# Technical Description Crawler Loader

Engine output 66 kW/90 HP Bucket capacity  $1.0 - 1.2 \, \text{m}^3/1.31 - 1.57$  cu.yd. Hydrostatic travel drive



# The Better Machine.



### Diesel Engine

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Liebherr-Diesel Engine	D 924 T-E
Rating per	
ISO 9249	66 kW (90 HP) at 2000 RPM
Displacement	6.7 1 (409 cu.in.)
Bore/stroke	122 mm/142 mm (4.8/5.6 in)
Design	4 cylinder in-line engine, watercooled,
3	turbocharged, rear engine installation
Injection	direct fuel injection with injection
•	pump, mechanical governor
Fuel filter	pre-cleaner with water separator and
	2 fine filters
Lubrication	pressurized lube system with full
	flow filter and integrated oil cooler,
	deep oil pan for inclinations, engine
	lubrication to an inclination of up
	to 45° to each side
Air filter	dry type air filter with main and
	safety element
Operating voltage	
Alternator	
Starter	
Batterie	



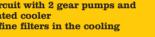
### Implement Hydraulic

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Hydraulic system	variable flow piston pump for opera- tion of front and rear-mounted attachments. The regulation of the variable flow pump causes an automatic proportioning of lift and tilt speed
Pump flow	max. 114 l/min (30 gpm)
Pressure limitation	max. 260 bar (3770 PSI)
Control valve	3 spool control block
Filter system	return filter with magnetic rod in hydraulic tank
Control	single servo-assisted joystick lever
	for all bucket functions, adjustable electrical switches for lift stop, bucket positioning and bucket-float



# Travel Drive

Design	closed-loop hydrostatic drive, each track is driven by one variable flow swash plate-type pump and one variable displacement motor
Pump flow	and the contract of the contra
	adjusted to 420 bar (6090 PSI)
	0 - 9.5 km/h (0 to 5.9 mph) infinitely
	variable, forward and reverse
Steering	hydrostatic
Service brake	hydrostatic
Parking/emergency brake	automatic spring-activated parking
	brake, released by servopressure during travel
Cooling system	hydraulic oil cooler with separate
	cooling circuit with 2 gear pumps and rear mounted cooler
Filter system	cartridge fine filters in the cooling circuit
Final Drive	3-stage spur gear drives formed as
	modular components





Design	maintenance-free standard or low ground pressure (M) tractor-type
	track frames
Chains	sealed or lubricated, track chain
	tension via grease tensioner cylin-
	ders, double or triple grouser pads
Chain links	40
Sprockets	2 replaceable segments
Track rollers	6
Carrier rollers	1



#### **Travel Control**

steering and counter-rotation for difficult applications the maximum travel speed can be limited to 4 km/h (2.5 mph)
_ the engine speed sensing control
assures constant balance between
traction and travel speed guarantees
maximum utilization of available
engine horsepower and protects the
Diesel engine from overload
inactivates complete travel and
working hydraulic circuit and auto-
matically activates parking brake

1 joystick lever\_\_\_\_\_ with servo-control for all travel



Z-bar linkage	gives maximum of breakout-force and optimum of working speed, the 2 lift cylinders are protected by the main frame, the single tilt cylinder allows optimum view of the bucket	
Buckets	standard and multi-purpose bucket	
	are equipped with 8 replaceable teeth	
	(LR 611 M: 10 replaceable teeth)	
Cycle times	lifting 6.3 seconds	
	lowering 2.0 seconds	
	tilting out 1.2 seconds	



# Operator's Compartment

Cab	resiliently mounted, with integrated
	ROPS (Roll Over Protective Structure,
	SAE J1040/ISO 3471) and FOPS
	(Falling Objects Protective Structure,
	SAE J231/ISO 3449),
	can be tilted with hand pump to the
	rear for accessibility to machine
	components, all around safety glass
Operator's Seat	fully adjustable, suspended swing
	seat, adjustable to operator weight
Instrument Panel	comprehensive instrument panel with
	acoustical warning buzzers, on the
	right side of the operator's seat
Ventilation	pressurized filtered air ventilation,
	3 stage blower, 4 air nozzles
Heater	hot water heater
Heater	hot water heater



