

# SECTION 1 GENERAL



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## SECTION 1 GENERAL

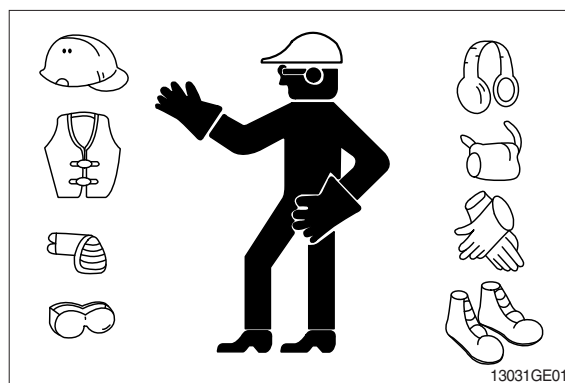
### GROUP 1 SAFETY

#### FOLLOW SAFE PROCEDURE

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

#### WEAR PROTECTIVE CLOTHING

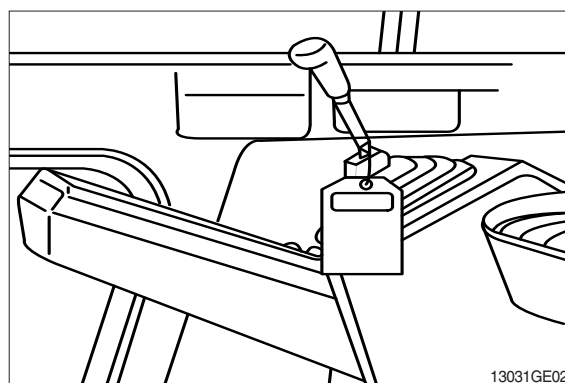
Wear close fitting clothing and safety equipment appropriate to the job.



#### 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.



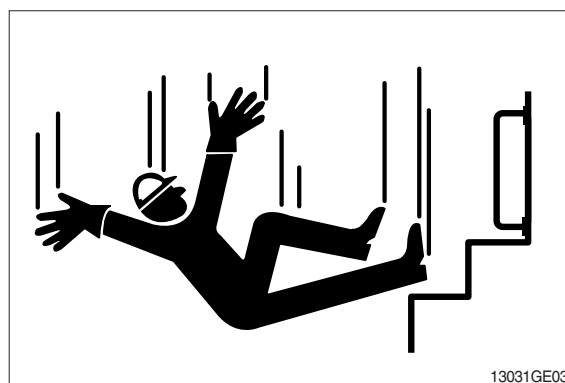
#### USE HANDHOLDS AND STEPS

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.

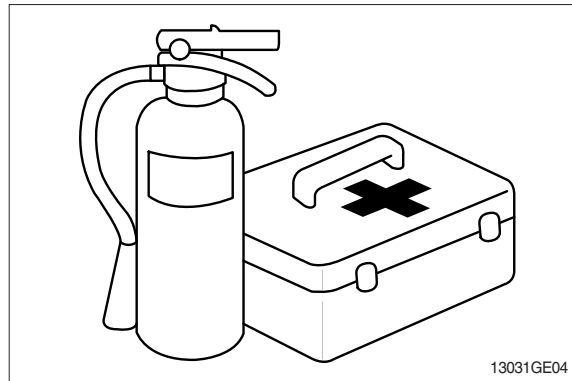


## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

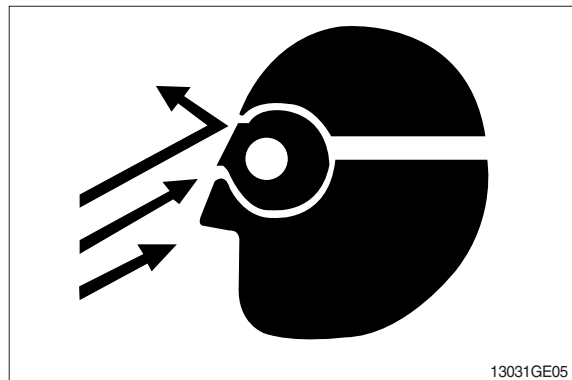
Keep a first aid kit and fire extinguisher handy.

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



## PROTECT AGAINST FLYING DEBRIS

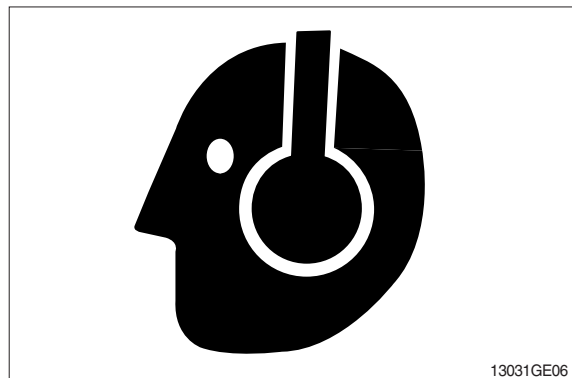
Guard against injury from flying pieces of metal or debris; wear goggles or safety glasses.



## PROTECT AGAINST NOISE

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

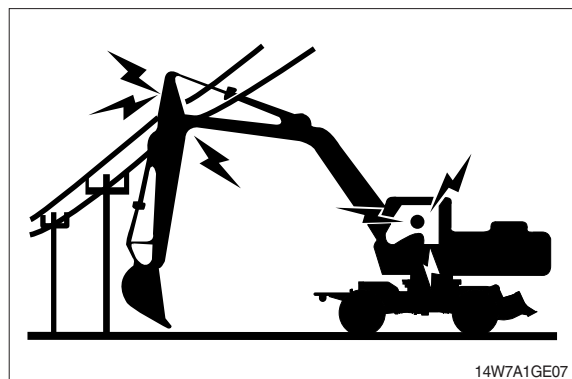
Wear a suitable hearing protective device such as ear-muffs or earplugs to protect against objectionable or uncomfortable loud noises.



## AVOID POWER LINES

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

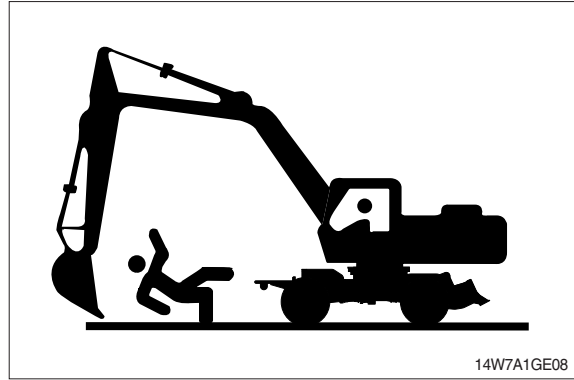
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



## 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.

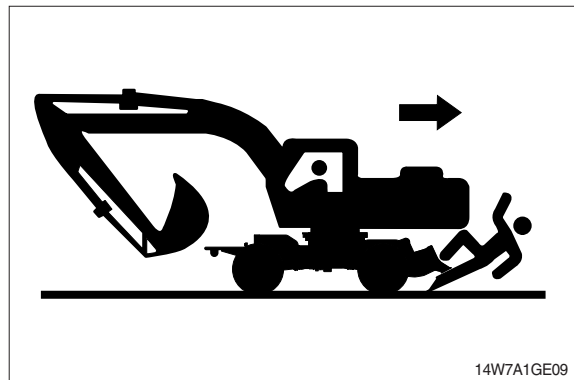


## MOVE AND OPERATE MACHINE SAFELY

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:

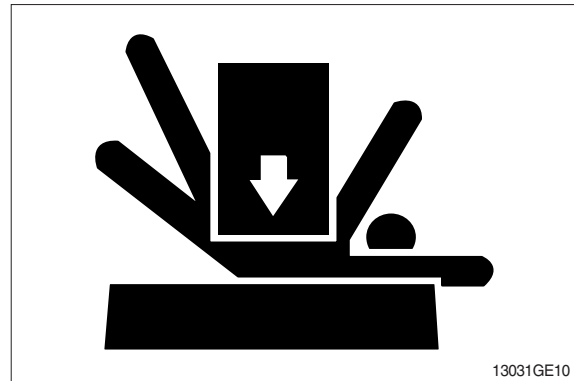
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

## 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.

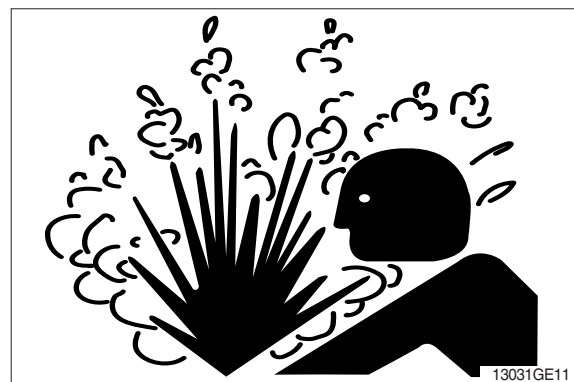
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



## SERVICE COOLING SYSTEM SAFELY

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

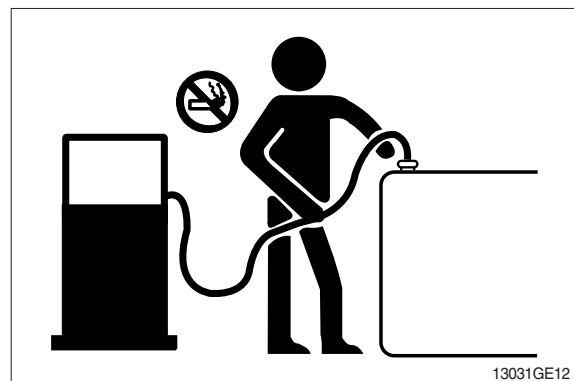
Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



## 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.

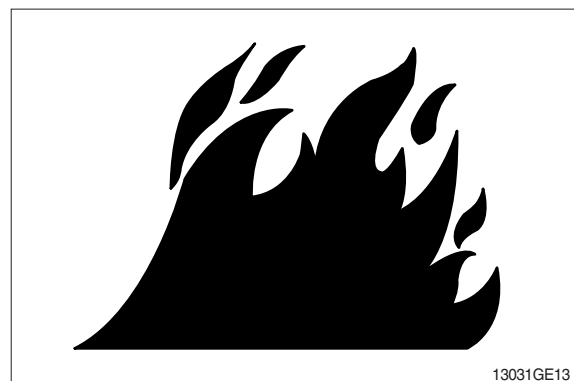
Fill fuel tank outdoors.



