

\* | 102 kW (137 HP) at 2000 rpm

▲ | 14213 - 16273 kg

📦 | 0.24 - 0.76 m<sup>3</sup>



## DX140W-3 | Wheeled Excavator



# Technical specifications

## \* Engine

### • Model

Doosan DL06KB  
4-Cycle Water-Cooled, Variable Geometry Turbocharged,  
Common Rail Direct Injection, Exhaust Gas Recirculation

### • No. of cylinders

6

### • Rated power at 2000 rpm

101 kW (137 PS) (DIN 6271)  
101 kW (135 HP) (SAE J1349)  
102 kW (137 HP) (SAE J1995)

### • Max. torque at 1400 rpm

60 kgf/m (588 Nm)

### • Idle (low - high)

800 [± 25] - 2080 [±50] rpm

### • Piston displacement

5890 cm<sup>3</sup>

### • Bore x stroke

Ø 100 x 125 mm

### • Starter

24 V / 6.0 kW

### • Batteries / Alternator

2 x 12 V, 150 Ah / 24 V, 80 A

### • Air filter

Double element and pre-filtered Turbo with automatic dust evacuation.  
Filtration area 7.6 m<sup>2</sup> (outer), 1.4 m<sup>2</sup> (inner)  
Size (diameter x length) 279.4 mm x 489.5 mm

## \* Weights

Boom (mm)	Arm (mm)	C/W (t)	Chassis - Front	Chassis - Rear	Weight Total	Front	Rear
1-piece boom (4400)	2100	2.2	Cradle	Dozer	14213	5205	9008
		2.2	Dozer	Stab	15298	6073	9225
1-piece boom (4600)	2500	2.5	Cradle	Dozer	14662	5410	9252
		2.5	Dozer	Stab	15747	6278	9469
2-piece boom (2000 + 3350)	2100	2.5	Cradle	Dozer	15128	4610	10518
		2.5	Dozer	Stab	16213	5478	10735
2-piece boom (2000 + 3350)	2500	2.5	Stab	Dozer	16213	5959	10253
		2.5	Cradle	Dozer	15188	4848	10340
		2.5	Dozer	Stab	16273	5716	10557
		2.5	Stab	Dozer	16273	6198	10075

## \* Undercarriage

Very robust construction throughout. All welded structures designed to limit stresses. High-quality, durable materials. Lateral chassis welded and rigidly attached to undercarriage. Heat-treated connecting pins. 10.00-20-14PR (OTR) double tyres with tyre spacer or single tyres 18-19.5-16PR (optional). Heavy-duty front axle with automatic or operator-controlled (on/off) front axle oscillation lock.

### • Front axle oscillation

+/- 7.94° with automatic ram lock

## \* Brakes

Dual multi-disc circuit with sintered metal discs for extended service life. Braking system activated by a pump and accumulator circuits. Spring-applied, hydraulically released parking brake mounted on the transmission shaft.

## \* Hydraulic system

The brain of the excavator is the e-EPOS (Electronic Power Optimizing System). It allows operation of the hydraulic system to be optimised for all working conditions and minimises fuel consumption.

The e-EPOS is connected to the engine's electronic control unit (ECU) via a data transfer link to harmonise the operation of the engine and the hydraulic system.

- The hydraulic system allows independent or combined operations
- Two travel speeds offer either increased torque or high speed
- Cross-sensing pump system for fuel savings
- Auto deceleration system
- Four operating modes, four power modes
- Button control of flow in auxiliary hydraulic circuits
- Computer-aided pump flow control

### • Maximum system pressure

Implement (boom/arm/bucket): 380 kg/cm<sup>2</sup> [±5]  
Work/travel: 350 kg/cm<sup>2</sup> [±5] / 370 kg/cm<sup>2</sup> [±5]  
Swing: 275 kg/cm<sup>2</sup> [±5]  
Pilot: 40 kgf/cm<sup>2</sup>

## \* Pumps

Pump	Type	Displacement	Max. flow @ 2000 rpm	Relief valve pressure
Main (2)	Tandem, Axial piston	85.0 cm <sup>3</sup> /rev.	2 X 170 l/min	-
Pilot	Gear	10.7 cm <sup>3</sup> /rev.	24.1 l/min	40 kgf/cm <sup>2</sup>
Steering	Gear	19.1 cm <sup>3</sup> /rev.	35.5 l/min	175 kgf/cm <sup>2</sup>
Brake	Gear	7.3 cm <sup>3</sup> /rev.	13.6 l/min	160 kgf/cm <sup>2</sup>

## \* Hydraulic cylinders

Piston rods and cylinder bodies of high-strength steel.

Shock-absorbing mechanism fitted in all cylinders for shock-free operation and extended piston life.

