

# DEVELON

## Wheel Loader

# DL220-7



### Engine

Make	DEVELON
Model	Develon DL06
Number of cylinders	6
Displacement	5.9 l
Max. power (SAE J1995)	119 kW/160 hp at 2100 rpm
Max. torque (SAE J1995)	736 Nm at 1400 rpm
Bore × stroke	100 × 125 mm
Starter	24 V - 6 kW
Batteries - Alternator	2 x 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 autopowershift with lock-up (as option)
Speeds - forward 1 / 2 / 3 / 4	7.0 / 12.8 / 24.1 / 38.9
Speeds - forward 1 / 2 / 3 / 4 / 5	6.5 / 13.0 / 20.0 / 29.9 / 40.0
Speeds - reverse 1 / 2 / 3	7.4 / 13.4 / 25.3
Maximum traction (4-speed/5-speed)	11.2 t / 11.3 t
Maximum gradeability	58% (30°)

### Axles

LSD lock ratio	30% (front & rear)
HDL lock ratio	100% (front)
Oscillation angle	+/- 11°
Tire size - standard	20.5R25

### Brakes

Braking distance	6.1 m 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	155 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 fibre glass filter has a filtering capability of 10 micron.

### Hydraulic Cylinders

Cylinders	Quantity	Bore × rod diameter × stroke (mm)
Lift	2	115 × 75 × 790
Bucket	1	130 × 80 × 515

### Lift Arm

Load cycle	
Lift arm – up	6.2 s
Lift arm – down	3.7 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

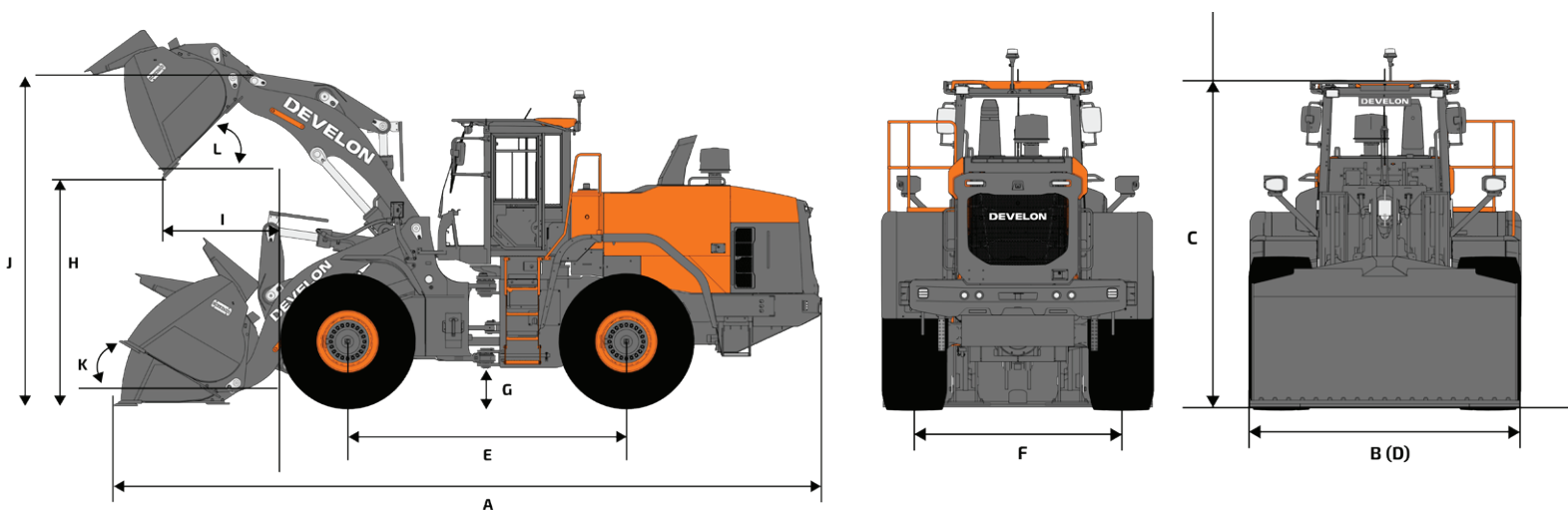
### Fluid Capacities

Fuel tank	235 l
DEF (AdBlue®) tank	30 l
Cooling system (radiator)	34 l
Engine oil	24.5 l
Front axle	23 l
Rear axle	23 l
Transmission oil	32 l
Hydraulic system	120 l
Hydraulik tank	85 l

