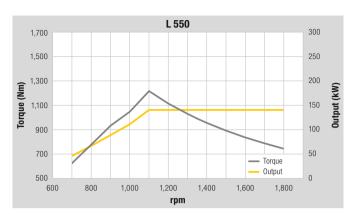
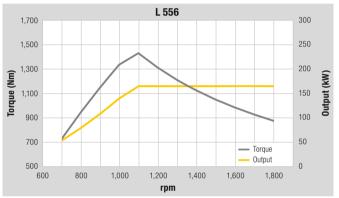
Technical Data

	Engine
- T	Engine

- Liigiiio				
		L 550	L 556	
Diesel engine		D934 A7	D944 A7	
Design		cooling, exhaust	series engine with charge-air after-treatment through chnology, closed diesel particle onal	
Cylinder inline		4	4	
Fuel injection proce	SS	Electronic Comm	non Rail high-pressure injectior	
Max. gross output				
to ISO 3046	kW/HP	143/194	168/228	
and SAE J1995	at RPM	1,100 – 1,800	1,100 – 1,800	
Max. net output to ISO 9249 and SAE J1349		140/190 1,100 – 1,800	165/224 1,100 – 1,800	
Rated output				
to ISO 14396		140/190	165/224	
	at RPM	1,800	1,800	
Max. net torque				
to ISO 9249		1,215	1,430	
and SAE J1349	at RPM	,	1,100	
Displacement		7.014	7.964	
Bore/Stroke		122/150	130/150	
Air cleaner syster	n	Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebher display		
Electrical system				
Operating voltage	-	24	24	
Capacity		2 x 180	2 x 180	
Alternator	V/A	28/140	28/140	
Starter	V/kW	24/7.8	24/7.8	

The exhaust emissions are below the limits in stage IV/Tier 4f.





Driveline

Continuous power spli	t XPower® driveline
Design	Continuous, fully-automatic XPower® driveline. No traction interruptions across the entire speed range. Hydrostatic power split with two axial piston units. Identical driving performance – forwards and in reverse
Filtration	Filter system for driveline, depend on working hydraulics
Control	Driveline is controlled from travel pedal for tractive force and speed setting with integrated inch function. The Liebherr control lever is used to control forward and reverse travel
Travel speed range	0 – 40 km/h forward and reverse, fully-automatic Speed restriction available upon request. Speeds quoted apply with the tyres indicated as standard on loader model.

- Axles

	L 550	L 556
Four-wheel drive		
Front axle	Fixed	
Rear axle	Centre pivot, with 13° o side	scillating angle to each
Height of obstacles which can be driven over	460 with all four wheels rem the ground	442 aining in contact with
Differentials	Automatic limited-slip d	ifferentials
Reduction gear	Planetary final drive in w	vheel hubs
Track width	2,003 mm with all types	of tyres

Brakes

Wear-free service brake	Self-locking of the XPower® driveline (acting on all four wheels) and additional pump-accumulator brake system with wet multi-disc brakes (two separate brake circuits)
Parking brake	Electro-hydraulically actuated spring-loaded disc brake system on the transmission

The braking system meets the requirements of the EC guidelines 71/320.



- Otooring	
Design	"Load-sensing" swash plate type variable flow pump with pressure cut-off and flow control. Central pivot with two double-acting, damped steering cylinders
Angle of articulation	40° to each side
Emergency steering	Electro-hydraulic emergency steering system

Attachment Hydraulics

		L 550	L 556
Design		pump with	sing" swash plate type variable flow n output and flow control, and pressure the control block
Cooling			oil cooling using thermostatically fan and oil cooler
Filtration		Return lin	e filter in the hydraulic reservoir
Control		Liebherr o	control lever, electro-hydraulically
Lift circuit		Automatic control lev	utral, lowering hoisting and lowering by Liebherr ver tion controlled by Liebherr control
Tilt circuit		Automatic	neutral, dump bucket return for tilting back and controlled by Liebherr control lever
Max. flow	I/min.	234	234
Max. pressure			
Z-bar linkage	bar	330	360
Industrial lift arm	bar	350	380

