

DEVELON

Wheel Loader

DL480-7



Engine

Make	DEVELON
Model	Scania DC13
Number of cylinders	6
Displacement	12700 cm ³
Max. power (SAE J1995)	257 kW/345 hp @ 1800 rpm
Max. torque (SAE J1995)	2196 N·m @ 1100 rpm
Bore × stroke	130 mm × 160 mm
Starter	24 V / 6 kW
Batteries - Alternator	2 × 12 V, 200 Ah - 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.
Radiator	Wide fin radiator - Intercooler/Hydraulic oil cooler/Transmission oil cooler + A/C condenser

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 / 11.7 / 18.4 / 26.5 / 40
Speeds - reverse 1 / 2 / 3	6.2 / 11.7 / 26.5
Maximum traction	24.2 ton
Maximum gradeability	51% (27°)

Axles

LSD lock ratio	30% (front & rear)
HDL lock ratio	100% (front)
Oscillation angle	+/- 12°
Tire size - standard	26.5R25

Brakes

Braking distance	10.2m at 33 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	476 l/min
Maximum pressure	315 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	170 × 105 × 789
Bucket	1	190 × 120 × 590

Lift Arm

Load cycle	
Lift arm – up	6.3 s
Lift arm – down	2.7 s
Bucket – dump	1.7 s

CAB

Safety standards	ROPS ISO 3471:2008 FOPS ISO 3449
Noise emissions	
Operator Sound Pressure Level (ISO 6396)	71 dB
Exterior Sound Power Level (ISO 6395)	108 dB

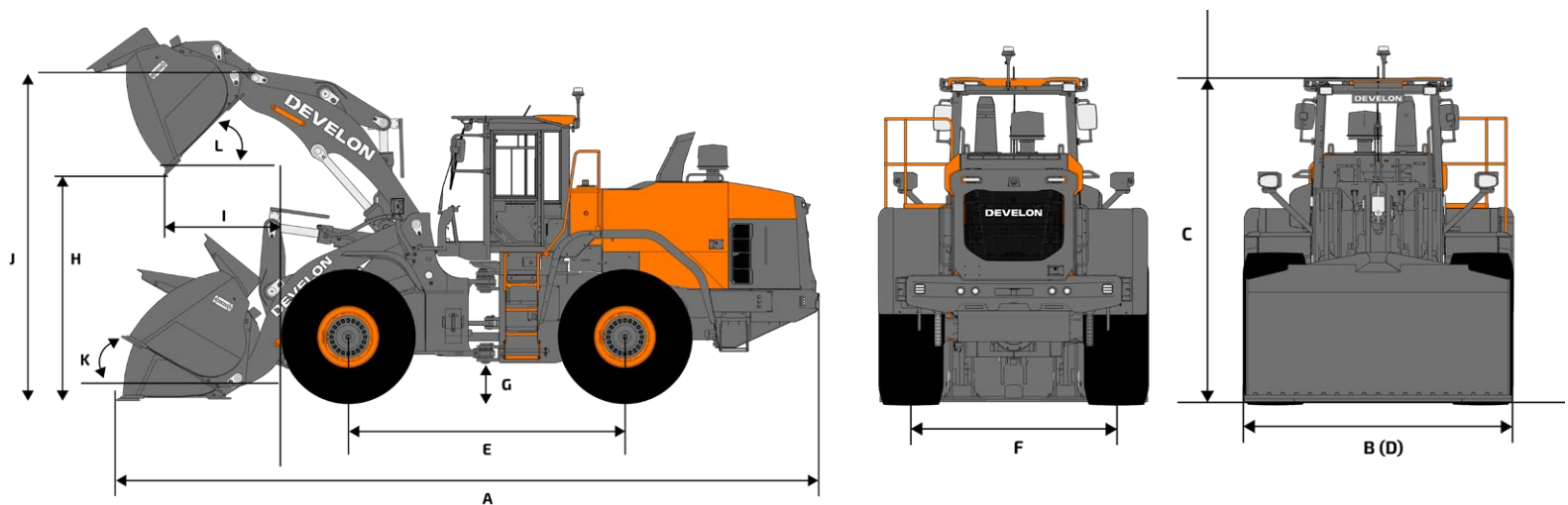
Fluid Capacities

Fuel tank	332 l
DEF (AdBlue®) tank	60 l
Cooling system (radiator)	52 l
Engine oil	45 l
Front axle	62 l
Rear axle	42 l
Hydraulic system	226 l
Hydraulic oil tank	126 l
Transmission oil	60 l

