DEVELON

Wheel Loader

DL320-7



Engine

Make	DEVELON
Model	Develon DL08
Number of cylinders	6
Displacement	7640 cm^3
Max. power (SAE J1995)	202 kW/271 hp @ 1800 rpm
Max. torque (SAE J1995)	1275 N·m @ 1300 rpm
Bore × stroke	108 mm × 139 mm
Starter	24 V / 6 kW
Batteries - Alternator	2 × 12 V - 24 V, 80 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	6.1 / 11.5 / 17.6 / 27.4 / 40.0
Speeds - reverse 1 / 2 / 3	6.5 / 12.1 / 28.8
Maximum traction	18.7 ton
Maximum gradeability	51% (27°)

Axles

LSD lock ratio	30% (front & rear)
HDL lock ratio	100% (front)
Oscillation angle	+/- 12°
Tire size - standard	23.5 R25

Brakes

Braking distance	9.0 at 35 km/h

Hydraulic System

Type	Load sensing – closed center hydraulic system
Main pump	Dual variable displacement axial pistons pumps
Maximum flow	290 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	150 × 95 × 800
Bucket	1	180 × 105 × 535

Lift Arm

Load cycle	
Lift arm – up	5.8 s
Lift arm – down	2.9 s
Bucket – dump	1.6 s

CAB

Safety standards	ROPS ISO 3471:2008
	FOPS ISO 3449
Noise emissions	
Operator Sound Pressure Level (ISO 6396)	67 dB
Exterior Sound Power Level (ISO 6395)	105 dB

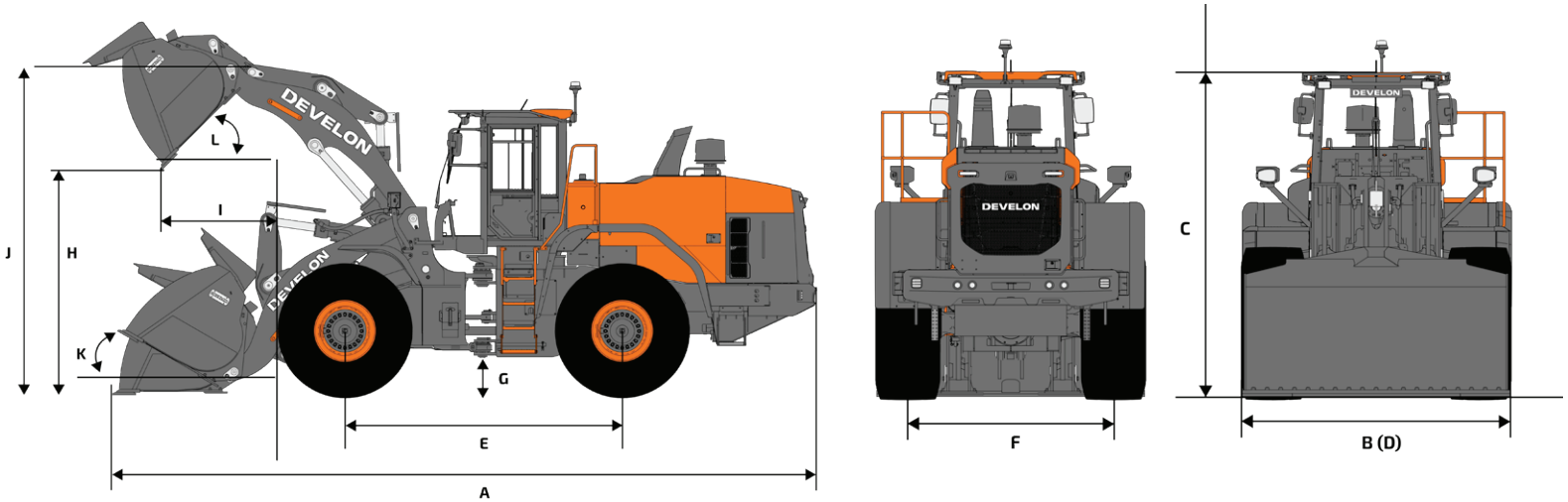
Fluid Capacities

Fuel tank	291 l
DEF (AdBlue®) tank	62 l
Cooling system (radiator)	45 l
Engine oil	35 l
Front axle	35 l
Rear axle	35 l
Transmission oil	42 l
Hydraulic system	173 l
Hydraulik oil tank	117 l

