

SECTION 1 GENERAL



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SECTION 1 GENERAL

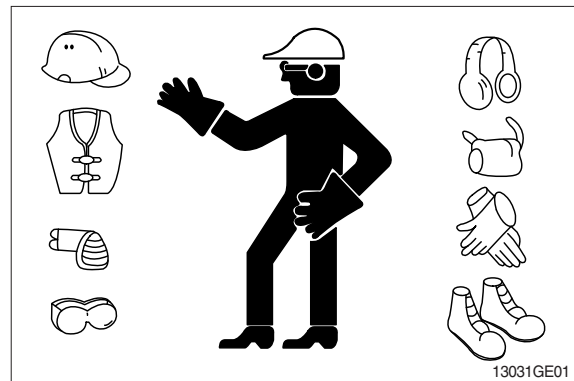
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

Unsafe work practices are dangerous. Understand service procedure before doing work; do not attempt shortcuts.

WEAR PROTECTIVE CLOTHING

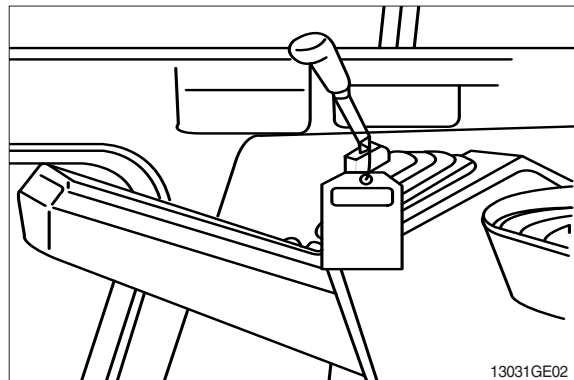
Wear close fitting clothing and safety equipment appropriate to the job.



WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

Before performing any work on the excavator, attach a 「Do Not Operate」 tag on the right side control lever.



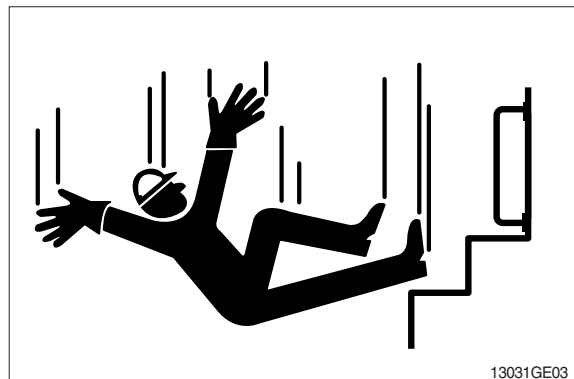
USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.

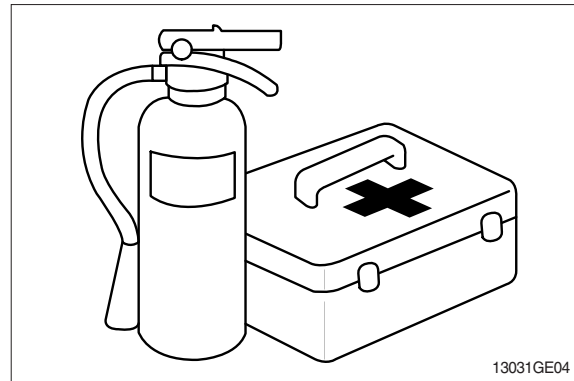


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

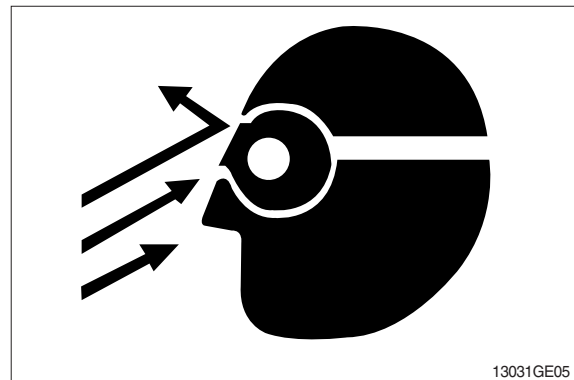
Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



PROTECT AGAINST FLYING DEBRIS

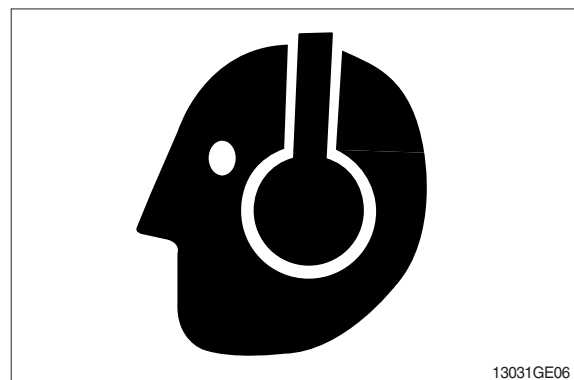
Guard against injury from flying pieces of metal or debris; wear goggles or safety glasses.



PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

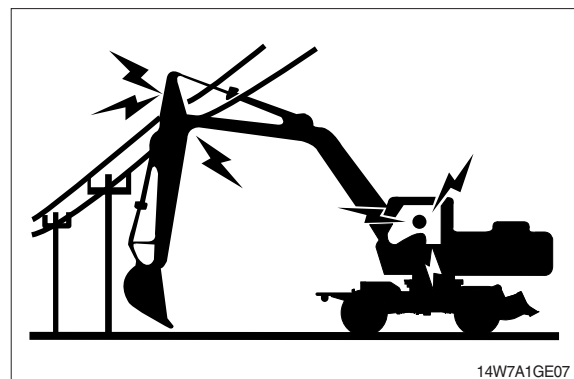
Wear a suitable hearing protective device such as ear-muffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

Serious injury or death can result from contact with electric lines.

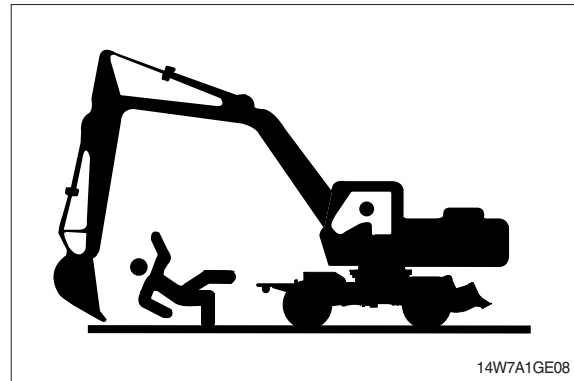
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



KEEP RIDERS OFF EXCAVATOR

Only allow the operator on the excavator. Keep riders off.

Riders on excavator are subject to injury such as being struck by foreign objects and being thrown off the excavator. Riders also obstruct the operator's view resulting in the excavator being operated in an unsafe manner.

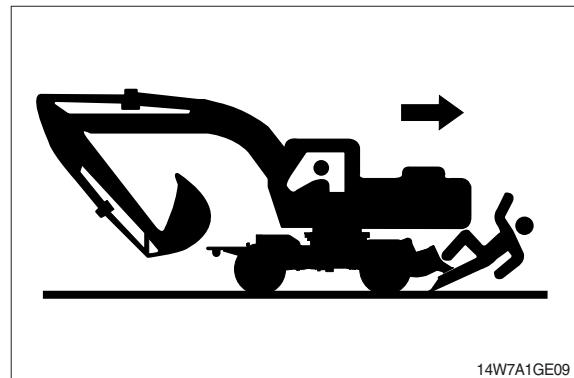


MOVE AND OPERATE MACHINE SAFELY

Bystanders can be run over. Know the location of bystanders before moving, swinging, or operating the machine.

Always keep the travel alarm in working condition. It warns people when the excavator starts to move.

Use a signal person when moving, swinging, or operating the machine in congested areas. Coordinate hand signals before starting the excavator.



OPERATE ONLY FROM OPERATOR'S SEAT

Avoid possible injury machine damage. Do not start engine by shorting across starter terminals.

NEVER start engine while standing on ground. Start engine only from operator's seat.



PARK MACHINE SAFELY

Before working on the machine:

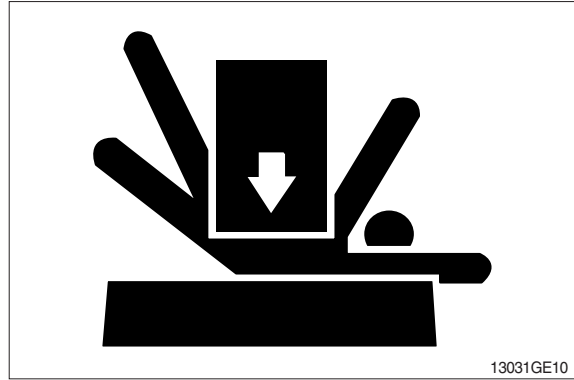
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine.
Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load.

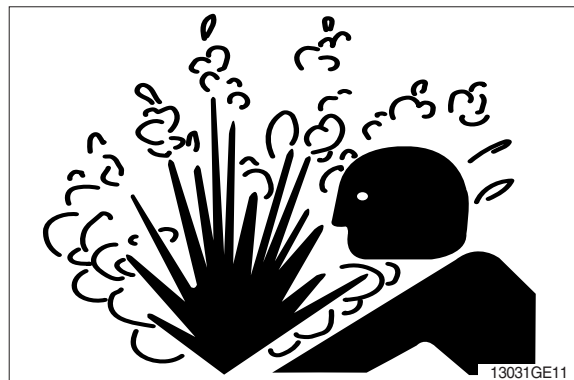
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

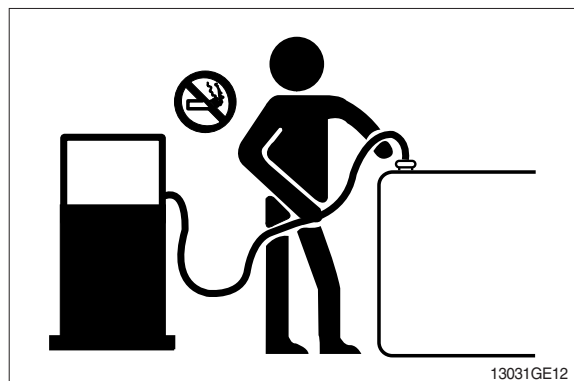
Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



HANDLE FLUIDS SAFELY-AVOID FIRES

Handle fuel with care; it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine.

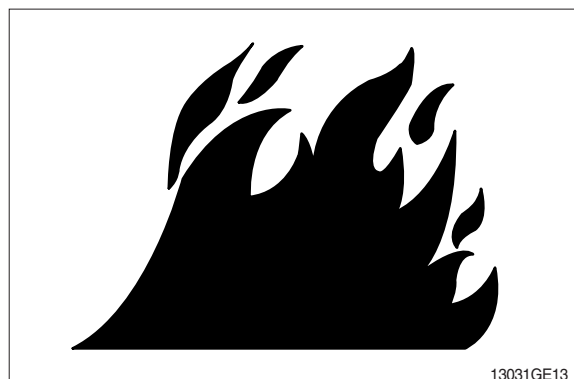
Fill fuel tank outdoors.



Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags ; they can ignite and burn spontaneously.