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

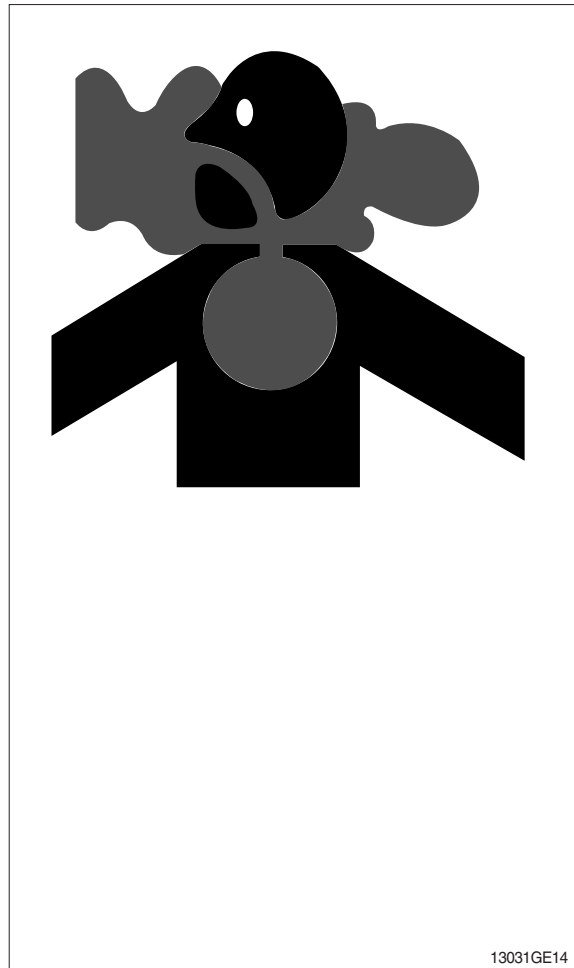
Avoid potentially toxic fumes and dust.

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.

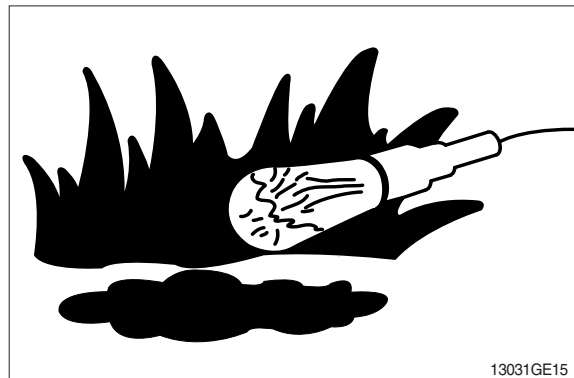
Remove paint before welding or heating:

- 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

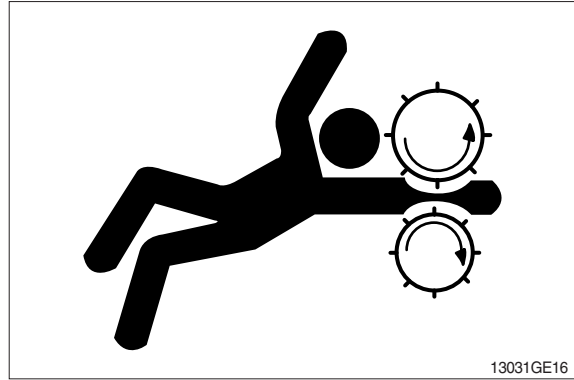
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



## 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.

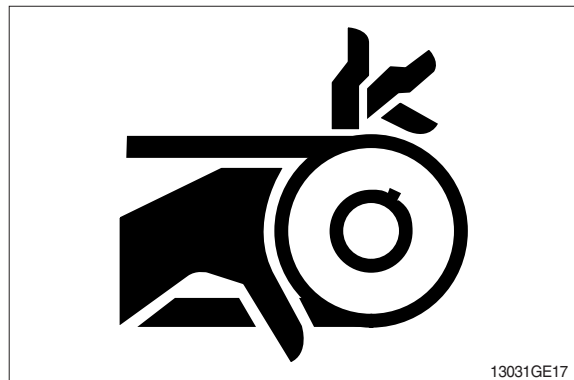
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



## STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



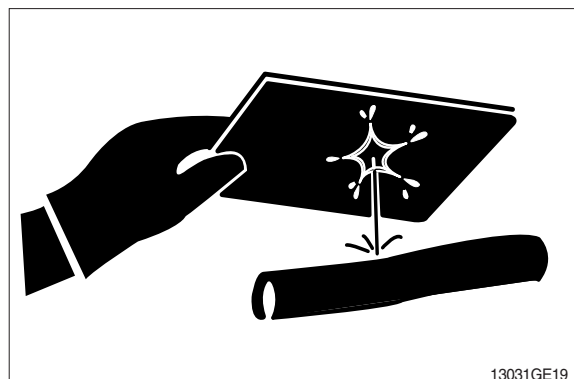
## AVOID HIGH PRESSURE FLUIDS

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:

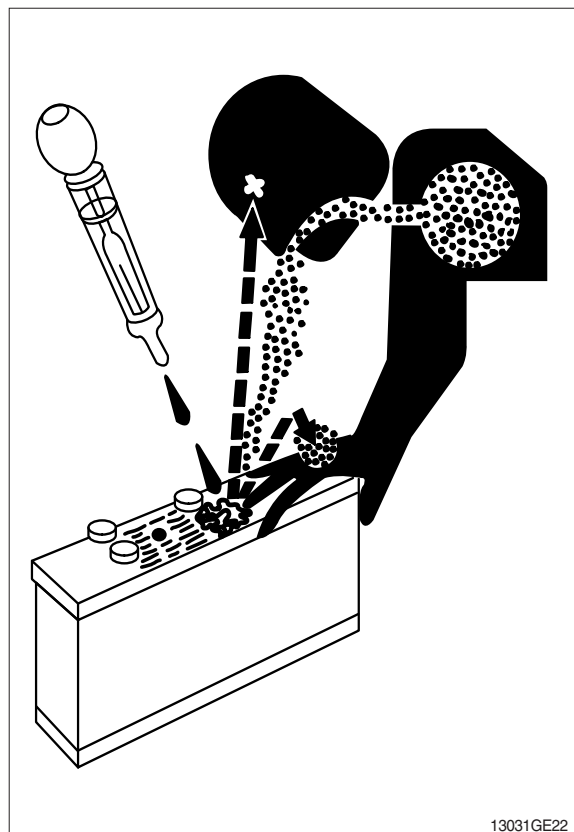
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.





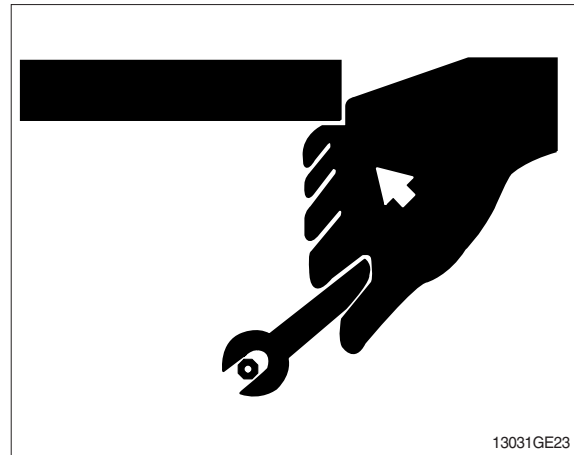
## USE TOOLS PROPERLY

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.)



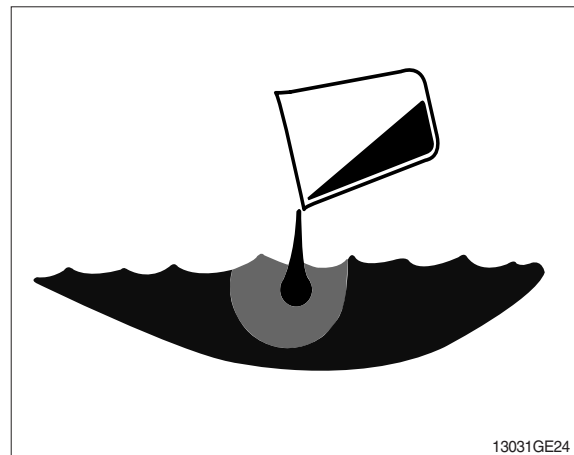
13031GE23

## 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.

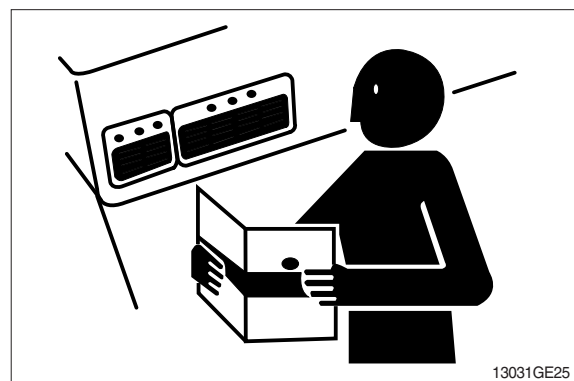
DO NOT pour oil into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, and other harmful waste.



