**Reliability in Action** 

L946H Wheel Loader

Gross Power: 175HP@2000rpm Operating Weight: 13718KG Payload: 4000KG CEV-IV Certified

and the second second

SDLG

SDLG

## The best-in-class productivity, safety and efficiency.



946

Member of The Volvo Group

## **Technical Specifications**

## Standard Equipment

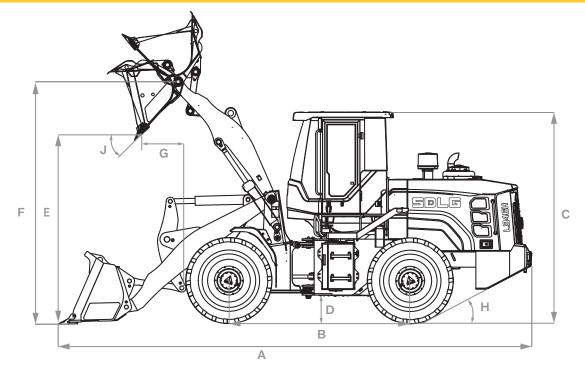
Precleaner

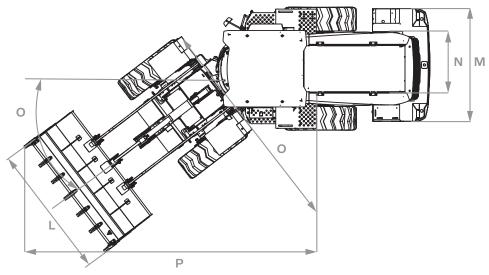
Engine			
Make	WEICHAI		
Model	WP7G178E502		
Туре	Electronically controlled CRDI engine		
Gross Power hp@2000rpm	175		
Maximum Torque Nm@1400rpm	760		
Engine exhaust after treatment	DOC + SCR + ASC		
Working Modes	3		
Transmission			
Make	SDLG		
Model	TP170 - 5 Ton capacity Transmission		
	Single phase, 4 elements,		
Torque Converter	twin turbine, hydraulic converter		
Travel Speed km/hr	Forward Reverse		
1 <sup>st</sup> gear	0~13 0~ 17		
2 <sup>nd</sup> gear	0~38		
Axles			
Make	SDLG make with Dry Disc brakes		
Front	Heavy duty axles with 28 ton carrying capacity with planetary hub reduction		
Rear	Heavy duty axles with 28 ton carrying capacity with planetary hub reduction		
Hydraulic system			
Loader Hydraulic operation	Pilot operated with single Joystick		
Pilot System working pressure	3.5MPa		
Loader Arm Linkage	Z Bar		
Main Pump Type	Gear Pump		
Maximum Flow Itrs/min	287L/min		
System working pressure Mpa	16		
Hydraulic Cycle Time Sec			
Lifting Time (fully loaded)	5.7		
Lowering Time (empty)	3.5		
Dumping Time (Empty)	1		
Total	10.2		
Steering System	Gear pump		
Туре	Full hydraulic load sensing, articulated		
Working pressure	steering 14		
Service & Maintenance			
Air-filter	Dual Air Filters with Turbo Precleaner		
Fuel Filters	2		
Water Separator	1 with electrical priming motor		
Hydraulic Filter Transmission filter	1		
Optional Attachments			
HD Bucket m <sup>3</sup>	2		
LM Bucket m <sup>3</sup>	3.5		

Oil bath Pre cleaner

Brake System	A ·			<b>F</b> .		
Service brake		er Hydra brake p		c Brake	es with	
Parking brake	Electro	onically o	controll	ed Pneu	umatic	
	caliper disc brake					
Tyres					Size	
Front	20.5X25 L3					
Rear	20.5X25 L3					
System refill capacity (L) & Interval (Hrs)	С	Tank apacity			Refill Interva <b>l</b>	
Fuel		200				
Adblue		16				
Engine coolant		25		2000		
Engine oil		22			500	
Transmission oil		44				
Axle & Final drive oil front		18		10		
Axle & Final drive oil rear		20.5				
Hydraulic oil volume in tank		128			2000	
Brake System		4				
Electrical System						
Voltage		24V				
Batteries		2				
Cabin						
AC Cabin					Standard	
AC	Standard with dual filters					
Operator Seat						
Music System	Mechanical Suspension Seat MP3 Player with Bluetooth					
		mobile connection				
Seat Belt	Standard					
Payload						
Payload Capacity kg		4000	2	1000	4000	
Bucket Volume Heaped ISO/SA cu.m (HD, GP, LM)	Æ	2		2.5	3.5	
Volume at 110% Fill Factor m <sup>3</sup>		2.2		2.75	3.85	
Operating Weight kg		13288	12	2921	13718	
Breakout Force kN		125		119	96	
Static Tipping Load Straight		9410	ę	9780	8980	
Static Tipping Load Full Turn		7610	-	7980	8980	
Maximum Tractive Force kN		120		120	120	
Noise dB						
Operator Ear Level					82	
Pass by noise					106	
1 455 09 10150					100	

## Dimensions





Loader Dimension (Bucket Size)	2	2.5	3.5
Length A	7450	7450	7625
Width L	2810	2766	3016
Height C	3340	3340	3340
Wheel Base B	2880	2880	2880
Minimum Ground clearance D	440	440	440
Maximum Dump Height E	3005	2915	2750
Maximum Hinge Pin Height F	3840	3840	3840
Maximum Reach G	995	10850	1250
Dumping Angle J	-45°	-45°	-45°
Bucket roll back at ground level K	45°	45°	45°
Width outside of rear wheel M	2574	2574	2574
Steering angle	37°		
Minimum turning radius outside rear wheels (mm) O	5275	5275	5275
Horizontal crossing radius outside bucket (mm) P	6115	6115	6115
Gradeability H	30°		
Wheel Tread N	2054	2054	2054