Dimensions

Pin-On		Unit	Performance bucket				Eco bucket		High lift
			General purpose		Material handling		General purpose		
Ground engaging tools			4.8 m³ BOCE	5.0 m³ BOCE	4.8 m³ BOT	5.0 m³ BOCE	4.8 m³ BOT	5.0 m³ BOCE	
			straight sides	straight sides	convex sides	convex sides	straight sides	straight sides	
Configuration									
	Capacity heaped ISO/SAE	m³	4.8	5.0	4.8	5.0	4.8	5.0	=
	Capacity at 110% fill factor	m³	5.3	5.5	5.3	5.5	5.3	5.5	=
B	Bucket width	mm	3300	3300	3300	3300	3300	3300	=
	Breakout force	kN	221	209	231	218	224	211	-9
	Static tipping load (straight)	kg	20743	20650	20769	20675	20717	20591	-4684
	Static tipping load (full turn - 40°)	kg	18309	18215	18331	18238	18282	18155	-4139
H	Dump height (at 45° - fully raised)	mm	3045	3165	3088	3208	3017	3178	+487
I	Dump reach (at 45°- fully raised)	mm	1494	1338	1452	1296	1469	1330	+201
	Digging depth	mm	58	86	58	86	95	83	+167
J	Height at bucket pivot point	mm	4519	4519	4519	4519	4519	4519	+487
	Max. tilt angle in carry position	°	48	48	48	48	49	49	+3
	Max. tilt angle fully raised	°	67	67	67	67	67	67	-4
K	Max. tilt angle on ground	°	19	19	19	19	20	19	-3
	Max. tilt angle at max. reach	°	65	65	65	65	65	65	-4
	Max. dump angle at max. reach	°	70	70	70	70	70	70	-6
	Max. dump angle on ground	°	64	63	64	63	64	63	-3
L	Max. dump angle fully raised	°	46	46	46	46	46	46	=
	External radius - tire side	mm	6483	6483	6483	6483	6483	6483	=
	External radius - bucket edge	mm	7338	7260	7310	7234	7352	7253	+296
E	Wheel base	mm	3550	3550	3550	3550	3550	3550	=
D	Width at tires edge	mm	2982	2982	2982	2982	2982	2982	=
F	Tread	mm	2300	2300	2300	2300	2300	2300	=
G	Ground clearance (at 12° osc.)	mm	455	455	455	455	455	455	=
A	Overall length	mm	9423	9250	9363	9190	9454	9233	+602
C	Overall height	mm	3635	3635	3635	3635	3635	3635	=
	Operating weight	kg	26409	26504	26410	26505	26444	26573	+265

All capacities according ISO 7546, with straight blade (measure at the tip of bucket teeth or cutting edge), tires 26.5 R25 (L3), 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)	■
Situation Awareness Technology 2	■
Fan – reversible, variable speed, with automatic function	■
Wide fin radiators	■

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)	■
Axle differential – Limited Slip Differential (LSD)	●
Axles oil cooler	●

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	■
26.5R25 (L3)	■
26.5R25 (L4)	●
26.5R25 (L5)	●
775/65 R29	●
Additional counterweight	●
DEVELON Smart Load	●

List of Attachments*

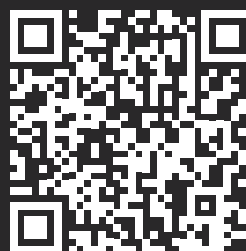
Eco. general purpose bucket - 4.8 m³, with teeth, for direct mount, width 3.30 m	●
Eco. general purpose bucket - 5.0 m³, bolt-on edge, for direct mount, width 3.30 m	●
Performance general purpose bucket - 4.8 m³, one strip teeth ITR, for direct mount, width 3.30 m	●
Performance general purpose bucket - 4.9 m³, bolt-on edge, for direct mount, width 3.30 m	●
Performance general purpose bucket - 4.6 m³, bolt-on edge, for LARGE quick coupler, width 3.30 m	●
Quick coupler, LARGE	●
Pallet forks - 9 t (FEM class 4), 1.5 m, for LARGE quick coupler	●

*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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