

DOOSAN

Wheel Loaders |
DL580-5



Maximum power: 380 HP
Operating weight: 36030 kg
Max. bucket capacity: 5.7 m³



Raise productivity, fuel-efficiency & profits

► Productivity

Thanks to their robust design and use of high-quality components, Doosan wheel loaders deliver very high performance – ensuring you the best productivity and reliability.

Ⓞ **Z-bar:** Heavy duty “Z” kinematic delivers possibility to handle extra heavy materials – especially as block handler (handles blocks up to 25 tons).

Ⓞ **Worktools:** Wide range of heavy-duty attachments includes 5.7 m³ bucket to answer all of your needs.

Ⓞ **Simplicity of operations:** "Lift arm raise & down kick-out" and "return to dig" bucket – Automated function operated electrically from inside the cab.

Ⓞ **Versatility:** 3rd valve feature increases versatility of your investment.

Ⓞ **Load Isolation System:** Ride control feature reduces pitch effect and vibrations to provide the best comfort.

Ⓞ **Automatic hydraulic differential 100% lock:** The machine delivers all of its performance, while preserving fuel consumption by less rolling resistance.

Ⓞ **Hydraulic system:** Load sensing closed center system provides the operator with precision & smoothness while reducing fuel consumption.



Total cost of ownership ▲

Minimising your operating costs is at the heart of the Doosan wheel loaders' design, every day.

☉ **Safety:** Always a critical factor for your company and your employees – so, these machines feature large platforms, hand rails, and 2 emergency exits, with maintenance performed from the ground.

☉ **Spacious cab:** Operator enjoys comfortable driving, with many ergonomic features as standard.

☉ **Power:** Exceptionally powerful, with high torque at low revs, the Stage IV compliant Scania engines do not need a Diesel Particulate Filter (DPF) and associated regeneration system, so they deliver greater fuel efficiency.



DOOSAN CONNECT

☉ **Telematics:** as standard, Doosan Connect system with dual mode (satellite, GSM).

☉ **Axles cooler:** To ensure that your machine performs optimally, even in very hard applications, the axles are equipped with an oil cooling system and thus ensure proper operation under any conditions.

☉ **Cooling performances:** Cooling compartment separated from the engine compartment to prevent warm and dusty air from entering and allow better control of air intake. Automatic reversing fan as standard.

☉ **Full fenders:** As standard, to keep your machine clean and your operators even safer.

☉ **Serviceability:** Spacious access to main components allows quick and easy daily maintenance.



Powertrain: made with very high precision and the best technology, Doosan's efficiency package includes power shift transmission and heavy duty axles, thus providing more than the sum of individual advantages. 6 disc brakes allow safe and precise manipulation in any heavy application.



Engine

DL580-5	
Model	Scania DC13
Regulation compliant	Stage IV
No. of cylinders	6
Maximum power - gross (SAE J1995)	380 HP (283 kW) at 1800 rpm
Maximum torque - gross	1765 Nm at 1300 rpm
Idle (low-high)	750 - 2200 rpm
Displacement	12.7 litres
Bore × stroke	130 mm × 160 mm
Starter	24 V - 6 kW
Batteries - alternator	2 × 12 V, 150 Ah, 100 A 28 V
Air filter	Centrifugal pre-cleaner 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.

Transmission

DL580-5	
Type	5 speed auto Powershift with lock-up
Speeds forward 1-2-3-4-5	6 - 12 - 19 - 26 - 37
Speeds reverse 1-2-3	6 - 12 - 26
Maximum traction	31 t
Maximum gradeability	30° / 58%

Axles

DL580-5	
Front axle	Heavy Duty with HDL
Rear axle	Heavy Duty OPEN
Oscillation angle	+/- 10°
Tyre size - standard	29.5 R25 (L5)

