

DEVELON

Wheel Loader

DL550-7



Engine

Make	DEVELON
Model	Scania DC13
Number of cylinders	6
Displacement	12700 cm ³
Max. power (SAE J1995)	283 kW/380 hp @ 1800 rpm
Max. torque (SAE J1995)	2252 N·m @ 1200 rpm
Bore × stroke	130 mm × 160 mm
Starter	24 V / 6 kW
Batteries - Alternator	2 × 12 V - 28 V, 100 A
Air filter	Centrifugal pre-cleaner Top Spin™ Donaldson® with 2-stage dry filter
Cooling	Cooling package with automatic reversing fan to facilitate radiator cleaning. Automatic rotation speed adjustment according to temperature conditions.

Transmission

Type	5-speed auto-powershift with lock-up
Torque converter	Single stage / mono phase / fixed wheel stator
Speeds - forward 1 / 2 / 3 / 4 / 5	6.2 / 12.1 / 19.4 / 27.2 / 40
Speeds - reverse 1 / 2 / 3	6.1 / 12.0 / 27.2
Maximum traction	31.8 ton
Maximum gradeability	58% (30°)

Axles

Traction power	31.8 t
HDL lock ratio	100% (front)
Oscillation angle	+/- 12°
Tire size - standard	29.5 R25

Brakes

Braking distance	11.6m at 32.5 km/h
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Hydraulic System

Type	Load sensing – closed center hydraulic system
Main pump	Dual variable displacement axial pistons pumps
Maximum flow	480 l/min
Maximum pressure	250 bar
EMCV	Automatic functions for positioning the bucket ready to dig and a function for stopping the lift arm at the desired height.
Filtration	In the oil return to the tank, the fiber-glass filter has a filtering capability of 10 micron.

Hydraulic Cylinders

Cylinders	Quantity	Bore × rod diameter × stroke (mm)
Lift	2	190 × 105 × 890
Bucket	1	215 × 130 × 605

Lift Arm

Load cycle	
Lift arm – up	6.5 s
Lift arm – down	3.7 s
Bucket – dump	1.4 s

CAB

Safety standards	ROPS ISO 3471:2008 FOPS ISO 3449
Noise emissions	
Operator Sound Pressure Level (ISO 6396)	72 dB
Exterior Sound Power Level (ISO 6395)	109 dB

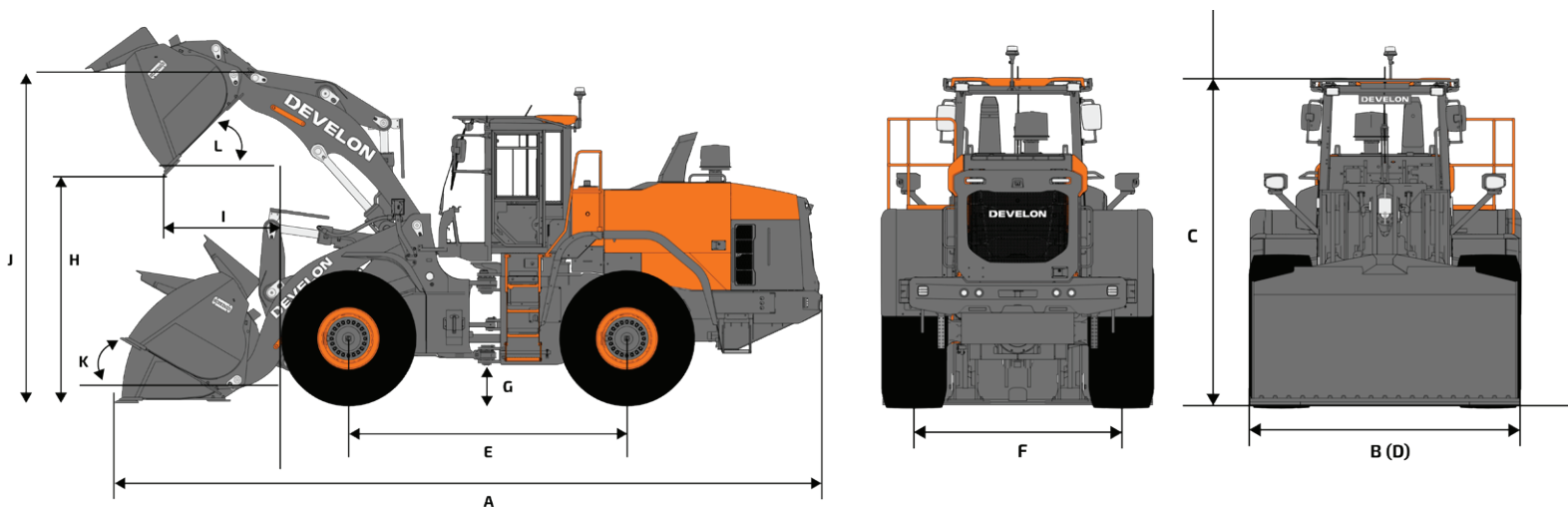
Fluid Capacities

Fuel tank	441 l
DEF (AdBlue®) tank	60 l
Cooling system (radiator)	54 l
Engine oil	45 l
Front axle	62.5 l
Rear axle	64 l
Hydraulic oil tank	242 l
Transmission oil	67 l

