

SOLAR 170w-v

DAEWOO NEW WHEEL TYPE EXCAVATOR

- Operating Weight
 - Articulated Boom : 18,200 kg (40,120 lb)
 - Mono Boom : 17,400 kg (38,360 lb)
- Bucket Capacity (PCSA) : 0.34~0.91m³ (0.44~1.19cu.yd)
- Rated Engine Power : 148HP/2,100 rpm
110 kw/2,100 rpm



Engine

Model DAEWOO DB58T1
Type Water-cooled, 4-cycle,
 6-cylinder in line, direct
 injection chamber type
 diesel engine.

Rated flywheel horse power

DIN 6271, net 110KW (150PS)
 at 2,100 rpm
 SAE J1349, net 110KW (148HP)
 at 2,100 rpm

Piston displacement 5,785cc (353cu.in)

Maximum torque 55 kgf.m (540Nm,
 398 lbf.ft) at 1,600 rpm

Bore and stroke 102mm × 118mm
 (4.0" × 4.6")

Starting system 24V electric motor

Batteries 2 × 12V × 100 AH

Auto-idle system : Engine rpm is reduced automatically to the low
 idle rpm after a lapse of approx. 4 seconds with all control levers in
 neutral position, thus saving energy and reducing noise.

Hydraulic system

Daewoo's EPOS-V (Electronic Power Optimizing System) can
 achieve maximum job efficiency and reduce fuel consumption.

- 3-power mode working system.
- 3-Working mode selection system.
- Computer aided engine pump control.
- Hydraulic system assures fully independent and combined
 operations.
- Cross-sensing and fuel saving pump system.
- Auto idle system.
- 2 speed travel system for high traction force and travel speed.
- Travel motor brake torque-up system.
- Cruise travel system.

Main pumps 2 variable displacement
 axial piston pumps.

Max. oil flow 2 × 184

Mono boom

Cylinders	Qty	Bore × Rod dia. × Stroke
Boom	2	115 × 80 × 1,195 mm (4.5" × 3.1" × 47")
Arm	1	125 × 90 × 1,450 mm (4.9" × 3.5" × 57")
Bucket	1	110 × 75 × 1,025 mm (4.3" × 3.0" × 40")

Articulated boom

Cylinders	Qty	Bore × Rod dia. × Stroke
Boom	2	115 × 80 × 1,032 mm (4.5" × 3.1" × 40.6")
Arti.Boom	1	200 × 130 × 639 mm (7.9" × 5.1" × 25.2")
Arm	1	125 × 90 × 1,450 mm (4.9" × 3.5" × 57")
Bucket	1	110 × 75 × 1,025 mm (4.3" × 3.0" × 40")



Technical Data



Drive

Fully hydrostatic driven, 2 speed power shift transmission, variable displacement, high torque, axial piston motor, foot pedal controls provide smooth travel, hub reduction type front steering axle and rear rigid axle.

Travel speed 0 to 35 km/h (22 mph)

*A maximum speed restriction of 20 km/h is available as an option.

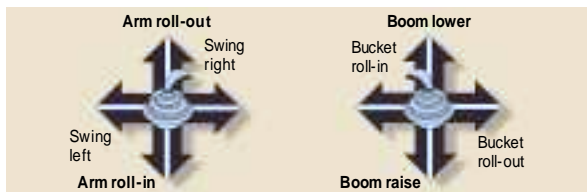
Maximum traction

force 10,510 kgf (23,171 lbf)
Gradeability 34.9° (69.8%) continuous



Controls 3 implement levers

Pilot pressure control type. Right lever is for boom and bucket control, left lever for swing and arm control. Left rear lever is for dozer and outrigger. Left bottom pedel is for articulated boom.



Super-structure revolving frame

A deep, full-reinforced box section. Heavy-gauge steel plates used for ruggedness.



Operator's cab

Independent, shock and noise-free roomy ISO standard operator's cab. 4 side safety glass windows give all-round visibility. Front window slides up and stores in the roof. Left and right side windows opens for ventilation. Fully adjustable reclining seat : fwd./rev. and up/down. Cab cooler is optionally available.

Noise Levels (dynamic valus)

Lpw External noise **104 dB(A)** (95/27/EC)
Lpa Operator ear noise **77 dB(A)** (95/27/EC)



Undercarriage

Heavy-duty frame, all-welded stress-relieved structure. Top grade materials used for toughness. Specially heat-treated connecting pins. 10.00-20-14PR(OTR) double tires with tire spacer. Front axle oscillating hydraulically. Front outrigger and rear dozer as a standard. Front dozer as an option. Rear outrigger as an option.