13031GE24

## REPLACE SAFETY SIGNS

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



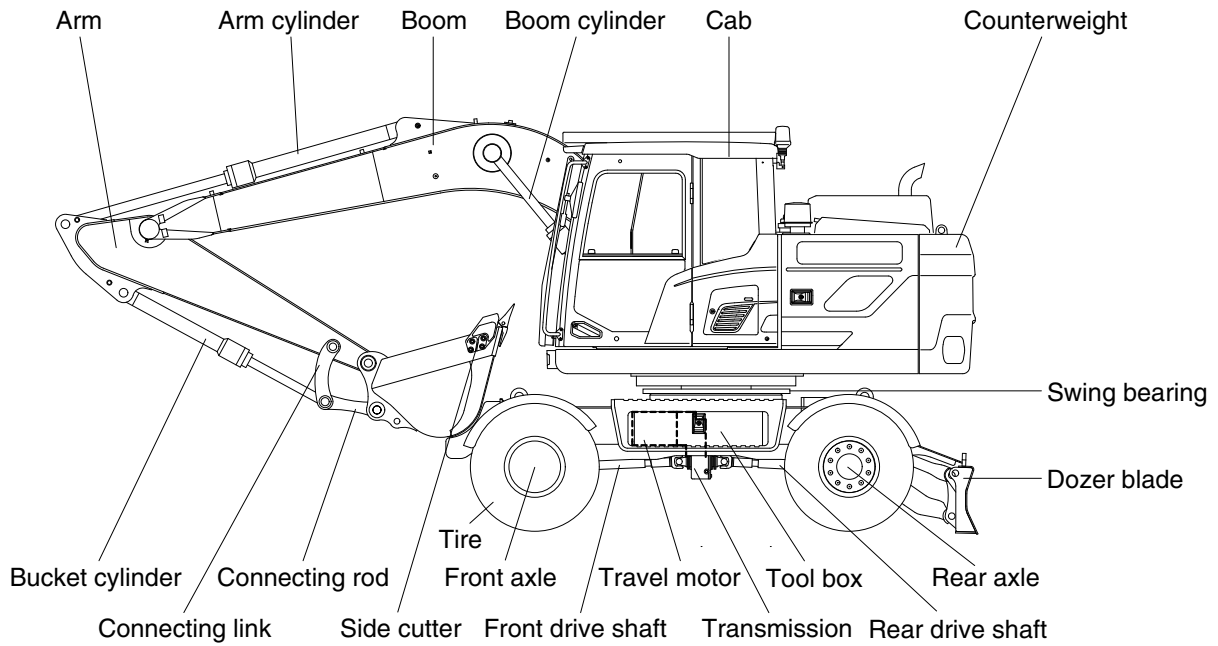
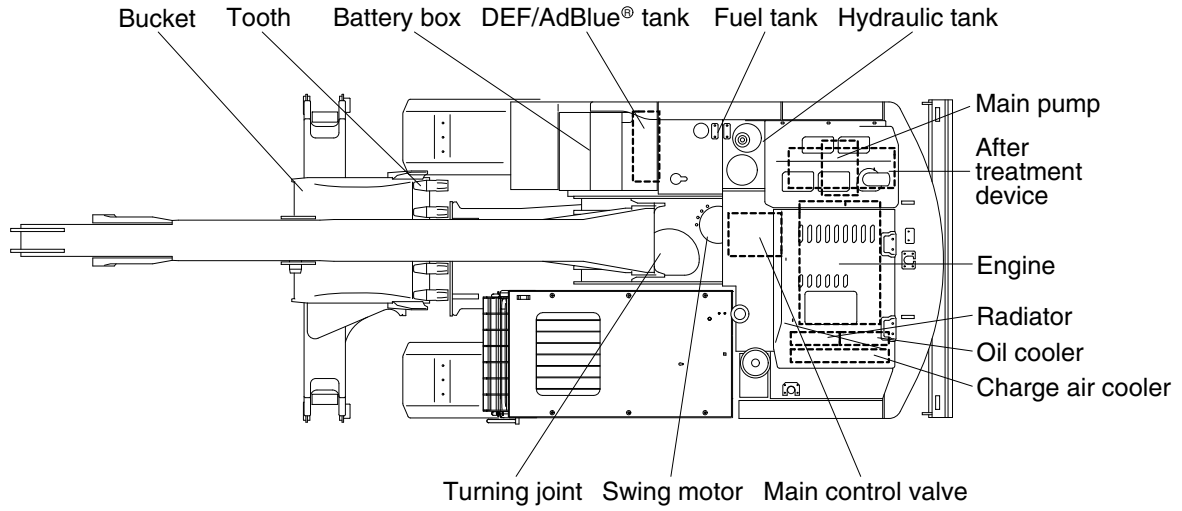
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## LIVE WITH SAFETY

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

# GROUP 2 SPECIFICATIONS

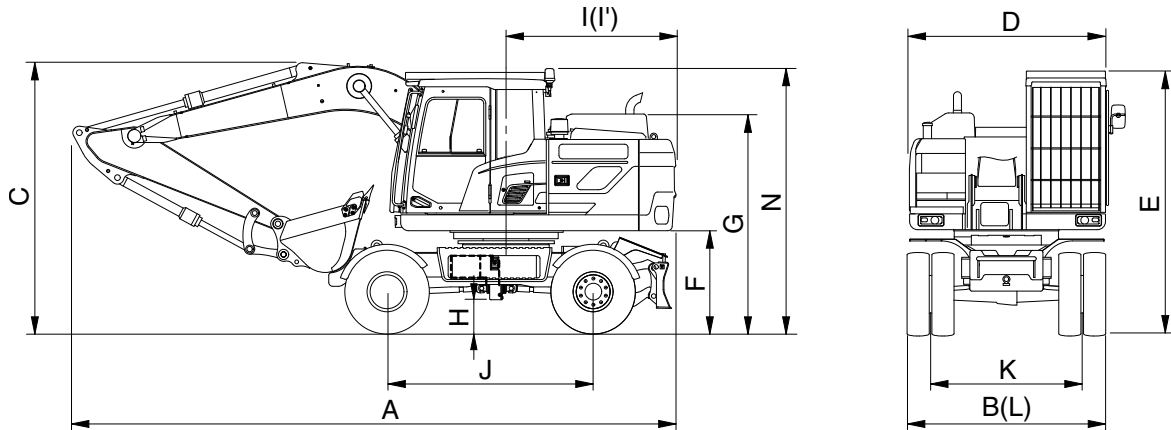
## 1. MAJOR COMPONENT



140WA2SP01

## 2. SPECIFICATIONS

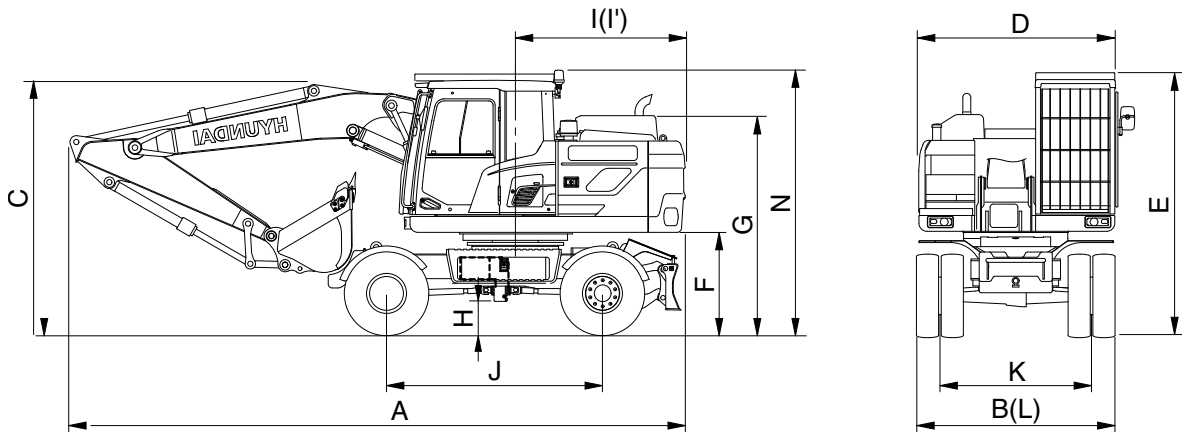
### 1) HW140A. MONO BOOM



140WF2SP02A

Description	Unit		Specification			
	m (ft-in)	Boom Arm	4.6 (15' 1")			
Operating weight	kg (lb)		14900 (32850)	14840 (32720)	14920 (32890)	14970 (33000)
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )		0.58 (0.76)	0.58 (0.76)	0.58 (0.76)	0.58 (0.76)
Overall length (traveling)	A	mm (ft-in)	7560 (24' 10")	7740 (25' 5")	7470 (24' 6")	7360 (24' 2")
Overall length (shipping)			7660 (25' 2")	7600 (24' 11")	7670 (25' 2")	7600 (24' 11")
Overall width	B		2530 (8' 4")	2530 (8' 4")	2530 (8' 4")	2530 (8' 4")
Overall height of boom	C		3805 (12' 6")	3420 (11' 3")	3925 (12' 11")	4000 (13' 1")
Upperstructure width	D		2485 (8' 2")	2485 (8' 2")	2485 (8' 2")	2485 (8' 2")
Cab height	E		3255 (10' 8")	3255 (10' 8")	3255 (10' 8")	3255 (10' 8")
Ground clearance of counterweight	F		1260 (4' 2")	1260 (4' 2")	1260 (4' 2")	1260 (4' 2")
Engine cover height	G		2760 (9' 1")	2760 (9' 1")	2760 (9' 1")	2760 (9' 1")
Minimum ground clearance	H		390 (1' 3")	390 (1' 3")	390 (1' 3")	390 (1' 3")
Rear-end distance	I		2150 (7' 1")	2150 (7' 1")	2150 (7' 1")	2150 (7' 1")
Rear-end swing radius	I'		2170 (7' 1")	2170 (7' 1")	2170 (7' 1")	2170 (7' 1")
Wheel base	J		2600 (8' 6")	2600 (8' 6")	2600 (8' 6")	2600 (8' 6")
Tread	K		1944 (6' 5")	1944 (6' 5")	1944 (6' 5")	1944 (6' 5")
Dozer blade width	L		2490 (8' 2")	2490 (8' 2")	2490 (8' 2")	2490 (8' 2")
Overall height of guardrail	N		3475 (11' 5")	3475 (11' 5")	3475 (11' 5")	3475 (11' 5")
Travel speed	Low	km/hr (mph)	10 (6.2)	10 (6.2)	10 (6.2)	10 (6.2)
	High		40 (24.9)	40 (24.9)	40 (24.9)	40 (24.9)
	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)	8163 (17996)	8163 (17996)	8163 (17996)	8163 (17996)	

## 2) HW140A, 2-PIECE BOOM

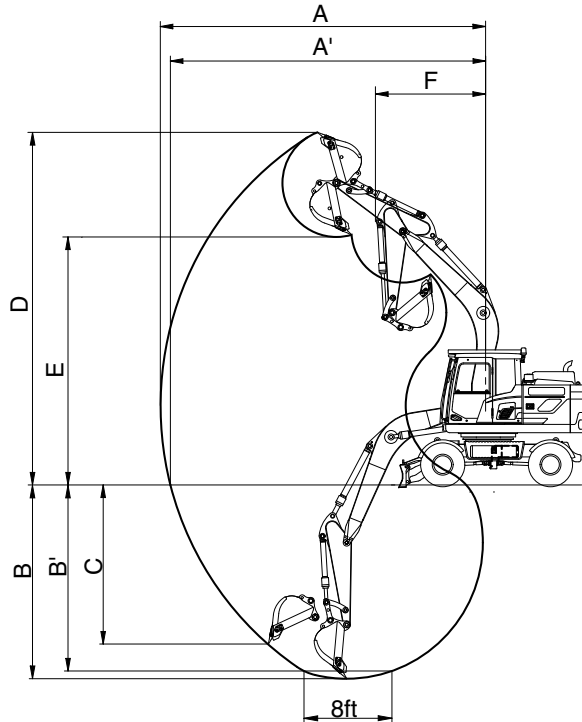


140WA2SP03A

Description	Unit		Specification		
	m (ft-in)	Boom Arm	4.71 (15' 5")		
			2.45 (8' 0")	2.00 (6' 50")	2.60 (8' 5")
Operating weight	kg (lb)		15860 (34970)	15800 (34830)	15880 (35010)
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )		0.58 (0.76)	0.58 (0.76)	0.58 (0.76)
Overall length (traveling)	A	mm (ft-in)	5810 (19' 1")	5840 (19' 2")	5785 (19' 0")
Overall length (shipping)			7770 (25' 6")	7770 (25' 6")	7780 (25' 6")
Overall width	B		2530 (8' 4")	2530 (8' 4")	2530 (8' 4")
Overall height of boom	C		3990 (13' 1")	4000 (13' 1")	4000 (13' 1")
Upperstructure width	D		2485 (8' 2")	2485 (8' 2")	2485 (8' 2")
Cab height	E		3255 (10' 8")	3255 (10' 8")	3255 (10' 8")
Ground clearance of counterweight	F		1260 (4' 2")	1260 (4' 2")	1260 (4' 2")
Engine cover height	G		2760 (9' 1")	2760 (9' 1")	2760 (9' 1")
Minimum ground clearance	H		390 (1' 3")	390 (1' 3")	390 (1' 3")
Rear-end distance	I		2150 (7' 1")	2150 (7' 1")	2150 (7' 1")
Rear-end swing radius	I'		2170 (7' 1")	2170 (7' 1")	2170 (7' 1")
Wheel base	J		2600 (8' 6")	2600 (8' 6")	2600 (8' 6")
Tread	K		1944 (6' 5")	1944 (6' 5")	1944 (6' 5")
Dozer blade width	L		2490 (8' 2")	2490 (8' 2")	2490 (8' 2")
Overall height of guardrail	N		3475 (11' 5")	3475 (11' 5")	3475 (11' 5")
Travel speed	Low	km/hr (mph)	10 (6.2)	10 (6.2)	10 (6.2)
	High		40 (24.9)	40 (24.9)	40 (24.9)
	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)		8163 (17996)	8163 (17996)	8163 (17996)

