Technical description Crawler loader

LR 622

Engine output 97 kW/132 HP
Operating weight 15.4 - 17.0 t/34,000 - 37,500 lb
Bucket capacity 1.54 - 1.80 m³/2.01 - 2.35 cu.yd.
Hydrostatic travel drive with electronic control



The Better Machine.

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Diesel Engine

Liebherr-Diesel Engine	D 924 T-E
	97 kW (132 HP) at 2000 RPM
Displacement	
-	122 mm/142 mm (4.8/5.6 in)
	4 cylinder in-line engine, water-
	cooled, turbocharged, rear engine installation
Injection	direct fuel injection with distributor
Fuel filter	injection pump, mechanical governor pre-cleaner with water separator and
	micro 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	24 V
Alternator	55 Amp.
Starter	5,4 kW (7.3 HP)

Travel Control

1 joystick lever	with electronic control for all travel functions: travel direction, speed, steering and counter-rotation
Low speed range	
High speed range	
Electronic engine speed	o 11 mm (o olo mpii)
	electronic regulation assures a con-
	stant balance between travel speed
	and necessary drawbar pull through
	engine speed sensing avoiding
	engine overload, even in partial load range
Straight line travel	_ electronically controlled
Parking/emergency brake	automatically applied after the joy-
3 3 0	stick lever is put in neutral position
Safety lever	inactivates complete travel and work-
·	ing hydraulic circuit and automat-
	ically activates parking brake
Emergency shut off	push button on instrument panel
	immediately activates parking and emergency brake



Design	closed-loop hydrostatic drive, each
	track is driven by one variable flow swash plate-type pump and one
	variable displacement motor
Pump flow	max. 164 l/min (41 gpm)
Max. pressure	adjusted to 420 bar (6090 PSI)
Travel speed	0-11 km/h (0-6.8 mph) infinitely
	variable, forward and reverse
Steering	hydrostatic
Service brake	hydrostatic
Parking/emergency brake _	automatic spring-activated parking
	brake, released by servo-pressure
	during travel
Cooling system	hydraulic oil cooler with separate
	cooling circuit with gear pump and
	rear mounted cooler
Filter system	_ cartridge micro filters in the cooling circuit



Attachment Hydraulics

Hydraulic system	load sensing proportional pump flow control, variable flow swash plate piston pump and pressure compensa- tion
Pump flow	max. 156 l/min (41 gpm)
Pressure limitation	max. 280 bar (4060 PSI)
Control valve	2 spool control block, can be expanded to 4 circuits
Filter system	return filter with magnetic rod in hydraulic tank
Control	single servo-assisted joystick lever for all bucket functions, electrical switches for bucket positioning and bucket-float



Concept	2-stage planetary reduction gear
	with hydraulic travel motor directly
	flanged to travel gear
Design	compact unit, protected and inte-
	grated into the track roller frame



Operator's Compartment

Cab	resiliently mounted, with integrated
	ROPS (Roll Over Protective Structure,
	ISO 3471) and FOPS (Falling Objects
	Protective Structure, ISO 3449), can
	be tilted with hand pump to the rear
	for accessibility to machine compo-
	nents, all around safety glass
Operator's seat	_ fully adjustable, suspended seat, adjustable to operator weight
Instrument panel	comprehensive instrument panel on
-	the right side of the operator's seat
Ventilation	pressurized filtered air ventilation,
	2 stage blower
Heater	hot water heater



Design	maintenance-free tractor-type track
	frames
Mount	elastic components at the pivot shaft
	and the oscillating equalizer bar
Chains	lubricated, track chain tension
	through grease tensioner cylinders,
	double or triple grouser pads
Chain links	42
Track rollers	6
Carrier rollers	1



gives maximum of breakout-force and optimum of working speed, the single tilt cylinder allows optimum view of the bucket		
standard and multi-purpose bucket		
are equipped with 8 replaceable teeth		
lifting 6,5 seconds		
lowering 2,1 seconds		
tilting out 1,5 seconds		

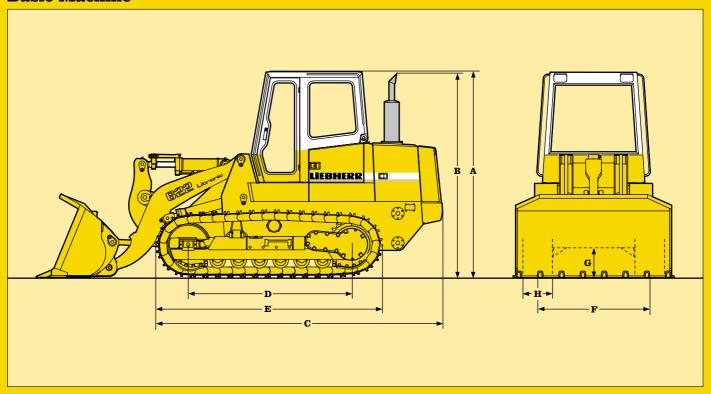


Refill Capacities

Fuel tank	320 1 (84.5 gal)
Cooling system	59 l (15.6 gal)
Engine oil	23 l (6.1 gal)
Splitterbox	3 l (0.8 gal)
Hydraulic tank	175 l (46.2 gal)
Final drive, each	18 l (4.8 gal)