Cylinders	Quantity	Bore x rod diameter x stroke (mm)
One-piece boom	2	110 x 75 x 1035
Two-piece boom upper	2	110 x 75 x 975
Two-piece boom lower	1	140 x 85 x 720
Arm - 4.4 boom	1	115 x 80 x 1092
Arm - 4.6 boom	1	115 x 80 x 1068
Bucket	1	95 x 65 x 900
Blade	2	100 x 60 x 204
Stabilizer	2	110 x 70 x 438

## \* Swing mechanism

- High-torque, axial piston motor with planetary reduction gear in oil bath
- Swing circle: single-row, shear type ball bearing with induction-hardened internal gear
- Internal gear and pinion immersed in lubricant
- Increased swing torque reduces swing time
- The swing brake for parking is activated by spring and released hydraulically
- Max. swing speed (Eff.=0.98): 0 to 11.4 rpm
- Max. swing torque (Eff.=0.78): 3744 kgf/m

## \* Drive

The wheels are driven by an axial piston engine via a two-speed Power Shift transmission.

In addition to the two-speed Power Shift transmission, there is also an economy mode and a switch for the creep speed.

A button makes it possible to pass from high to low in work mode.

### • Travel speed

Two travel speed ranges offer a choice between increased torque or high speed.

High	/ Eco	/ Low	/ Creep
37	/ 32	/ 10	/ 3.5 km/h

### • Maximum traction

8.3 t

### • Maximum gradeability

35° / 70%

### • Turning radius

With front:	7477 mm
Without front (Two-piece boom + 2.5 m arm):	6247 mm

## \* Fluid capacities

### • Fuel tank

280 l

### • Cooling system (radiator capacity)

20 l

### • Hydraulic oil tank

102 l

### • Engine oil

22 l

### • Swing drive

2 l

### • Front axle hub

2 x 2.5 l

### • Rear axle hub

2 x 2.4 l

### • Front axle case

9 l

### • Rear axle case

11.2 l

### • Transmission

2.5 l

## \* Environment

Noise levels comply with environmental regulations (dynamic values).

### • Noise level LwA

Guaranteed / measured: 102 dB(A) / 100 dB(A) (2000/14/EC)

### • Operator LpA

69 dB(A) (ISO 6396)

## \* Buckets

Bucket Type	Capacity (m <sup>3</sup> ) SAE	C/W			2.5 t				
		Width (mm)		Weight (kg)	Boom: 4.6 m		Boom: 4.4 m	2-piece boom	
		With side cutters	Without side cutters		Arm: 2.1 m	Arm: 2.5 m	Arm: 2.1 m	Arm: 2.1 m	Arm: 2.5 m
Normal	0.59	1081	997	420	A	A	A	A	A
	0.24	534	468	292	A	A	A	A	A
	0.39	820	736	350	A	A	A	A	A
	0.45	911	824	389	A	A	A	A	A
	0.51	991	907	398	A	A	A	A	A
	0.64	1167	1083	443	A	A	A	A	B
HD	0.76	1220	1120	437	A	B	A	B	C
	0.42	827	762	462	A	A	A	A	A
	0.49	913	848	497	A	A	A	A	A
	0.54	981	916	517	A	A	A	A	A

Based on ISO 10567 and SAE J296, arm length without quick-coupler. For reference only.

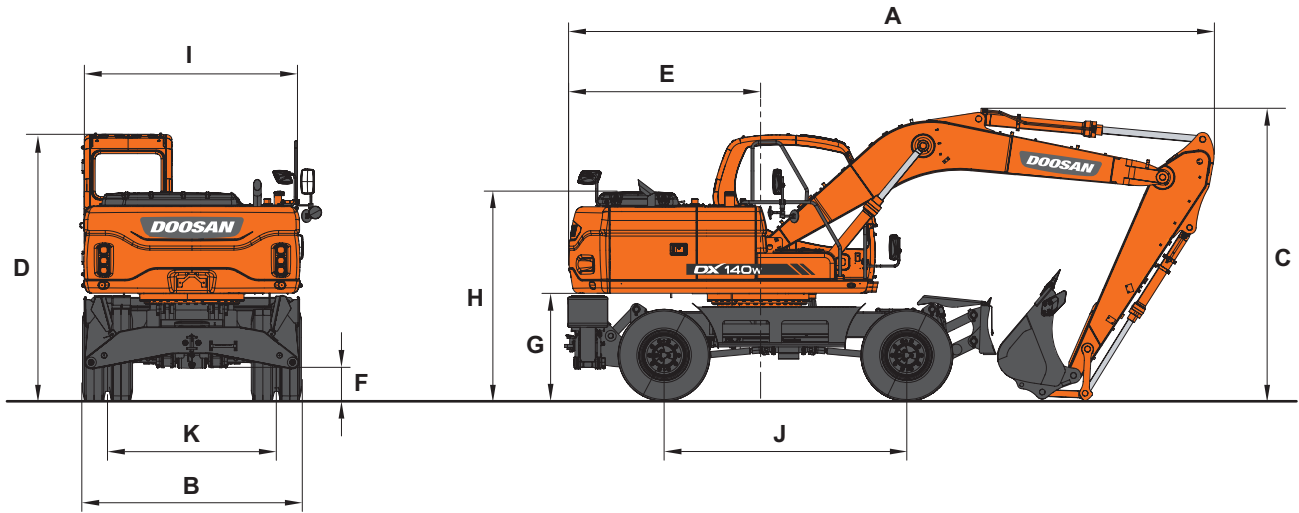
A: Suitable for materials with a density less than or equal to 2100 kg/m<sup>3</sup> / B: Suitable for materials with a density less than or equal to 1800 kg/m<sup>3</sup>