### Refill Capacities

Fuel tank	250 l (66 gal)
Cooling system	_ 27 l (7.1 gal)
Engine oil	_ 22 l (5.8 gal)
Splitterboxe	1.5 l (0.4 gal)
Hydraulic tank	130 l (34 gal)
Final drive, each	_ 18 l (4.8 gal)

# **Technical Data**

	LR 611	LR 611 M
Dimensions	ft-in/mm	ft-in/mm
C Height over cab D Height over exhaust pipe Q Ground clearance F Overall length without attachment L Distance idler/sprocket center M Crawler length W Track gauge N Width of trackpads	9'11"/3020 9'11"/3010 1'3"/380 13'1"/4000 7'5"/2270 10'5"/3170 5'1"/1550 15"/381 18"/457	9'11"/3020 9'11"/3010 1'3"/380 13'1"/4000 7'5"/2270 10'5"/3170 5'8"/1720 26"/660
Ground contact ares: trackpad-width 15"/381 mm 18"/457 mm 26"/660 mm	2,680 sq.in./1.73 m <sup>2</sup> 3,210 sq.in./2.07 m <sup>2</sup>	4,650 sq.in./3.0 m <sup>2</sup>

# **Dimensions**

	LR 611	LR 611 M
Capacity ISO heaped Breakout-force Static tipping load	1.57 cu.yd./1.2 m <sup>3</sup> 22,900 lbs/102 kN (10400 kg) 18,000 lbs/8155 kg	1.57 cu.yd./1.2 m³ 26,000 lbs/116 kN (11800 kg) 18700 lbs/8465 kg
Dimensions	ft-in/mm	ft-in/mm
E Overall length H Dumping height at 45° I Reach at 45° K Max. digging depth below grade U Overall height T Max. height of hinge pin T1 Height of hinge pin with maximum bucket tilt W Width of bucket N Width of trackpads	17'11"/5460 8'11"/2710 3'7"/1090 2 <sup>9</sup> / <sub>16</sub> "/65 14'10"/4520 11'1"/3370 1'4"/405 7'1"/2150 15"/381/18"/457	17'8"/5375 9'1"/2770 3'5"/1030 2 <sup>9</sup> / <sub>16</sub> "/65 14'8"/4480 11'1"/3370 1'4"/405 8'2"/2500 26"/660
Operating Weights	lbs/kg	lbs/kg
Standard bucket Basic machine with standard bucket and triple-grouser trackpads 15"/381 mm double-grouser trackpads 18"/457 mm double-grouser trackpads 26"/660 mm	1,540/700 26,400/11990 26,500/12040 –	1,610/730 - - 27,800/12595
Ground Pressures	PSI/kg/cm <sup>2</sup>	PSI/kg/cm <sup>2</sup>
Basic machine with standard bucket and triple-grouser trackpads 15"/381 mm double-grouser trackpads 18"/457 mm double-grouser trackpads 26"/660 mm	9.96/0.70 8.25/0.58 –	- - 5.97/0.42