Attachment

	L 550		L 556		
Geometry variants					
Optional		Powerful Z-bar linkage with tilt cylinder and steel cross-tube			
		al lift arm wit standard	h tilt cylinde	r, hydraulic quick	
Bearings	Sealed				
Cycle time at nominal load	7K	IND	7K	IND	
Lifting	s 5.5	5.5	5.5	5.5	
Dumping	s 2.3	3.5	2.3	3.5	
Lowering (empty)	s 2.7	2.7	2.7	2.7	



Operator's Cab				
Design	Hydraulically mounted, noise-proof cab ROPS roll over protection per EN ISO 3471/EN 474-1 FOPS falling objects protection per EN ISO 3449/EN 474-1, Cat. II Operator's door with sliding side window, sliding side window on right, front windscreen made of compound safety glass, side panels with singlepane safety glass ESG, heated rear window ESG, all windows are tinted. 3 way continuous adjustable steering column			
Liebherr operator's seat	6 way adjustable, vibration-damped operator's seat "Comfort" with seat, depth and incline adjustment as standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard			
Cab heating and ventilation	4-zone air conditioning with new improved cooling output as standard, all filters are easy to access and replaceable			

Sound Level

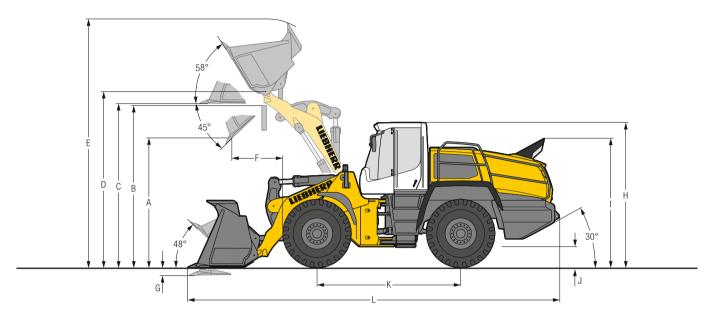
	L 550	L 556	
Sound pressure le to ISO 6396	vel		
L _{pA} (inside cab)	dB(A) 68	68	
Sound power leve to 2000/14/EC			
Lwa (surround noise)	dB(A) 104	104	

Capacities

	L 550	L 556
Fuel tank	I 280	280
Engine oil		
(inclusive filter change)	I 26	26
DEF tank	I 67.5	67.5
Pump distribution		
gearbox	I 1.2	1.2
XPower® gearbox	I 53	53
Coolant	I 67	67
Front axle	I 35	42
Rear axle	I 35	35
Hydraulic tank	I 105	105
Hydraulic system, total	l 175	175
Air conditioning		
system R134a	g 1,250	1,250

Dimensions

Z-bar Linkage



Excavation Bucket



		L 5	550	L 5	556
Geometry		ZK	ZK	ZK	ZK
Cutting tools		T	T	T	T
Lift arm length	mm	2,600	2,600	2,600	2,600
Bucket capacity according to ISO 7546**	m³	3.2	3.6	3.6	4.0
Specific material density	t/m³	1.85	1.65	1.85	1.65
Bucket width	mm	2,700	2,700	2,700	2,700
A Dumping height at max. lift height and 45° discharge	mm	2,880	2,810	2,810	2,740
B Dump-over height	mm	3,500	3,500	3,500	3,500
C Max. height of bucket bottom	mm	3,645	3,645	3,645	3,645
D Max. height of bucket pivot point	mm	3,915	3,915	3,915	3,915
E Max. operating height	mm	5,585	5,695	5,695	5,775
F Reach at max. lift height and 45° discharge	mm	1,095	1,170	1,170	1,250
G Digging depth	mm	85	85	85	85
H Height above operator's cab	mm	3,370	3,370	3,370	3,370
I Height above exhaust	mm	3,020	3,020	3,020	3,020
J Ground clearance	mm	490	490	490	490
K Wheelbase	mm	3,395	3,395	3,395	3,395
L Overall length	mm	8,380	8,480	8,480	8,580
Turning circle radius over outside bucket edge	mm	6,585	6,610	6,610	6,635
Breakout force (SAE)	kN	140	130	150	140
Tipping load, straight*	kg	14,000	13,800	15,750	15,550
Tipping load, fully articulated*	kg	12,200	12,000	13,700	13,500
Operating weight*	kg	17,700	17,800	18,400	18,500
Tyre size		23.5F	125 L3	23.5F	R25 L3

^{**} Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 24.

ZK = Z-bar linkage

T = Welded-on tooth holder with add-on teeth