BEWARE OF EXHAUST FUMES

Prevent asphyxiation. Engine exhaust fumes can cause sickness or death.

If you must operate in a building, be positive there is adequate ventilation. Either use an exhaust pipe extension to remove the exhaust fumes or open doors and windows to bring enough outside air into the area.

REMOVE PAINT BEFORE WELDING OR HEATING

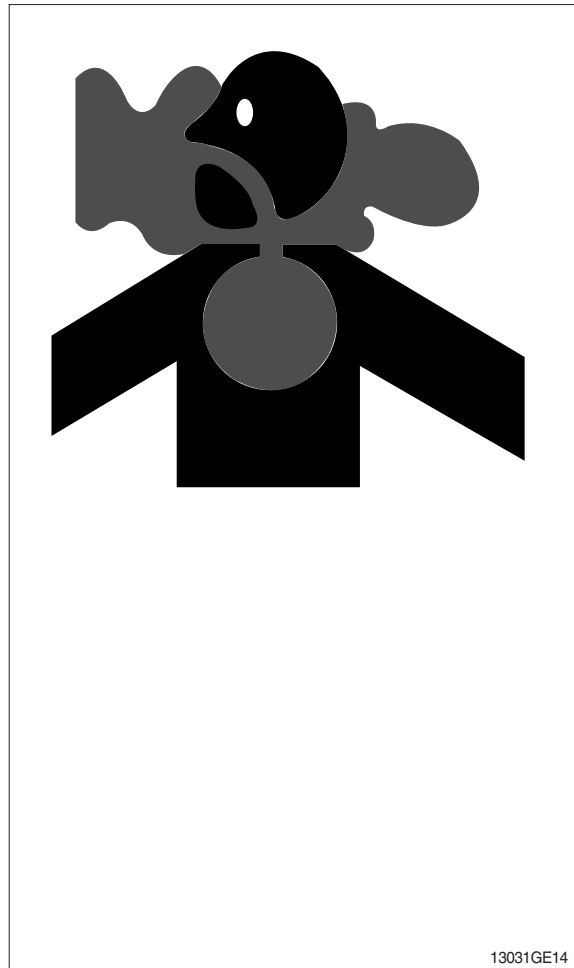
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

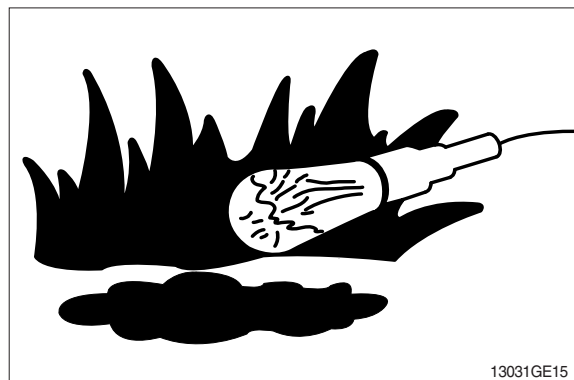
Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust.
Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



ILLUMINATE WORK AREA SAFELY

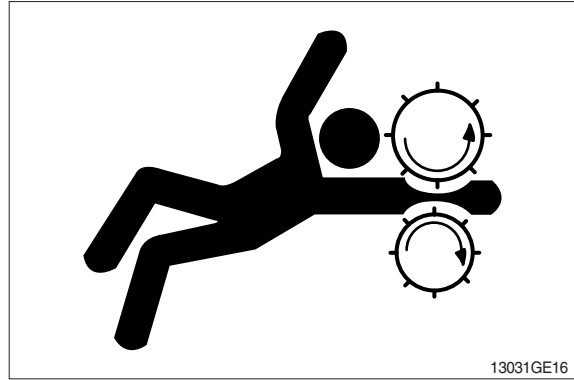
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



SERVICE MACHINE SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

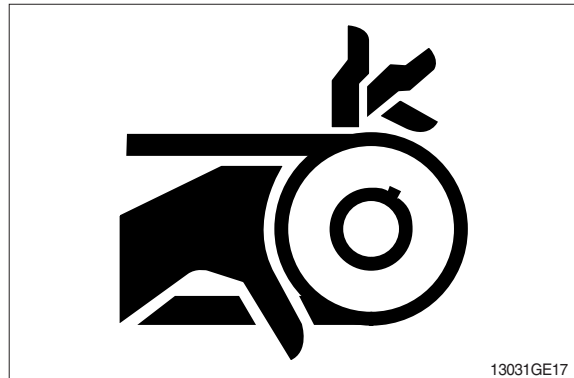
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

To prevent accidents, use care when working around rotating parts.



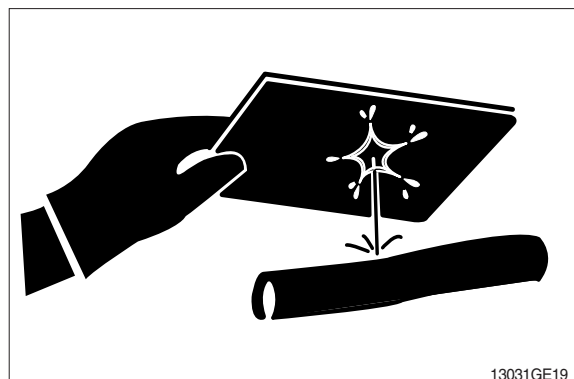
AVOID HIGH PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.



AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials.

Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. Install fire resisting guards to protect hoses or other materials.



PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).



PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

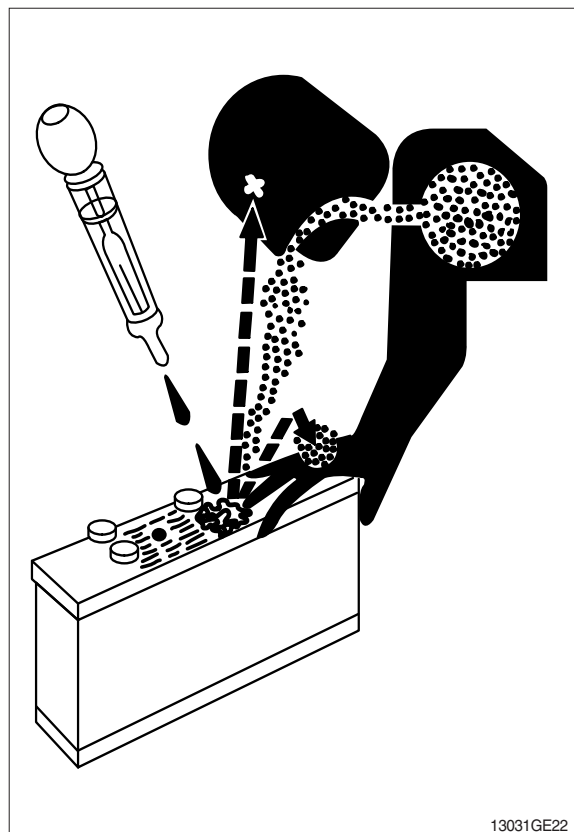
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10-15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



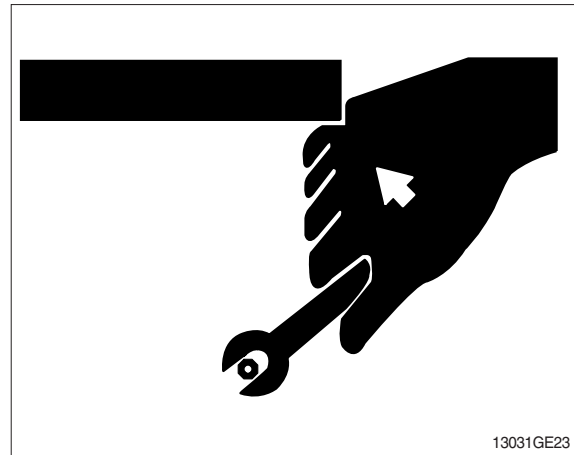
USE TOOLS PROPERLY

Use tools appropriate to the work. Makeshift tools, parts, and procedures can create safety hazards.

Use power tools only to loosen threaded tools and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only recommended replacement parts. (See Parts manual.)

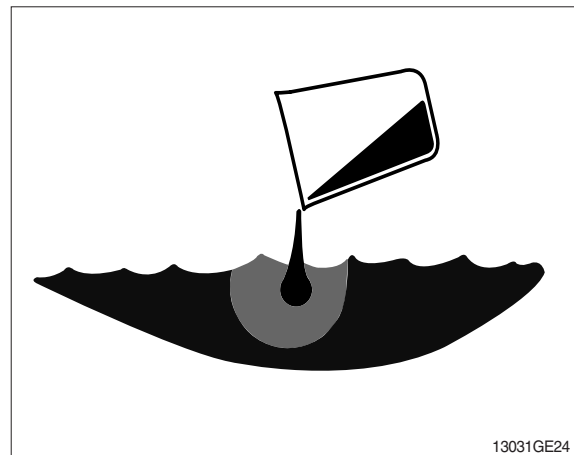


DISPOSE OF FLUIDS PROPERLY

Improperly disposing of fluids can harm the environment and ecology. Before draining any fluids, find out the proper way to dispose of waste from your local environmental agency.

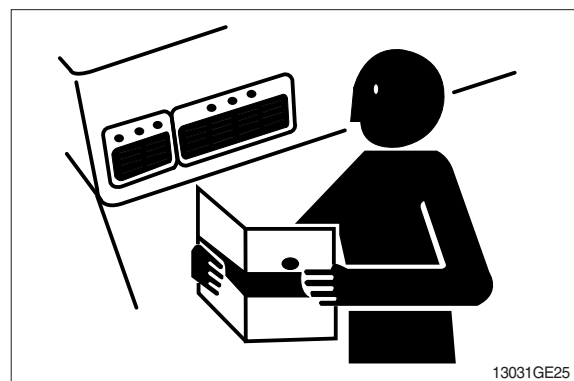
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

DO NOT pour oil into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, and other harmful waste.



REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.