# Dimensions

Pin-On		Unit	Eco bucket		Performance bucket			High lift	
			General purpose		General purpose		Material handling		
Ground engaging tools			2.2 m <sup>3</sup> TEETH	2.3 m <sup>3</sup> BOCE	2.5 m <sup>3</sup> BOCE	2.4 m <sup>3</sup> TEETH	2.5 m <sup>3</sup> BOCE		2.4 m <sup>3</sup> TEETH
	Capacity heaped ISO/SAE	m <sup>3</sup>	2.2	2.3	2.5	2.4	2.5	2.4	=
	Capacity at 110% fill factor	m <sup>3</sup>	2.4	2.5	2.8	2.6	2.8	2.6	=
<b>B</b>	Bucket width	mm	2550	2550	2550	2550	2550	2550	=
	Breakout force	kN	103	97	91	96	96	102	=
	Static tipping load (straight)	kg	10709	10652	10390	10440	10472	10557	-1704
	Static tipping load (full turn - 40°)	kg	9440	9383	9125	9175	9204	9288	-1502
<b>H</b>	Dump height (at 45° - fully raised)	mm	2710	2784	2741	2664	2779	2702	+481
<b>I</b>	Dump reach (at 45° - fully raised)	mm	1068	1010	1042	1144	1009	1110	+10
	Digging depth	mm	67	61	66	42	66	42	+66
<b>J</b>	Height at bucket pivot point	mm	3853	3853	3853	3853	3853	3853	+449
	Max. tilt angle in carry position	°	47	47	45	45	45	45	+3
	Max. tilt angle fully raised	°	59	59	59	59	59	59	+2
<b>K</b>	Max. tilt angle on ground	°	43	43	41	40	41	40	+1
	Max. tilt angle at max. reach	°	59	59	59	59	59	59	-1
<b>L</b>	Max. dump angle fully raised	°	48	48	48	48	48	48	-2
	Max. dump angle at max. reach	°	65	65	65	65	65	65	-5
	Max. dump angle on ground	°	64	64	64	64	64	64	-1
	External radius - bucket edge	mm	6058	6016	6040	6085	6019	6063	+179
	External radius - tire side	mm	5502	5502	5502	5502	5502	5502	=
<b>E</b>	Wheel base	mm	3050	3050	3050	3050	3050	3050	=
<b>D</b>	Width at tires edge	mm	2539	2539	2539	2539	2539	2539	=
<b>F</b>	Tread	mm	1930	1930	1930	1930	1930	1930	=
<b>G</b>	Ground clearance (at 12° osc.)	mm	434	434	434	434	434	434	=
<b>A</b>	Overall length	mm	7557	7458	7515	7618	7465	7568	+393
<b>C</b>	Overall height	mm	3313	3313	3313	3313	3313	3313	=
	Operating weight	kg	13140	13198	13430	13379	13377	13291	+166

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



# Standard & Optional Equipment

■ Standard    ● Optional

## Engine

Exhaust aftertreatment (DOC + DPF + SCR)	■
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)	●

## Hydraulic

Load sensing hydraulic system, variable displacement pump	■
EMCV (Electric main control valve)	■
3rd spool valve	■
4th 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	●

## Safety

Safety belt alarm	■
Rear-view camera	■
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)	●
Electric steering joystick on left armrest	●
DEVELON Transparent Bucket	●
DEVELON Smart View	●

## Other

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

## List of Attachments\*

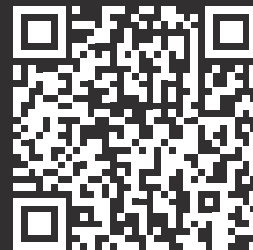
Eco. general purpose bucket - 2.2 m <sup>3</sup> , with teeth, for direct mount, width 2.55 m	●
Eco. general purpose bucket- 2.3 m <sup>3</sup> , bolt-on edge, for direct mount, width 2.55 m	●
Performance general purpose bucket - 2.4 m <sup>3</sup> , one strip teeth ITR, for direct mount, width 2.55 m	●
Performance general purpose bucket- 2.5 m <sup>3</sup> , bolt-on edge, for direct mount, width 2.55 m	●
Performance general purpose bucket- 2.4 m <sup>3</sup> , one strip teeth ITR, for direct mount, width 2.75 m	●
Performance general purpose bucket- 2.5 m <sup>3</sup> , bolt-on edge, for direct mount, width 2.75 m	●
Performance general purpose bucket - 2.3 m <sup>3</sup> , bolt-on edge, for ISO quick coupler, width 2.55 m	●
Performance general purpose bucket - 2.3 m <sup>3</sup> , bolt-on edge, for ISO quick coupler, width 2.75 m	●
Quick coupler, ISO	●
Pallet forks - 5 t (FEM class 4), 1.5 m, for ISO 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

A brand of HD Hyundai Infracore.

HD Hyundai Infracore Europe s.r.o.  
IBC - Pobrezni 620/3,  
18600 Praha 8 - Karlin, Czechia

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