Hydraulic system

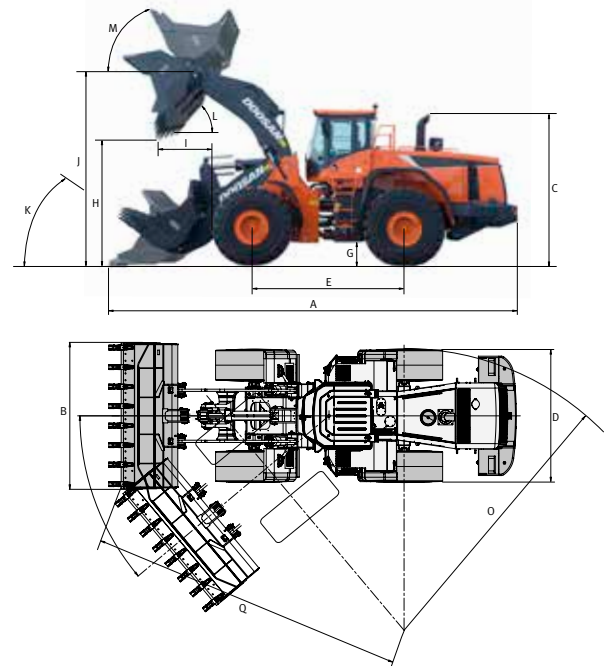
DL580-5	
Type	Closed load sensing hydraulic system
Maximum flow	210 l/min
Maximum pressure	250 bar
Pilot system	Automatic functions for positioning the bucket ready to dig and a function for stopping the lift arm at the desired height, and low position adjusted manually by switch, are standard.
Filtration	In the oil return to the tank, the fibre glass filter has a filtering capability of 10 µm.

Lift arm

DL580-5	
Lift arm - up	6.6 s
Lift arm - down	4.6 s
Bucket - crowd	1.2 s
Bucket - dump	1.2 s

Cab

DL580-5	
Safety standards	ROPS ISO 3471:2008 FOPS ISO 3449
Door	1
Emergency exits	2
A weighted emission sound pressure level at the operator position (ISO 6396)	Declared: 72 dB(A) Measured: 71 dB(A)
A weighted emission sound power level at external position (ISO 6395)	Declared: 107 dB(A) Measured: 106 dB(A)



Dimensions and operational data

Configuration	DL580-5 – Pin-on	General purpose		Rock
		L3 tyres		L5 tyres
		Teeth	Bolt-on edge	Teeth & segments
Capacity heaped ISO/SAE	m ³	5.4	5.7	5.0
A Overall length	mm	9970	9780	10150
B Bucket width	mm	3405	3405	3440
Breakout force	kN	247	246	225
Static tipping load (straight)	kg	26440	26070	29690
Static tipping load (at full turn)	kg	23575	23245	26220
C Overall height	mm	3785	3785	3785
Operating weight	kg	33535	33655	36030
D Width at tyres	mm	3170	3170	3170
E Wheel base	mm	3700	3700	3700
F Tread	mm	2420	2420	2420
G Ground clearance (at 11° osc.)	mm	480	480	480
H Dump height (at 45° – fully raised)	mm	3285	3405	3175
Dump height (at max. dump) - (at max. reach)	mm	685	855	545
I Dump reach (at 45° – fully raised)	mm	1535	1400	1695
Dump reach (at max. dump) - (at max. reach)	mm	1830	1750	1940
Digging depth	mm	80	80	45
J Height at bucket pivot point	mm	4780	4780	4780
Max. tilt angle in carry position	°	48	48	48
K Max. tilt angle on ground	°	43	43	42
Max. tilt angle at max. reach	°	68	68	68
L Max. dump angle fully raised	°	47	47	46
Max. dump angle at max. reach	°	68	68	67
Max. dump angle on ground	°	79	79	80
M Max. tilt angle fully raised	°	67	67	67
O External radius at tyre side	mm	6550	6550	6550
Q External radius at bucket edge	mm	7565	7515	75440