## **Attachments**

	LR 611	LR 611 M
Capacity ISO heaped Breakout-force Static tipping load Max. clamping force	1.3 cu.yd./1.0 m <sup>3</sup> 20,950 lbs/94 kN (9500 kg) 16,800 lbs/7605 kg 11,000 lbs/49 kN (5000 kg)	1.3 cu.yd./1.0 m <sup>3</sup> 23,800 lbs/106 kN (10800 kg) 17,400 lbs/7900 kg 11,000 lbs/49 kN (5000 kg)
Dimensions	ft-in/mm	ft-in/mm
E Overall length H Dumping height at 45° (bucket) H1 Dumping height at 45° (blade) I Reach at 45° (bucket) I1 Reach at 45° (blade) K Max. digging depth below grade U Overall height U1 Overall height T Max. height of hinge pin T1 Max. height of hinge pin, transport position V Width of opening W Width of bucket N Width of trackpads	18'3"/5575 8'7"/2625 9'10"/3000 3'8"/1105 2'6"/755 4'12"/115 14'9"/4495 16'7"/5045 11'1"/3370 1'4"/405 3'8"/1125 7'1"/2150 15"/381/18"/457	18'1"/5505 8'10"/2690 9'10"/3000 3'5"/1040 2'6"/755 4 <sup>1</sup> / <sub>2</sub> "/115 14'6"/4410 16'4"/4990 11'1"/3370 1'4"/405 3'8"/1125 8'2"/2500 26"/660
Operating Weights	lbs/kg	lbs/kg
Multi-purpose bucket Basic-machine with multi-purpose bucket and triple-grouser trackpads 15"/381 mm double-grouser trackpads 18"/457 mm double-grouser trackpads 26"/660 mm	2,450/1100 27,300/12390 27,400/12440	2,500/1130 - - 28,600/12995
Ground Pressures	PSI/kg/cm <sup>2</sup>	PSI/kg/cm <sup>2</sup>
Basic-machine with multi-purpose bucket and triple-grouser trackpads 15"/381 mm double-grouser trackpads 18"/457 mm double-grouser trackpads 26"/660 mm	10.24/0.72 8.54/0.60	- - 6.26/0.44

Radial ripper, 5 shank rigid-type equipped with 3 shanks Ripper tips: ESCO	
Dimensions	ft-in/mm
D Ground clearance below toolbar F Ripping width G Toolbar width H Lifting height K Ripping depth M Overall length attachment raised M1 Overall length attachment, teeth angled in N Overall length attachment lowered W Distance between teeth X Angle X1 Angle, teeth angled in	10 <sup>1</sup> / <sub>2</sub> "/265 5'1"/1560 6'0"/1820 2'2"/660 1'0"/305 5'9"/1750 4'11"/1510 5'7"/1700 2'6"/750 18° 24°
Weight	lbs/kg
Ripper complete	1,760/800
When mounting the ripper, the rear 276 lbs/125 kg counterweight must be removed	

## **Attachments**

#### **Standard Equipment\***

#### **Diesel Engine:**

- Fuel system with pre-filter, water separator and fine filters
- Dry-type air cleaner with main and safety element
- Alternator, 55 Amp
- Starter motor 4 kW/5.4 hp
- Electrically activated battery master switch
- Two HD cold start batteries 110 Ah

#### **Track Components:**

- Maintenance-free track components, sealed and lubricated rollers, idlers and sprockets
- Segmented, bolted sprocket rims

#### **Travel Drive:**

- Hydrostatic drive with hydraulic control
- **Automatic parking brake**

#### **Attachment Hydraulics:**

- 3-spool control block
- Electrical switches for lift stop, bucket positioning and bucket-float
- Z-bar linkage

#### **Operator's Compartment:**

- Cab with integrated ROPS/FOPS, hot water heater, pressurized and filtered ventilation
- Fully adjustable suspension seat with seatbelt
- Windshield wipers front and rear
- Windshield washer system
- Dome light, rear view mirror, sun shade
- Preparation kit to install fire extinguisher and beacon
- Safety glass, tinted glass
- Two front and two rear working lights
- Lighted instrument panel with engine oil pressure and engine coolant temperature gauge, hour meter and fuel gauge

#### **Basic Machine:**

- Tool kit
- Rear drawbar hitch
- \* Standard and optional equipment may vary.

#### **Optional Equipment:**

- Perforated engine side covers
- Backup alarm
- Air conditioner
- Cab protection screens Power adjustable, air suspension seat
- Electric fuel pump
- Full length track guard
- Track guide, center Final drive protection
- Extra hydraulic controls
- Hydraulic winch
- Swinging drawbar
- Remote radio control
- Landfill package
- Forestry package
- Steel mill package
- Special paint, one or two tone
- Special buckets
- Lifting lugs

Other optional items on request

# **Standard and Optional Equipment**

