

DEVELON

Wheel Loader

DL580-7



Engine

Make	DEVELON
Model	Scania DC13
Number of cylinders	6
Displacement	12700 cm ³
Max. power (SAE J1995)	294 kW/400 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	6.4 / 12.4 / 21.7 / 27.2 / 40
Speeds - reverse 1 / 2 / 3	6 / 12.0 / 27.2
Maximum traction	32.2 ton
Maximum gradeability	58% (30°)

Axles

Traction power	32.2 t
HDL lock ratio	100% (front)
Oscillation angle	+/- 12°
Tire size - standard	29.5 R25

Brakes

Braking distance	11.5m at 33.5 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	529 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 × 955
Bucket	1	240 × 160 × 605

Lift Arm

Load cycle	
Lift arm – up	6.4 s
Lift arm – down	3.8 s
Bucket – dump	1.5 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

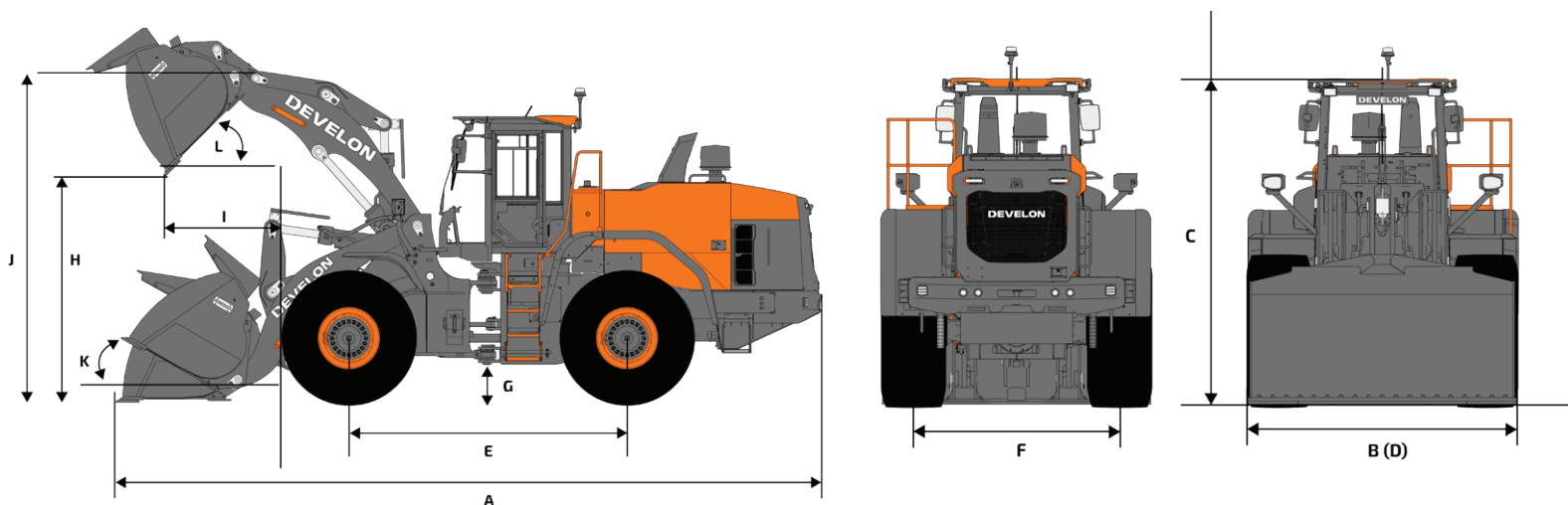
Fluid Capacities

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	
			General purpose		Material handling		General purpose	
Ground engaging tools			6.4 m ³ TEETH	6.6 m ³ BOCE	6.4 m ³ TEETH	6.6 m ³ BOCE	6.0 m ³ TEETH	6.2 m ³ BOCE
	Capacity heaped ISO/SAE	m ³	6.4	6.6	6.4	6.6	6.0	6.2
	Capacity at 110% fill factor	m ³	7.0	7.3	7.0	7.3	6.6	6.8
B	Bucket width	mm	3400	3400	3400	3400	3404	3404
	Breakout force	kN	252	239	264	250	264	250
	Static tipping load (straight)	kg	27110	27016	27174	27080	27355	27217
	Static tipping load (full turn - 40°)	kg	24073	23979	24135	24041	24315	24177
H	Dump height (at 45° - fully raised)	mm	3414	3523	3461	3570	3422	3572
I	Dump reach (at 45° - fully raised)	mm	1587	1423	1535	1371	1522	1373
	Digging depth	mm	45	17	45	17	7	20
J	Height at bucket pivot point	mm	4996	4996	4996	4996	4996	4996
	Max. tilt angle in carry position	°	44	44	43	43	43	43
	Max. tilt angle fully raised	°	65	65	65	65	65	65
K	Max. tilt angle on ground	°	41	41	40	39	40	39
	Max. tilt angle at max. reach	°	67	67	67	67	67	67
	Max. dump angle at max. reach	°	68	68	68	68	68	68
	Max. dump angle on ground	°	60	61	61	61	60	61
L	Max. dump angle fully raised	°	42	42	42	42	42	42
	External radius - tire side	mm	6794	6794	6794	6794	6794	6794
	External radius - bucket edge	mm	7596	7699	7628	7708	7596	7675
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	10082	9910	10012	9840	10059	9838
C	Overall height	mm	3863	3863	3863	3863	3863	3863
	Operating weight	kg	34531	34626	34488	34583	34311	34450

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 management	■
I.C.C.O. (Intelligent Clutch Cut-Off)	■
Axle differential – Hydraulic Differential Lock (HDL)	■
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"	■

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 - 6.2 m ³ , with bolt-on edge, for direct mount, width 3.40 m	●
Eco. general purpose bucket - 6.0 m ³ , with teeth, for direct mount, width 3.40 m	●
Performance general purpose bucket - 6.6 m ³ , bolt-on edge, for direct mount, width 3.40 m	●
Performance general purpose bucket - 6.4 m ³ , one strip teeth ITR, for direct mount, width 3.40 m	●
Performance general purpose bucket - 6.2 m ³ , 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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