

D O O S A N D A E W O O · W H E E L · L O A D E R

MEGA160

DOOSAN DAEWOO NEW WHEEL LOADER

- Operating Weight : 8,460kg (18,650 lb) (Open ROPS Cabin)
8,600kg (18,960 lb) (ROPS Cabin)
- Bucket Capacity : 1.6m³ (2.1 cu ·yd)



DOOSAN
Infracore

Specifications



Engine "Emissions Certified"

		Standard	Low noise
Make and model		DOOSAN DB58	DOOSAN DB58
Flywheel horse power	Gross (SAE J1995)	110HP(81kw) /2,200rpm	99HP(74kw) /2,200rpm
	Net (SAE J1349)	104HP(77kw) /2,200rpm	—
Cooling type		Pusher plastic fan pressurised radiator	Sucker plastic fan driven by hydraulic fan moter

Type 4-Cycle, water cooled, direct injection. Naturally aspired
 Max. torque (SAE J1349) 37kg.m(268ft.lb)/1,600rpm
 Total displacement 5785cc(353in³)
 No. of cylinders 6
 Bore x stroke 102mm(4.02") × 118mm(4.65")
 Air cleaner Dry type(double stage)



Electrical system

Voltage 24v
 Batteries, in series 2 × 12v
 - total capacity 100 Ah
 - type maintenance-free
 Starter motor 24v × 4.5Kw
 Alternator capacity 50A



Torque converter

Type single stage / three phase
 Torque stall ratio 3.057:1



Transmission

Type: full Auto power-shift design with four forward and three reverse speeds.
 Control: single lever electric "fingertip" type.

Forward speeds	kph (mph)
1	6.6(4.1)
2	11.7(7.3)
3	21.4(13.3)
4	34.5(21.4)
Reverse speeds	kph (mph)
1	7.1(4.4)
2	12.2(7.6)
3	22.4(13.9)

Safety device prevents engine starting while in gear



Axles

Rigid front axle, oscillating rear axle with planetary reduction gears in each wheel hub
 Rear axle oscillation 22°
 "Torque proportioning" differential type Trunnion, Fully-Floating and wet disc brakes



Brakes

Type wet multi disc brakes
 Full hydraulic brake circuit
 Independent circuit for each axle dual pedal braking system
 Parking brake: oil released, spring apply hydraulic release(SAHR)on front axle
 Hydraulic control by means of switch in cab.
 The brake circuit complies with the following international standards ISO3450, EEC 71/320, SAE J1473



Tires

Type Tubeless
 Choice of 17.5-25-12PR (L-2)
 17.5-25-12PR (L-3)
 17.5-R25, Radial (L-2 equivalent)



Hydraulic system

Type sealed system with anticavitation and relief valves
 Pump gear type with steel case and automatic wear compensation
 - max. flow delivery 140 ℓ/min (37gal/min)
 - max. working pressure 200kg/cm² (2845psi)
 Control Pilot, single lever
 Double-acting hydraulic cylinders
 Loader arm (2EA)
 bore x stroke 105mm(4.3") × 680mm(26.8")
 Bucket (1EA)
 bore x stroke 130mm(5.1") × 400mm(15.7")
 Operating time
 lift 6.0 s
 lower 3.1 s
 dump 1.5 s
 Hydraulic lines and connecting flanges are equipped with O-ring seals.
 Invaluable for loading and transport on uneven terrain.



Steering

Type hydraulic "load sensing" with priority valve
 Pump utilize the hydraulic system pump
 Max. flow rate 140 ℓ/min (37gal/min)
 Max. working pressure 170 ~ 175kg/cm² (2420 ~ 2490psi)
 Cylinders
 bore x stroke 60mm(2.4") × 395mm(15.5")



Cab

ROPS/FOPS modular cab. Excellent all-round visibility.
 The ROPS/FOPS cab complies with the following standards:
 ROPS - ISO3471-SAE 1040
 FOPS - ISO 3449/SAE J 231
 • External sound power level
 Guaranteed sound power level Lwa 105 dB(A)
 (According to EU Directive 2000/14/EL)