Technical Data

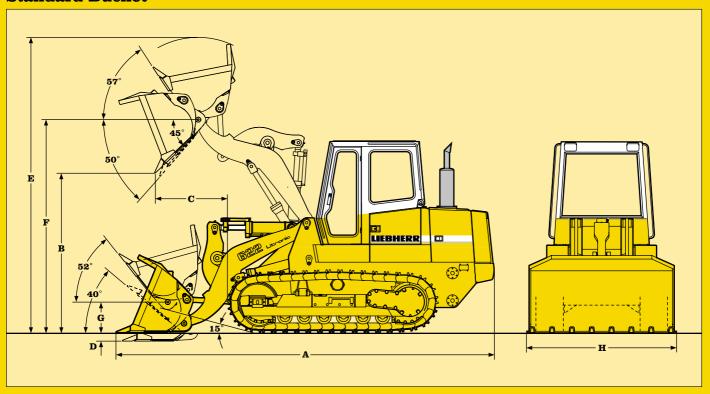
Basic Machine



	LR 622	LR 622 M
Dimensions	mm/ft-in	mm/ft-in
A Height over cab B Height over exhaust pipe C Overall length without attachment D Distance idler/sprocket center E Crawler length F Track gauge G Ground clearance H Width of trackpads	3129/10'3" 3092/10'2" 4339/14'3" 2478/8'2" 3418/11'3" 1680/5'6" 395/1'4" 457/508/560/18"/20"/22"	3129/10'3" 3092/10'2" 4339/14'3" 2478/8'2" 3418/11'3" 1780/5'10" 395/1'4" 660/26"
Ground contact area: trackpad-width 457 mm/18" 508 mm/20" 560 mm/22" 660 mm/26"	2,26 m²/3,500 sq.in 2,52 m²/3,900 sq.in 2,77 m²/4,300 sq.in –	- - - 3,27 m²/5,070 sq.in

Dimensions

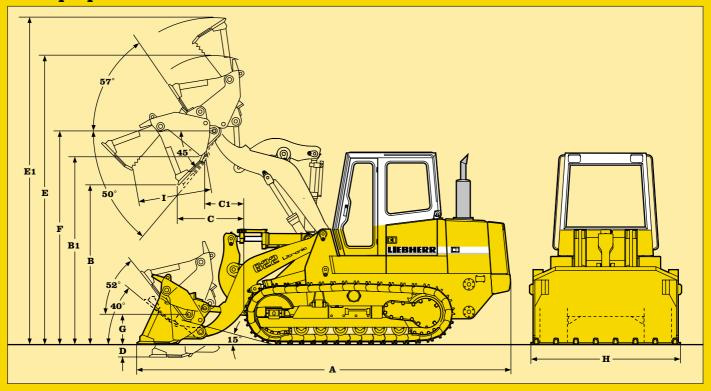
Standard Bucket



	LR 622	LR 622	LR 622 M
	Version with weld-on teeth	Version with bolt-on teeth and segments	Version with weld-on teeth
Capacity ISO heaped Breakout force Static tipping load	1,75 m³/2.29 cu.yd 147 kN (14940 kg)/32,943 lb 10600 kg/23,373 lb	1,8 m ³ /2.35 cu.yd 137 kN (13960 kg)/30,782 lb 10470 kg/23,086 lb	1,75 m ³ /2.29 cu.yd 151 kN (15410 kg)/33,979 lb 10950 kg/24,145 lb
Dimensions	mm/ft-in	mm/ft-in	mm/ft-in
A Overall length B Dumping height at 45° C Reach at 45° D Max. digging depth below grade E Overall height F Max. height of hinge pin G Height of hinge pin transport position H Width of bucket	6117/20'1" 2905/9'6" 1025/3'4" 110/0'4" 5000/16'5" 3662/12'0" 503/1'8" 2450/8'0"	6191/20'4" 2849/9'4" 1048/3'5" 132/0'5" 5000/16'5" 3662/12'0" 503/1'8" 2440/8'0"	6092/20' 2923/9'7" 1007/3'4" 110/0'4" 4978/16'4" 3662/12'0" 503/1'8" 2600/8'6"
Operating Weights	kg/lb	kg/lb	kg/lb
Standard bucket Basic machine with standard bucket and triple-grouser trackpads 457 mm/18" double-grouser trackpads 508 mm/20" double-grouser trackpads 560 mm/22" double-grouser trackpads 660 mm/26"	1070/2359 15400/33,957 15400/33,957 15500/34,117 –	1190/2,624 15520/34,222 15520/34,222 15620/34,442 –	1120/2,470 - - - 15900/35,059
Ground Pressures	kg/cm²/PSI	kg/cm²/PSI	kg/cm²/PSI
Basic machine with standard bucket and triple-grouser trackpads 457 mm/18" double-grouser trackpads 508 mm/20" double-grouser trackpads 560 mm/22" double-grouser trackpads 660 mm/26"	0,68/9.67 0,61/8.68 0,56/7.97	0,69/9.67 0,62/8.82 0,56/7.97	- - - - 0,49/6.97

