# **DEVELON**

### Wheel Loader

DL280-7



### **Engine**

Make	DEVELON
Model	DL06
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	189.1 hp (141 kW) @ 2000 rpm
Rated power, net (hp per SAE J1995)	189.1 hp (141 kW) @ 2000 rpm
Max. torque, net (SAE J1995)	665.28 lbf.·ft. (902 Nm) @ 1400 rpm
Displacement	360 in. <sup>3</sup> (5.9 L)
Bore and stroke	3.9 x 4.9 in. (100 mm x 125 mm)
Starter	24 V, 8.6 hp (6.0 kW)
Battery (qty 2)	2 x 12 V, 100 AH
Alternator	24 V, 80 amp
Air cleaner	Double elements

### **Hydraulics**

Main pumps	265 gpm (246 L/min.)
System pressure (work)	3843 psi (265 bar)
System pressure (steer)	2830 psi (195 bar)
Boom speed – up	5.4 sec
Boom speed – down	3.2 sec
Bucket speed – crowd	1.7 sec
Bucket speed – dump	1.5 sec

### **Travel Speeds**

Travel speed – forward (4)	3.91 / 7.7 / 14.4 / 22.12 mph (6.3 / 12.4 / 23.1 / 35.6 km/h)
<b>Travel speed – forward (5)</b> (US15 package only)	4.1 / 7.3 / 11.1 / 17.8 / 24.9 mph (6.6 / 11.7 / 17.9 / 28.7 / 40 km/h)
Travel speed – reverse (3)	4.1 / 8.1 / 15.0 mph (6.6 / 13.0 / 24.2 km/h)
Max. grade	58% (30°)

### **Environment**

Sound level (2000/14/EC)	104 dB(A)
Cabin sound level (ISO 6396)	71 dB(A)

### **Refill Capacities**

Fuel tank	62.08 gal. (235 L)
DEF tank	7.93 gal. (30 L)
Cooling system (radiator capacity)	8.98 gal. (34 L)
Engine oil	6.5 gal. (24.5 L)
Transmission	9.8 gal. (37 L)
Front axle	9.2 gal. (35 L)
Rear axles	9.2 gal. (35 L)
Hydraulic system	31.7 gal. (120 L)

### **Hydraulic Cylinders**

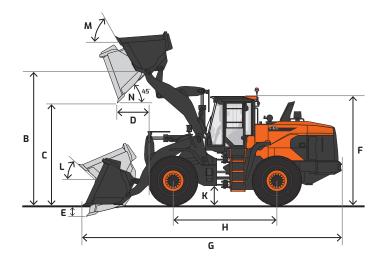
Steering (2) bore x rod diameter x stroke	3 in. x 2 in. x 18 in. (70 mm x 45 mm x 466 mm)
Lift arm (2) bore x rod diameter x stroke	5 in. x 3 in. x 31 in. (135 mm x 80 mm x 790 mm)
Bucket (1) bore x rod diameter x stroke	6 in. x 4 in. x 20 in. (160 mm x 95 mm x 510 mm)

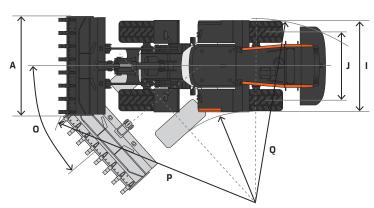
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in at the base and rod end of the lift and bucket cylinders and the rod end of the steering cylinders to ensure shock-free operation and extended piston life.

