

# DEVELON

## Wheel Loader

# DL280-7



### Engine

Make	DEVELON
Model	DL06
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	189.1 hp (141.0 kW) @ 2000 rpm
Rated power, net (hp per SAE J1995)	189.1 hp (141.0 kW) @ 2000 rpm
Max. torque, gross (SAE J1995)	665.4 lbf.ft. (92.0 kfg) @ 1400 rpm
Displacement	360.0 in. <sup>3</sup> (5.9 L)
Bore and stroke	3.9" x 4.9" (100 mm x 125 mm)
Starter	24 V, 8.6 hp (6.0 kW)
Battery	2 x 12 V, 100 AH, 900 CCA
Alternator	24 V, 80 A
Air cleaner	Double elements

### Hydraulics

Main pumps	Variable displacement axial piston pump 65.0 gpm (246.0 L/min.)
System pressure (work)	3843.5 psi (265.0 bar)
System pressure (steer)	2828.2 psi (195.0 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-speed)	3.9 / 7.7 / 14.4 / 22.1 mph (6.3 / 12.4 / 23.1 / 35.6 km/h)
Travel speed – forward (5-speed) (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 (4-speed)	4.1 / 8.1 / 15.0 mph (6.6 / 13.0 / 24.2 km/h)
Travel speed – reverse (5-speed) (US15 package only)	4.3 / 7.6 / 18.1 mph (7.0 / 12.3 / 29.2 km/h)
Max. grade	58% (30°)

### Environment

Sound level (ISO 6395)	104 dB(A)
Cabin sound level (ISO 6396)	71 dB(A)

### Refill Capacities

Fuel tank	62.1 gal. (235.0 L)
DEF tank	7.9 gal. (30.0 L)
Cooling system (radiator capacity)	9.0 gal. (34.0 L)
Engine oil	6.5 gal. (24.5 L)
Transmission	9.8 gal. (37.0 L)
Front axle	9.2 gal. (35.0 L)
Rear axles	9.2 gal. (35.0 L)
Hydraulic system	31.7 gal. (120.0 L)

All capacities are approximate values. Always refer to the machine's OM for exact refill levels. Check the dipstick, level eye, level plug, etc., to achieve the correct level.

### Hydraulic Cylinders

Steering (2) bore x rod diameter x stroke	2.8" x 1.8" x 18.3" (70 mm x 45 mm x 466 mm)
Lift arm (2) bore x rod diameter x stroke	5.3" x 3.1" x 31.1" (135 mm x 80 mm x 790 mm)
Bucket (1) bore x rod diameter x stroke	6.3" x 3.7" x 20.1" (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.

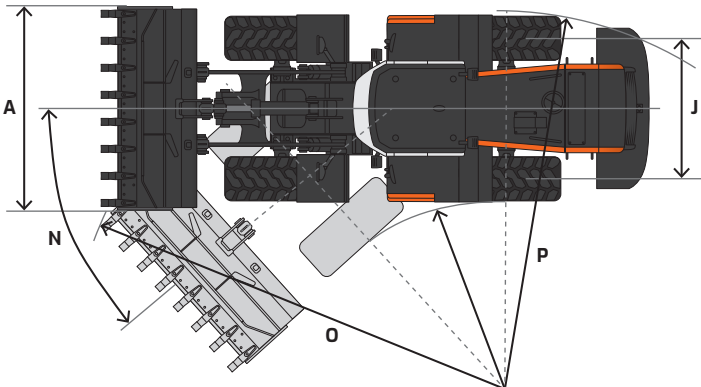
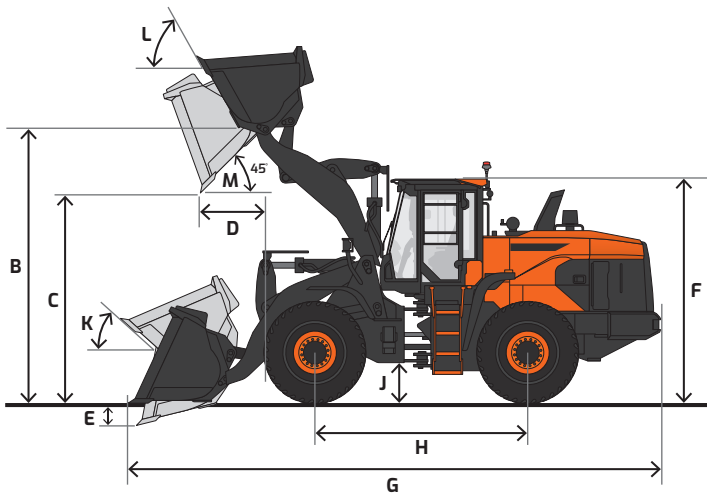
NOTE: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. All dimensions are given for DEVELON wheel loaders equipped with standard tires. Pictures of DEVELON wheel loaders may show other than standard equipment. All dimensions are shown in inches. Respective metric dimensions are enclosed by parentheses. Rounding may impact specifications DEVELON construction equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008.