### 3. WORKING RANGE AND DIGGING POWER

#### 1) HW140A, MONO BOOM

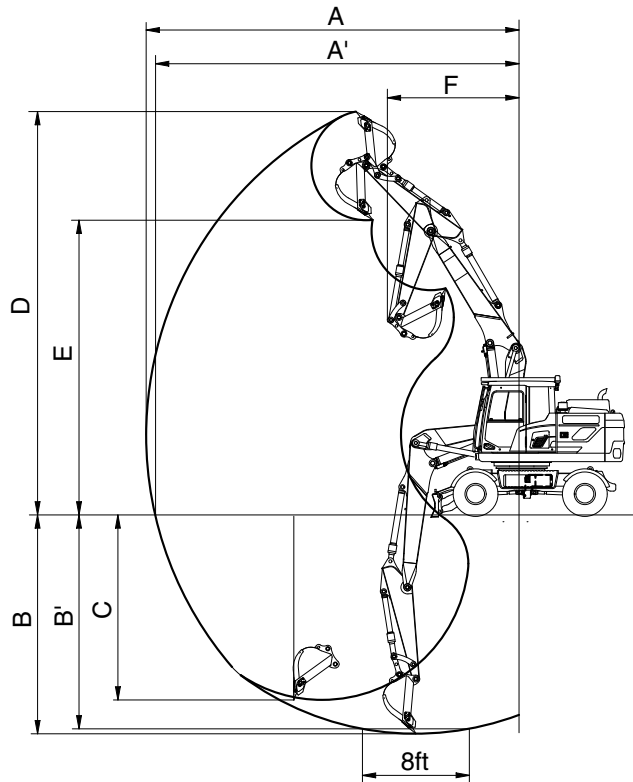


140WA2SP04

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	8310 (27' 3")	7880 (25' 10")	8450 (27' 9")	8910 (29' 3")
Max digging reach on ground	A'	8080 (26' 6")	7640 (25' 1")	8230 (27' 0")	8700 (28' 7")
Max digging depth	B	5110 (16' 9")	4660 (15' 3")	5260 (17' 3")	5760 (18' 11")
Max digging depth (8 ft level)	B'	4895 (16' 1")	4400 (14' 5")	5060 (16' 7")	5580 (18' 4")
Max vertical wall digging depth	C	4655 (15' 3")	4200 (13' 9")	4800 (15' 9")	5310 (17' 5")
Max digging height	D	8850 (29' 0")	8540 (28' 0")	8940 (29' 4")	9210 (30' 3")
Max dumping height	E	6400 (21' 0")	6100 (20' 0")	6490 (21' 4")	6760 (22' 2")
Min swing radius	F	2680 (8' 10")	2670 (8' 9")	2690 (8' 10")	2720 (8' 11")
Bucket digging force	SAE	87.9 [95.9]	87.8 [95.8]	87.9 [95.9]	87.8 [95.8]
		8961 [9780]	8957 [9770]	8961 [9780]	8957 [9770]
		19760 [21560]	19750 [21540]	19760 [21560]	19750 [21540]
	ISO	102.9 [112.3]	102.9 [112.2]	102.9 [112.3]	102.9 [112.2]
		10494 [11450]	10489.4 [11440]	10494 [11450]	10488.6 [11440]
		23140 [25240]	23130 [25220]	23140 [25240]	23120 [25220]
Arm digging force	SAE	63.6 [69.3]	74.2 [81.0]	61.1 [66.7]	54.7 [59.7]
		6485 [7070]	7569 [8260]	6230 [6800]	5579 [6090]
		14300 [15590]	16690 [18210]	13740 [14990]	12300 [13430]
	ISO	66.3 [72.4]	77.9 [84.9]	63.6 [69.4]	56.7 [61.9]
		6764 [7380]	7942 [8660]	6486 [7080]	5782 [6310]
		14910 [16270]	17510 [19090]	14300 [15610]	12750 [13910]

[ ] : Power boost

## 2) HW140A, 2-PIECE BOOM



140WA2SP05

Description		2.45 m (8' 0") Arm	2.00 m (6' 7") Arm	2.60 m (8' 6") Arm
Max digging reach	A	8490 ( 27' 10" )	8050 ( 26' 5" )	8630 ( 28' 4" )
Max digging reach on ground	A'	8270 ( 27' 2" )	7820 ( 25' 8" )	8420 ( 27' 7" )
Max digging depth	B	5000 ( 16' 5" )	4550 ( 14' 11" )	5150 ( 16' 11" )
Max digging depth (8 ft level)	B'	4890 ( 16' 1" )	4430 ( 14' 6" )	5040 ( 16' 6" )
Max vertical wall digging depth	C	4410 ( 14' 6" )	3930 ( 12' 11" )	4555 ( 14' 11" )
Max digging height	D	9480 ( 31' 1" )	9120 ( 29' 11" )	9600 ( 31' 6" )
Max dumping height	E	6990 ( 22' 11" )	6640 ( 21' 9" )	7110 ( 23' 4" )
Min swing radius	F	2600 ( 8' 6" )	2620 ( 8' 7" )	2650 ( 8' 8" )
Bucket digging force	SAE	87.9 [95.9]	87.8 [95.8]	87.9 [95.9]
		8961 [9780]	8957 [9770]	8961 [9780]
		19760 [21560]	19750 [21540]	19760 [21560]
	ISO	102.9 [112.3]	102.9 [112.2]	102.9 [112.3]
		10494 [11450]	10489 [11440]	10494 [11450]
Arm digging force	SAE	23140 [25240]	23130 [25220]	23140 [25240]
		63.6 [69.3]	74.2 [81.0]	61.1 [66.7]
		6485 [7070]	7569 [8260]	6230 [6800]
	ISO	14300 [15590]	16690 [18210]	13740 [14990]
		66.3 [72.4]	77.9 [84.9]	63.6 [69.4]
		6764 [7380]	7942 [8660]	6486 [7080]
		14910 [16270]	17510 [19090]	14300 [15610]

[ ] : Power boost

## 4. WEIGHT

Item	HW140A	
	kg	lb
Upperstructure assembly	7005	15440
· Main frame weld assembly	1273	2810
· 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	1704	3760
· Cab assembly	495	1090
Lower chassis assembly	5145	11340
· Lower frame weld assembly	1255	2770
· Swing bearing	260	570
· Travel motor assembly (2EA)	56	120
· Turning joint	117	260
· Transmission assembly	135	300
· Front axle assembly	637	1400
· Rear axle assembly	534	1180
· Dozer blade assembly (front)	632	1390
· Dozer blade assembly (rear)	632	1390
Front attachment assembly (4.6 m boom, 2.45 m arm, 0.58 m <sup>3</sup> SAE heaped bucket)	2750	6060
· 4.6 m boom assembly	829	1830
· 4.71 m 2-piece boom assembly	938	2070
· 2.00 m arm assembly	380	840
· 2.45 m arm assembly	437	960
· 2.60 m arm assembly	457	1010
· 3.10 m arm assembly	492	1080
· 0.58 m <sup>3</sup> SAE heaped bucket assembly	484	1070
· 0.52 m <sup>3</sup> SAE heaped bucket assembly	461	1020
· 0.65 m <sup>3</sup> SAE heaped bucket assembly	513	1130
· 0.71 m <sup>3</sup> SAE heaped bucket assembly	536	1180
· 0.50 m <sup>3</sup> SAE heaped bucket assembly	439	970
· 0.61 m <sup>3</sup> SAE heaped bucket assembly	490	1080
· 0.45 m <sup>3</sup> SAE heaped bucket assembly	410	900
· 0.55 m <sup>3</sup> SAE heaped bucket assembly	585	1290
· Bucket control link assembly	113	250
· Boom cylinder assembly (2EA)	238	520
· Adjustable boom cylinder assembly (2EA)	246	540
· Arm cylinder assembly	145	320
· Bucket cylinder assembly	104	230
· Adjustable cylinder assembly	168	370
· Oscillating cylinder assembly (2EA)	98	220
· Outrigger cylinder assembly (2EA)	136	300
· Blade cylinder assembly (front) (2EA)	102	220
· Blade cylinder assembly (rear) (2EA)	102	220
· Front outrigger assembly	833	1840
· Rear outrigger assembly	833	1840

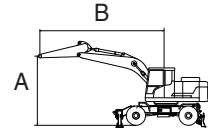
## 5. LIFTING CAPACITIES











### 1) 4.6 m MONO BOOM+1700 kg COUNTERWEIGHT

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW140A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2000	1700	-	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)	
6.0 m (19.7 ft)	kg					*4420	3670			*3330	2910	5.15
	lb					*9740	8090			*7340	6420	(16.9)
4.5 m (14.8 ft)	kg					*4790	3570	3560	2240	*3110	2190	6.08
	lb					*10560	7870	7850	4940	*6860	4830	(19.9)
3.0 m (9.8 ft)	kg					5500	3350	3490	2180	3050	1900	6.53
	lb					12130	7390	7690	4810	6720	4190	(21.4)
1.5 m (4.9 ft)	kg					5250	3140	3400	2090	2940	1810	6.62
	lb					11570	6920	7500	4610	6480	3990	(21.7)
0.0 m (0.0 ft)	kg		*6510	5520	5120	3020	3340	2040	3090	1890		6.34
	lb		*14350	12170	11290	6660	7360	4500	6810	4170		(20.8)
-1.5 m (-4.9 ft)	kg	*6490	*6490	*9460	5580	5120	3020			3650	2230	5.66
	lb	*14310	*14310	*20860	12300	11290	6660			8050	4920	(18.6)
-3.0 m (-9.8 ft)	kg			*6990	5760					*4600	3300	4.37
	lb			*15410	12700					*10140	7280	(14.3)

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.