### **Dimensions**

		Standard Arm	High-Lift
Bucket capacity, heaped ISO/SAE		3.66 yd³ (2.8 m³)	
Bucket width	А	8' 11" (2740 mm)	
Max. hinge pin height	В	12' 11" (3952 mm)	14' 5" (4395 mm)
Dump height (45°) – fully raised	С	9' 3" (2820 mm)	10' 9" (3280 mm)
Dump reach (45°) – fully raised	D	3' 9" (1160 mm)	3' 8" (1125 mm)
Digging depth	E	4" (115 mm)	7" (203 mm)
Overall height, ROPS cabin	F	11' 0" (3360 mm)	
Overall length	G	25' 1" (7655 mm)	26' 5" (8075 mm)
Wheel base	Н	10' 0" (3050 mm)	
Width at tires	1	8' 8" (2640 mm)	
Tread width	J	6' 8" (2040 mm)	
Ground clearance	К	1' 3" (400 mm)	
Max. tilt angle on ground		43°	40°
Max. tilt angle at carry position	L	49°	48°
Max. tilt angle at fully raised	M	61°	58°
Max. dump angle at fully raised	N	46°	45°
Max. steering angle	0	40°	
External turning radius, bucket edge	Р	20' 1" (6145 mm)	20' 8" (6300 mm)
External turning radius, outside tire	Q	18' 1" (5510 mm)	
Tire size		20.5R25 L3	
Operating weight		34552 lb. (15670 kg)	34890 lb. (15830 kg)
Static tipping load (straight)		27064 lb. (12276 kg)	22181 lb. (10061 kg)
Static tipping load (at full turn)		23856 lb. (10821 kg)	19553 lb. (8869 kg)
Breakout force		30540 lbf. (146 kn)	28826 lbf. (128 kn)

Front Lift Arm Configuration Standard: US10, US11, US15, US30 High-Lift: US20, US21, US40





# Standard & Optional Equipment | Standard Base Package, US10

Standard • 0

Optional

N/A

### **Engine**

Emissions, T4 (EPA)	•
High-pressure common-rail (HPCR)	•
Turbo, variable geometry (VGT)	•
Cooled exhaust gas recirculation (CEGR)	•
Diesel oxidation catalyst (DOC)	•
Selective catalyst reduction (SCR)	•
Diesel exhaust fluid (DEF)	•
Fuel filter with water separator	•
Coolant recovery tank	•
Dual element dry-type air filter with evacuator	•
Precleaner	•
Electronic engine control (ECU)	•
Auto idle (working to standby)	•
Auto shutdown (time adjustable)	•
Overheat & low oil pressure engine protection	•
Cooling fan – radiator, variable speed	•
Cooling fan – radiator, automatic reversible	•
Remote drain port – engine oil	•
Block heater (110 V)	•

### Hydraulic

Variable displacement axial piston pump	•
Closed-center system	•
Main control valves, pilot	•
Main control valves, electric	•
Remote test ports	•
Remote drain port, hydraulic oil	•
Spring-applied hydraulic release brake	
Auxiliary hydraulics (3rd valve)	
Auxiliary hydraulic detent (EMCV only)	•
Automatic boom/lift kick-out, adjustable (in cab)	
Automatic return-to-dig position, adjustable	
Automatic return-to-dig position, adjustable (in cab, EMCV only)	•
Boom float	
Load isolation system	•

#### **Electrical**

System voltage – 24 V	-
Alternator – 24 V, 80 amp	
2 x 12 V batteries, 100 AH reserve capacity, 900 CCA	-
Blade-type fuse panel	
Main circuit breaker	
Lights, work (LED): front (2), rear (2)	-
Lights, work (LED): front (4), rear (4)	•
Lights, work (LED): front (6), rear (6)	•
Lights, headlights (halogen) – hi/lo beams (2)	
Lights, stop, tail & direction indicators	
Horn	
Rotating beacon	•
Hour meter	
Engine restart prevention system	•
Rearview camera	•
Laptop service port	•
Self-diagnostics system	