Dimensions

Pin-On		Unit	Performance bucket				Eco bucket		High lift
			General purpose		Material handling		General purpose		
Ground engaging tools			3.7 m3 TEETH	3.8 m3 BOCE	3.7 m3 TEETH	3.8 m3 BOCE	3.3 m3 TEETH	3.5 m3 BOCE	
	Capacity heaped ISO/SAE	m^3	3.7	3.8	3.7	3.8	3.3	3.5	=
	Capacity at 110% fill factor	m^3	4.1	4.2	4.1	4.2	3.6	3.9	=
B	Bucket width	mm	2910	2910	2910	2910	3000	3000	=
	Breakout force	kN	143	137	151	145	170	157	-3
	Static tipping load (straight)	kg	15488	15397	15552	15461	15948	15813	-3690
	Static tipping load (full turn - 40°)	kg	13640	13549	13697	13605	14079	13943	-3258
H	Dump height (at 45° - fully raised)	mm	2837	2933	2887	2983	2887	3039	+531
I	Dump reach (at 45°- fully raised)	mm	1427	1341	1378	1292	1360	1227	+212
	Digging depth	mm	83	77	83	77	96	84	+143
J	Height at bucket pivot point	mm	4175	4175	4175	4175	4175	4175	+525
	Max. tilt angle in carry position	°	48	48	48	48	49	49	+2
	Max. tilt angle fully raised	°	57	57	57	57	57	57	-3
K	Max. tilt angle on ground	°	43	43	43	43	44	44	-26
	Max. tilt angle at max. reach	°	58	58	58	58	58	58	-4
	Max. dump angle at max. reach	°	83	83	83	83	83	83	+4
	Max. dump angle on ground	°	79	78	78	78	78	77	+5
L	Max. dump angle fully raised	°	45	45	45	45	45	45	=
	External radius - tire side	mm	6009	6009	6009	6009	6009	6009	=
	External radius - bucket edge	mm	6741	6681	6709	6650	6748	6656	+307
E	Wheel base	mm	3300	3300	3300	3300	3300	3300	=
D	Width at tires edge	mm	2845	2845	2845	2845	2845	2845	=
F	Tread	mm	2150	2150	2150	2150	2150	2150	=
G	Ground clearance (at 12° osc.)	mm	400	400	400	400	400	400	=
A	Overall length	mm	8602	8470	8532	8400	8530	8319	+635
C	Overall height	mm	3511	3511	3511	3511	3511	3511	=
	Operating weight	kg	19774	19869	19774	19869	19493	19634	+796

All capacities according ISO 7546, with straight blade (measure at the tip of bucket teeth or cutting edge), tires 23.5 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 – Limited Slip Differential (LSD)	■
Axle differential – 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	■
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	■
Electric steering joystick on left armrest	●
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)	■
Transparent Bucket	●
DEVELON Smart View	●
LED working lights on cab (6× front + 6× rear)	●

Other

Automatic lubrication system	■
23.5R25 (L3)	■
23.5R25 (L4)	●
23.5R25 (L5)	●
750/65 R25	●
750/65 R26	●
Additional counterweight	●
DEVELON Smart Load	●

List of Attachments*

Eco. general purpose bucket - 3.3 m^3, with teeth, for direct mount, width 3.00 m	●
Eco. general purpose bucket - 3.5 m^3, bolt-on edge, for direct mount, width 3.00 m	●
Performance general purpose bucket - 3.4 m^3, one strip teeth ITR, for direct mount, width 2.90 m	●
Performance general purpose bucket - 3.7 m^3, one strip teeth ITR, for direct mount, width 2.90 m	●
Performance general purpose bucket - 3.8 m^3, bolt-on edge, for direct mount, width 2.90 m	●
Performance general purpose bucket - 3.5 m^3, bolt-on edge, for ISO quick coupler, width 2.90 m	●

*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

A brand of HD Hyundai Infracore.

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