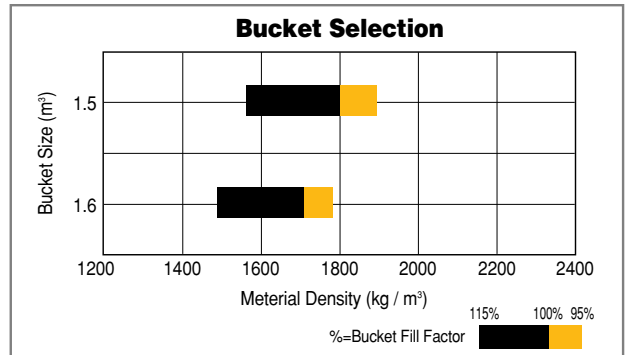
Capacities

ENGINE

Lube oil	13 litres (3.4gal)
Coolant	29 litres (7.7gal)
Fuel tank	185 litres (48.9gal)
Transmission oil	20 litres (5.3gal)
Hydraulic system	100 litres (26.4gal)

AXLES

Front	18 litres (4.7gal)
Rear	18 litres (4.7gal)



Standard equipment

Note: standard and optional equipment may vary by country. consult your dealer for specification.

- Air cleaner, dry type
- Alternator, 50A
- Automatic lift kickout and bucket positioner
- Back-up alarm
- Batteries, maintenance free
- Brakes, oil bath discs
- Open ROPS cab
- Clock
- Standard differential axle
- Drawbar, fixed
- External temperature indicator
- Fenders, front and rear
- Frame lock
- Horn
- Instrument dashboard with:
 - hourmeter, speedometer, tachometer
 - Indicators:
 - transmission oil and engine coolant temperature
 - fuel level

Warning lights:

- battery charge
- brake oil pressure
- engine coolant
- engine oil pressure
- parking brake
- Air-cleaner filter clogging

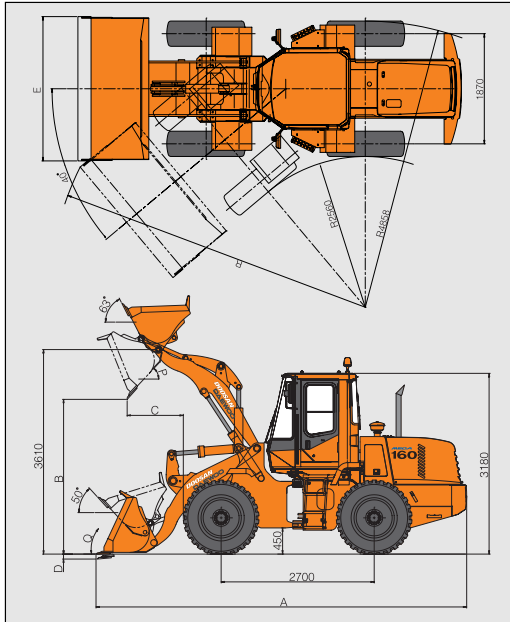
General malfunction warning lights

- Lighting: two headlights, two rear flood lights, two stop lights, two reverse indicator lights
- Parking brake
- Sealed loader linkage
- Seat, cloth covered with elastic suspension
- Single lever pilot control for boom and bucket actuation
- Steering column, adjustment tiltable type
- Steering knob
- Tires, 17.5-25-12PR (L2)
- Bucket with bolt-on cutting edge (1.6m³)
- Tool kit
- Transmission declutch
- Transmission: torque converter and full auto power-shift

Optional equipment

- ROPS cab
- Bucket with bolt-on teeth (1.5m³)
- Bucket with bolt on extended cutting edge (1.6m³)
- Auxiliary hydraulic function
- Emergency steering
- Fire extinguisher
- Air conditioning
- Fuel feeding pump
- Pallet fork
- Road traffic homologation
- Rotating beacon
- Under guard
- Tires (17.5-R25)
- Limited slip differential (LSD) axle