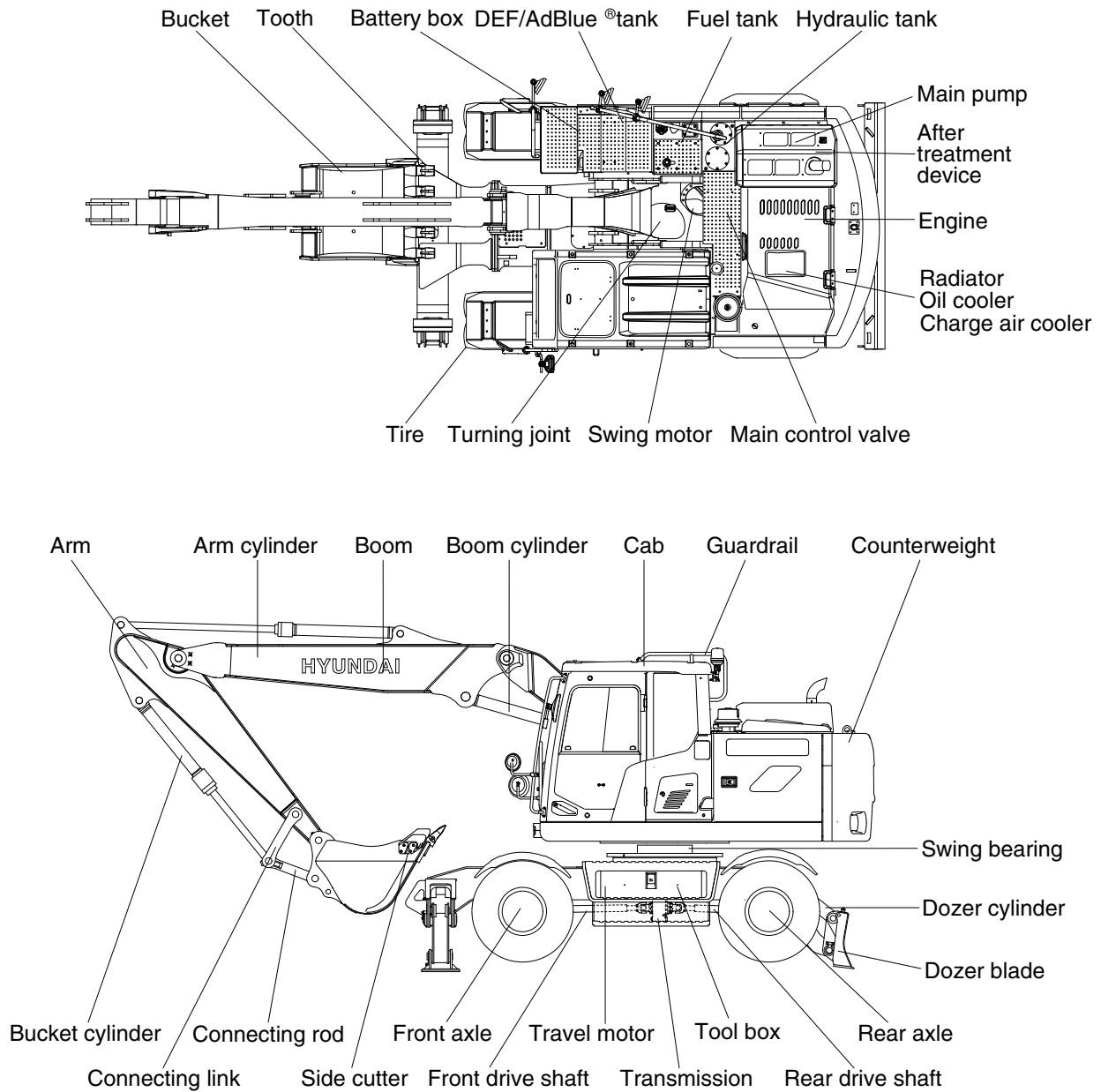


LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.

GROUP 2 SPECIFICATIONS

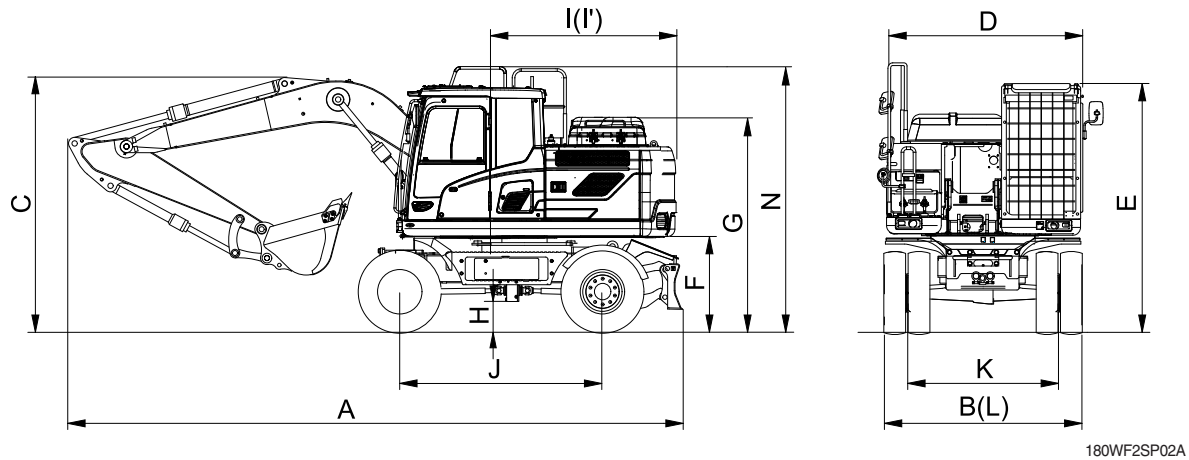
1. MAJOR COMPONENT



160WA2SP01

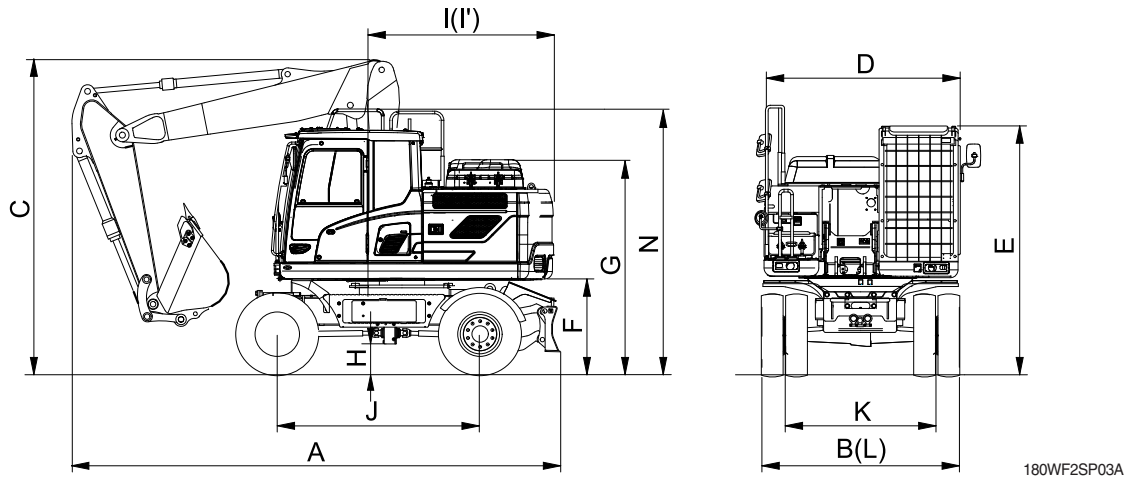
2. SPECIFICATIONS

1) HW160A, HW180A, MONO BOOM



Description		Unit		Specification			
		m (ft-in)	Boom Arm	5.0 (16' 4")			
Operating weight		kg (lb)		17580 (38760)	17540 (38670)	17650 (38910)	17760 (39150)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		0.70 (0.92)	0.70 (0.92)	0.70 (0.92)	0.70 (0.92)
Overall length (traveling)	A	mm (ft-in)		8180 (26' 10")	8230 (27' 0")	8065 (26' 6")	8040 (26' 5")
Overall length (shipping)				8240 (27' 0")	8300 (27' 3")	8260 (27' 1")	8230 (27' 0")
Overall width	B			2530 (8' 4")	2530 (8' 4")	2530 (8' 4")	2530 (8' 4")
Overall height of boom	C			3660 (12' 0")	3670 (12' 0")	3940 (12' 11")	4000 (13' 1")
Upperstructure width	D			2485 (8' 2")	2485 (8' 2")	2485 (8' 2")	2485 (8' 2")
Cab height	E			3230 (10' 7")	3230 (10' 7")	3230 (10' 7")	3230 (10' 7")
Ground clearance of counterweight	F			1265 (4' 2")	1265 (4' 2")	1265 (4' 2")	1265 (4' 2")
Engine cover height	G			2735 (9' 0")	2735 (9' 0")	2735 (9' 0")	2735 (9' 0")
Minimum ground clearance	H			370 (1' 3")	370 (1' 3")	370 (1' 3")	370 (1' 3")
Rear-end distance	I			2240 (7' 4")	2240 (7' 4")	2240 (7' 4")	2240 (7' 4")
Rear-end swing radius	I'			2250 (7' 5")	2250 (7' 5")	2250 (7' 5")	2250 (7' 5")
Wheel base	J			2600 (8' 6")	2600 (8' 6")	2600 (8' 6")	2600 (8' 6")
Tread	Std axle		K	1944 (6' 5")	1944 (6' 5")	1944 (6' 5")	1944 (6' 5")
	Wide axle			2114 (6' 11")	2114 (6' 11")	2114 (6' 11")	2114 (6' 11")
Dozer blade width	L			2530 (8' 4")	2530 (8' 4")	2530 (8' 4")	2530 (8' 4")
Overall height of guardrail	N			3450 (11' 4")	3450 (11' 4")	3450 (11' 4")	3450 (11' 4")
Travel speed	Low	km/hr (mph)		10 (6.2)	10 (6.2)	10 (6.2)	10 (6.2)
	High			35 (21.7)	35 (21.7)	35 (21.7)	35 (21.7)
	Creep			3 (1.9)	3 (1.9)	3 (1.9)	3 (1.9)
Swing speed		rpm		9.50	9.50	9.50	9.50
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Max traction force		kg (lb)		10506	10506	10506	10506