Standard Bucket

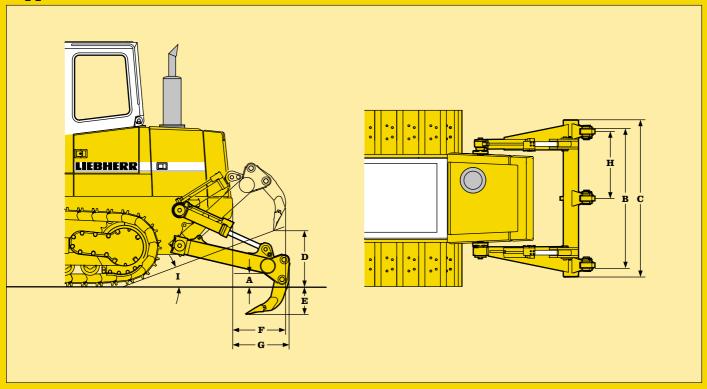
Multi-purpose Bucket



	LR 622	LR 622
	Version with weld-on teeth	Version with bolt-on teeth and segments
Capacity ISO heaped Breakout force Static tipping load Max. clamping force	1,54 m³/2.01 cu.yd 130 kN (13225 kg)/29,161 lb 9325 kg/20,562 lb 91,7 kN (9345 kg)/20,606 lb	1,6 m ³ /2.09 cu.yd 122 kN (12440 kg)/27,430 lb 9185 kg/20,253 lb 91,7 kN (9345 kg)/20,606 lb
Dimensions	mm/ft-in	mm/ft-in
A Overall length B Dumping height at 45° (bucket) B1 Dumping height at 45° (blade) C Reach at 45° (bucket) C1 Reacht at 45° (blade) D Max. digging depth below grade E Overall height E1 Overall height F Max. height of hinge pin G Max. height of hinge pin, transport position H Width of bucket I Width of opening	6250/20'6" 2796/9'2" 3252/10'8" 1064/3'6" 629/2'1" 160/0'6" 4896/16'1" 5505/18'1" 3662/12'0" 503/1'8" 2450/8'0" 1212/4'0"	6330/20'9" 2741/9'0" 3252/10'8" 1089/3'7" 629/2'1" 180/0'7" 4896/16'1" 5556/18'3" 3662/12'0" 503/1'8" 2440/8'0" 1212/4'0"
Operating Weights	kg/lb	kg/lb
Multi-purpose bucket Basic machine with multi-purpose bucket and triple-grouser trackpads 457 mm/18" double-grouser trackpads 508 mm/20"	1615/3,561 16000/35,280 16000/35,280	1750/3,859 16135/35,578 16135/35,578
Ground Pressures	kg/cm ² /PSI	kg/cm ² /PSI
Basic machine with multi-purpose bucket and triple-grouser trackpads 457 mm/18" double-grouser trackpads 508 mm/20"	0,71/10.1 0,64/9.1	0,71/10.1 0,64/9.1

Multi-purpose Bucket

Ripper



Radial ripper, 3 shank rigid-type equipped with 3 shanks Ripper tips: ESCO		
Dimensions	mm/ft-in	
A Ground clearance below toolbar B Ripping width C Toolbar width D Lifting height E Ripping depth reach F Additional length attachment raised G Additional length attachment lowered H Distance between teeth I Angle	166/0'7" 1760/5'9" 1996/6'7" 712/2'4" 352/1'2" 676/2'3" 729/2'5" 850/2'9" 21°	
Weight	kg/lb	
Ripper complete	790/1,742	

Ripper

Standard Equipment*

Diesel Engine:

- Fuel system with pre-filter, water separator and micro filters
- Dry-type air cleaner with main and safety element
- Air filter with automatic dust ejector
- Alternator, 55 Amp Starter motor 5,4 kW (7.3 HP)
- Electrically activated battery master switch
- Two HD cold start batteries 110 Ah
- Glow plug cold starting aid

Track Components:

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

Travel Drive:

- Hydrostatic drive with electronic control
- Automatic parking brake

Attachment Hydraulics:

- 2-spool control block
- Electrical switches for bucket positioning and bucket-
- **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
- Safety glass, tinted glass
- Lockable doors
- 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
- Extra hydraulic controls
- Hydraulic winch
- Swinging drawbar
- Remote radio control
- Landfill package
- Forestry package
- Special paint, one or two tone
- Special buckets
- Lifting lugs

Other optional items on request

Standard and Optional Equipement