C: Suitable for materials with a density less than or equal to 1500 kg/m<sup>3</sup>

## \* Digging forces (ISO)

		1-piece boom: 4400 mm Arm: 2100 mm Bucket: 0.59 m <sup>3</sup>	1-piece boom: 4600 mm Arm: 2500 mm Bucket: 0.59 m <sup>3</sup>	2-piece boom: 4988 mm Arm: 2100 mm Bucket: 0.59 m <sup>3</sup>	2-piece boom: 4988 mm Arm: 2500 mm Bucket: 0.59 m <sup>3</sup>
BUCKET (Normal/Press. Up)	t	10.00 / 10.57	10.00 / 10.57	11.08 / 11.72	11.08 / 11.72
	kN	98.0 / 103.6	98.0 / 103.6	108.6 / 114.9	108.6 / 114.9
ARM (Normal/Press. Up)	t	7.68 / 8.12	6.54 / 6.90	7.68 / 8.12	6.54 / 6.90
	kN	75.3 / 79.6	64.1 / 67.7	75.3 / 79.6	64.1 / 67.7

# Dimensions



## \* Dimensions one-piece and two-piece boom

	Boom length - mm	4400 (one-piece boom)		4600 (one-piece boom)		4988 (two-piece boom)	
	Arm length - mm	2100	2500	2100	2500	2100	2500
A	Shipping length - mm	7190	7470	7185	8005	7885	
B	Shipping width - mm	2500	2500	2500	2500	2500	
C	Shipping height (boom) - mm	3590	3430	3950	2725	3070	
D	Height over cab - mm	3065	3065	3065	3065	3065	
E	Counterweight swing clearance - mm	2200	2200	2200	2200	2200	
F	Ground clearance - mm	350	350	350	350	350	
G	Counterweight clearance - mm	1215	1215	1215	1215	1215	
H	Engine cover height - mm	2385	2385	2385	2385	2385	
I	Upper housing width - mm	2500	2500	2500	2500	2500	
J	Wheel base - mm	2800	2800	2800	2800	2800	
K	Tread width - mm	1944	1944	1944	1944	1944	