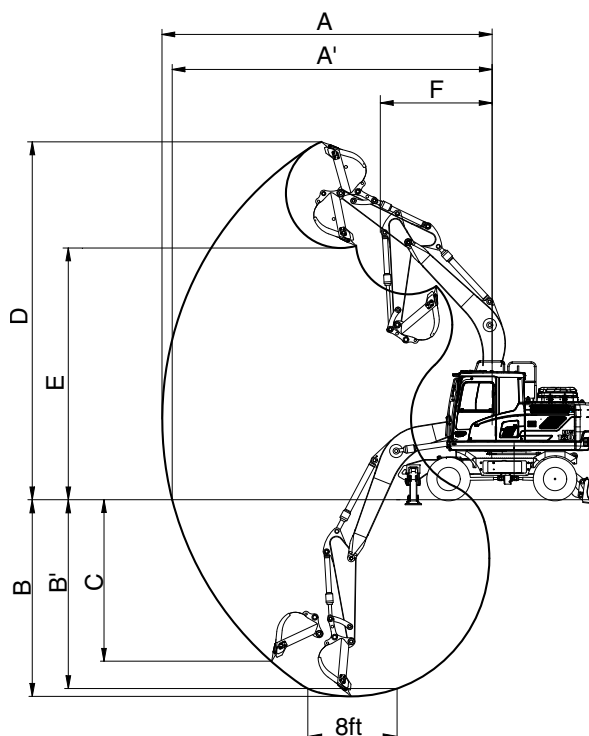
2) HW160A, HW180A, 2-PIECE BOOM



Description			Unit		Specification		
			m (ft-in)	Boom	5.1 (16' 7")		
				Arm	2.45 (8' 0")	2.00 (6' 50")	2.60 (8' 5")
Operating weight			kg (lb)		18390 (40540)	18350 (40450)	18460 (40700)
Bucket capacity (SAE heaped), standard			m³ (yd³)		0.70 (0.92)	0.70 (0.92)	0.70 (0.92)
Overall length (traveling)		A	mm (ft-in)	6340 (20' 10")	6375 (20' 11")	6280 (20' 7")	
Overall length (shipping)				8320 (27' 4")	8360 (27' 5")	8285 (27' 2")	
Overall width		B		2530 (8' 4")	2530 (8' 4")	2530 (8' 4")	
Overall height of boom		C		3990 (13' 1")	3980 (13' 1")	3980 (13' 1")	
Upperstructure width		D		2485 (8' 2")	2485 (8' 2")	2485 (8' 2")	
Cab height		E		3230 (10' 7")	3230 (10' 7")	3230 (10' 7")	
Ground clearance of counterweight		F		1265 (4' 2")	1265 (4' 2")	1265 (4' 2")	
Engine cover height		G		2735 (9' 0")	2735 (9' 0")	2735 (9' 0")	
Minimum ground clearance		H		370 (1' 3")	370 (1' 3")	370 (1' 3")	
Rear-end distance		I		2240 (7' 4")	2240 (7' 4")	2240 (7' 4")	
Rear-end swing radius		I'		2250 (7' 5")	2250 (7' 5")	2250 (7' 5")	
Wheel base		J		2600 (8' 6")	2600 (8' 6")	2600 (8' 6")	
Tread	Std axle	K		1944 (6' 5")	1944 (6' 5")	1944 (6' 5")	
	Wide axle			2114 (6' 11")	2114 (6' 11")	2114 (6' 11")	
Dozer blade width		L		2530 (8' 4")	2530 (8' 4")	2530 (8' 4")	
Overall height of guardrail		N		3450 (11' 4")	3450 (11' 4")	3450 (11' 4")	
Travel speed		Low	km/hr (mph)	10 (6.2)	10 (6.2)	10 (6.2)	
		High		35 (21.7)	35 (21.7)	35 (21.7)	
		Creep		3 (1.9)	3 (1.9)	3 (1.9)	
Swing speed			rpm	9.50	9.50	9.50	
Gradeability			Degree (%)	35 (70)	35 (70)	35 (70)	
Max traction force			kg (lb)	10506	10506	10506	

3. WORKING RANGE AND DIGGING POWER

1) HW160A, HW180A, MONO BOOM

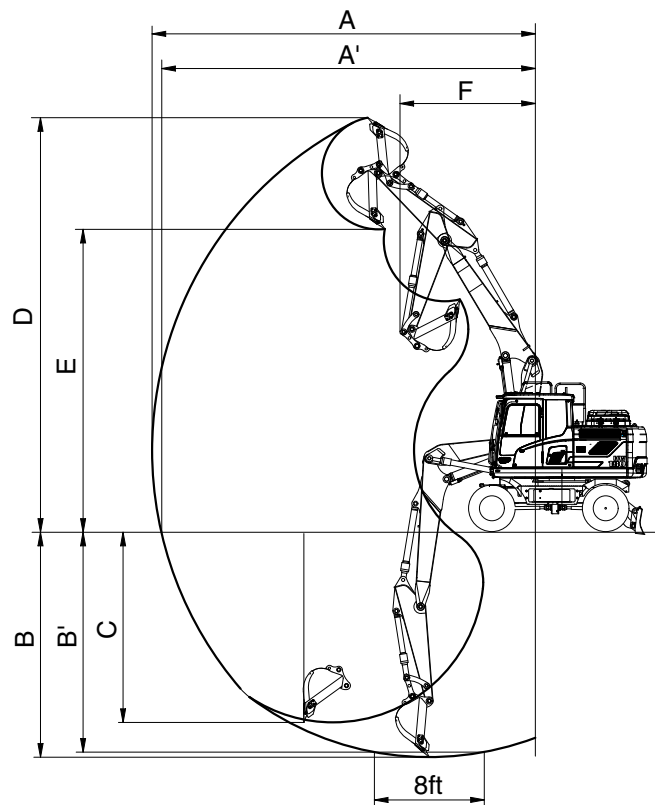


180WF2SP04

Description		2.45 m (8' 0") Arm	2.00 m (6' 7") Arm	2.60 m (8' 6") Arm	3.10 m (10' 2") Arm
Max digging reach	A	8820 (28' 11")	8360 (27' 5")	8865 (29' 1")	9285 (30' 6")
Max digging reach on ground	A'	8610 (28' 3")	8140 (26' 8")	8660 (28' 5")	9090 (29' 10")
Max digging depth	B	5610 (18' 5")	5160 (16' 11")	5760 (18' 11")	6260 (20' 6")
Max digging depth (8 ft level)	B'	5410 (17' 9")	4910 (16' 1")	5530 (18' 2")	6045 (19' 10")
Max vertical wall digging depth	C	5060 (16' 7")	4430 (14' 6")	4870 (16' 0")	5220 (17' 2")
Max digging height	D	9010 (29' 7")	8640 (28' 4")	8810 (28' 11")	8920 (29' 3")
Max dumping height	E	6360 (20' 10")	6030 (19' 9")	6210 (20' 4")	6350 (20' 10")
Min swing radius	F	3170 (10' 5")	3480 (11' 5")	3450 (11' 4")	3500 (11' 6")
Bucket digging force	SAE	98.0 [106.9]	98.2 [107.1]	98.3 [107.3]	98.4 [107.3]
		9992 [10900]	10008 [10920]	10026 [10940]	10029 [10940]
		22030 [24030]	22060 [24070]	22100 [24120]	22110 [24120]
	ISO	114.8 [125.2]	115.0 [125.4]	115.2 [125.6]	115.2 [125.7]
		11706 [12770]	11726 [12790]	11746 [12810]	11750 [12820]
		25810 [28150]	25850 [28200]	25900 [28240]	25900 [28260]
Arm digging force	SAE	73.2 [79.9]	92.3 [100.7]	72.6 [79.1]	64.5 [70.3]
		7468 [8150]	9417 [10270]	7401 [8070]	6572 [7170]
		16460 [17970]	20760 [22640]	16320 [17790]	14490 [15810]
	ISO	76.6 [83.7]	97.4 [106.2]	75.9 [82.8]	67.0 [73.1]
		7816 [8530]	9928 [10830]	7737 [8440]	6833 [7450]
		17230 [18810]	21890 [23880]	17060 [18610]	15060 [16420]

* : Standard [] : Power boost

2) HW160A, HW180A, 2-PIECE BOOM



180WF2SP05

Description		2.45 m (8' 0") Arm	2.00 m (6' 7") Arm	2.60 m (8' 6") Arm
Max digging reach	A	8990 (29' 6")	8530 (28' 0")	9060 (29' 9")
Max digging reach on ground	A'	8790 (28' 10")	8310 (27' 3")	8860 (29' 1")
Max digging depth	B	5540 (18' 2")	5080 (16' 8")	5660 (18' 7")
Max digging depth (8 ft level)	B'	5440 (17' 10")	4970 (16' 4")	5560 (18' 3")
Max vertical wall digging depth	C	4775 (15' 8")	4240 (13' 11")	4770 (15' 8")
Max digging height	D	9870 (32' 5")	9450 (31' 0")	9770 (32' 1")
Max dumping height	E	7140 (23' 5")	6740 (22' 1")	7070 (23' 2")
Min swing radius	F	3030 (9' 11")	3370 (11' 1")	3500 (11' 6")
Bucket digging force	SAE	98.0 [106.9]	98.2 [107.1]	98.3 [107.3]
		9992 [10900]	10008 [10920]	10026 [10940]
		22030 [24030]	22060 [24070]	22100 [24120]
	ISO	114.8 [125.2]	115.0 [125.4]	115.2 [125.6]
		11706 [12770]	11726 [12790]	11746 [12810]
		25810 [28150]	25850 [28200]	25900 [28240]
Arm digging force	SAE	73.2 [79.9]	92.3 [100.7]	72.6 [79.1]
		7468 [8150]	9417 [10270]	7401 [8070]
		16460 [17970]	20760 [22640]	16320 [17790]
	ISO	76.6 [83.7]	97.4 [106.2]	75.9 [82.8]
		7816 [8530]	9928 [10830]	7737 [8440]
		17230 [18810]	21890 [23880]	17060 [18610]

[] : Power boost

4. WEIGHT

Item	HW160A, HW180A	
	kg	lb
Upperstructure assembly	8240	19170
· Main frame weld assembly	1283	2830
· Engine assembly	378	830
· Aftertreatment assembly	64	140
· Main pump assembly	91	200
· Main control valve assembly	144	320
· Swing motor assembly	148	330
· Hydraulic oil tank WA	135	300
· Fuel tank WA	138	300
· Counterweight	2914	6420
· Cab assembly	495	1090
Lower chassis assembly	5860	12920
· Lower frame weld assembly	1552	3420
· Swing bearing	260	570
· Travel motor assembly (2EA)	80	180
· Turning joint	117	260
· Transmission assembly	135	300
· Front axle assembly	637	1400
· Front axle assembly (wide)	655	1440
· Rear axle assembly	534	1180
· Rear axle assembly (wide)	547	1210
· Dozer blade assembly (front)	810	1790
· Dozer blade assembly (rear)	809	1780
Front attachment assembly (4.6 m boom, 2.45 m arm, 0.58 m³ SAE heaped bucket)	3480	7670
· 5.0 m boom assembly	1023	2260
· 5.1 m 2pcs boom assembly	1108	2440
· 2.45 m arm assembly	499	1100
· 2.00 m arm assembly	457	1010
· 2.60 m arm assembly	560	1230
· 3.10 m arm assembly	652	1440
· 0.70 m³ SAE heaped bucket assembly	599	1320
· 0.76 m³ SAE heaped bucket assembly	620	1370
· 0.89 m³ SAE heaped bucket assembly	684	1510
· 1.05 m³ SAE heaped bucket assembly	740	1630
· 0.73 m³ SAE heaped bucket assembly	617	1360
· 0.85 m³ SAE heaped bucket assembly	669	1470
· 0.69 m³ SAE heaped bucket assembly	724	1600
· 0.75 m³ SAE heaped bucket assembly	536	1180
· Bucket control link assembly	157	350
· Boom cylinder assembly (2EA)	282	620
· Adjustable boom cylinder assembly (2EA)	266	590
· Arm cylinder assembly	169	370
· Bucket cylinder assembly	123	270
· Oscillating cylinder assembly (2EA)	94	210
· Adjustable cylinder assembly	209	460
· Outrigger cylinder assembly (2EA)	182	400
· Blade cylinder assembly (front) (2EA)	86	190
· Blade cylinder assembly (rear) (2EA)	86	190
· Front outrigger assembly	1045	2300
· Rear outrigger assembly	1046	2310

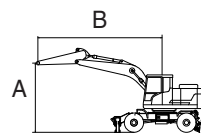
5. LIFTING CAPACITIES









1) 5.0 m MONO BOOM+2910 kg COUNTERWEIGHT

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2000	2910	-	500	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg lb			*4560 *10050	*4560 *10050			*4580 *10100	3240 7140	5.60 (18.4)
4.5 m (14.8 ft)	kg lb			*5180 *11420	4470 9850	4430 9770	2860 6310	3920 8640	2530 5580	6.47 (21.2)
3.0 m (9.8 ft)	kg lb			*6290 *13870	4170 9190	4320 9520	2760 6080	3480 7670	2230 4920	6.90 (22.6)
1.5 m (4.9 ft)	kg lb			6430 14180	3920 8640	4190 9240	2640 5820	3360 7410	2130 4700	6.99 (22.9)
0.0 m (0.0 ft)	kg lb			6290 13870	3800 8380	4120 9080	2580 5690	3510 7740	2210 4870	6.73 (22.1)
-1.5 m (-4.9 ft)	kg lb	*9960 *21960	7040 15520	6290 13870	3800 8380	4130 9110	2590 5710	4040 8910	2540 5600	6.10 (20.0)
-3.0 m (-9.8 ft)	kg lb	*7850 *17310	7220 15920	*5540 *12210	3920 8640			*4790 *10560	3470 7650	4.94 (16.2)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

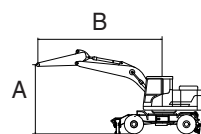
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.