# Dimensions

		Standard Arm	High-Lift
Bucket capacity, heaped ISO/SAE		3.7 yd³ (2.8 m³)	
Bucket width	A	8' 11.9" (2740 mm)	
Max. hinge pin height	B	12' 11.6" (3952 mm)	14' 5.0" (4395 mm)
Dump height (45°) – fully raised	C	9' 3.0" (2820 mm)	10' 9.1" (3280 mm)
Dump reach (45°) – fully raised	D	3' 9.7" (1160 mm)	3' 8.3" (1125 mm)
Digging depth	E	4.5" (115 mm)	8.0" (203 mm)
Overall height, ROPS cabin	F	11' 0.3" (3360 mm)	
Overall length	G	25' 1.3" (7655 mm)	26' 5.9" (8075 mm)
Wheel base	H	10' 0.0" (3050 mm)	
Tread width	I	6' 8.3" (2040 mm)	
Ground clearance	J	1' 3.7" (400 mm)	
Max. tilt angle on ground*		43°	40°
Max. tilt angle at carry position	K	49°	48°
Max. tilt angle at fully raised	L	61°	58°
Max. dump angle at fully raised	M	46°	45°
Max. steering angle	N	40°	
External turning radius, bucket edge	O	20' 1.9" (6145 mm)	20' 8.0" (6300 mm)
External turning radius, outside tire	P	18' 1.0" (5510 mm)	
Tire size		20.5R25 L3	
Operating weight		34550 lb. (15672 kg)	34892 lb. (15827 kg)
Static tipping load (straight)		27064 lb. (12276 kg)	22180 lb. (10061 kg)
Static tipping load (at full turn)		23857 lb. (10821 kg)	19553 lb. (8869 kg)
Breakout force		32822 lbf. (146.0 kN)	28776 lbf. (128.0 kN)

\*Not shown on diagram

Front Lift Arm Configuration  
Standard: U510, U511, U515, U530  
High-Lift: U520, U521, U540



# Standard & Optional Equipment

Standard Base Package, US10

■ Standard      ● Optional

## Engine

Emissions (EPA), T4f	■
High-pressure common-rail (HPCR)	■
Turbo, variable geometry (VGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Diesel oxidation catalyst (DOC)	■
Selective catalytic 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	■
Remote test ports	■
Remote drain port, hydraulic oil	■
Auxiliary hydraulics (3rd valve)	■
Automatic boom/lift kick-out, adjustable (in cab)	■
Automatic return-to-dig position, adjustable	■
Boom float	■
Ride control	■

## Electrical

System voltage – 24 V	■
Alternator – 24 V, 80 A	■
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	
- 3" (76 mm) seat belt	
- Adjustable height & recline	
- Adjustable fore/aft	
- Adjustable armrests	
Control stands	■
- Height adjustable	
- Fore/aft adjustable	
Storage for operator's manuals	■
Mirror, interior rear view (1)	■
Mirrors, exterior (2), heated	■
Mirrors, 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	■
Power socket, 12 V	■
Power socket, USB	■
Cup holder	■
Interior light	■
Coat hanger	■

## Controls

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	■
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 (manual, auto 1-4, auto 2-4)	■
Wiper control panel	■
Audio control panel	■

## Display Monitor & Warnings

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

## Frame & Driveline

Z-bar lift arm	■
Z-bar lift arm, high-lift	●
Steering cylinders, double-acting (2)	■
Transmission – 4F/3R speed	■
- Full automatic – power shift	
- Torque converter	
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	■
Spring-applied hydraulic release brake	■
Sealed, self-adjusting brakes	■
Tires, 20.5R25 L3 radial standard	■
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*	■
Manuals	■
- Operation & Maintenance	
- AEM Safety Manual	
MY DEVELON (telematics)	■
Vandalism protection	■
- Lockable panels	
- Lockable fluid fill points	
- Anti-theft protection (password)	

\*Standard on high-lift models

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.

# Powered by Innovation

# DEVELON

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DL280-7 Wheel Loader Spec Sheet  
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