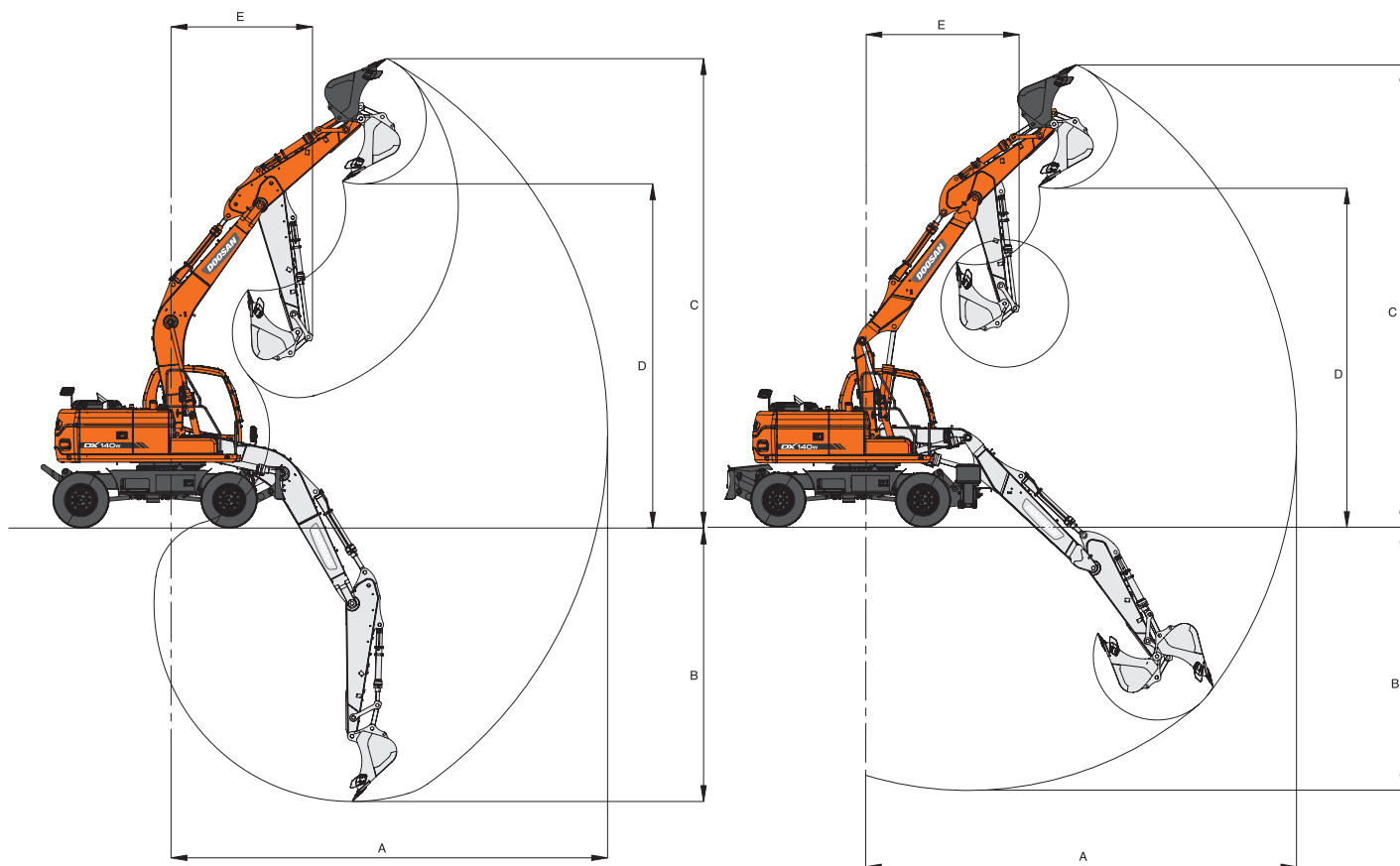
## \* Component weights

Item		Remarks
Upperstructure without front - kg	7175	Including counterweight
Undercarriage - kg	4832	Including S/B, F-CR & R-DOZ
Front assembly - kg	2206	
Counterweight - kg	2200 or 2500	
Boom 4400 mm - kg	750	
Arm 2100 mm - kg	375	
Bucket - kg	408	0.59 m <sup>3</sup>
Boom cylinder (each) - kg	106	
Arm cylinder - kg	151	
Bucket cylinder - kg	87	
Dozer blade - kg	672	
Dozer blade cylinder (each) - kg	42	
Stabilizer - kg	960	
Stabilizer cylinder (each) - kg	74	
Boom 4600 mm - kg	778	
Arm 2500 mm - kg	418	
Two-piece boom - upper / lower - kg	592 / 384	
Two-piece boom cylinder - kg	150	



# Working range

# DX140W-3

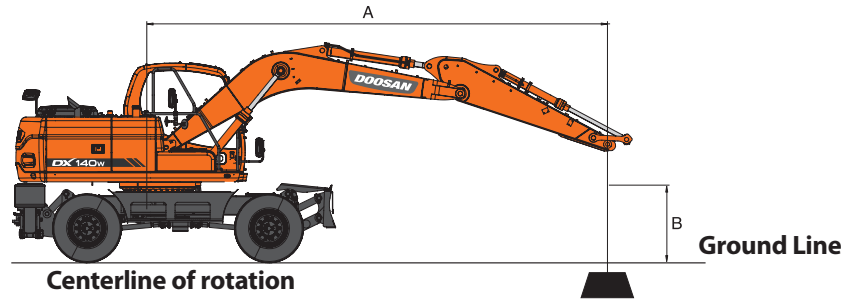


## \* Working range one-piece and two-piece boom

Boom length - mm		4400 (one-piece boom)		4600 (one-piece boom)		4988 (two-piece boom)	
Arm length - mm		2100		2100		2500	
A	Max. digging reach - mm	7585	7765	8235	8210	8670	
B	Max. digging depth - mm	4490	4620	5020	5025	5455	
C	Max. digging height - mm	8195	8340	8850	9060	9565	
D	Max. dump height - mm	5905	6060	6510	6715	7175	
E	Min. digging reach - mm	2340	2500	2665	2650	2850	



# Lifting capacities



## Standard configuration – One-piece boom

Boom: 4400 mm • Arm: 2100 mm • W/O Bucket • Counterweight: 2200 kg

Units: 1000 kg

A (m) B (m)	Chassis Frame Attachment	1.5		3.0		4.5		6.0		Max. lift		A (m)
6.0	R- Dozer Up					3.60*	3.60*			2.82*	2.82*	4.71
	F-Dozer + R-Stabilizer Down					3.60*	3.60*			2.82*	2.82*	
4.5	R-Rear Dozer Only Up					5.65*	3.67			2.64*	2.50	5.73
	F-Dozer + R-Stabilizer Down					5.65*	5.65*			2.64*	2.64*	
3.0	R-Rear Dozer Only Up			9.54*	6.37	6.62*	3.49	4.14*	2.28	2.69*	2.14	6.24
	F-Dozer + R-Stabilizer Down			9.54*	9.54*	6.62*	5.85	4.14*	3.75	2.69*	2.69*	
1.5	R-Rear Dozer Only Up			10.03*	5.82	7.02	3.30	4.44	2.21	2.94*	2.03	6.36
	F-Dozer + R-Stabilizer Down			10.03*	10.03*	7.47*	5.62	5.60*	3.67	2.94*	2.94*	
0 (Ground)	R-Rear Dozer Only Up			10.78*	5.66	6.87	3.18	4.39	2.16	3.48*	2.11	6.12
	F-Dozer + R-Stabilizer Down			10.78*	10.78*	7.69*	5.49	4.78*	3.62	3.48*	3.48*	
-1.5	R-Rear Dozer Only Up	8.50*	8.50*	9.94*	5.68	6.85	3.16			4.73*	2.46	5.46
	F-Dozer + R-Stabilizer Down	8.50*	8.50*	9.94*	9.94*	6.89*	5.47			4.73*	4.14	
-3.0	R-Rear Dozer Only Up			6.66*	5.85					4.62*	3.64	4.17
	F-Dozer + R-Stabilizer Down			6.66*	6.66*					4.62*	4.62*	

