

# Operation and Maintenance Manual DL420-7 Wheel Loader

#### Serial Number 10001 and Up

950106-02236EN

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# **Specification**

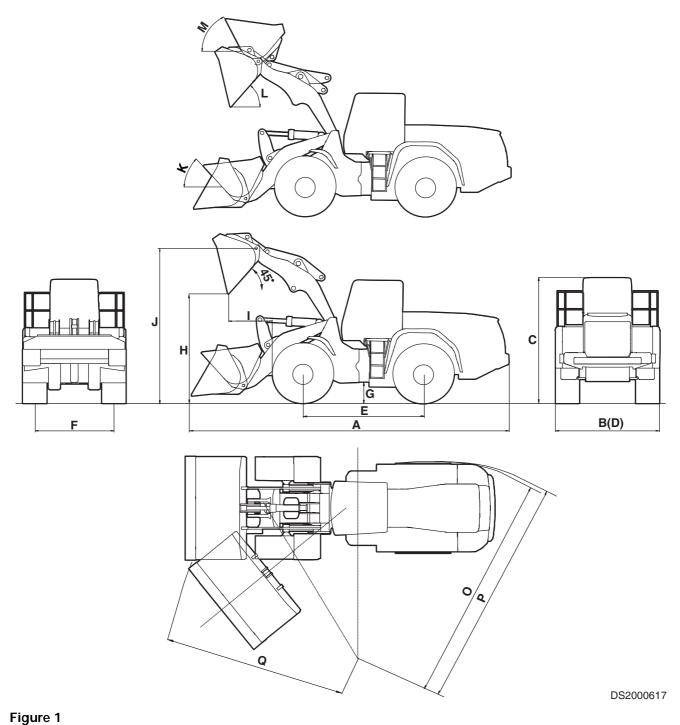
#### **General Specifications**

Item			Specification	
Standard Bucket Capacity (BOT / BOC)			4.3 m³ (5.6 yd³) / 4.5 m³ (5.9 yd³)	
Operating Weight			23,419 kg (51,630 lb)	
Engine	Emission		EU Stage V	
	Maker and Model		SCANIA / DC 13	
	Туре		4-Cycle Water Cooled, Turbocharge, Air to Air Intercooled Direct Injection	
	Injection System		Extra High-pressure Fuel Injection System, XPI	
	Rated Gross Power		257 kW (345 HP) @ 1,800 rpm (SAE J1995)	
Transmission	Туре		Full Automatic Power Shift	
Hansinission	Speeds		5 Forward, 3 Reverse	
Droke Cueteme	Travel Brakes		4 Wheel, Wet Disk	
Brake Systems	Parking Brake		SAHR (Spring-Applied Hydraulic-Released), Dry Disk Type	
	Travel Speed km/h (MPH)	Forward	7.2 (4.5) / 13.6 (8.5) / 19.7 (12.2) / 38.3 (23.8) / 40 (24.9)	
		Reverse	7.2 (4.5) / 13.6 (8.5) / 19.7 (12.2)	
	Steering Angle		±40°	
	Minimum Tire Turning Radius (Out Tire Edge)		6,385 mm (20' 11")	
Performance	Rated Operating Load		8,535 kg (18,816 lb)	
Performance	Maximum Breakout Force (Bucket)		183 kN (41,140 lb.f)	
	Arm Raise Time		6.0 ±0.5 Sec.	
	Arm Lowering Time		2.0 ±0.4 Sec.	
	Bucket Dump Time		2.7 ±0.3 Sec.	
	Maximum Gradeability		27° (51%)	

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## **Working Range and Dimensions**

Figure 1, illustrates exterior machine dimensions and working range of machine when it is equipped with a standard bucket.



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	Category	Dimension		
	Tire Size	26.5R25 (L3)		
Bucket		4.3 m³ (BOT)	4.5 m³ (BOC)	
А	Overall Length	9,138 mm (30' 0")	8,926 mm (29' 3")	
В	Overall Width	3,200 mm (10' 6")		
С	Overall Height	3,660 mm (12' 0")		
D	Bucket Width	3,200 mm (10' 6")		
E	Wheel Base	3,525 mm (11' 7")		
F	Tread	2,300 mm (7' 7")		
G	Ground Clearance	495 mm (1' 7")		
Н	Dump Height, at 45° (to BOT / BOC)	2,835 mm (9' 4")	2,990 mm (9' 10")	
I	Dump Reach, at 45° (to BOT/ BOC)	1,465 mm (4' 10")	1,320 mm (4' 4")	
J	Bucket Hinge Height	4,265 mm (14' 0")		
K	Max. Tilt Angle at Carry	48 °		
L	Max. Dump Angle at Fully Raised	45 °		
М	Max. Tilt Angle at Fully Raised	0		
Turning	g Radius			
0	Outer Tire Edge	6,385 mm (20' 11")		
Р	Counterweight Edge	6,385 mm (20' 11")		
Q	Bucket Edge	7,065 mm (23' 2")	7,000 mm (23' 0")	

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## **Working Capacities**

#### **Bucket Capacity**

Standard toothed bucket has a capacity of 4.3 m<sup>3</sup> (5.6 yd<sup>3</sup>).

#### Stability Data (EN - and ISO - Norms)

[Unit: kg (lb)]

Bucket Mount	Pin On	Remark	
Configuration	Bolt-on Tooth (4.3 m <sup>3</sup> )	* Base On 26.5R25 (L3)  ** This data is applicable on firm and level ground.	
Lifting Capacity @ Max. Height	10,980 (24,207)		
Static Tipping Load @ Max. Reach - Straight	19,351 (42,662)	*** Do not lift the load which exceeds legal "Rated Operating Load" when you work	
Static Tipping Load @ Max. Reach - Full Turn	17,071 (37,635)		
Rated Operating Load	8,535 (18,816)	with the specific tools.	

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