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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2000	2910	-	500	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg lb			*4560 *10050	4210 9280			*4580 *10100	2940 6480	5.60 (18.4)
4.5 m (14.8 ft)	kg lb			*5180 *11420	4040 8910	4430 9770	2590 5710	3920 8640	2290 5050	6.47 (21.2)
3.0 m (9.8 ft)	kg lb			*6290 *13870	3760 8290	4320 9520	2490 5490	3480 7670	2010 4430	6.90 (22.6)
1.5 m (4.9 ft)	kg lb			6430 14180	3510 7740	4190 9240	2380 5250	3360 7410	1920 4230	6.99 (22.9)
0.0 m (0.0 ft)	kg lb			6290 13870	3390 7470	4120 9080	2310 5090	3510 7740	1990 4390	6.73 (22.1)
-1.5 m (-4.9 ft)	kg lb	*9960 *21960	6180 13620	6290 13870	3390 7470	4130 9110	2320 5110	4040 8910	2280 5030	6.10 (20.0)
-3.0 m (-9.8 ft)	kg lb	*7850 *17310	6360 14020	*5540 *12210	3510 7740			*4790 *10560	3120 6880	4.94 (16.2)

Note 1. Lifting capacity are based on ISO 10567.

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Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

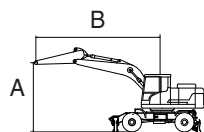
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2450	2910	-	500	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*3180 *7010	*3180 *7010	4.77 (15.7)
6.0 m (19.7 ft)	kg lb							*3550 *7830	2940 6480	*2750 *6060	*2750 *6060	6.16 (20.2)
4.5 m (14.8 ft)	kg lb					*4730 *10430	4540 10010	*4240 *9350	2900 6390	*2630 *5800	2260 4980	6.96 (22.8)
3.0 m (9.8 ft)	kg lb					*5890 *12990	4240 9350	4350 9590	2780 6130	*2660 *5860	2020 4450	7.36 (24.2)
1.5 m (4.9 ft)	kg lb					6470 14260	3960 8730	4200 9260	2650 5840	*2830 *6240	1940 4280	7.44 (24.4)
0.0 m (0.0 ft)	kg lb			*5870 *12940	*5870 *12940	6290 13870	3800 8380	4110 9060	2570 5670	3170 6990	2000 4410	7.21 (23.6)
-1.5 m (-4.9 ft)	kg lb	*5810 *12810	*5810 *12810	*10160 *22400	6950 15320	6250 13780	3770 8310	4090 9020	2550 5620	3570 7870	2250 4960	6.62 (21.7)
-3.0 m (-9.8 ft)	kg lb	*10280 *22660	*10280 *22660	*8790 *19380	7110 15670	*6160 *13580	3840 8470			*4540 *10010	2900 6390	5.57 (18.3)

Note 1. Lifting capacity are based on ISO 10567.

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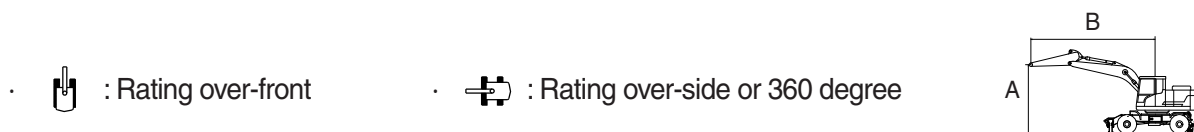
Lifting capacities will vary with different work tools, ground conditions and attachments.











The difference between the weight of a work tool attachment must be subtracted.

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▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2450	2910	-	500	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*3180 *7010	*3180 *7010	4.77 (15.7)
6.0 m (19.7 ft)	kg lb							*3550 *7830	2670 5890	*2750 *6060	2540 5600	6.16 (20.2)
4.5 m (14.8 ft)	kg lb					*4730 *10430	4120 9080	*4240 *9350	2630 5800	*2630 *5800	2050 4520	6.96 (22.8)
3.0 m (9.8 ft)	kg lb					*5890 *12990	3820 8420	4350 9590	2510 5530	*2660 *5860	1820 4010	7.36 (24.2)
1.5 m (4.9 ft)	kg lb					6470 14260	3550 7830	4200 9260	2390 5270	*2830 *6240	1740 3840	7.44 (24.4)
0.0 m (0.0 ft)	kg lb			*5870 *12940	*5870 *12940	6290 13870	3390 7470	4110 9060	2300 5070	*3170 6990	1790 3950	7.21 (23.6)
-1.5 m (-4.9 ft)	kg lb	*5810 *12810	*5810 *12810	*10160 *22400	6100 13450	6250 13780	3360 7410	4090 9020	2280 5030	3570 7870	2020 4450	6.62 (21.7)
-3.0 m (-9.8 ft)	kg lb	*10280 *22660	*10280 *22660	*8790 *19380	6250 13780	*6160 *13580	3430 7560			*4540 *10010	2600 5730	5.57 (18.3)

Note 1. Lifting capacity are based on ISO 10567.

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3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

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Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

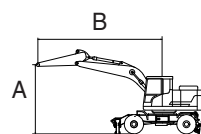
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




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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2600	2910	-	500	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg											*3360	*3360	4.96
	lb											*7410	*7410	(16.3)
6.0 m (19.7 ft)	kg							*3960	2940			*2950	2680	6.31
	lb							*8730	6480			*6500	5910	(20.7)
4.5 m (14.8 ft)	kg					*4540	4540	*4110	2890			*2830	2180	7.09
	lb					*10010	10010	*9060	6370			*6240	4810	(23.3)
3.0 m (9.8 ft)	kg					*5700	4230	4330	2760			*2880	1940	7.49
	lb					*12570	9330	9550	6080			*6350	4280	(24.6)
1.5 m (4.9 ft)	kg					6450	3930	4180	2630	3000	1890	2960	1860	7.56
	lb					14220	8660	9220	5800	6610	4170	6530	4100	(24.8)
0.0 m (0.0 ft)	kg			*5970	*5970	6250	3760	4070	2530			3060	1920	7.33
	lb			*13160	*13160	13780	8290	8970	5580			6750	4230	(24.1)
-1.5 m (-4.9 ft)	kg	*5590	*5590	*9940	6860	6200	3710	4040	2500			3430	2140	6.76
	lb	*12320	*12320	*21910	15120	13670	8180	8910	5510			7560	4720	(22.2)
-3.0 m (-9.8 ft)	kg	*9860	*9860	*9010	7010	*6270	3780					4400	2730	5.74
	lb	*21740	*21740	*19860	15450	*13820	8330					9700	6020	(18.8)

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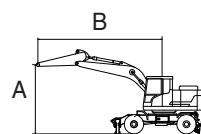
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




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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2600	2910	-	500	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb											*3360 *7410	*3360 *7410	4.96 (16.3)
6.0 m (19.7 ft)	kg lb							*3960 *8730	2670 5890			*2950 *6500	2430 5360	6.31 (20.7)
4.5 m (14.8 ft)	kg lb					*4540 *10010	4120 9080	*4110 *9060	2620 5780			*2830 *6240	1960 4320	7.09 (23.3)
3.0 m (9.8 ft)	kg lb					*5700 *12570	3810 8400	4330 9550	2490 5490			*2880 *6350	1750 3860	7.49 (24.6)
1.5 m (4.9 ft)	kg lb					6450 14220	3520 7760	4180 9220	2360 5200	3000 6610	1690 3730	2960 6530	1670 3680	7.56 (24.8)
0.0 m (0.0 ft)	kg lb			*5970 *13160	*5970 *13160	6250 13780	3350 7390	4070 8970	2260 4980			3060 6750	1720 3790	7.33 (24.1)
-1.5 m (-4.9 ft)	kg lb	*5590 *12320	*5590 *12320	*9940 *21910	6010 13250	6200 13670	3310 7300	4040 8910	2240 4940			3430 7560	1920 4230	6.76 (22.2)
-3.0 m (-9.8 ft)	kg lb	*9860 *21740	*9860 *21740	*9010 *19860	6160 13580	*6270 *13820	3370 7430					4400 9700	2450 5400	5.74 (18.8)

Note 1. Lifting capacity are based on ISO 10567.

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3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

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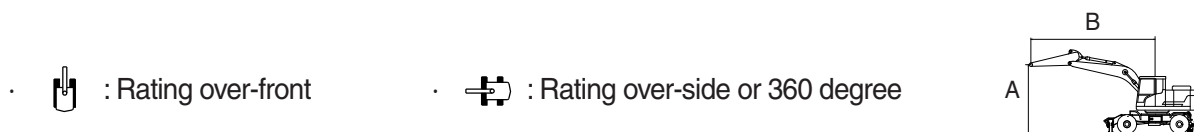
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






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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	3100	2910	-	500	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb											*2680 *5910	*2680 *5910	5.62 (18.4)
6.0 m (19.7 ft)	kg lb							*3540 *7800	3030 6680			*2420 *5340	2410 5310	6.83 (22.4)
4.5 m (14.8 ft)	kg lb							*3780 *8330	2960 6530	*2570 *5670	2030 4480	*2340 *5160	2000 4410	7.56 (24.8)
3.0 m (9.8 ft)	kg lb			*7570 *16690	*7570 *16690	*5230 *11530	4340 9570	*4300 *9480	2820 6220	3100 6830	1980 4370	*2390 *5270	1800 3970	7.93 (26.0)
1.5 m (4.9 ft)	kg lb					*6470 *14260	4000 8820	4220 9300	2660 5860	3030 6680	1910 4210	*2540 *5600	1730 3810	8.00 (26.3)
0.0 m (0.0 ft)	kg lb			*6640 *14640	*6640 *14640	6270 13820	3770 8310	4090 9020	2540 5600	2970 6550	1860 4100	2820 6220	1760 3880	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*5170 *11400	*5170 *11400	*9310 *20530	6770 14930	6170 13600	3690 8140	4020 8860	2480 5470			3100 6830	1940 4280	7.25 (23.8)
-3.0 m (-9.8 ft)	kg lb	*8430 *18580	*8430 *18580	*9800 *21610	6880 15170	6210 13690	3720 8200	4060 8950	2520 5560			3800 8380	2370 5220	6.31 (20.7)
-4.5 m (-14.8 ft)	kg lb			*7000 *15430	*7000 *15430	*4610 *10160	3900 8600					*4240 *9350	3670 8090	4.72 (15.5)

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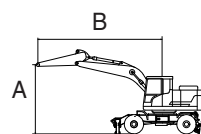
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