Brake

Full sealed wet discs service brakes operated fully hydraulic and full sealed wet discs parking brake operated hydraulically.



Weight

Shipping weight-includes 10% fuel,
5,150mm(16'11") mono boom, 2,600mm(8'6") arm,
1,140mm(3'9") backhoe, rear dozer and front outrigger
..... 17,400 kg (38,360 lb)

Major component weight

Mono boom

	kg	lb
Arm : 2,200mm(7'3")	537	1,184
Arm : 2,600mm(8'6")	584	1,287
Arm : 3,100mm(10'2")	639	1,409
Mono boom : 5,150mm(16'11")	1,081	2,383
Upper structure	4,950	10,913
Counter weight	2,700	5,952

Articulated boom

	kg	lb
Arm : 2,200mm(7'3")	537	1,184
Arm : 2,600mm(8'6")	584	1,287
Upper boom : 4,050mm(13'3")	860	1,896
Lower boom : 1,900mm(6'2")	560	1,235
Upper structure	4,950	10,913
Counter weight	2,700	5,952



Service refill capacities

	Liters	US gal	Imp gal
Fuel tank	280	74.0	61.6
Cooling system	49	12.9	10.8
Lubrication			
Engine oil	20.5	5.42	4.51
Swing drive	5	1.32	1.1
Final drive (each)	2	0.53	0.44
Hydraulic tank	205	54.2	45.1



Safety

- Swing lock for long-distance travel and transportation.
- Safety glass windows.
- Spring-engaged/hydraulic-released disc type parking brake.
- Main relief valves.
- Window protector. Optional.
- Lever lock.
- Preventing engine starting on gear shift.
- Monitor for operation.(Engine coolant temp., battery charge, engine oil press, air cleaner clogging, pilot oil filter clogging, brake oil filter clogging, drain filter clogging, Brake oil press, Engine speed)
- Electric double horn.
- Overload relief valves.
- Circuit breaker.

Technical Data



Standard equipment

All weather steel cab with all-round visibility. Safety glass windows. Wide screen wiper. Sliding, fold-in front window. Sliding side window. Lockable door. Deluxe fully adjustable reclining seat. Lever lock. Cab heater. Two room lamps.

Backhoe attachments

Boom and arm are of all welded. Low stress, full box section design. Bucket of all welded, high-strength steel structure.



Optional equipment

Buckets, Arm, Air conditioner, Front dozer, Rear outrigger, Articulated boom, Fuel filler pump, Additional working lamp(on the top of cabin)

Digging forces (Maximum radial tooth forces)

	2.2m (7'3")	2.6m (8'6")	3.1m (10'2")
Bucket digging force *	19,900 kgf	11,200 kgf	11,400 kgf
	110 KN	110 KN	110 KN
	24,030 lbf	24,690 lbf	25,130 lbf
Arm digging force *	10,600 kgf	9,200 kgf	8,200 kgf
	104 KN	90 KN	80 KN
	23,370 lbf	20,280 lbf	18,080 lbf

*At power boost

Articulated boom

	2.2m (7'3")	2.6m (8'6")
Bucket digging force *	11,200 kgf	
	110 KN	
	24,690 lbf	
Arm digging force *	10,600 kgf	9,200 kgf
	104 KN	90 KN
	23,370 lbf	20,280 lbf

*At power boost

Buckets

Capacity		Width		Weight	Recommendation		
PCSA, heaped	CECE, heaped	Without side cutters	With side cutters		2.2m(7'3")Arm	2.6m(8'6")Arm	3.1m(10'2")Arm
0.34 m ³ (0.44 cu.yd ³)	0.31m ³	650mm (26")	564mm (22")	415kg (915 lb)	A	A	A
0.45 m ³ (0.59 cu.yd ³)	0.4m ³	778mm (31")	692mm (27")	456kg (1,005 lb)	A	A	A
0.57 m ³ (0.75 cu.yd ³)	0.51m ³	928mm (37")	842mm (33")	518kg (1,142 lb)	A	A	A
0.7 m ³ (0.92 cu.yd ³)	0.61m ³	1,070mm (42")	984mm (39")	584kg (1,287 lb)	A	A	B
0.76 m ³ (1 cu.yd ³)	0.66m ³	1,140mm (45")	1,054mm (41")	611kg (1,347 lb)	A	A	B
0.81 m ³ (1.06 cu.yd ³)	0.7m ³	1,168mm (46")	1,058mm (42")	692kg (1,526 lb)	A	B	C
0.91 m ³ (1.19 cu.yd ³)	0.8m ³	1,290mm (51")	1,180mm (46")	733kg (1,616 lb)	B	B	C

