400/95"	2,400/95"
Capacity	m³/yd³	0.50/ <b>0.65</b>	0.95/1.24	0.70/0.92	1.20/ <b>1.57</b>	1.25/ <b>1.63</b>	0.85/1.11	1.15/ <b>1.50</b>
Weight	kg/ <b>lb</b>	430/ <b>950</b>	560/ <b>1,240</b>	400/ <b>880</b>	640/ <b>1,410</b>	600/ <b>1,320</b>	600/ <b>1,320</b>	650/ <b>1,430</b>



### Ditch Cleaning Bucket

GRL 90, 2 x 50° t	iltable, for d	irect mountin	g								
Cutting width	mm/ <b>in</b>	1,600/ <b>63"</b>	2,000/ <b>79"</b>	2,000/ <b>79"</b>	2,000/ <b>79"</b>	2,200/ <b>87"</b>	2,400/ <b>95"</b>	2,800/ <b>110"</b>			
Capacity	m³/yd³	0.80/1.05	0.50/0.65	0.70/0.92	1.00/ <b>1.31</b>	1.15/ <b>1.50</b>	0.85/1.11	1.45/ <b>1.90</b>			
Weight	kg/lb	798/ <b>1,760</b>	686/ <b>1,510</b>	819/ <b>1,810</b>	883/1,950	920/ <b>2,030</b>	885/1,950	1,009/2,220			
GRL 90, 2 x 50° t	iltable, for n	nounting to qu	lick coupler S	WA 48							
Cutting width	mm/ <b>in</b>	1,600/ <b>63"</b>	2,000/ <b>79"</b>	2,000/ <b>79"</b>	2,000/ <b>79"</b>	2,200/ <b>87"</b>	2,200/ <b>87"</b>	2,200/87"	2,400/ <b>95"</b>	2,400/95"	2,800/110"
Capacity	m³/yd³	0.80/1.05	0.50/0.65	0.70/0.92	1.00/ <b>1.31</b>	0.80/1.05	1.15/ <b>1.50</b>	1.40/ <b>1.83</b>	0.85/ <b>1.11</b>	1.25/ <b>1.63</b>	1.85/ <b>2.42</b>
Weight	kg/ <b>lb</b>	850/ <b>1,870</b>	690/ <b>1,520</b>	880/ <b>1,940</b>	940/ <b>2,070</b>	880/ <b>1,940</b>	980/ <b>2,160</b>	1,000/2,210	890/ <b>1,960</b>	1,000/2,210	1,088/2,40



### Tilt Bucket

SL 90, 2 x 50° til	table, for dir	ect mounting								
Cutting width	mm/ <b>in</b>	1,600/ <b>63"</b>	1,600/ <b>63"</b>	1,600/ <b>63"</b>						
Capacity	m³/yd³	0.80/1.05	1.00/ <b>1.31</b>	1.35/ <b>1.77</b>						
Weight	kg/lb	768/1,690	820/1,810	918/ <b>2,020</b>						
SL 90, 2 x 50° til	table, for mo	ounting to quic	k coupler SWA	48						
Cutting width	mm/in	1,500/ <b>59"</b>	1,600/ <b>63"</b>							
Capacity	m³/yd³	1.20/ <b>1.57</b>	0.80/1.05	1.00/ <b>1.31</b>	1.35/ <b>1.77</b>	1.55/2.03	0.80/1.05	1.00/ <b>1.31</b>	1.35/ <b>1.77</b>	1.55/ <b>2.03</b>
Weight	kg/lb	970/ <b>2,140</b>	820/1,810	890/1,960	970/2,140	1,035/2,280	820/1,810	1,006/2,220	1,184/2,610	1,550/3,420
HD-version							Х	Х	Х	Х



### Clamshells

GM 20C, earthmoving shell, for mounting to quick coupler SWA 48 (exists for direct mounting)							
Cutting width	mm/ <b>in</b>	600/ <b>24"</b>	800/ <b>31"</b>	1,000/ <b>39"</b>	1,200/ <b>47"</b>		
Capacity	m³/yd³	0.45/ <b>0.59</b>	0.60/ <b>0.78</b>	0.75/0.98	0.90/1.18		
Weight	kg/ <b>lb</b>	575/ <b>1,270</b>	625/ <b>1,380</b>	700/ <b>1,540</b>	765/ <b>1,690</b>		