Dimensions

Pin-On		Unit	Performance bucket				Eco bucket		High lift
			General purpose		Material handling		General purpose		
Ground engaging tools			5.7 m³ TEETH	5.9 m³ BOCE	5.9 m³ TEETH	6.1 m³ BOCE	5.4 m³ TEETH	5.7 m³ BOCE	
	Capacity heaped ISO/SAE	m³	5.7	5.9	5.9	6.1	5.4	5.7	=
	Capacity at 110% fill factor	m³	6.3	6.5	6.5	6.7	5.9	6.3	=
B	Bucket width	mm	3400	3400	3400	3400	3404	3404	=
	Breakout force	kN	218	206	222	210	230	217	-6
	Static tipping load (straight)	kg	24770	24676	24736	24642	24830	24692	-5688
	Static tipping load (full turn - 40°)	kg	21840	21746	21806	21712	21897	21760	-5014
H	Dump height (at 45° - fully raised)	mm	3211	3334	3233	3356	3228	3390	+441
I	Dump reach (at 45°- fully raised)	mm	1571	1417	1551	1396	1504	1368	+225
	Digging depth	mm	32	60	32	60	69	57	+127
J	Height at bucket pivot point	mm	4806	4806	4806	4806	4806	4806	+433
	Max. tilt angle in carry position	°	44	44	43	43	43	43	+4
	Max. tilt angle fully raised	°	66	66	66	66	66	66	-5
K	Max. tilt angle on ground	°	41	41	40	39	40	39	+2
	Max. tilt angle at max. reach	°	67	67	67	67	67	67	-6
	Max. dump angle at max. reach	°	68	68	68	68	68	68	-3
	Max. dump angle on ground	°	60	61	60	61	60	61	+2
L	Max. dump angle fully raised	°	47	47	47	47	47	47	-1
	External radius - tire side	mm	6794	6794	6794	6794	6794	6794	=
	External radius - bucket edge	mm	7541	7641	7560	7638	7573	7651	+268
E	Wheel base	mm	3700	3700	3700	3700	3700	3700	=
D	Width at tires edge	mm	3199	3199	3199	3199	3199	3199	=
F	Tread	mm	2420	2420	2420	2420	2420	2420	=
G	Ground clearance (at 12° osc.)	mm	491	491	491	491	491	491	=
A	Overall length	mm	9912	9740	9882	9710	9885	9663	+573
C	Overall height	mm	3863	3863	3863	3863	3863	3863	=
	Operating weight	kg	33241	33336	33285	33380	33209	33348	+359

All capacities according ISO 7546, with straight blade (measure at the tip of bucket teeth or cutting edge), tires 29.5 R25 (L5), base EU configuration.



Standard & Optional Equipment

■ Standard ● Optional

Engine

Exhaust aftertreatment (DOC + DPF + SCR)	■
Auto idle function	■
Auto shutdown function	■
Variable Geometric Turbocharger (VGT)	■
Air pre-cleaner (centrifugal)	■
Engine management	■
Fan – reversible, variable speed, with automatic function	■

Powertrain

5-gear powershift transmission	■
Torque convertor with Lock-up	■
Transmission mode managment	■
I.C.C.O. (Intelligent Clutch Cut-Off)	■
Axle differential – Hydraulic Differential Lock (HDL)	■
Axles oil cooler	●
Higher category axles - Hydraulic Differential Lock (HDL)	●

Hydraulic

Load sensing hydraulic system, variable displacement pump	■
EMCV (Electric main control valve)	■
3rd spool valve	■

Lift Arm

Standard lift arm, Z-bar kinematic	■
Hydraulic lift arm suspension – Load Isolation System (LIS)	■
Smooth end position bucket & arm	■
Position memories	■
Automatic bucket position "return to dig"	■
High lift arm, Z-bar kinematic	●

Cab & Operator comfort

ROPS (ISO 3471:2008)/FOPS (ISO 3449) pressurized cab	■
Grammer seat with vertical and horizontal low-frequency suspension, pneumatic lumbar support, heating, 3-point safety belt	■
Joystick lever with FNR and thumbwheel roller integrated to the seat's right armrest	■
Electric joystick steering on left armrest	■
DEVELON Smart Key	■
Door remote opening	■
DEVELON Smart Touch – 8" touch screen, all-in-one	■
DEVELON Smart Guidance System	■
Rear-view mirrors – heated	■
MyDEVELON Fleet Management Web (telematic system)	■
12V socket	■
USB socket	■
Fingertip control	●
Rear-view mirrors – heated, electric adjustment	●
Grammer seat with vertical and horizontal low-frequency suspension, pneumatic lumbar support, heating and ventilation, 3-point safety belt	●

Safety

Safety belt alarm	■
Rear-view camera	■
Full handrails and maintenance platforms	■
Strobe reversing light	■
LED working lights on cab (4× front + 4× rear)	■
LED working lights on cab (6× front + 6× rear)	●
DEVELON Transparent Bucket	●
DEVELON Smart View	●

Other

Automatic lubrication system	■
29.5 R25 (L5)	■
29.5 R25 (L4)	●
29.5 R25 (L3)	●
Additional counterweight	●
DEVELON Smart Load	●

List of Attachments*

Eco. general purpose bucket - 5.7 m³, with bolt-on edge, for direct mount, width 3.40 m	●
Eco. general purpose bucket - 5.4 m³, with teeth, for direct mount, width 3.40 m	●
Performance general purpose bucket - 5.9 m³, bolt-on edge, for direct mount, width 3.40 m	●
Performance general purpose bucket - 5.7 m³, one strip teeth ITR, for direct mount, width 3.40 m	●
Performance general purpose bucket - 5.7 m³, bolt-on edge, for LARGE quick coupler, width 3.40 m	●
Quick coupler, LARGE	●

*Visit our [WHEEL LOADER BUCKET CONFIGURATOR](#) to customize your bucket for your application

Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual DEVELON equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors. Pictures of DEVELON units may show other than standard equipment.

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DEVELON

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