A. Suitable for materials with density of 1,800 kg/m³ (3,030 lb/cu.yd) or less

B. Suitable for materials with density of 1,600 kg/m³ (2,700 lb/cu.yd) or less

C. Suitable for materials with density of 1,100 kg/m³ (1,850 lb/cu.yd) or less

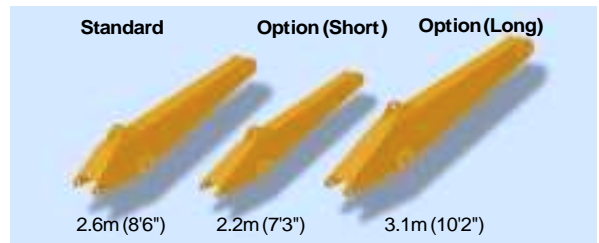
Instrument panel

Engine coolant temperature gauge. Electric hourmeter. Fuel meter. Tachometer. Voltmeter. Hydraulic oil pump pressure gauge. Monitor for during operation(Engine oil pressure, battery charge, engine oil filter clogging, air cleaner clogging, brake filter clogging, pilot filter clogging and return filter clogging). Alarm buzzer(Engine oil pressure, engine coolant temperature and brake oil pressure). Working lights pilot lamp.

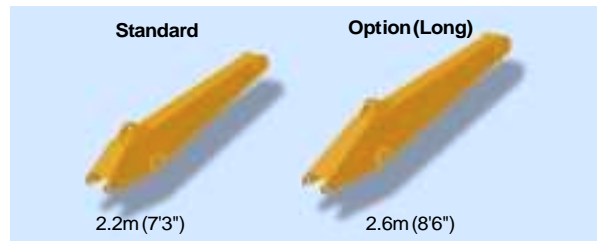
Miscellaneous

Car stereo. Electric double horn. Cigarette lighter. Ashtray. Magazine box. Swing lock. Lockable machine cover. Radiator reserve tank. Air cleaner evacuator. Hyd. oil filters. Working lights(basic machine and boom).