## Option 1 – One-piece boom

Boom: 4600 mm • Arm: 2500 mm • W/O Bucket • Counterweight: 2500 kg

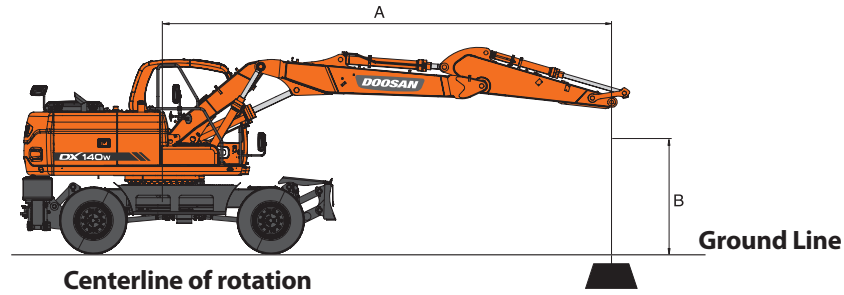
Units: 1000 kg

A (m) B (m)	Chassis Frame Attachment	1.5		3.0		4.5		6.0		Max. lift		A (m)
7.5	R- Dozer Up									2.76*	2.76*	3.93
	F-Dozer + R-Stabilizer Down									2.76*	2.76*	
6.0	R-Rear Dozer Only Up					3.97*	3.97*			2.26*	2.26*	5.55
	F-Dozer + R-Stabilizer Down					3.97*	3.97*			2.26*	2.26*	
4.5	R-Rear Dozer Only Up					4.66*	3.93	3.53*	2.51	2.13*	2.13*	6.44
	F-Dozer + R-Stabilizer Down					4.66*	4.66*	3.53*	3.53*	2.13*	2.13*	
3.0	R-Rear Dozer Only Up			8.93*	6.81	6.26*	3.72	4.76	2.44	2.14*	1.96	6.90
	F-Dozer + R-Stabilizer Down			8.93*	8.93*	6.26*	6.15	4.83*	3.95	2.14*	2.14*	
1.5	R-Rear Dozer Only Up					7.23*	3.49	4.65	2.34	2.28*	1.87	7.01
	F-Dozer + R-Stabilizer Down					7.23*	5.89	5.50*	3.84	2.28*	2.28*	
0 (Ground)	R-Rear Dozer Only Up			8.24*	5.94	7.16	3.35	4.57	2.27	2.58*	1.92	6.79
	F-Dozer + R-Stabilizer Down			8.24*	8.24*	7.62*	5.72	5.60*	3.77	2.58*	2.58*	
-1.5	R-Rear Dozer Only Up	6.30*	6.30*	10.39*	5.94	7.10	3.30	4.56	2.26	3.21*	2.17	6.20
	F-Dozer + R-Stabilizer Down	6.30*	6.30*	10.39*	10.39*	7.16*	5.67	5.01*	3.75	3.21*	3.21*	
-3.0	R-Rear Dozer Only Up			7.85*	6.07	5.41*	3.37			4.29*	2.87	5.11
	F-Dozer + R-Stabilizer Down			7.85*	7.85*	5.41*	5.41*			4.29*	4.29*	



- Lifting capacities are in compliance with ISO 10567:2007(E).
- The load point is at the end of the arm.
- \* = The nominal loads are based on hydraulic capacity.
- The nominal loads shown do not exceed 75% of tipping loads or 87% of hydraulic lifting capacity.
- For lifting capacity with bucket, simply subtract the actual weight of the bucket from the values.
- The configurations indicated do not necessarily reflect the standard equipment of the machine.