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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	3100	2910	-	500	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb											*2680 *5910	*2680 *5910	5.62 (18.4)
6.0 m (19.7 ft)	kg lb							*3540 *7800	2760 6080			*2420 *5340	2180 4810	6.83 (22.4)
4.5 m (14.8 ft)	kg lb							*3780 *8330	2690 5930	*2570 *5670	1830 4030	*2340 *5160	1810 3990	7.56 (24.8)
3.0 m (9.8 ft)	kg lb			*7570 *16690	7200 15870	*5230 *11530	3920 8640	*4300 *9480	2550 5620	3100 6830	1780 3920	*2390 *5270	1620 3570	7.93 (26.0)
1.5 m (4.9 ft)	kg lb					*6470 *14260	3590 7910	4220 9300	2390 5270	3030 6680	1720 3790	*2540 *5600	1550 3420	8.00 (26.3)
0.0 m (0.0 ft)	kg lb			*6640 *14640	5960 13140	6270 13820	3360 7410	4090 9020	2270 5000	2970 6550	1660 3660	2820 6220	1580 3480	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*5170 *11400	*5170 *11400	*9310 *20530	5920 13050	6170 13600	3280 7230	4020 8860	2220 4890			3100 6830	1730 3810	7.25 (23.8)
-3.0 m (-9.8 ft)	kg lb	*8430 *18580	*8430 *18580	*9800 *21610	6030 13290	6210 13690	3310 7300	4060 8950	2250 4960			3800 8380	2120 4670	6.31 (20.7)
-4.5 m (-14.8 ft)	kg lb			*7000 *15430	6300 13890	*4610 *10160	3490 7690					*4240 *9350	3280 7230	4.72 (15.5)

Note 1. Lifting capacity are based on ISO 10567.

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4. *Indicates load limited by hydraulic capacity.

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Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

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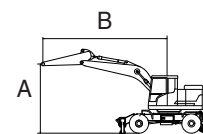
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




2) 5.0 m MONO BOOM+3410 kg COUNTERWEIGHT

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5097	2000	3410	-	500	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg lb			*4560 *10050	*4560 *10050			*4580 *10100	3480 7670	5.60 (18.4)
4.5 m (14.8 ft)	kg lb			*5180 *11420	4790 10560	*4560 *10050	3090 6810	4180 9220	2740 6040	6.47 (21.2)
3.0 m (9.8 ft)	kg lb			*6290 *13870	4500 9920	4600 10140	2990 6590	3720 8200	2420 5340	6.90 (22.6)
1.5 m (4.9 ft)	kg lb			6860 15120	4250 9370	4480 9880	2870 6330	3600 7940	2320 5110	6.99 (22.9)
0.0 m (0.0 ft)	kg lb			6720 14820	4130 9110	4410 9720	2810 6190	3750 8270	2410 5310	6.73 (22.1)
-1.5 m (-4.9 ft)	kg lb	*9960 *21960	7620 16800	6720 14820	4130 9110	4420 9740	2820 6220	4320 9520	2760 6080	6.10 (20.0)
-3.0 m (-9.8 ft)	kg lb	*7850 *17310	7810 17220	*5540 *12210	4250 9370			*4790 *10560	3760 8290	4.94 (16.2)

Note 1. Lifting capacity are based on ISO 10567.

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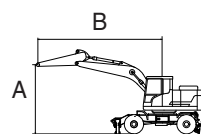
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5097	2000	3410	-	500	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg lb			*4560 *10050	4520 9960			*4580 *10100	3170 6990	5.60 (18.4)
4.5 m (14.8 ft)	kg lb			*5180 *11420	4350 9590	*4560 *10050	2810 6190	4180 9220	2490 5490	6.47 (21.2)
3.0 m (9.8 ft)	kg lb			*6290 *13870	4070 8970	4600 10140	2710 5970	3720 8200	2190 4830	6.90 (22.6)
1.5 m (4.9 ft)	kg lb			6860 15120	3820 8420	4480 9880	2600 5730	3600 7940	2100 4630	6.99 (22.9)
0.0 m (0.0 ft)	kg lb			6720 14820	3710 8180	4410 9720	2530 5580	3750 8270	2180 4810	6.73 (22.1)
-1.5 m (-4.9 ft)	kg lb	*9960 *21960	6720 14820	6720 14820	3700 8160	4420 9740	2540 5600	4320 9520	2490 5490	6.10 (20.0)
-3.0 m (-9.8 ft)	kg lb	*7850 *17310	6900 15210	*5540 *12210	3820 8420			*4790 *10560	3390 7470	4.94 (16.2)

Note 1. Lifting capacity are based on ISO 10567.

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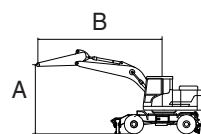
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2450	3410	-	500	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*3180 *7010	*3180 *7010	4.77 (15.7)
6.0 m (19.7 ft)	kg lb							*3550 *7830	3170 6990	*2750 *6060	*2750 *6060	6.16 (20.2)
4.5 m (14.8 ft)	kg lb					*4730 *10430	*4730 *10430	*4240 *9350	3130 6900	*2630 *5800	2450 5400	6.96 (22.8)
3.0 m (9.8 ft)	kg lb					*5890 *12990	4570 10080	4630 10210	3010 6640	*2660 *5860	2200 4850	7.36 (24.2)
1.5 m (4.9 ft)	kg lb					6910 15230	4290 9460	4490 9900	2880 6350	*2830 *6240	2120 4670	7.44 (24.4)
0.0 m (0.0 ft)	kg lb			*5870 *12940	*5870 *12940	6720 14820	4130 9110	4400 9700	2790 6150	*3190 *7030	2180 4810	7.21 (23.6)
-1.5 m (-4.9 ft)	kg lb	*5810 *12810	*5810 *12810	*10160 *22400	7530 16600	6690 14750	4090 9020	4370 9630	2770 6110	3830 8440	2450 5400	6.62 (21.7)
-3.0 m (-9.8 ft)	kg lb	*10280 *22660	*10280 *22660	*8790 *19380	7690 16950	*6160 *13580	4170 9190			*4540 *10010	3150 6940	5.57 (18.3)

Note 1. Lifting capacity are based on ISO 10567.

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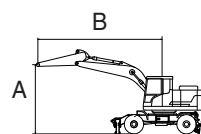
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2450	3410	-	500	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*3180 *7010	*3180 *7010	4.77 (15.7)
6.0 m (19.7 ft)	kg lb							*3550 *7830	2890 6370	*2750 *6060	*2750 *6060	6.16 (20.2)
4.5 m (14.8 ft)	kg lb					*4730 *10430	4430 9770	*4240 *9350	2850 6280	*2630 *5800	2230 4920	6.96 (22.8)
3.0 m (9.8 ft)	kg lb					*5890 *12990	4130 9110	4630 10210	2730 6020	*2660 *5860	1990 4390	7.36 (24.2)
1.5 m (4.9 ft)	kg lb					6910 15230	3860 8510	4490 9900	2610 5750	*2830 *6240	1910 4210	7.44 (24.4)
0.0 m (0.0 ft)	kg lb			*5870 *12940	*5870 *12940	6720 14820	3700 8160	4400 9700	2520 5560	*3190 *7030	1970 4340	7.21 (23.6)
-1.5 m (-4.9 ft)	kg lb	*5810 *12810	*5810 *12810	*10160 *22400	6640 14640	6690 14750	3670 8090	4370 9630	2500 5510	3830 8440	2210 4870	6.62 (21.7)
-3.0 m (-9.8 ft)	kg lb	*10280 *22660	*10280 *22660	*8790 *19380	6790 14970	*6160 *13580	3740 8250			*4540 *10010	2840 6260	5.57 (18.3)

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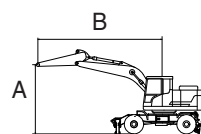
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




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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2600	3410	-	500	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg											*3360	*3360	4.96
	lb											*7410	*7410	(16.3)
6.0 m (19.7 ft)	kg							*3960	3170			*2950	2900	6.31
	lb							*8730	6990			*6500	6390	(20.7)
4.5 m (14.8 ft)	kg					*4540	*4540	*4110	3120			*2830	2360	7.09
	lb					*10010	*10010	*9060	6880			*6240	5200	(23.3)
3.0 m (9.8 ft)	kg					*5700	4560	*4580	2990			*2880	2120	7.49
	lb					*12570	10050	*10100	6590			*6350	4670	(24.6)
1.5 m (4.9 ft)	kg					*6830	4260	4470	2850	3220	2060	*3070	2040	7.56
	lb					*15060	9390	9850	6280	7100	4540	*6770	4500	(24.8)
0.0 m (0.0 ft)	kg			*5970	*5970	6680	4090	4360	2760			3280	2100	7.33
	lb			*13160	*13160	14730	9020	9610	6080			7230	4630	(24.1)
-1.5 m (-4.9 ft)	kg	*5590	*5590	*9940	7440	6630	4040	4330	2730			3680	2340	6.76
	lb	*12320	*12320	*21910	16400	14620	8910	9550	6020			8110	5160	(22.2)
-3.0 m (-9.8 ft)	kg	*9860	*9860	*9010	7590	*6270	4110					*4490	2980	5.74
	lb	*21740	*21740	*19860	16730	*13820	9060					*9900	6570	(18.8)

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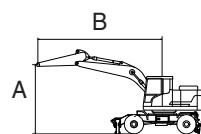
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




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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	2600	3410	-	500	-	Up	-	-

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·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb											*3360 *7410	*3360 *7410	4.96 (16.3)
6.0 m (19.7 ft)	kg lb							*3960 *8730	2880 6350			*2950 *6500	2640 5820	6.31 (20.7)
4.5 m (14.8 ft)	kg lb					*4540 *10010	4430 9770	*4110 *9060	2840 6260			*2830 *6240	2140 4720	7.09 (23.3)
3.0 m (9.8 ft)	kg lb					*5700 *12570	4120 9080	*4580 *10100	2710 5970			*2880 *6350	1910 4210	7.49 (24.6)
1.5 m (4.9 ft)	kg lb					*6830 *15060	3830 8440	4470 9850	2580 5690	3220 7100	1860 4100	*3070 *6770	1840 4060	7.56 (24.8)
0.0 m (0.0 ft)	kg lb			*5970 *13160	*5970 *13160	6680 14730	3660 8070	4360 9610	2480 5470			3280 7230	1890 4170	7.33 (24.1)
-1.5 m (-4.9 ft)	kg lb	*5590 *12320	*5590 *12320	*9940 *21910	6550 14440	6630 14620	3620 7980	4330 9550	2450 5400			3680 8110	2110 4650	6.76 (22.2)
-3.0 m (-9.8 ft)	kg lb	*9860 *21740	*9860 *21740	*9010 *19860	6700 14770	*6270 *13820	3680 8110					*4490 *9900	2680 5910	5.74 (18.8)

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	3100	3410	-	500	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb											*2680 *5910	*2680 *5910	5.62 (18.4)
6.0 m (19.7 ft)	kg lb							*3540 *7800	3260 7190			*2420 *5340	*2420 *5340	6.83 (22.4)
4.5 m (14.8 ft)	kg lb							*3780 *8330	3190 7030	*2570 *5670	2200 4850	*2340 *5160	2170 4780	7.56 (24.8)
3.0 m (9.8 ft)	kg lb			*7570 *16690	*7570 *16690	*5230 *11530	4670 10300	*4300 *9480	3050 6720	3320 7320	2160 4760	*2390 *5270	1960 4320	7.93 (26.0)
1.5 m (4.9 ft)	kg lb					*6470 *14260	4330 9550	4510 9940	2890 6370	3240 7140	2090 4610	*2540 *5600	1890 4170	8.00 (26.3)
0.0 m (0.0 ft)	kg lb			*6640 *14640	*6640 *14640	6700 14770	4100 9040	4370 9630	2770 6110	3180 7010	2030 4480	*2840 *6260	1930 4250	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*5170 *11400	*5170 *11400	*9310 *20530	7350 16200	6600 14550	4010 8840	4310 9500	2710 5970			3330 7340	2120 4670	7.25 (23.8)
-3.0 m (-9.8 ft)	kg lb	*8430 *18580	*8430 *18580	*9800 *21610	7460 16450	6640 14640	4050 8930	4350 9590	2750 6060			4070 8970	2590 5710	6.31 (20.7)
-4.5 m (-14.8 ft)	kg lb			*7000 *15430	*7000 *15430	*4610 *10160	4230 9330					*4240 *9350	3980 8770	4.72 (15.5)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

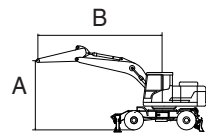
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.













▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5000	3100	3410	-	500	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb											*2680 *5910	*2680 *5910	5.62 (18.4)
6.0 m (19.7 ft)	kg lb							*3540 *7800	2980 6570			*2420 *5340	2370 5220	6.83 (22.4)
4.5 m (14.8 ft)	kg lb							*3780 *8330	2910 6420	*2570 *5670	2000 4410	*2340 *5160	1970 4340	7.56 (24.8)
3.0 m (9.8 ft)	kg lb			*7570 *16690	*7570 *16690	*5230 *11530	4230 9330	*4300 *9480	2770 6110	3320 7320	1950 4300	*2390 *5270	1780 3920	7.93 (26.0)
1.5 m (4.9 ft)	kg lb					*6470 *14260	3900 8600	4510 9940	2610 5750	3240 7140	1880 4140	*2540 *5600	1700 3750	8.00 (26.3)
0.0 m (0.0 ft)	kg lb			*6640 *14640	6500 14330	6700 14770	3670 8090	4370 9630	2490 5490	3180 7010	1830 4030	*2840 *6260	1740 3840	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*5170 *11400	*5170 *11400	*9310 *20530	6460 14240	6600 14550	3590 7910	4310 9500	2440 5380			3330 7340	1910 4210	7.25 (23.8)
-3.0 m (-9.8 ft)	kg lb	*8430 *18580	*8430 *18580	*9800 *21610	6570 14480	6640 14640	3620 7980	4350 9590	2470 5450			4070 8970	2330 5140	6.31 (20.7)
-4.5 m (-14.8 ft)	kg lb			*7000 *15430	6840 15080	*4610 *10160	3800 8380					*4240 *9350	3580 7890	4.72 (15.5)

Note 1. Lifting capacity are based on ISO 10567.

2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

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The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

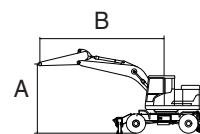
▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.









3) 5.1 m 2-PIECE BOOM+3410 kg COUNTERWEIGHT

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5097	2000	3410	-	500	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
7.5 m (24.6 ft)	kg lb							*4660 *10270	*4660 *10270	4.30 (14.1)
6.0 m (19.7 ft)	kg lb			*4250 *9370	*4250 *9370			*4310 *9500	3280 7230	5.81 (19.0)
4.5 m (14.8 ft)	kg lb			*4880 *10760	4790 10560	*4290 *9460	3080 6790	4010 8840	2600 5730	6.65 (21.8)
3.0 m (9.8 ft)	kg lb			*6000 *13230	4470 9850	4610 10160	2970 6550	3590 7910	2310 5090	7.07 (23.2)
1.5 m (4.9 ft)	kg lb			6840 15080	4200 9260	4470 9850	2840 6260	3470 7650	2220 4890	7.15 (23.5)
0.0 m (0.0 ft)	kg lb			6710 14790	4080 8990	4400 9700	2770 6110	3620 7980	2310 5090	6.91 (22.7)
-1.5 m (-4.9 ft)	kg lb	*9910 *21850	7560 16670	6710 14790	4080 8990	4410 9720	2780 6130	4140 9130	2630 5800	6.29 (20.6)

Note 1. Lifting capacity are based on ISO 10567.

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3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

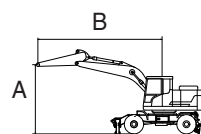
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.









▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5097	2000	3410	-	500	-	Up	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
7.5 m (24.6 ft)	kg lb							*4660 *10270	*4660 *10270	4.30 (14.1)
6.0 m (19.7 ft)	kg lb			*4250 *9370	*4250 *9370			*4310 *9500	2980 6570	5.81 (19.0)
4.5 m (14.8 ft)	kg lb			*4880 *10760	4340 9570	*4290 *9460	2800 6170	4010 8840	2360 5200	6.65 (21.8)
3.0 m (9.8 ft)	kg lb			*6000 *13230	4030 8880	4610 10160	2680 5910	3590 7910	2090 4610	7.07 (23.2)
1.5 m (4.9 ft)	kg lb			6840 15080	3760 8290	4470 9850	2560 5640	3470 7650	2000 4410	7.15 (23.5)
0.0 m (0.0 ft)	kg lb			6710 14790	3650 8050	4400 9700	2490 5490	3620 7980	2080 4590	6.91 (22.7)
-1.5 m (-4.9 ft)	kg lb	*9910 *21850	6660 14680	6710 14790	3650 8050	4410 9720	2500 5510	4140 9130	2370 5220	6.29 (20.6)

Note 1. Lifting capacity are based on ISO 10567.

- Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
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Lifting capacities will vary with different work tools, ground conditions and attachments.











The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5097	2450	3410	-	500	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*3940 *8690	*3940 *8690					*3260 *7190	*3260 *7190	5.04 (16.5)
6.0 m (19.7 ft)	kg lb			*3790 *8360	*3790 *8360	*3850 *8490	3180 7010			*2790 *6150	*2790 *6150	6.37 (20.9)
4.5 m (14.8 ft)	kg lb			*4450 *9810	*4450 *9810	*3990 *8800	3130 6900			*2620 *5780	2330 5140	7.14 (23.4)
3.0 m (9.8 ft)	kg lb			*5600 *12350	4540 10010	*4460 *9830	2990 6590	*2960 *6530	2120 4670	*2600 *5730	2100 4630	7.54 (24.7)
1.5 m (4.9 ft)	kg lb			*6720 *14820	4240 9350	4490 9900	2850 6280	3240 7140	2070 4560	*2720 *6000	2030 4480	7.61 (25.0)
0.0 m (0.0 ft)	kg lb			6710 14790	4080 8990	4390 9680	2760 6080			*2980 *6570	2090 4610	7.38 (24.2)
-1.5 m (-4.9 ft)	kg lb	*8830 *19470	7460 16450	6670 14700	4050 8930	4360 9610	2740 6040			*3520 *7760	2340 5160	6.81 (22.4)
-3.0 m (-9.8 ft)	kg lb			*6400 *14110	4130 9110							

Note 1. Lifting capacity are based on ISO 10567.

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3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.











The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5097	2450	3410	-	500	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*3940 *8690	*3940 *8690					*3260 *7190	*3260 *7190	5.04 (16.5)
6.0 m (19.7 ft)	kg lb			*3790 *8360	*3790 *8360	*3850 *8490	2890 6370			*2790 *6150	2590 5710	6.37 (20.9)
4.5 m (14.8 ft)	kg lb			*4450 *9810	4420 9740	*3990 *8800	2840 6260			*2620 *5780	2110 4650	7.14 (23.4)
3.0 m (9.8 ft)	kg lb			*5600 *12350	4100 9040	*4460 *9830	2710 5970	*2960 *6530	1910 4210	*2600 *5730	1890 4170	7.54 (24.7)
1.5 m (4.9 ft)	kg lb			*6720 *14820	3800 8380	4490 9900	2570 5670	3240 7140	1870 4120	*2720 *6000	1820 4010	7.61 (25.0)
0.0 m (0.0 ft)	kg lb			6710 14790	3640 8020	4390 9680	2480 5470			*2980 *6570	1880 4140	7.38 (24.2)
-1.5 m (-4.9 ft)	kg lb	*8830 *19470	6560 14460	6670 14700	3610 7960	4360 9610	2460 5420			*3520 *7760	2100 4630	6.81 (22.4)
-3.0 m (-9.8 ft)	kg lb			*6400 *14110	3700 8160							

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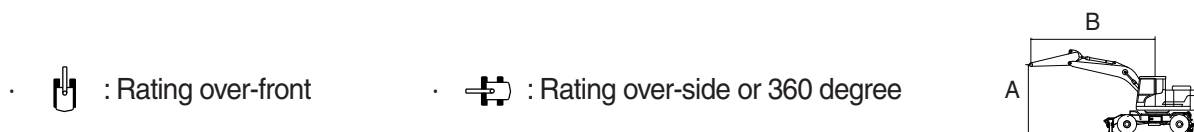
Lifting capacities will vary with different work tools, ground conditions and attachments.











The difference between the weight of a work tool attachment must be subtracted.

Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5097	2600	3410	-	500	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*3710 *8180	*3710 *8180					*3450 *7610	*3450 *7610	5.23 (17.2)
6.0 m (19.7 ft)	kg lb			*3610 *7960	*3610 *7960	*3670 *8090	3180 7010			*2990 *6590	2730 6020	6.52 (21.4)
4.5 m (14.8 ft)	kg lb			*4270 *9410	*4270 *9410	*3850 *8490	3110 6860			*2830 *6240	2240 4940	7.28 (23.9)
3.0 m (9.8 ft)	kg lb			*5420 *11950	4540 10010	*4340 *9570	2970 6550	3270 7210	2100 4630	*2830 *6240	2020 4450	7.67 (25.2)
1.5 m (4.9 ft)	kg lb			*6570 *14480	4210 9280	4460 9830	2830 6240	3210 7080	2040 4500	*2960 *6530	1950 4300	7.74 (25.4)
0.0 m (0.0 ft)	kg lb			6660 14680	4030 8880	4350 9590	2720 6000	3180 7010	2010 4430	3170 6990	2000 4410	7.52 (24.7)
-1.5 m (-4.9 ft)	kg lb	*8610 *18980	7370 16250	6620 14590	3990 8800	4320 9520	2690 5930			3530 7780	2230 4920	6.96 (22.8)
-3.0 m (-9.8 ft)	kg lb			*6480 *14290	4070 8970							

Note 1. Lifting capacity are based on ISO 10567.

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3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.