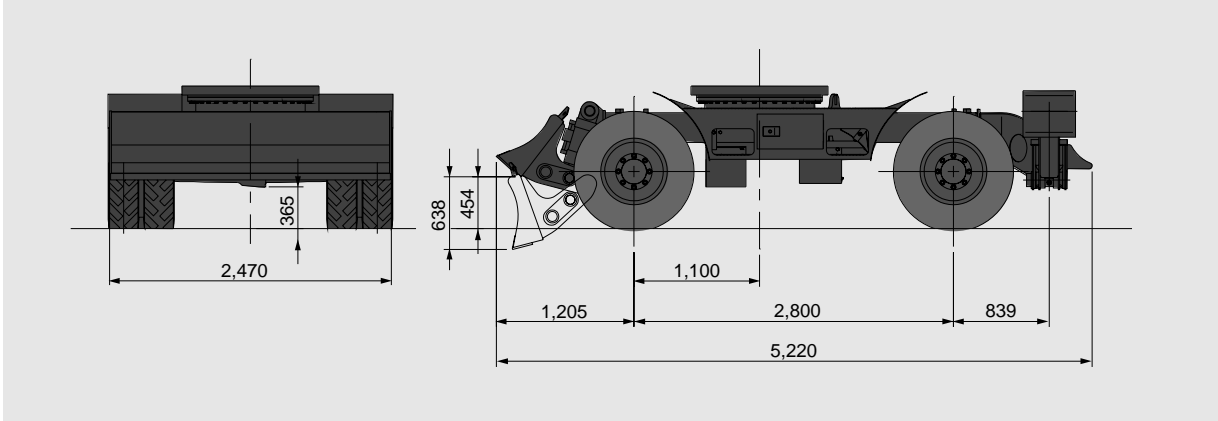
Arm Mono boom



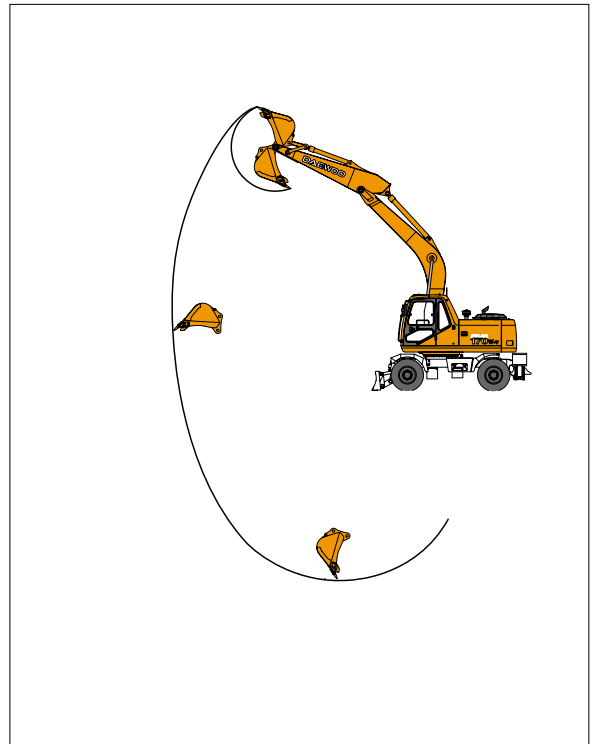
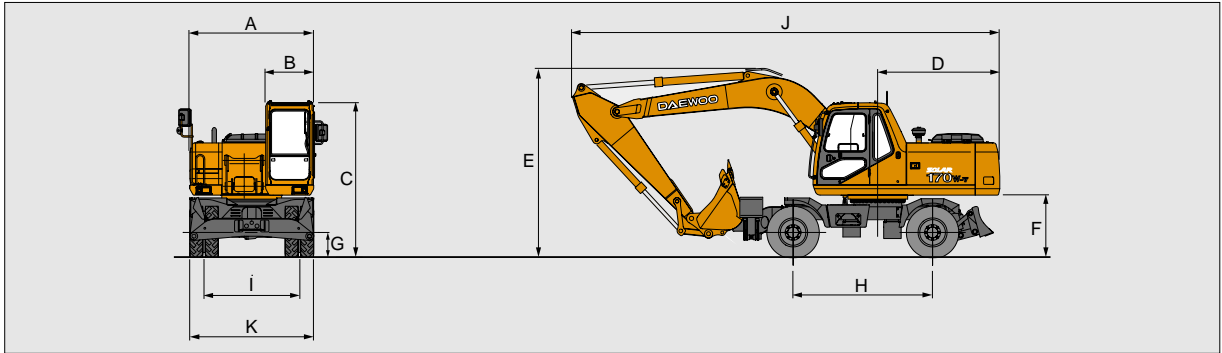
Articulated boom



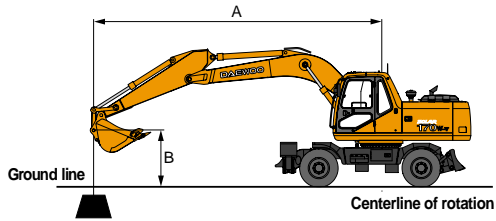
Undercarriage



Specifications & Working Ranges (Mono boom)

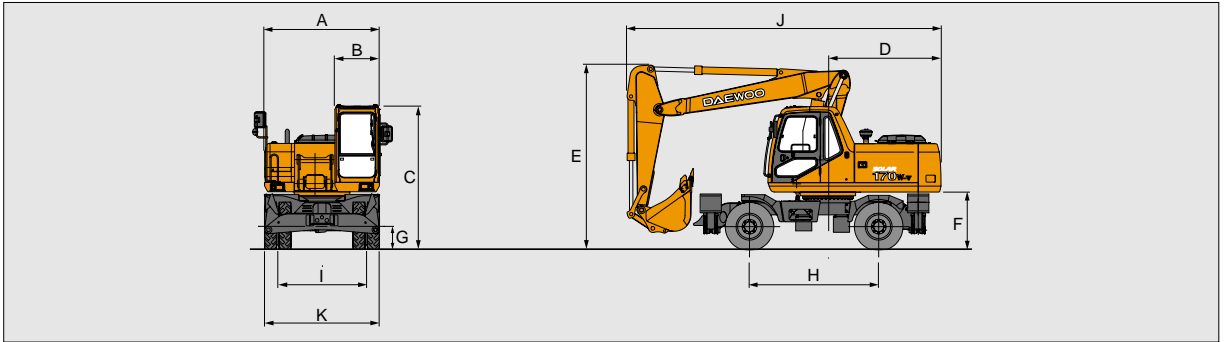


Lifting Capacities (Mono boom)

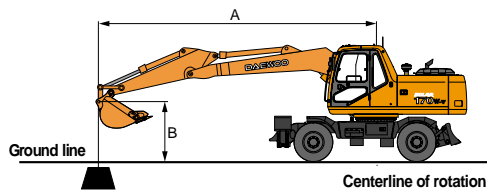


A : Load radius from centerline of rotation
B : Load point height

Specifications & Working Ranges (Articulated boom)



Lifting Capacities (Articulated boom)



A : Load radius from centerline of rotation
B : Load point height



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* Specifications are subject to change without prior notice

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