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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.



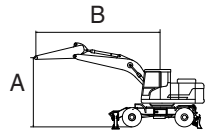
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW140A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2000	1700	-	500	-	Up	-	-



: 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)	
6.0 m (19.7 ft)	kg					*4420	3330			*3330	2640	5.15
	lb					*9740	7340			*7340	5820	(16.9)
4.5 m (14.8 ft)	kg					*4790	3230	3560	2020	*3110	1970	6.08
	lb					*10560	7120	7850	4450	*6860	4340	(19.9)
3.0 m (9.8 ft)	kg					5500	3010	3490	1960	3050	1710	6.53
	lb					12130	6640	7690	4320	6720	3770	(21.4)
1.5 m (4.9 ft)	kg					5250	2810	3400	1880	2940	1620	6.62
	lb					11570	6190	7500	4140	6480	3570	(21.7)
0.0 m (0.0 ft)	kg			*6510	4840	5120	2700	3340	1820	3090	1700	6.34
	lb			*14350	10670	11290	5950	7360	4010	6810	3750	(20.8)
-1.5 m (-4.9 ft)	kg	*6490	*6490	*9460	4900	5120	2690			3650	1990	5.66
	lb	*14310	*14310	*20860	10800	11290	5930			8050	4390	(18.6)
-3.0 m (-9.8 ft)	kg			*6990	5080					*4600	2950	4.37
	lb			*15410	11200					*10140	6500	(14.3)

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.

※ 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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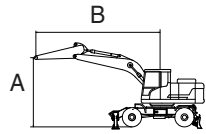
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW140A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2450	1700	-	500	-	Down	-	-



: 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									*2890	*2890	4.16
	lb									*6370	*6370	(13.6)
6.0 m (19.7 ft)	kg				*3880	3740				*2390	*2390	5.70
	lb				*8550	8250				*5270	*5270	(18.7)
4.5 m (14.8 ft)	kg				*4330	3620	3590	2270		*2250	1940	6.55
	lb				*9550	7980	7910	5000		*4960	4280	(21.5)
3.0 m (9.8 ft)	kg		*7850	6310	*5330	3390	3500	2180		*2260	1700	6.97
	lb		*17310	13910	*11750	7470	7720	4810		*4980	3750	(22.9)
1.5 m (4.9 ft)	kg		*5690	5650	5270	3150	3390	2080		*2410	1630	7.05
	lb		*12540	12460	11620	6940	7470	4590		*5310	3590	(23.1)
0.0 m (0.0 ft)	kg		*6760	5460	5100	3000	3310	2010		*2740	1690	6.79
	lb		*14900	12040	11240	6610	7300	4430		*6040	3730	(22.3)
-1.5 m (-4.9 ft)	kg	*5600	*5600	*9980	5480	5060	2960	3300	2000	3190	1940	6.16
	lb	*12350	*12350	*22000	12080	11160	6530	7280	4410	7030	4280	(20.2)
-3.0 m (-9.8 ft)	kg			*7990	5620	5160	3050			4400	2650	5.01
	lb			*17610	12390	11380	6720			9700	5840	(16.4)

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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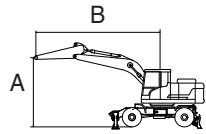
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW140A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2450	1700	-	500	-	Up	-	-



: 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									*2890	*2890	4.16
	lb									*6370	*6370	(13.6)
6.0 m (19.7 ft)	kg				*3880	3390				*2390	2250	5.70
	lb				*8550	7470				*5270	4960	(18.7)
4.5 m (14.8 ft)	kg				*4330	3280	3590	2050		*2250	1750	6.55
	lb				*9550	7230	7910	4520		*4960	3860	(21.5)
3.0 m (9.8 ft)	kg		*7850	5600	*5330	3050	3500	1970		*2260	1530	6.97
	lb		*17310	12350	*11750	6720	7720	4340		*4980	3370	(22.9)
1.5 m (4.9 ft)	kg		*5690	4970	5270	2810	3390	1860		*2410	1460	7.05
	lb		*12540	10960	11620	6190	7470	4100		*5310	3220	(23.1)
0.0 m (0.0 ft)	kg		*6760	4790	5100	2670	3310	1790		*2740	1510	6.79
	lb		*14900	10560	11240	5890	7300	3950		*6040	3330	(22.3)
-1.5 m (-4.9 ft)	kg	*5600	*5600	*9980	4800	5060	2640	3300	1790	3190	1730	6.16
	lb	*12350	*12350	*22000	10580	11160	5820	7280	3950	7030	3810	(20.2)
-3.0 m (-9.8 ft)	kg			*7990	4940	5160	2720			4400	2370	5.01
	lb			*17610	10890	11380	6000			9700	5220	(16.4)

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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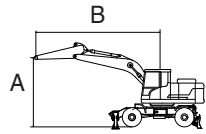
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	MONO BOOM	4600	2600	1700	-	500	-	Down	-	-



: 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									*2660	*2660	4.40
	lb									*5860	*5860	(14.4)
6.0 m (19.7 ft)	kg									*2230	*2230	5.87
	lb									*4920	*4920	(19.3)
4.5 m (14.8 ft)	kg				*4180	3650	3610	2280	*2100	1870	6.70	
	lb				*9220	8050	7960	5030	*4630	4120	(22.0)	
3.0 m (9.8 ft)	kg		*7510	6380	*5190	3410	3510	2190	*2110	1650	7.12	
	lb		*16560	14070	*11440	7520	7740	4830	*4650	3640	(23.3)	
1.5 m (4.9 ft)	kg		*6430	5680	5280	3150	3390	2080	*2250	1580	7.19	
	lb		*14180	12520	11640	6940	7470	4590	*4960	3480	(23.6)	
0.0 m (0.0 ft)	kg		*6820	5440	5090	2990	3300	2000	*2540	1630	6.94	
	lb		*15040	11990	11220	6590	7280	4410	*5600	3590	(22.8)	
-1.5 m (-4.9 ft)	kg	*5360	*5360	*10110	5440	5040	2950	3290	1990	3060	1860	6.33
	lb	*11820	*11820	*22290	11990	11110	6500	7250	4390	6750	4100	(20.8)
-3.0 m (-9.8 ft)	kg	*9520	*9520	*8270	5580	5120	3020			4130	2490	5.21
	lb	*20990	*20990	*18230	12300	11290	6660			9110	5490	(17.1)

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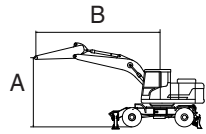
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	MONO BOOM	4600	2600	1700	-	500	-	Up	-	-



: 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									*2660	*2660	4.40
	lb									*5860	*5860	(14.4)
6.0 m (19.7 ft)	kg									*2230	2140	5.87
	lb									*4920	4720	(19.3)
4.5 m (14.8 ft)	kg					*4180	3300	3610	2060	*2100	1690	6.70
	lb					*9220	7280	7960	4540	*4630	3730	(22.0)
3.0 m (9.8 ft)	kg			*7510	5670	*5190	3070	3510	1970	*2110	1480	7.12
	lb			*16560	12500	*11440	6770	7740	4340	*4650	3260	(23.3)
1.5 m (4.9 ft)	kg			*6430	5000	5280	2820	3390	1870	*2250	1410	7.19
	lb			*14180	11020	11640	6220	7470	4120	*4960	3110	(23.6)
0.0 m (0.0 ft)	kg			*6820	4770	5090	2660	3300	1790	*2540	1460	6.94
	lb			*15040	10520	11220	5860	7280	3950	*5600	3220	(22.8)
-1.5 m (-4.9 ft)	kg	*5360	*5360	*10110	4760	5040	2620	3290	1770	3060	1660	6.33
	lb	*11820	*11820	*22290	10490	11110	5780	7250	3900	6750	3660	(20.8)
-3.0 m (-9.8 ft)	kg	*9520	*9520	*8270	4900	5120	2690			4130	2220	5.21
	lb	*20990	*20990	*18230	10800	11290	5930			9110	4890	(17.1)

Note 1. Lifting capacity are based on ISO 10567.

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- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- \*Indicates load limited by hydraulic capacity.

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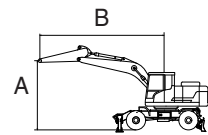
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.















▲ 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	
HW140A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3100	1700	-	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													*2150	*2150	5.13
	lb													*4740	*4740	(16.8)
6.0 m (19.7 ft)	kg							*2670	2340					*1860	*1860	6.43
	lb							*5890	5160					*4100	*4100	(21.1)
4.5 m (14.8 ft)	kg							*3310	2310					*1770	1660	7.20
	lb							*7300	5090					*3900	3660	(23.6)
3.0 m (9.8 ft)	kg			*6350	*6350	*4690	3470	3530	2210	*2090	1510	*1790	1480	7.58		
	lb			*14000	*14000	*10340	7650	7780	4870	*4610	3330	*3950	3260	(24.9)		
1.5 m (4.9 ft)	kg			*9370	5840	5330	3190	3400	2080	2400	1460	*1900	1410	7.65		
	lb			*20660	12870	11750	7030	7500	4590	5290	3220	*4190	3110	(25.1)		
0.0 m (0.0 ft)	kg			*7170	5460	5100	2990	3290	1980			*2120	1450	7.42		
	lb			*15810	12040	11240	6590	7250	4370			*4670	3200	(24.3)		
-1.5 m (-4.9 ft)	kg	*4710	*4710	*9570	5380	5010	2910	3240	1940			*2570	1620	6.85		
	lb	*10380	*10380	*21100	11860	11050	6420	7140	4280			*5670	3570	(22.5)		
-3.0 m (-9.8 ft)	kg	*7920	*7920	*9090	5470	5040	2940					3430	2070	5.84		
	lb	*17460	*17460	*20040	12060	11110	6480					7560	4560	(19.1)		

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.

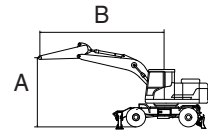
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.















