

DEVELON

Wheel Loader

DL280-7



Engine

Make	DEVELON
Model	Develon DL06
Number of cylinders	6
Max. power (SAE J1995)	141 kW/190 hp @ 2000 rpm
Max. torque (SAE J1995)	902 N·m @ 1400 rpm
Displacement	5900 cm ³
Bore × stroke	100 mm × 125 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	4-speed auto-powershift / 5-speed auto-powershift with lock-up
Speeds - forward 1 / 2 / 3 / 4	6.3 / 12.4 / 23.1 / 35.6
Speeds - forward 1 / 2 / 3 / 4 / 5	6.6 / 11.7 / 17.9 / 27.8 / 40.0
Speeds - reverse 1 / 2 / 3	7.0 / 12.3 / 29.2
Maximum traction	13.9 ton
Maximum gradeability	30° (58%)

Axles

LSD lock ratio	30% (front & rear)
HDL lock ratio	100% (front)
Oscillation angle	+/- 12°
Tire size - standard	20.5R25

Brakes

Braking distance	7.8 at 32 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	246 l/min
Maximum pressure	260 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	135 × 80 × 790
Bucket	1	160 × 95 × 510

Lift Arm

Load cycle	
Lift arm – up	5.4 s
Lift arm – down	3.2 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)	104 dB

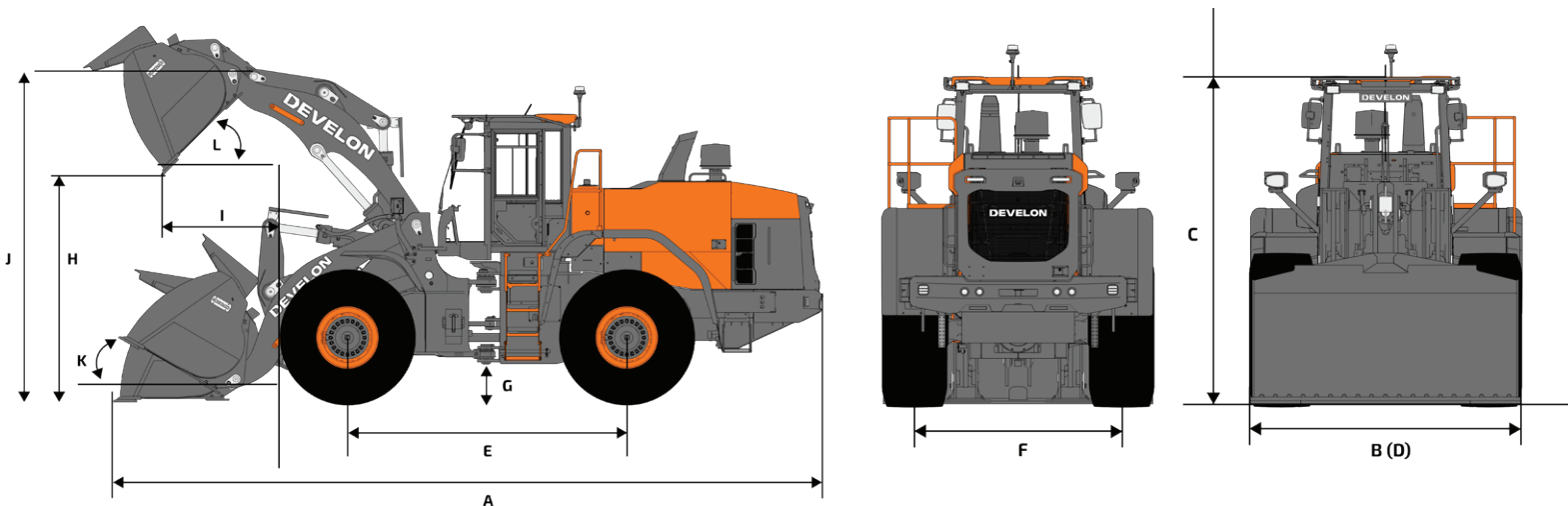
Fluid Capacities

Fuel tank	235 l
DEF (AdBlue®) tank	30 l
Cooling system (radiator)	34 l
Engine oil	24.5 l
Front axle	35 l
Rear axle	35 l
Hydraulic system	120 l
Hydraulic oil tank	85 l
Transmission oil	37 l