: Rating over front  
 : Rating over side or 360°



## Option 2 – Two-piece boom

Boom: 4988 mm • Arm: 2500 mm • W/O Bucket • Counterweight: 2500 kg

Units: 1000 kg

A (m) B (m)	Chassis Frame Attachment	1.5		3.0		4.5		6.0		Max. lift		A (m)
7.5	R- Dozer Up					3.33*	3.33*			2.82*	2.82*	4.69
	R- Dozer Down					3.33*	3.33*			2.82*	2.82*	
	F-Dozer + R-Stabilizer Down					3.33*	3.33*			2.82*	2.82*	
	4-Stabilizer Down					3.33*	3.33*			2.82*	2.82*	
6.0	R-Rear Dozer Only Up					4.13*	4.07	2.80*	2.52	2.40*	2.40*	6.10
	R-Rear Dozer Only Down					4.13*	4.13*	2.80*	2.79	2.40*	2.40*	
	F-Dozer + R-Stabilizer Down					4.13*	4.13*	2.80*	2.80*	2.40*	2.40*	
	4-Stabilizer Down					4.13*	4.13*	2.80*	2.80*	2.40*	2.40*	
4.5	R-Rear Dozer Only Up					4.78*	3.92	4.27*	2.50	2.26*	1.95	6.92
	R-Rear Dozer Only Down					4.78*	4.35	4.27*	2.77	2.26*	2.17	
	F-Dozer + R-Stabilizer Down					4.78*	4.78*	4.27*	4.05	2.26*	2.26*	
	4-Stabilizer Down					4.78*	4.78*	4.27*	4.27*	2.26*	2.26*	
3.0	R-Rear Dozer Only Up					5.83*	3.65	4.72*	2.39	2.26*	1.73	7.35
	R-Rear Dozer Only Down					5.83*	4.07	4.72*	2.66	2.26*	1.93	
	F-Dozer + R-Stabilizer Down					5.83*	5.83*	4.72*	3.93	2.26*	2.26*	
	4-Stabilizer Down					5.83*	5.83*	4.72*	4.65	2.26*	2.26*	
1.5	R-Rear Dozer Only Up					6.87*	3.38	4.63	2.27	2.38*	1.66	7.45
	R-Rear Dozer Only Down					6.87*	3.79	5.18*	2.54	2.38*	1.85	
	F-Dozer + R-Stabilizer Down					6.87*	5.81	5.18*	3.80	2.38*	2.38*	
	4-Stabilizer Down					6.87*	6.87*	5.18*	4.51	2.38*	2.38*	
0 (Ground)	R-Rear Dozer Only Up					7.09	3.22	4.53	2.19	2.64*	1.70	7.24
	R-Rear Dozer Only Down					7.39*	3.63	5.44*	2.45	2.64*	1.90	
	F-Dozer + R-Stabilizer Down					7.39*	5.63	5.44*	3.71	2.64*	2.64*	
	4-Stabilizer Down					7.39*	6.82	5.44*	4.42	2.64*	2.64*	
-1.5	R-Rear Dozer Only Up			8.72*	5.75	7.03	3.18	4.50	2.17	3.15*	1.89	6.70
	R-Rear Dozer Only Down			8.72*	6.60	7.20*	3.59	5.25*	2.43	3.15*	2.12	
	F-Dozer + R-Stabilizer Down			8.72*	8.72*	7.20*	5.58	5.25*	3.68	3.15*	3.15*	
	4-Stabilizer Down			8.72*	8.72*	7.20*	6.77	5.25*	4.39	3.15*	3.15*	
-3.0	R-Rear Dozer Only Up			8.66*	5.89	6.13*	3.25			4.33*	2.39	5.71
	R-Rear Dozer Only Down			8.66*	6.75	6.13*	3.66			4.33*	2.68	
	F-Dozer + R-Stabilizer Down			8.66*	8.66*	6.13*	5.66			4.33*	4.04	
	4-Stabilizer Down			8.66*	8.66*	6.13*	6.13*			4.33*	4.33*	