▲ 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	
HW140A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3100	1700	-	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													*2150	*2150	5.13
	lb													*4740	*4740	(16.8)
6.0 m (19.7 ft)	kg							*2670	2120					*1860	1850	6.43
	lb							*5890	4670					*4100	4080	(21.1)
4.5 m (14.8 ft)	kg							*3310	2090					*1770	1490	7.20
	lb							*7300	4610					*3900	3280	(23.6)
3.0 m (9.8 ft)	kg			*6350	5900	*4690	3130	3530	1990	*2090	1350	*1790	1320	*1790	1320	7.58
	lb			*14000	13010	*10340	6900	7780	4390	*4610	2980	*3950	2910	*3950	2910	(24.9)
1.5 m (4.9 ft)	kg			*9370	5150	5330	2860	3400	1870	2400	1310	*1900	1260	*1900	1260	7.65
	lb			*20660	11350	11750	6310	7500	4120	5290	2890	*4190	2780	*4190	2780	(25.1)
0.0 m (0.0 ft)	kg			*7170	4780	5100	2660	3290	1770			*2120	1290	*2120	1290	7.42
	lb			*15810	10540	11240	5860	7250	3900			*4670	2840	*4670	2840	(24.3)
-1.5 m (-4.9 ft)	kg	*4710	*4710	*9570	4710	5010	2580	3240	1730			*2570	1440	*2570	1440	6.85
	lb	*10380	*10380	*21100	10380	11050	5690	7140	3810			*5670	3170	*5670	3170	(22.5)
-3.0 m (-9.8 ft)	kg	*7920	*7920	*9090	4790	5040	2610					3430	1840	3430	1840	5.84
	lb	*17460	*17460	*20040	10560	11110	5750					7560	4060	7560	4060	(19.1)

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.

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## 2) 4.6 m MONO BOOM+2200 kg COUNTERWEIGHT

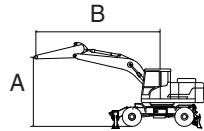
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	MONO BOOM	4600	2000	2200	-	500	-	Down	-	-



: 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)	
6.0 m (19.7 ft)	kg					*4420	4000			*3330	3180	5.15
	lb					*9740	8820			*7340	7010	(16.9)
4.5 m (14.8 ft)	kg					*4790	3890	*3600	2460	*3110	2410	6.08
	lb					*10560	8580	*7940	5420	*6860	5310	(19.9)
3.0 m (9.8 ft)	kg					*5740	3670	3780	2400	*3140	2100	6.53
	lb					*12650	8090	8330	5290	*6920	4630	(21.4)
1.5 m (4.9 ft)	kg					5680	3460	3680	2320	3190	2010	6.62
	lb					12520	7630	8110	5110	7030	4430	(21.7)
0.0 m (0.0 ft)	kg			*6510	6090	5550	3350	3620	2260	3350	2100	6.34
	lb			*14350	13430	12240	7390	7980	4980	7390	4630	(20.8)
-1.5 m (-4.9 ft)	kg	*6490	*6490	*9460	6150	5540	3340			3960	2470	5.66
	lb	*14310	*14310	*20860	13560	12210	7360			8730	5450	(18.6)
-3.0 m (-9.8 ft)	kg			*6990	6340					*4600	3630	4.37
	lb			*15410	13980					*10140	8000	(14.3)

Note 1. Lifting capacity are based on ISO 10567.

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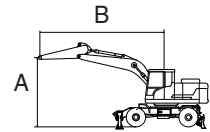
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










Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW140A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2000	2200	-	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)	
6.0 m (19.7 ft)	kg					*4420	3630			*3330	2900	5.15
	lb					*9740	8000			*7340	6390	(16.9)
4.5 m (14.8 ft)	kg					*4790	3540	*3600	2240	*3110	2190	6.08
	lb					*10560	7800	*7940	4940	*6860	4830	(19.9)
3.0 m (9.8 ft)	kg					*5740	3320	3780	2180	*3140	1900	6.53
	lb					*12650	7320	8330	4810	*6920	4190	(21.4)
1.5 m (4.9 ft)	kg					5680	3110	3680	2090	3190	1820	6.62
	lb					12520	6860	8110	4610	7030	4010	(21.7)
0.0 m (0.0 ft)	kg			*6510	5380	5550	3000	3620	2040	3350	1900	6.34
	lb			*14350	11860	12240	6610	7980	4500	7390	4190	(20.8)
-1.5 m (-4.9 ft)	kg	*6490	*6490	*9460	5430	5540	3000			3960	2220	5.66
	lb	*14310	*14310	*20860	11970	12210	6610			8730	4890	(18.6)
-3.0 m (-9.8 ft)	kg			*6990	5610					*4600	3270	4.37
	lb			*15410	12370					*10140	7210	(14.3)

Note 1. Lifting capacity are based on ISO 10567.

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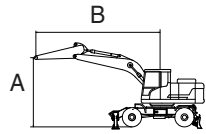
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	MONO BOOM	4600	2450	2200	-	500	-	Down	-	-



: 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									*2890	*2890	4.16
	lb									*6370	*6370	(13.6)
6.0 m (19.7 ft)	kg				*3880	*3880				*2390	*2390	5.70
	lb				*8550	*8550				*5270	*5270	(18.7)
4.5 m (14.8 ft)	kg				*4330	3940	*3790	2490	*2250	2140		6.55
	lb				*9550	8690	*8360	5490	*4960	4720		(21.5)
3.0 m (9.8 ft)	kg		*7850	6880	*5330	3710	3790	2410	*2260	1890		6.97
	lb		*17310	15170	*11750	8180	8360	5310	*4980	4170		(22.9)
1.5 m (4.9 ft)	kg		*5690	*5690	5700	3470	3670	2300	*2410	1810		7.05
	lb		*12540	*12540	12570	7650	8090	5070	*5310	3990		(23.1)
0.0 m (0.0 ft)	kg		*6760	6030	5530	3320	3590	2230	*2740	1880		6.79
	lb		*14900	13290	12190	7320	7910	4920	*6040	4140		(22.3)
-1.5 m (-4.9 ft)	kg	*5600	*5600	*9980	6050	5490	3290	3590	2230	*3430	2150	6.16
	lb	*12350	*12350	*22000	13340	12100	7250	7910	4920	*7560	4740	(20.2)
-3.0 m (-9.8 ft)	kg			*7990	6200	*5350	3370			*4450	2930	5.01
	lb			*17610	13670	*11790	7430			*9810	6460	(16.4)

Note 1. Lifting capacity are based on ISO 10567.

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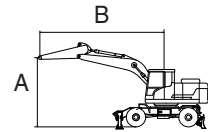
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	MONO BOOM	4600	2450	2200	-	500	-	Up	-	-



: 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									*2890	*2890	4.16
	lb									*6370	*6370	(13.6)
6.0 m (19.7 ft)	kg				*3880	3700				*2390	*2390	5.70
	lb				*8550	8160				*5270	*5270	(18.7)
4.5 m (14.8 ft)	kg				*4330	3580	*3790	2260	*2250	1940		6.55
	lb				*9550	7890	*8360	4980	*4960	4280		(21.5)
3.0 m (9.8 ft)	kg		*7850	6130	*5330	3360	3790	2180	*2260	1710		6.97
	lb		*17310	13510	*11750	7410	8360	4810	*4980	3770		(22.9)
1.5 m (4.9 ft)	kg		*5690	5510	5700	3120	3670	2080	*2410	1630		7.05
	lb		*12540	12150	12570	6880	8090	4590	*5310	3590		(23.1)
0.0 m (0.0 ft)	kg		*6760	5320	5530	2980	3590	2010	*2740	1690		6.79
	lb		*14900	11730	12190	6570	7910	4430	*6040	3730		(22.3)
-1.5 m (-4.9 ft)	kg	*5600	*5600	*9980	5330	5490	2940	3590	2000	*3430	1940	6.16
	lb	*12350	*12350	*22000	11750	12100	6480	7910	4410	*7560	4280	(20.2)
-3.0 m (-9.8 ft)	kg			*7990	5480	*5350	3020			*4450	2640	5.01
	lb			*17610	12080	*11790	6660			*9810	5820	(16.4)

Note 1. Lifting capacity are based on ISO 10567.

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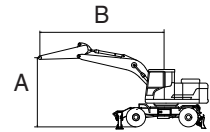
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	MONO BOOM	4600	2600	2200	-	500	-	Down	-	-

·  : 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									*2660	*2660	4.40
	lb									*5860	*5860	(14.4)
6.0 m (19.7 ft)	kg									*2230	*2230	5.87
	lb									*4920	*4920	(19.3)
4.5 m (14.8 ft)	kg					*4180	3970	*3720	2510	*2100	2070	6.70
	lb					*9220	8750	*8200	5530	*4630	4560	(22.0)
3.0 m (9.8 ft)	kg			*7510	6950	*5190	3730	3800	2420	*2110	1830	7.12
	lb			*16560	15320	*11440	8220	8380	5340	*4650	4030	(23.3)
1.5 m (4.9 ft)	kg			*6430	6250	5710	3480	3680	2310	*2250	1760	7.19
	lb			*14180	13780	12590	7670	8110	5090	*4960	3880	(23.6)
0.0 m (0.0 ft)	kg			*6820	6020	5520	3320	3590	2230	*2540	1820	6.94
	lb			*15040	13270	12170	7320	7910	4920	*5600	4010	(22.8)
-1.5 m (-4.9 ft)	kg	*5360	*5360	*10110	6010	5470	3270	3570	2210	*3140	2070	6.33
	lb	*11820	*11820	*22290	13250	12060	7210	7870	4870	*6920	4560	(20.8)
-3.0 m (-9.8 ft)	kg	*9520	*9520	*8270	6150	5550	3340			*4400	2760	5.21
	lb	*20990	*20990	*18230	13560	12240	7360			*9700	6080	(17.1)

Note 1. Lifting capacity are based on ISO 10567.