Dimensions

Pin-On		Unit	Performance Bucket				Eco bucket		High lift
			General purpose		Material handling		General purpose		
Ground engaging tools			2.8 m ³ TEETH	2.9 m ³ BOCE	2.8 m ³ TEETH	2.9 m ³ BOCE	2.7 m ³ TEETH	2.8 m ³ BOCE	
	Capacity heaped ISO/SAE	m ³	2.8	2.9	2.8	2.9	2.7	2.8	=
	Capacity at 110% fill factor	m ³	3.1	3.2	3.1	3.2	3	3.1	=
B	Bucket width	mm	2550	2550	2550	2550	2740	2740	=
	Breakout force	kN	138	131	147	139	150	140	-8
	Static tipping load (straight)	kg	12156	12104	12303	12252	12505	12247	-2243
	Static tipping load (full turn - 40°)	kg	10680	10628	10822	10771	11023	10765	-1977
H	Dump height (at 45° - fully raised)	mm	2688	2771	2734	2817	2752	2830	+418
I	Dump reach (at 45° - fully raised)	mm	1302	1225	1255	1178	1251	1179	-13
	Digging depth	mm	131	125	131	125	121	115	+99
J	Height at bucket pivot point	mm	3934	3934	3934	3934	3934	3934	+430
	Max. tilt angle in carry position	°	47	47	47	47	48	48	-1
	Max. tilt angle fully raised	°	62	62	62	62	62	62	-4
K	Max. tilt angle on ground	°	37	37	37	37	37	37	-21
	Max. tilt angle at max. reach	°	61	61	61	61	61	61	-4
	Max. dump angle at max. reach	°	66	66	66	66	66	66	+2
	Max. dump angle on ground	°	58	57	58	57	58	57	+6
L	Max. dump angle fully raised	°	44	44	44	44	44	44	+1
	External radius - tire side	mm	5557	5557	5557	5557	5557	5557	=
	External radius - bucket edge	mm	6187	6133	6157	6104	6231	6182	+196
E	Wheel base	mm	3050	3050	3050	3050	3050	3050	=
D	Width at tires edge	mm	2550	2550	2550	2550	2550	2550	=
F	Tread	mm	2040	2040	2040	2040	2040	2040	=
G	Ground clearance (at 12° osc.)	mm	400	400	400	400	400	400	=
A	Overall length	mm	7869	7751	7804	7686	7780	7669	+413
C	Overall height	mm	3360	3360	3360	3360	3360	3360	=
	Operating weight	kg	15868	15921	15759	15812	15562	15828	+154

All capacities according ISO 7546, with straight blade (measure at the tip of bucket teeth or cutting edge), tires 20.5R25 (L3), base EU configuration.



Standard & Optional Equipment

■ Standard ● Optional

Engine

Exhaust aftertreatment (DOC + DPF + SCR + EGR)	■
Auto idle function	■
Auto shutdown function	■
Air pre-cleaner (centrifugal)	■
Engine management	■
Fan – reversible, variable speed, with automatic function	■
Wide fin radiators	■

Powertrain

4-gear powershift transmission with torque convertor	■
Transmission mode management	■
I.C.C.O. (Intelligent Clutch Cut-Off)	■
Axle differential – Limited Slip Differential (LSD)	■
5-gear powershift transmission with torque convertor with lock-up	●
Axle differential – Hydraulic Differential Lock (HDL)	●
High category axle – 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"	■
Parallel lift (electro-hydraulic compensation)	■
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	■
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	●
Electric steering joystick on left armrest	●

Safety

Safety belt alarm	■
Rear-view camera	■
Hand rails and maintenance platforms	■
Strobe reversing light	■
LED working lights on cab (2× front + 2× rear)	■
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

20.5R25 (L3)	■
20.5R25 (L4)	●
20.5R25 (L5)	●
23.5R25 (L3)	●
620/75 R26	●
620/75 R26	●
750/65 R26	●
Automatic lubrication system	●
Additional counterweight	●
DEVELON Smart Load	●

List of Attachments*

Eco. general purpose bucket - 2.7 m ³ , with teeth, for direct mount, width 2.74 m	●
Eco. general purpose bucket - 2.8 m ³ , bolt-on edge, for direct mount, width 2.74 m	●
Performance general purpose bucket - 2.8 m ³ , one strip teeth ITR, for direct mount, width 2.55 m	●
Performance general purpose bucket - 2.9 m ³ , bolt-on edge, for direct mount, width 2.55 m	●
Performance general purpose bucket - 2.6 m ³ , one strip teeth ITR, for direct mount, width 2.75 m	●
Performance general purpose bucket - 2.9 m ³ , one strip teeth ITR, for direct mount, width 2.75 m	●
Performance general purpose bucket - 3.0 m ³ , bolt-on edge, for direct mount, width 2.75 m	●
Performance general purpose bucket - 2.7 m ³ , bolt-on edge, for ISO quick coupler, width 2.55 m	●
Performance general purpose bucket - 2.7 m ³ , bolt-on edge, for ISO quick coupler, width 2.75 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

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