

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 : 1.6m<sup>3</sup> (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(353in<sup>3</sup>)  
 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 Trunion, 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/cm<sup>2</sup> (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/cm<sup>2</sup> (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)



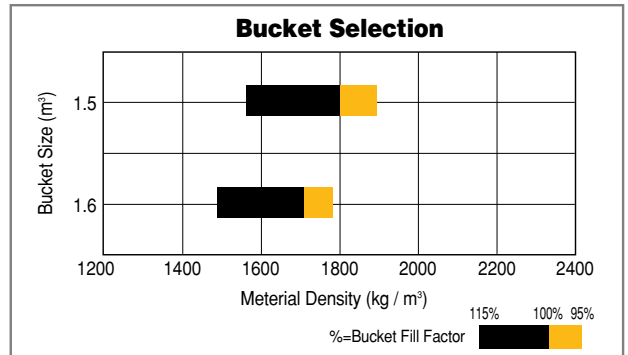
## Capacities

### 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

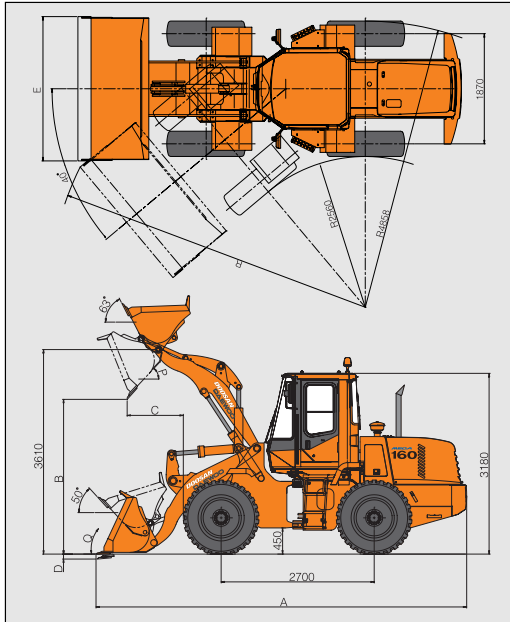
### General malfunction warning lights

- 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

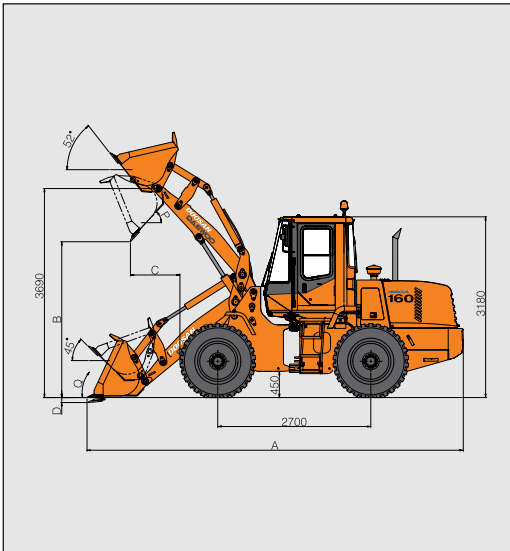
## Z-bar linkage



## Specifications

Bucket Type (With 17.5-25 tires)	Unit	Cutting Edge		Tooth	
		Standard	Low noise	Standard	Low noise
Capacity heaped	m <sup>3</sup> (yd <sup>3</sup> )	1.6 (2.1)		1.5 (2.1)	
Material density	kg/m <sup>3</sup> (lb/yd <sup>3</sup> )	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 <sup>3</sup> (yd <sup>3</sup> )	1.6 (2.1)		1.5 (2.1)	
Material density	kg/m <sup>3</sup> (lb/yd <sup>3</sup> )	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")	
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.

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\*Specifications are subject to change without prior notice.

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