Sorting Gra	ab	ribbed		perforated	perforated		
SG 30, for direct	mounting						
Cutting width	mm/in	1,000/ <b>39"</b>	1,150/ <b>45"</b>	1,000/ <b>39"</b>	1,150/45"	1,020/40"	
Capacity	m³/yd³	0.75/ <b>0.98</b>	0.90/1.18	0.85/1.11	1.00/ <b>1.31</b>	0.85/1.11	
Weight	kg/ <b>lb</b>	1,510/ <b>3,330</b>	1,590/3,510	1,490/3,290	1,570/3,460	1,765/ <b>3,890</b>	
SG 30, for moun	ting to quick	coupler SWA 48					
Cutting width	mm/ <b>in</b>	1,000/ <b>39"</b>	1,150/45"	1,000/ <b>39"</b>	1,150/45"	1,020/40"	
Capacity	m³/yd³	0.75/ <b>0.98</b>	0.90/1.18	0.85/1.11	1.00/ <b>1.31</b>	0.85/1.11	
Weight	kg/lb	1,510/ <b>3,330</b>	1,590/3,510	1,490/3,290	1,570/3,460	1,765/ <b>3,890</b>	



### Tiltrotator

LH-TR 25, for mounti	ng to qu	ick coupler SWA 48
Weight	kg/ <b>lb</b>	720/1,590
Rotation		360°
Tilt		2 x 50°

### Serial Equipment

### Undercarriage

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

### Uppercarriage

Access platforms without protruding parts Anti-skid surfaces Automatic swing brake lock
Automatic swing brake lock
DEF tank filling indicator
DEF tank lockable access hatch
Engine coolant level, visible from the cab
Engine hood with gas spring opening
Filters accessible from ground level
Handrails
Hydraulic oil level, visible from ground level
Lockable fuel tank cap
Lockable service doors
Lockable storage and accessories compartment
Lockable storage box
Main switch, electric, with timer
Main switch, manual, lockable
Protection grid on radiator fan
Safe uppercarriage side access platform
Sound insulation
Swing drive gearbox oil level, visible from the cab
Swing-out radiators
Windshield washer fluid tank, accessible from ground level

## Hydraulic System

Filter with integrated fine filters
Hydraulic pressure measuring ports
Liebherr Positive Control system with 2 independent circuits
Magnetic rod
Pressure accumulator for controlled lowering of equipment with engine turned off

### 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 fine filter
	Fuel pre-filter and water separator
	Fuel priming pump
	Intercooler
	Power Pack US EPA Tier 4 Final
	Stepless adjustable engine speed



## Operator's Cab

•	
7" multifunction color touchscreen	
Air conditioning, automatic, tri-zone, controlled via disp	lay
Armrests adjustable in width, height and inclination	
Bottle holder	
Cab air filters housing, accessible from ground level	
Cab door sliding windows	
Cigarette lighter	
Coat hook	
DEF consumption on touchscreen	
DEF level on touchscreen	
Electric socket in cabin (12 V)	
Electric socket in cabin (24 V)	
Emergency hammer	
Engine oil level on touchscreen	
Fuel consumption on touchscreen	
Fuel level on touchscreen	
Hydraulic oil level on touchscreen	
Interior lighting	
Laminated right hand side window	
LiDAT Plus (Liebherr data transfer system)*	
Mechanical hour meters, visible from ground level	
Mobile phone storage net	
Movement priority between swing and boom, adjustable	e via touchscreen
Movement priority for stick-in, adjustable via touchscre	en
Rain hood over front window opening	
Rearview mirror	
Rear view monitoring camera	
Rear window emergency exit	
Right hand side view monitoring camera	
Roll-down sun blinds for windscreen and roof window	
ROPS safety cab structure (ISO 12117-2)	
Rubber floor mat, fixed on floor and removable	
Storage box	
Storage nets	
Storage spaces	
Swing braking torque adjustable via touchscreen	
Tiltable console left	
Tinted windows	
Visco-elastic damping	
Windscreen wiper and washer	
Work mode selector	

## Equipment

boom cymuers regeneration
Pipe fracture safety valve for stick cylinder
Pipe fracture safety valves for boom cylinders
Pivot points made of cast steel
SAE split flanges on high pressure lines
Stick cylinder regeneration

### Equipment Standard/Option

### Undercarriage

Chain guide 1 piece	•
Chain guide 3 pieces	+
Reinforced cover and base plate for undercarriage center section	+
Special painting	+
Standard cover plate for undercarriage center section	•
Steps	+
Steps wide	•
Track pads triple grouser 600 mm/24" / 700 mm/28" / 900 mm/35"	+
Track pads triple grouser 800 mm/31"	•
Track pads triple grouser reinforced 600 mm/24" / 700 mm/28"	+
Tracks, sealed and greased, with track pads	•
Tracks, sealed and greased, with track pads, reinforced	+
Undercarriage LC	+
Undercarriage storage compartment	+