## Option 3 – Two-piece boom

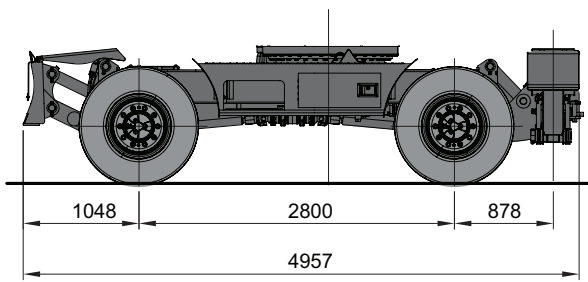
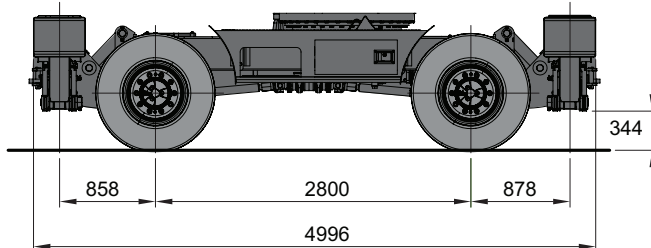
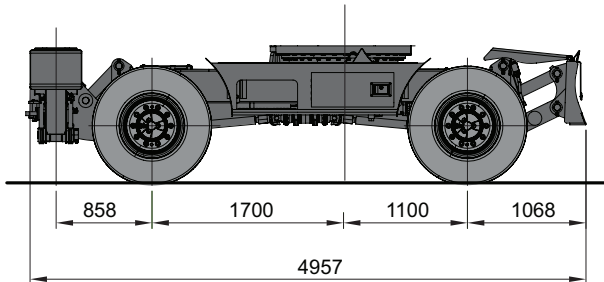
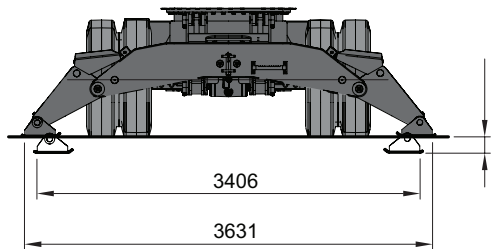
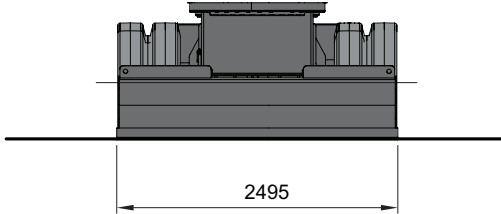
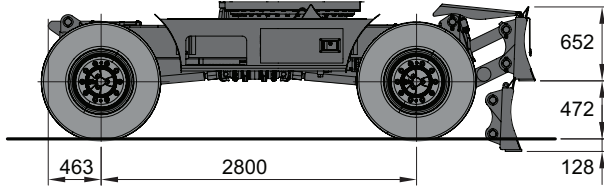
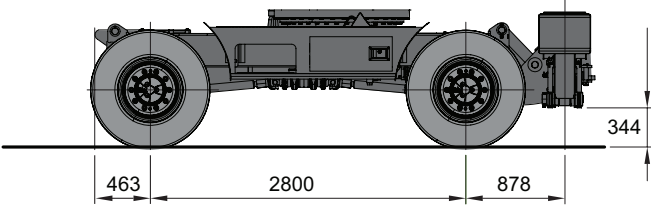
Boom: 4988 mm • Arm: 2100 mm • W/O Bucket • Counterweight: 2500 kg

Units: 1000 kg

A (m) B (m)	Chassis Frame Attachment	1.5		3.0		4.5		6.0		Max. lift		A (m)
7.5	R- Dozer Up									3.85*	3.85*	3.89
	R- Dozer Down									3.85*	3.85*	
	F-Dozer + R-Stabilizer Down									3.85*	3.85*	
6.0	R-Rear Dozer Only Up					4.66*	4.00			3.25*	2.85	5.52
	R-Rear Dozer Only Down					4.66*	4.43			3.25*	3.16	
	F-Dozer + R-Stabilizer Down					4.66*	4.66*			3.25*	3.25*	
4.5	R-Rear Dozer Only Up			6.57*	6.57*	5.17*	3.86	4.60*	2.47	3.11*	2.20	6.42
	R-Rear Dozer Only Down			6.57*	6.57*	5.17*	4.29	4.60*	2.74	3.11*	2.44	
	F-Dozer + R-Stabilizer Down			6.57*	6.57*	5.17*	5.17*	4.60*	4.01	3.11*	3.11*	
3.0	R-Rear Dozer Only Up					6.19*	3.60	4.75	2.38	3.17*	1.92	6.88
	R-Rear Dozer Only Down					6.19*	4.02	4.94*	2.65	3.17*	2.14	
	F-Dozer + R-Stabilizer Down					6.19*	6.06	4.94*	3.92	3.17*	3.17*	
1.5	R-Rear Dozer Only Up					7.12*	3.36	4.63	2.28	3.42*	1.83	6.99
	R-Rear Dozer Only Down					7.12*	3.77	5.33*	2.54	3.42*	2.04	
	F-Dozer + R-Stabilizer Down					7.12*	5.78	5.33*	3.80	3.42*	3.05	
0 (Ground)	R-Rear Dozer Only Up					7.10	3.24	4.55	2.21	3.82	1.88	6.76
	R-Rear Dozer Only Down					7.45*	3.65	5.47	2.47	3.93*	2.11	
	F-Dozer + R-Stabilizer Down					7.45*	5.64	5.49*	3.73	3.93*	3.16	
-1.5	R-Rear Dozer Only Up			9.93*	5.84	7.05*	3.23	4.55	2.21	4.37	2.14	6.17
	R-Rear Dozer Only Down			9.93*	6.70	7.05*	3.63	5.07*	2.47	4.83*	2.39	
	F-Dozer + R-Stabilizer Down			9.93*	9.93*	7.05*	5.63	5.07*	3.73	4.83*	3.59	