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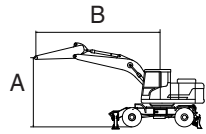
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	MONO BOOM	4600	2600	2200	-	500	-	Up	-	-



: 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									*2660	*2660	4.40
	lb									*5860	*5860	(14.4)
6.0 m (19.7 ft)	kg									*2230	*2230	5.87
	lb									*4920	*4920	(19.3)
4.5 m (14.8 ft)	kg				*4180	3610	*3720	2280	*2100	1870	6.70	
	lb				*9220	7960	*8200	5030	*4630	4120	(22.0)	
3.0 m (9.8 ft)	kg		*7510	6200	*5190	3380	3800	2190	*2110	1660	7.12	
	lb		*16560	13670	*11440	7450	8380	4830	*4650	3660	(23.3)	
1.5 m (4.9 ft)	kg		*6430	5530	5710	3130	3680	2080	*2250	1580	7.19	
	lb		*14180	12190	12590	6900	8110	4590	*4960	3480	(23.6)	
0.0 m (0.0 ft)	kg		*6820	5300	5520	2970	3590	2000	*2540	1640	6.94	
	lb		*15040	11680	12170	6550	7910	4410	*5600	3620	(22.8)	
-1.5 m (-4.9 ft)	kg	*5360	*5360	*10110	5300	5470	2930	3570	1990	*3140	1860	6.33
	lb	*11820	*11820	*22290	11680	12060	6460	7870	4390	*6920	4100	(20.8)
-3.0 m (-9.8 ft)	kg	*9520	*9520	*8270	5430	5550	3000			*4400	2480	5.21
	lb	*20990	*20990	*18230	11970	12240	6610			*9700	5470	(17.1)

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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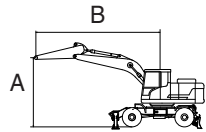
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	MONO BOOM	4600	3100	2200	-	500	-	Down	-	-



: 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											*2150	*2150	5.13
	lb											*4740	*4740	(16.8)
6.0 m (19.7 ft)	kg						*2670	2570				*1860	*1860	6.43
	lb						*5890	5670				*4100	*4100	(21.1)
4.5 m (14.8 ft)	kg						*3310	2530				*1770	*1770	7.20
	lb						*7300	5580				*3900	*3900	(23.6)
3.0 m (9.8 ft)	kg			*6350	*6350	*4690	3800	3820	2430	*2090	1680	*1790	1650	7.58
	lb			*14000	*14000	*10340	8380	8420	5360	*4610	3700	*3950	3640	(24.9)
1.5 m (4.9 ft)	kg			*9370	6410	5760	3520	3680	2310	*2510	1640	*1900	1580	7.65
	lb			*20660	14130	12700	7760	8110	5090	*5530	3620	*4190	3480	(25.1)
0.0 m (0.0 ft)	kg			*7170	6030	5530	3320	3570	2210			*2120	1630	7.42
	lb			*15810	13290	12190	7320	7870	4870			*4670	3590	(24.3)
-1.5 m (-4.9 ft)	kg	*4710	*4710	*9570	5960	5430	3230	3530	2170			*2570	1810	6.85
	lb	*10380	*10380	*21100	13140	11970	7120	7780	4780			*5670	3990	(22.5)
-3.0 m (-9.8 ft)	kg	*7920	*7920	*9090	6040	5460	3260					*3610	2300	5.84
	lb	*17460	*17460	*20040	13320	12040	7190					*7960	5070	(19.1)

Note 1. Lifting capacity are based on ISO 10567.

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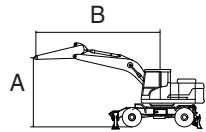
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HW140A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3100	2200	-	500	-	Up	-	-



: 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
														kg
7.5 m (24.6 ft)	kg											*2150	*2150	5.13
	lb											*4740	*4740	(16.8)
6.0 m (19.7 ft)	kg						*2670	2340				*1860	*1860	6.43
	lb						*5890	5160				*4100	*4100	(21.1)
4.5 m (14.8 ft)	kg						*3310	2300				*1770	1670	7.20
	lb						*7300	5070				*3900	3680	(23.6)
3.0 m (9.8 ft)	kg			*6350	*6350	*4690	3440	3820	2200	*2090	1520	*1790	1490	7.58
	lb			*14000	*14000	*10340	7580	8420	4850	*4610	3350	*3950	3280	(24.9)
1.5 m (4.9 ft)	kg			*9370	5680	5760	3170	3680	2080	*2510	1470	*1900	1420	7.65
	lb			*20660	12520	12700	6990	8110	4590	*5530	3240	*4190	3130	(25.1)
0.0 m (0.0 ft)	kg			*7170	5320	5530	2970	3570	1980			*2120	1460	7.42
	lb			*15810	11730	12190	6550	7870	4370			*4670	3220	(24.3)
-1.5 m (-4.9 ft)	kg	*4710	*4710	*9570	5240	5430	2890	3530	1940			*2570	1630	6.85
	lb	*10380	*10380	*21100	11550	11970	6370	7780	4280			*5670	3590	(22.5)
-3.0 m (-9.8 ft)	kg	*7920	*7920	*9090	5320	5460	2920					*3610	2060	5.84
	lb	*17460	*17460	*20040	11730	12040	6440					*7960	4540	(19.1)

Note 1. Lifting capacity are based on ISO 10567.

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### 3) 4.71 m 2-PIECE BOOM+2200 kg COUNTERWEIGHT

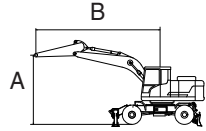
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	2-PIECE BOOM	4710	2000	2200	-	500	-	Down	-	-



: 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						*4410	*4410	3.69	
	lb						*9720	*9720	(12.1)	
6.0 m (19.7 ft)	kg		*4210	4020			*3470	2970	5.37	
	lb		*9280	8860			*7650	6550	(17.6)	
4.5 m (14.8 ft)	kg	*5800	*5800	*4630	3890	3870	2460	*3200	2280	6.26
	lb	*12790	*12790	*10210	8580	8530	5420	*7050	5030	(20.6)
3.0 m (9.8 ft)	kg		*5580	3650	3780	2390	3170	2000	6.71	
	lb		*12300	8050	8330	5270	6990	4410	(22.0)	
1.5 m (4.9 ft)	kg		5670	3420	3680	2300	3070	1920	6.79	
	lb		12500	7540	8110	5070	6770	4230	(22.3)	
0.0 m (0.0 ft)	kg	*4830	*4830	5540	3310	3620	2240	3220	2010	6.52
	lb	*10650	*10650	12210	7300	7980	4940	7100	4430	(21.4)
-1.5 m (-4.9 ft)	kg	*9500	6110	5540	3310			3780	2340	5.86
	lb	*20940	13470	12210	7300			8330	5160	(19.2)

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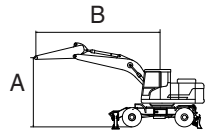
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	2-PIECE BOOM	4710	2000	2200	-	500	-	Up	-	-



: 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						*4410	*4410	3.69	
	lb						*9720	*9720	(12.1)	
6.0 m (19.7 ft)	kg		*4210	3650			*3470	2690	5.37	
	lb		*9280	8050			*7650	5930	(17.6)	
4.5 m (14.8 ft)	kg	*5800	*5800	*4630	3530	3870	2230	*3200	2060	6.26
	lb	*12790	*12790	*10210	7780	8530	4920	*7050	4540	(20.6)
3.0 m (9.8 ft)	kg		*5580	3290	3780	2160	3170	1810	6.71	
	lb		*12300	7250	8330	4760	6990	3990	(22.0)	
1.5 m (4.9 ft)	kg		5670	3070	3680	2070	3070	1730	6.79	
	lb		12500	6770	8110	4560	6770	3810	(22.3)	
0.0 m (0.0 ft)	kg	*4830	*4830	5540	2960	3620	2010	3220	1810	6.52
	lb	*10650	*10650	12210	6530	7980	4430	7100	3990	(21.4)
-1.5 m (-4.9 ft)	kg	*9500	5380	5540	2960		3780	2110	5.86	
	lb	*20940	11860	12210	6530		8330	4650	(19.2)	

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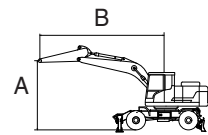
**Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.**









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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	2-PIECE BOOM	4710	2450	2200	-	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							*3030	*3030	4.46
	lb							*6680	*6680	(14.6)
6.0 m (19.7 ft)	kg		*3710	*3710				*2500	*2500	5.92
	lb		*8180	*8180				*5510	*5510	(19.4)
4.5 m (14.8 ft)	kg		*4190	3950	*3880	2490	*2320	2030		6.74
	lb		*9240	8710	*8550	5490	*5110	4480		(22.1)
3.0 m (9.8 ft)	kg		*5190	3690	3800	2400	*2300	1800		7.15
	lb		*11440	8140	8380	5290	*5070	3970		(23.5)
1.5 m (4.9 ft)	kg		5690	3440	3670	2280	*2410	1730		7.23
	lb		12540	7580	8090	5030	*5310	3810		(23.7)
0.0 m (0.0 ft)	kg	*5270	*5270	5520	3290	3590	2210	*2670	1800	6.98
	lb	*11620	*11620	12170	7250	7910	4870	*5890	3970	(22.9)
-1.5 m (-4.9 ft)	kg	*9410	6000	5480	3250	3580	2200	*3220	2050	6.37
	lb	*20750	13230	12080	7170	7890	4850	*7100	4520	(20.9)

Note 1. Lifting capacity are based on ISO 10567.

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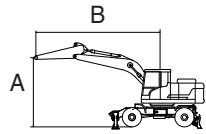
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	2-PIECE BOOM	4710	2450	2200	-	500	-	Up	-	-



: 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						*3030 *6680	*3030 *6680	4.46 (14.6)	
6.0 m (19.7 ft)	kg lb		*3710 *8180	*3710 *8180			*2500 *5510	2310 5090	5.92 (19.4)	
4.5 m (14.8 ft)	kg lb		*4190 *9240	3580 7890	*3880 *8550	2260 4980	*2320 *5110	1830 4030	6.74 (22.1)	
3.0 m (9.8 ft)	kg lb		*5190 *11440	3330 7340	3800 8380	2160 4760	*2300 *5070	1620 3570	7.15 (23.5)	
1.5 m (4.9 ft)	kg lb		5690 12540	3080 6790	3670 8090	2060 4540	*2410 *5310	1550 3420	7.23 (23.7)	
0.0 m (0.0 ft)	kg lb	*5270 *11620	5250 11570	5520 12170	2940 6480	3590 7910	1980 4370	*2670 *5890	1610 3550	6.98 (22.9)
-1.5 m (-4.9 ft)	kg lb	*9410 *20750	5280 11640	5480 12080	2900 6390	3580 7890	1970 4340	*3220 *7100	1840 4060	6.37 (20.9)

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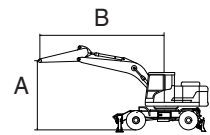
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


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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	2-PIECE BOOM	4710	2600	2200	-	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			*3340	*3340			*2790	*2790	4.70
	lb			*7360	*7360			*6150	*6150	(15.4)
6.0 m (19.7 ft)	kg			*3560	*3560	*2730	2520	*2330	*2330	6.10
	lb			*7850	*7850	*6020	5560	*5140	*5140	(20.0)
4.5 m (14.8 ft)	kg			*4050	3980	*3770	2510	*2170	1960	6.90
	lb			*8930	8770	*8310	5530	*4780	4320	(22.6)
3.0 m (9.8 ft)	kg	*7450	6900	*5050	3710	3810	2400	*2150	1750	7.30
	lb	*16420	15210	*11130	8180	8400	5290	*4740	3860	(23.9)
1.5 m (4.9 ft)	kg			5700	3440	3680	2290	*2250	1680	7.37
	lb			12570	7580	8110	5050	*4960	3700	(24.2)
0.0 m (0.0 ft)	kg	*5350	*5350	5510	3280	3580	2200	*2480	1740	7.13
	lb	*11790	*11790	12150	7230	7890	4850	*5470	3840	(23.4)
-1.5 m (-4.9 ft)	kg	*9050	5960	5460	3240	3570	2190	*2970	1970	6.53
	lb	*19950	13140	12040	7140	7870	4830	*6550	4340	(21.4)
-3.0 m (-9.8 ft)	kg			5550	3310					
	lb			12240	7300					