### **Uppercarriage**

Air pre-filter with cyclonical dust trap	+
Boxing ring	+
Centralized lubrication system (automatic)	•
Centralized lubrication system (manual)	+
Counterweight standard 5.0 t/11,020 lb	•
Electric socket on uppercarriage (24 V)	+
Extended tool set including tool box	+
Fuel anti-theft protection	+
Headlight on uppercarriage, front left, LED+, 1 piece, protection included	+1)
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)
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)
Pre-heating system for fuel	+
Radiator fine mesh protection grid	+
Reflective warning stickers	+
Reversible fan drive	+
Rotating beacons on uppercarriage, rear, LED, 2 pieces	+
Skyview 360°	+
Special painting	+
Tank refilling pump fuel	+
Tool set including storage case	•

# Hydraulic System

Bypass filter for hydraulic oil	+
Liebherr hydraulic oil	•
Liebherr hydraulic oil, adapted for extreme climate conditions	+
Liebherr hydraulic oil, biodegradable	+

### Engine

Automatic engine shutdown after idling	+
Engine shut-down with overrun	+
Lighting for engine compartment	+1)

### **Operator's Cab**

3" seat belt with retractor, orange color	٠
4-points seat belt	+
Acoustic travel alarm deactivatable	+
Auxilary heater programmable	+
Bottom windscreen wiper	+
Cool box (12 V)	+
Dark tinted windows	+

• = Standard, + = Option <sup>1)</sup> Equipment not individually available, but only as predefined lighting packages Non-exhaustive list, please contact us for further information.

#### $\square$ **Operator's Cab**

Electrically adjustable and heated outside rear-view mirrors	+
Electronic immobilizer	+
Emergency stop in cab	+
FGPS front guard	+
Filter for hydraulic hammer return flow	+
Fire extinguisher	+
First-aid box	+
Footrest	+
FOPS top guard	+
Handrests elevated for joysticks	+
Headlights on cab, front, LED, 2 pieces	●1)
Headlights on cab, front, LED+, 2 pieces	+1)
Headlights on cab roof, front, LED+, 2 pieces	+1)
High pressure circuit switchable on pedals or mini-joystick	+
High pressure circuit with Tool Control (20 attachment adjustments on display)	+
Impact resistant one-piece windscreen	+
Impact resistant roof window	+
Integral protection guard	+
Laminated roof window	•
Lightbar on cabin	+
Luminosity control (LED+ headlights)	+1)
Medium pressure circuit	+
Mini-joysticks proportional	•
Movement restriction for boom	+
Movement restriction for stick	+
Operator seat Comfort	•
Operator seat Premium	+
Overload warning system	+
Preparation for machine guidance system	+
Preparation for tiltrotator	+
Preparation for weighing system	+
Radio Comfort	+
Radio pre-installation	•
Retractable laminated two-piece windscreen	•
Roof sun shield	+
Roof window wiper	+
Rotating beacon on cabin, LED, 1 piece	+
Seat belt reminder	+
Shortkey button on joystick configurable	•
Special painting	+
Sun visor	+
Switch between high pressure and bucket cylinder controls	+
Windscreen bottom protection grid	+

#### A Equipment

Bucket cylinder rod protection	+
Centralized lubrication extended for connecting link	+
Floating boom	+
Grapple hydraulic lines (bucket cylinder inactive)	+
Headlight guard on boom, right	+
Headlight guards on boom, right and left	+
Headlight on boom, left, LED+, 1 piece	+1)
Headlight on boom, right, LED, 1 piece	●1)
Headlight on boom, right, LED+, 1 piece	+1)
Headlight on stick, bottom, LED+, 1 piece	+1
Liebherr bucket range	+
Liebherr tooth system	+
LIKUFIX electric signal plug	+
LIKUFIX for quick coupler SWA 48 hydraulic	+
Load holding valve for bucket cylinder	+
Lubrication hoses protection on stick	+
Mono boom 5.70 m/18'8"	+
Quick coupler SWA 48 hydraulic	+
Quick coupler SWA 48 mechanical	+
Special painting	+
Stick 2.50 m/8'2"	+
Stick 2.90 m/9'6"	+
Stick 3.50 m/11'6"	+
Stick bottom protection	+
Tool Management	+

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.

Liebherr USA, Co.

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