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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW160A HW180A	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5097	2600	3410	-	500	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*3710 *8180	*3710 *8180					*3450 *7610	*3450 *7610	5.23 (17.2)
6.0 m (19.7 ft)	kg lb			*3610 *7960	*3610 *7960	*3670 *8090	2890 6370			*2990 *6590	2470 5450	6.52 (21.4)
4.5 m (14.8 ft)	kg lb			*4270 *9410	*4270 *9410	*3850 *8490	2830 6240			*2830 *6240	2030 4480	7.28 (23.9)
3.0 m (9.8 ft)	kg lb			*5420 *11950	4090 9020	*4340 *9570	2690 5930	3270 7210	1890 4170	*2830 *6240	1820 4010	7.67 (25.2)
1.5 m (4.9 ft)	kg lb			*6570 *14480	3780 8330	4460 9830	2540 5600	3210 7080	1840 4060	*2960 *6530	1750 3860	7.74 (25.4)
0.0 m (0.0 ft)	kg lb			6660 14680	3600 7940	4350 9590	2440 5380	3180 7010	1800 3970	3170 6990	1800 3970	7.52 (24.7)
-1.5 m (-4.9 ft)	kg lb	*8610 *18980	6470 14260	6620 14590	3560 7850	4320 9520	2420 5340			3530 7780	2010 4430	6.96 (22.8)
-3.0 m (-9.8 ft)	kg lb			*6480 *14290	3630 8000							

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6. BUCKET SELECTION GUIDE

1) MONO BOOM, 2910 kg COUNTERWEIGHT



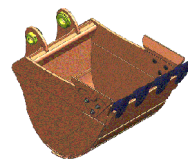
General bucket



Heavy duty



Ditch cleaning



Hammerless tooth

Type	Capacity		Width		Weight	Tooth	MONO			
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation		mm (ft-in)	
							5.0 m (16' 5") Boom			
							2.0 m (6' 7") Arm	2.45 m (8' 0") Arm	2.6 m (8' 6") Arm	3.1 m (10' 2") Arm
General bucket	0.70 (0.92)	0.60 (0.78)	1020 (40.2")	1100 (43.3")	600 (1320)	5	☾	■	■	▲
	0.76 (0.99)	0.65 (0.85)	1010 (39.8")	1170 (46.1")	620 (1370)	5	■	■	▲	▲
	0.89 (1.16)	0.77 (1.01)	1170 (46.1")	1325 (52.2")	680 (1500)	6	▲	▲	X	X
	1.05 (1.37)	0.90 (1.18)	1355 (53.3")	1510 (59.4")	740 (1630)	6	X	X	X	X
Heavy duty	0.69 (0.90)	0.62 (0.81)	1025 (40.4")	-	720 (1590)	5	☾	■	▲	▲
Ditch cleaning	0.75 (0.98)	0.65 (0.85)	1820 (71.7")	-	540 (1190)	0	☾	■	■	▲
Hammer -less tooth	0.73 (0.95)	0.67 (0.88)	914 (36.0")	946 (37.2")	620 (1370)	5	☾	■	▲	▲
	0.85 (1.11)	0.76 (0.99)	1067 (42.0")	1096 (43.1")	670 (1480)	5	■	▲	▲	X

●	Applicable for materials with density of 2100 kg/m ³ (3500 lb/yd ³) or less
◐	Applicable for materials with density of 1800 kg/m ³ (3000 lb/yd ³) or less
■	Applicable for materials with density of 1500 kg/m ³ (2500 lb/yd ³) or less
▲	Applicable for materials with density of 1200 kg/m ³ (2000 lb/yd ³) or less
X	Not recommended

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

Consult your HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

2) MONO BOOM, 3410 kg COUNTERWEIGHT



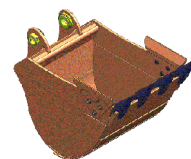
General bucket



Heavy duty



Ditch cleaning



Hammerless tooth

Type	Capacity		Width		Weight	Tooth	MONO				2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation				mm (ft-in)		
							5.0 m (16' 5") Boom				5.1 m (16' 9") Boom		
							2.0 m (6' 7") Arm	2.45 m (8' 0") Arm	2.6 m (8' 6") Arm	3.1 m (10' 2") Arm	2.0 m (6' 7") Arm	2.45 m (8' 0") Arm	2.6 m (8' 6") Arm
General bucket	0.70 (0.92)	0.60 (0.78)	1020 (40.2")	1100 (43.3")	600 (1320)	5	●	◐	■	■	◐	■	■
	0.76 (0.99)	0.65 (0.85)	1010 (39.8")	1170 (46.1")	620 (1370)	5	◐	■	■	▲	◐	■	■
	0.89 (1.16)	0.77 (1.01)	1170 (46.1")	1325 (52.2")	680 (1500)	6	■	▲	▲	▲	■	▲	▲
	1.05 (1.37)	0.90 (1.18)	1355 (53.3")	1510 (59.4")	740 (1630)	6	▲	X	X	X	▲	X	X
Heavy duty	0.69 (0.90)	0.62 (0.81)	1025 (40.4")	-	720 (1590)	5	◐	■	■	■	◐	■	■
Ditch cleaning	0.75 (0.98)	0.65 (0.85)	1820 (71.7")	-	540 (1190)	0	◐	◐	■	■	◐	■	■
Hammer- less tooth	0.73 (0.95)	0.67 (0.88)	914 (36.0")	946 (37.2")	620 (1370)	5	◐	■	■	■	◐	■	■
	0.85 (1.11)	0.76 (0.99)	1067 (42.0")	1096 (43.1")	670 (1480)	5	■	▲	▲	▲	■	▲	▲

●	Applicable for materials with density of 2100 kg/m ³ (3500 lb/yd ³) or less
●	Applicable for materials with density of 1800 kg/m ³ (3000 lb/yd ³) or less
■	Applicable for materials with density of 1500 kg/m ³ (2500 lb/yd ³) or less
▲	Applicable for materials with density of 1200 kg/m ³ (2000 lb/yd ³) or less
X	Not recommended

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

Consult your HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

7. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Maker / Model	CUMMINS / B4.5
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.21" × 4.88")
Displacement	4.5 ℓ (275 cu in)
Compression ratio	17.2 : 1
Gross power	173 Hp (129 kW) at 2200 rpm
Net power	170 Hp (127 kW) at 2200 rpm
Max. power	173 Hp (129 kW) at 2200 rpm
Peak Torque	780 N · m (575 lb · ft) at 1500 rpm
Engine oil quantity	11 ℓ (2.9 U.S. gal)
Wet weight or Dry weight	378 kg (830 lb)
Starter motor	24 V-4.8 kW
Alternator	24 V-95 A
Battery	2 × 12 × 100 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement piston pump
Capacity	145 cc/rev
Maximum pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	260 ℓ /min (68.7 U.S. gpm / 57.2 U.K. gpm)
Rated speed	1800 rpm

[]: Power boost

3) STEERING PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	35cc/rev
Maximum pressure	210 kgf/cm ² (2990 psi)
Rated oil flow	60 ℓ /min (15.9 U.S. gpm/13.2 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Section block
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm ² (4980 psi)
Main relief valve pressure (power boost)	380 kgf/cm ² (5400 psi)
Overload relief valve pressure	420 kgf/cm ² (5970 psi)

5) SWING UNIT

Item	Specification
Type	Radial piston motor
Capacity	1587 cc/rev
Relief pressure	270 kgf/cm ² (3840 psi)
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	15~40 kgf/cm ² (213~569 psi)
Reduction gear type	-

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement bent-axis axial piston motor
Relief pressure	380 kgf/cm ² (5400 psi)
Counter balance valve	Applied
Capacity (max/min)	140/51.8 cc/rev

7) POWER TRAIN

Item	Description		Specification
Transmission	Type		2 speed power shift transmission
	Gear ratio	1st	4.87
		2nd	1.20
	Clutch pressure		30~32 kgf /cm ² (427~455 psi)
Parking brake	Type		Multi disc brake integrated in transmission
	Maximum braking torque		3286 kgf · m (23760 lbf · ft)
Axle	Type		4 wheel drive with differential
	Gear ratio		16.0
	Brake		Multi disc brake
	Brake pressure		81.6 kgf /cm ² (1160 psi)
	Steering pressure		204 kgf /cm ² (2900 psi)

8) POWER TRAIN GEAR PUMP

Item	Description
Capacity	Steering + brake : 11.9 + 19.3 cc / rev (pump PTO)
Rated flow	Steering + brake : 20 + 33 lpm (1800 rpm) (5.3 + 8.7 U.S. gpm / 4.4 + 7.3 U.K. gpm)

9) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 75 × 1090mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø 120 × Ø 80 × 1235mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø 105 × Ø 75 × 995mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 65 × 235mm
	Cushion	-
Outrigger cylinder	Bore dia × Rod dia × Stroke	Ø 125 × Ø 75 × 446mm
	Cushion	-
Adjust cylinder	Bore dia × Rod dia × Stroke	Ø 160 × Ø 95 × 624mm
	Cushion	-
2-piece boom cylinder	Bore dia × Rod dia × Stroke	Ø 110 × Ø 75 × 992mm
	Cushion	Extend only

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

8. RECOMMENDED OILS

HD Hyundai Construction Equipment genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HD Hyundai Construction Equipment and, therefore, will meet the highest safety and quality requirements. We recommend that you use only HD Hyundai Construction Equipment genuine lubricating oils and grease officially approved by HD Hyundai Construction Equipment.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)							
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)
Engine oil pan	Engine oil	11 (2.9)	★SAE 0W-40							
			★SAE 5W-30							
Transmission case		2.5 (0.66)	SAE 5W-40							
			SAE 15W-40							
DEF/ AdBlue® tank	Mixture of urea and deionized water	48 (12.7)	ISO 22241, High-purity urea + deionized water (32.5:67.5)							
Front axle	Gear oil	Center : 10.5 (2.77) Hub : 2.5×2 (0.66×2)	SAE 85W-90 LSD or UTTO							
Rear axle			Center : 12.5 (3.30) Hub : 2.5×2 (0.66×2)							
Hydraulic tank	Hydraulic oil	Tank: 122 (32.2) System: 204 (53.9)	★ISO VG 15							
			ISO VG 32							
			ISO VG 46, HBHO★ ³							
			ISO VG 68							
Fuel tank	Diesel fuel★ ¹	250 (66.0)	★ASTM D975 NO.1							
			ASTM D975 NO.2							
Fitting (Grease nipple)	Grease	As required	★NLGI NO.1							
			NLGI NO.2							
Radiator (Reservoir tank)	Mixture of antifreeze and soft water★ ²	23 (3.1)	Ethylene glycol base permanent type (50 : 50)							
			★ Ethylene glycol base permanent type (60 : 40)							

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

DEF : Diesel Exhaust Fluid, DEF compatible with AdBlue®

★ : Cold region (Russia, CIS, Mongolia)

★¹ : Ultra low sulfur diesel
- sulfur content ≤ 10 ppm

★² : Soft water
City water or distilled water

★³ : HD Hyundai Construction
Equipment Bio Hydraulic Oil

※ Using any lubricating oils other than HD Hyundai Construction Equipment genuine products may lead to a deterioration of performance and cause damage to major components.

※ Do not mix HD Hyundai Construction Equipment genuine oil with any other lubricating oil as it may result in damage to the systems of major components.

※ Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).

※ For HD Hyundai Construction Equipment genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact your local HD Hyundai Construction Equipment dealers.