### **Cabin**

Steel, all-weather & sound-suppressed	-
ROPS (ISO 3471)	
FOPS (ISO 3449)	
Front window with wiper/washer	
Rear window with wiper	
Tinted safety glass	
Visor, retractable	
Adjustable sliding side door window	
Defrost, front window	
Lockable doors	
Seat - Air suspension - 2" (51 mm) seat belt - Adjustable height & recline - Adjustable fore/aft - Adjustable armrests	•
Seat, heated	•
3" (76 mm) seat belt	•
Control stands - Height adjustable - Fore/aft adjustable	•
Control stands - Integrated with seat	•
Storage for operator's manuals	•
Mirror, interior rear view (1)	
Mirror, exterior (2), heated	
Mirror, exterior (2), heated (electronic adjustable)	•
Fully automatic HVAC with ambient temperature sensor	-
Smart Touch display - 8" touch-enabled - Adjustable height & angle	•
Transparent bucket - Multi-camera system & controller - In-cab display	-
AM/FM stereo with CD player & MP3 port	
Speakers (2)	
Antenna, roof-mounted	
Emergency breakout tool	
Hot/cold beverage compartment	
Power socket, 12 V	
Power socket, USB	
Beverage holder	
Interior light	
Coat hanger	

Adjustable steering column - Tilting - Telescoping	•
Emergency secondary steering	•
Throttle pedal (accelerator)	•
Brake pedal, right	•
Brake pedal, left	•
Brake pedal transmission kick-out	•
Gear selector (FNR)	•
Joystick control	•
Fingertip control (3-lever)	•
Switches, console-mounted - Starter (button) - Parking brake - Pilot cutoff - Transmission cutoff - Work light - Reversible cooling fan	•
Emergency stop switch	•
Power mode (P, S, E)	•
Transmission mode	•
Wiper control panel	
Audio control panel	•

### Display Monitor & Warnings

Display Monitor & v	varriirigs	
Buzzer - Engine oil pressure - Coolant temperature - Transmission overheat		
Gauges - Fuel level - DEF level - Engine coolant temperature - Transmission oil temperature - Engine rpm - Speedometer - Transmission gear indicator - Battery voltage	- ECO - Smart guidance system - Digital clock - Trip meter - Hour meter - Total operation time - Fuel consumption	
Warning & indicator lights - Seat belt - Error code - SCR warning - Check engine - Engine oil pressure - Engine pre-heat engaged - Radiator coolant level & temperature - Air filter - Fuel level - DEF level - low - Water in fuel - Battery charge - Direction signal - Lights (high, main, work, beacon)	- Emergency steering - Hydraulic oil temperature - Hydraulic charge pressure warning - Hydraulic pilot filter - Hydraulic return filter - Hydraulic return filter - Transmission warning - Transmission lock-up - Transmission oil temp - Transmission oil temp - Transmission gear indicator - Brake fluid pressure warning - Reverse fan indicator - Mirror heat indicator - Parking brake indicator	
Back-up alarm	•	
Scale system, integrated smart s	scale	
Around view monitor (AVM)	•	
Frame & Driveline		

7-bar lift arm	
Z-bar lift arm, high-lift	
Steering cylinder, double-acting (2)	
Transmission – 4F/3R speed - Full automatic – power shift - Torque converter	•
Transmission – 5F/3R speed - Automatic – power shift - Torque converter lock-up clutch	•
Differentials - Limited slip front/rear	•
Differentials - Hydraulic locking front - Open rear	•
Hydraulic power steering	
Outboard planetary axles	
Outboard planetary axles – heavy-duty	•
Fixed front axle	
Oscillating rear axle	
Parking brake, spring-applied hydraulic release	
Sealed, self-adjusting brakes	
Tires, 20.5R25 L3 radial standard	
Tires, 23.5R25 L3 radial optional	•
Outboard brakes	

Other	
Centralized lubrication	-
Air compressor	•
Handrails, entrance & service steps	•
Handrails, roof-mounted	•
Skid-resistant entrance steps	•
Skid-resistant service platforms	
Drawbar and pin	
Wheel chocks	
Rear fender, full	•
Additional counterweight	•1
Manuals - Operation & Maintenance - Parts - AEM Safety Manual	•
DEVELON Fleet Management	

Vandalism protection
- Lockable panels
- Lockable fluid fill points
- Anti-theft protection (password)

<sup>1</sup> Standard on high-lift models

<sup>&</sup>lt;sup>2</sup> Dealer-installed only

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