# Undercarriage





## \* Standard equipment

<b>Engine</b>
DOOSAN DL06KB turbocharged, Common Rail direct injection, EU Stage IIIB compliant Diesel engine combined with e-EPOS System
Automatic engine warm-up system
Fuel pre-filter with water separator sensor
Diesel particulate filter (DPF)
Fuel and Engine speed (RPM) control dial
Auto-idle
<b>Hydraulic system</b>
Boom and arm flow regeneration
Swing anti-rebound valves
Spare ports (valve)
Breaker piping
Cylinder cushioning & contamination seals
Control of auxiliary hydraulic flow and pressure from the display panel
<b>Cab &amp; Interior</b>
Roll Over Protective Structure (ROPS)
Pressurised, sound-insulated and CabSus mounted cab
Heated, adjustable air suspension seat with adjustable headrest and armrest
Jog shuttle switch
Air conditioning with climate control
4 speed (high, eco, low, creep) with cruise control
One-touch power boost
Attachment management system
Pull-up type front window with sun roller blind and removable lower front window
Ceiling light
Intermittent upper windshield wiper
Multiple storage compartments (e.g. document holder under seat) and coat hook
Rain visor
Flat, spacious, easy-to-clean floor
Cigarette lighter and ashtray
Cup holder and magazine rack
Anti-theft protection (control panel password)
Hot and cool box
7" (18 cm) LCD colour monitor panel with digital speed display
Automatic rear window defroster
4 operating modes & 4 working modes
Adjustable tiltable steering column
Radio-ready and remote radio On/Off switch
12 V spare power socket
Serial communication port for laptop PC interface
Adjustable PPC wrist control levers for arm, boom, bucket and swing, with sliding proportional control for attachments, FNR switch and auxiliary hydraulic buttons
USB port
DPF regeneration switch
Sliding left front and rear windows with lock
Travel pedals and hand levers
Master key
<b>Safety</b>
Boom, arm, dozer blade and stabilizer cylinder safety valves
Overload warning device
Large handrails and step
Rotating beacon
Rear view camera
Punched metal anti-slip plates
Hydraulic safety lock lever
Safety glass
Hammer for emergency escape
Right and left rearview mirrors
Emergency engine stop and hydraulic pump control switches
Emergency auxiliary FNR travel selector switch
Reinforced cast steel pivot points
Mirror on counterweight
Halogen work lights (2 front frame, 4 front cab-mounted, 2 rear cab-mounted, 2 boom-mounted and 1 rear side)
Street lights with LED stop lamps + LED blinker with side reflex reflectors
Reverse travel alarm (with On/Off switch)
Parking brake and cab swing lock pin
Engine overheat and restart prevention system
<b>Other</b>
One-piece boom 4400 mm – arm: 2100 mm
Counterweight 2200 kg
Powershift transmission
Auto shut-off fuel filler pump
Double element air cleaner
Dry type pre-cleaner
Dust screen for radiator/oil cooler
Separated engine hoods with gas spring. DPF hood screwed & protected
Upperstructure maintenance compartment doors and fuel cap lockable
Self-diagnostic function
Battery (12 V x 2, 150 Ah) with cut-off switch and alternator (24 V, 80 A)
Electric horn
Toolkit and spare parts for first service
Remote greasing for swing circle and workgroup pivot points
Guards for boom lights
<b>Undercarriage</b>
Front cradle and rear parallel dozer blade
Double tyres 10-20 14 PR
3 front axle oscillation lock modes (On/Off/Auto)
Piston rod protection of stabilizer cylinders
Lockable tool box (left side)
Rear & front chain tightening eyes

## \* Optional equipment

<b>Cab &amp; Interior</b>
MP3/USB radio or MP3/USB radio with CD player
<b>Safety</b>
FOGS cab - top and front cab guards (ISO 10262)
Side view camera
2 Lateral safety bars (ISO 2867:2011)
<b>Other</b>
Hydraulic piping for crusher, quick coupler, clamshell, tilting and rotating buckets
Additional filter for breaker piping
One-piece boom 4600 mm – arm: 2500 mm
Two-piece boom 4988 mm (lower : 2000 mm, upper : 3350 mm) – arm: 2500 mm or 2100 mm
Counterweight 2500 kg
Doosan buckets: full range of GP, HD & Rock buckets
Doosan breaker and Doosan quick-couplers
Upper guard for front window
Lower guard for front window
Floating boom function
Wiper for lower front window
Double pump flow
Air compressor
Telescopic rotating beacon
Bio oil
Automatic lubrication system
Homologation preparation (depending on countries)
Microphone
<b>Undercarriage</b>
Single tyres 18-19, 5 16 PR
Lockable tool box (right side)
2 or 4 independent stabilizers with cylinder protection
Front parallel dozer blade



**Microphone**  
For extra safety on crowded worksites.



**2 additional lateral safety bars**  
With raised height for increased safety.



**Air gun and compressor**  
Clears dust inside cab and pump compartment. Cleans filter, radiator and oil cooler. Plugs available in cab, pump compartment and battery box.



**Doosan buckets**  
A range of dependable new Doosan buckets is available to cover several applications.



**Doosan breakers and quick-couplers**  
Doosan provides the tough, reliable equipment you need for demolition work.

Some of these options may be standard in some markets. Some of these options may not be available for certain markets. Please check with your local DOOSAN dealer for more information about availability or to adapt your machine to your application needs.