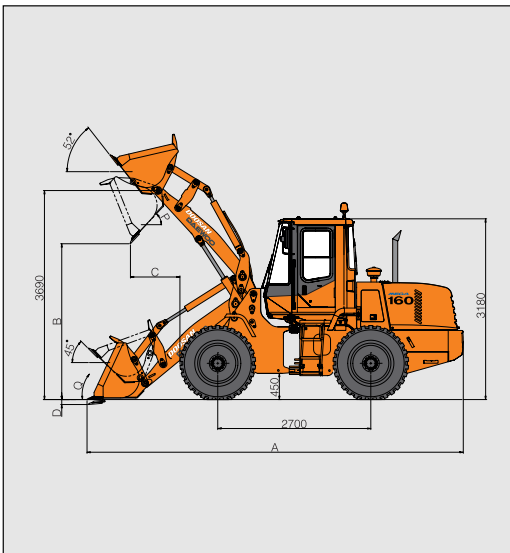
Z-bar linkage



Specifications

Bucket Type (With 17.5-25 tires)	Unit	Cutting Edge		Tooth	
		Standard	Low noise	Standard	Low noise
Capacity heaped	m ³ (yd ³)	1.6 (2.1)		1.5 (2.1)	
Material density	kg/m ³ (lb/yd ³)	1,800 (3,033)		1,800 (3,033)	
Static tipping load, straight	kgf(lbf)	6,500 (14,330)		6,500 (14,330)	
		full turn 40°		5,300 (11,680)	
Breakout force	kgf(lbf)	7,800 (17,200)		7,800 (17,200)	
A Overall length	mm(ft.in)	6,390(20'10")	6,540(21'45")	6,470(21'2")	6,620(21'7")
B Dump Height at 45°	mm(ft.in)	2,745 (9'0")		2,685 (8'8")	
C Dump Reach at 45°	mm(ft.in)	1,020 (3'4")		1,073 (3'5")	
E Bucket width	mm(ft.in)	2,450 (8'0")		2,450 (8'0")	
D Digging depth	mm(ft.in)	73 (2.4")		73 (2.4")	
R Turning radius at bucket	mm(ft.in)	5,390 (17'7")		5,440 (17'8")	
Q Max. tilt angle on ground	deg	42		42	
P Max. dump angle at fully raised	deg	47		47	
Operating weight	kgf(lb)	8,600 (18,960)		8,580 (18,910)	

Parallel linkage



Bucket Type (With 17.5-25 tires)	Unit	W/O Coupler		W/Coupler	
		Standard	Low noise	Standard	Low noise
Capacity heaped	m ³ (yd ³)	1.6 (2.1)		1.5 (2.1)	
Material density	kg/m ³ (lb/yd ³)	1,800 (3,033)		1,800 (3,033)	
Static tipping load, straight	kgf(lbf)	6,100 (13,440)		5,700 (12,560)	
		full turn 40°		5,200 (11,460)	
Breakout force	kgf(lbf)	7,400 (16,314)		6,300 (13,890)	
A Overall length	mm(ft.in)	6,455(21'2")	6,605(21'67")	6,573(21'6")	6,723(22'05")
B Dump Height at 45° (w/o teeth)	mm(ft.in)	2,824 (9'3")		2,728 (8'11")	
B Dump Height at 45° (w/teeth)	mm(ft.in)	2,706 (8'11")		2,619 (8'7")	
C Dump Reach at 45°	mm(ft.in)	899 (2'11")		995 (3'3")	
E Bucket width	mm(ft.in)	2,450 (8'0")		2,450 (8'0")	
D Digging depth	mm(ft.in)	67 (2.6")		67 (2.6")	
R Turning radius (without bucket)	mm(ft.in)	4,859 (15'11")		4,859 (15'11")	
Q Max. tilt angle on ground	deg	46		46	
P Max. dump angle at fully raised	deg	47		47	
Operating weight	kgf(lb)	8,600 (18,960)		9,150 (20,170)	

*All performance data and specifications based on a unit with 17.5-25 tires and ROPS Cabin.



*Specifications are subject to change without prior notice.

Infracore

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