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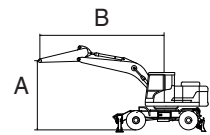
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


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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HW140A	2-PIECE BOOM	4710	2600	2200	-	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			*3340	*3340			*2790	*2790	4.70
	lb			*7360	*7360			*6150	*6150	(15.4)
6.0 m (19.7 ft)	kg			*3560	*3560	*2730	2280	*2330	2210	6.10
	lb			*7850	*7850	*6020	5030	*5140	4870	(20.0)
4.5 m (14.8 ft)	kg			*4050	3610	*3770	2270	*2170	1770	6.90
	lb			*8930	7960	*8310	5000	*4780	3900	(22.6)
3.0 m (9.8 ft)	kg	*7450	6140	*5050	3350	3810	2170	*2150	1570	7.30
	lb	*16420	13540	*11130	7390	8400	4780	*4740	3460	(23.9)
1.5 m (4.9 ft)	kg			5700	3090	3680	2060	*2250	1510	7.37
	lb			12570	6810	8110	4540	*4960	3330	(24.2)
0.0 m (0.0 ft)	kg	*5350	5230	5510	2930	3580	1980	*2480	1560	7.13
	lb	*11790	11530	12150	6460	7890	4370	*5470	3440	(23.4)
-1.5 m (-4.9 ft)	kg	*9050	5240	5460	2890	3570	1960	*2970	1760	6.53
	lb	*19950	11550	12040	6370	7870	4320	*6550	3880	(21.4)
-3.0 m (-9.8 ft)	kg			5550	2960					
	lb			12240	6530					

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.

## 6. BUCKET SELECTION GUIDE

### 1) MONO BOOM, 1700 kg COUNTERWEIGHT



General bucket



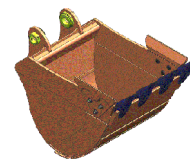
Heavy duty



Ditch cleaning



Slope finishing



Hammerless tooth

Type	Capacity		Width		Weight kg (lb)	Tooth  EA	MONO			
	SAE Heaped  m <sup>3</sup> (yd <sup>3</sup> )	CECE heaped  m <sup>3</sup> (yd <sup>3</sup> )	Without side cutter  mm (in)	With side cutter  mm (in)			Recommendation		mm (ft-in)	
							4.6 m (15' 1") 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	0.58 (0.76)	0.50 (0.65)	950 (37.4")	1110 (43.7")	480 (1060)	5	●	■	▲	▲
	0.52 (0.68)	0.45 (0.59)	870 (34.3")	1020 (40.2")	460 (1010)	5	●	■	■	▲
	0.65 (0.85)	0.55 (0.72)	1060 (41.7")	1210 (47.6")	513 (1130)	5	■	▲	■	X
Heavy duty	0.71 (0.93)	0.60 (0.78)	1140 (44.9")	1300 (51.2")	536 (1180)	5	▲	▲	X	X
Ditch cleaning	0.45 (0.59)	0.40 (0.52)	1520 (59.8")	-	410 (900)	0	●	●	●	■
Slope finishing	0.55 (0.72)	0.45 (0.59)	1800 (70.9")	-	585 (1290)	0	●	■	▲	▲
Hammer- less tooth	0.50 (0.65)	0.45 (0.59)	762 (30.0")	821 (32.3")	439 (970)	4	●	●	■	■
	0.61 (0.80)	0.54 (0.71)	914 (36.0")	974 (38.3")	490 (1080)	5	■	▲	▲	▲



Applicable for materials with density of 2100 kg/m<sup>3</sup> (3500 lb/yd<sup>3</sup>) or less



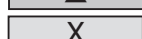
Applicable for materials with density of 1800 kg/m<sup>3</sup> (3000 lb/yd<sup>3</sup>) or less



Applicable for materials with density of 1500 kg/m<sup>3</sup> (2500 lb/yd<sup>3</sup>) or less



Applicable for materials with density of 1200 kg/m<sup>3</sup> (2000 lb/yd<sup>3</sup>) or less



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, 2200 kg COUNTERWEIGHT



General bucket



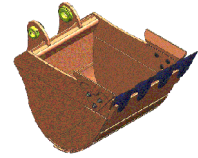
Heavy duty



Ditch cleaning



Slope finishing



Hammerless tooth

Type	Capacity		Width		Weight kg (lb)	Tooth EA	MONO			
	SAE Heaped m <sup>3</sup> (yd <sup>3</sup> )	CECE heaped m <sup>3</sup> (yd <sup>3</sup> )	Without side cutter mm (in)	With side cutter mm (in)			Recommendation		mm (ft-in)	
							4.6 m (15' 1") 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	0.58 (0.76)	0.50 (0.65)	950 (37.4")	1110 (43.7")	480 (1060)	5	●	●	■	▲
	0.52 (0.68)	0.45 (0.59)	870 (34.3")	1020 (40.2")	460 (1010)	5	●	●	●	■
	0.65 (0.85)	0.55 (0.72)	1060 (41.7")	1210 (47.6")	513 (1130)	5	●	■	■	▲
Heavy duty	0.71 (0.93)	0.60 (0.78)	1140 (44.9")	1300 (51.2")	536 (1180)	5	■	▲	▲	X
Ditch cleaning	0.45 (0.59)	0.40 (0.52)	1520 (59.8")	-	410 (900)	0	●	●	●	●
Slope finishing	0.55 (0.72)	0.45 (0.59)	1800 (70.9")	-	585 (1290)	0	●	■	■	▲
Hammer -less tooth	0.50 (0.65)	0.45 (0.59)	762 (30.0")	821 (32.3")	439 (970)	4	●	●	●	■
	0.61 (0.80)	0.54 (0.71)	914 (36.0")	974 (38.3")	490 (1080)	5	●	■	■	▲



Applicable for materials with density of 2100 kg/m<sup>3</sup> (3500 lb/yd<sup>3</sup>) or less



Applicable for materials with density of 1800 kg/m<sup>3</sup> (3000 lb/yd<sup>3</sup>) or less



Applicable for materials with density of 1500 kg/m<sup>3</sup> (2500 lb/yd<sup>3</sup>) or less



Applicable for materials with density of 1200 kg/m<sup>3</sup> (2000 lb/yd<sup>3</sup>) or less



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.

### 3) 2-PIECE BOOM, 2200 kg COUNTERWEIGHT



General bucket



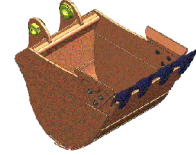
Heavy duty



Ditch cleaning



Slope finishing



Hammerless tooth

Type	Capacity		Width		Weight	Tooth	2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation mm (ft-in)		
					4.71 m (15' 5") Boom				
	m <sup>3</sup> (yd <sup>3</sup> )	m <sup>3</sup> (yd <sup>3</sup> )	mm (in)	mm (in)	kg (lb)	EA	2.0 m (6' 7") Arm	2.45 m (8' 0") Arm	2.6 m (8' 6") Arm
General bucket	0.58 (0.76)	0.50 (0.65)	950 (37.4")	1110 (43.7")	480 (1060)	5	●	■	■
	0.52 (0.68)	0.45 (0.59)	870 (34.3")	1020 (40.2")	460 (1010)	5	●	●	●
	0.65 (0.85)	0.55 (0.72)	1060 (41.7")	1210 (47.6")	513 (1130)	5	■	▲	▲
Heavy duty	0.71 (0.93)	0.60 (0.78)	1140 (44.9")	1300 (51.2")	536 (1180)	5	■	▲	▲
Ditch cleaning	0.45 (0.59)	0.40 (0.52)	1520 (59.8")	-	410 (900)	0	●	●	●
Slope finishing	0.55 (0.72)	0.45 (0.59)	1800 (70.9")	-	585 (1290)	0	●	■	■
Hammerless tooth	0.50 (0.65)	0.45 (0.59)	762 (30.0")	821 (32.3")	439 (970)	4	●	●	●
	0.61 (0.80)	0.54 (0.71)	914 (36.0")	974 (38.3")	490 (1080)	5	●	■	■

- Applicable for materials with density of 2100 kg/m<sup>3</sup> (3500 lb/yd<sup>3</sup>) or less
- ◐ Applicable for materials with density of 1800 kg/m<sup>3</sup> (3000 lb/yd<sup>3</sup>) or less
- Applicable for materials with density of 1500 kg/m<sup>3</sup> (2500 lb/yd<sup>3</sup>) or less
- ▲ Applicable for materials with density of 1200 kg/m<sup>3</sup> (2000 lb/yd<sup>3</sup>) 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	1-3-4-2
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 1,500 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

### 2) MAIN PUMP

Item	Specification
Type	Variable displacement piston pump
Capacity	145 cc/rev
Maximum pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Rated oil flow	230 ℓ /min (60.8 U.S. gpm / 50.6 U.K. gpm)
Rated rpm	1600 rpm

[ ]: Power boost

### 3) STEERING PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	35 cc/rev
Maximum pressure	210 kgf/cm <sup>2</sup> (2990 psi)
Rated oil flow	56 ℓ /min (14.8 U.S. gpm/12.3 U.K. gpm)

### 4) MAIN CONTROL VALVE

Item	Specification	
Type	Section block	
Operating method	Hydraulic pilot system	
Main relief valve pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]	
Port relief valve pressure	Boom	420 kgf/cm <sup>2</sup> (5970 psi)
	Arm	420 kgf/cm <sup>2</sup> (5970 psi)
	Bucket	420 kgf/cm <sup>2</sup> (5970 psi)

[ ] : Power boost

### 5) SWING UNIT

Item	Specification
Type	Radial piston motor
Capacity	1534 cc/rev
Relief pressure	270 kgf/cm <sup>2</sup> (3840 psi)
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	15~40 kgf/cm <sup>2</sup> (213~569 psi) below
Reduction gear type	-

### 6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement bent-axis axial piston motor
Capacity	107/41 cc/rev
Relief pressure	380 kgf/cm <sup>2</sup> (5400 psi)

## 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 <sup>2</sup> (427~455 psi)	
Parking brake	Type	Multi disc brake integrated in transmission	
	Maximum braking torque	2464 kgf · m (17820 lbf · ft)	
Axle	Type	4 wheel drive with differential	
	Gear ratio	16.0	
	Brake	Multi disc brake	
	Brake pressure	81.6 kgf /cm <sup>2</sup> (1160 psi)	
	Steering pressure	180 kgf /cm <sup>2</sup> (2560 psi)	

## 8) POWER TRAIN GEAR PUMP

Item	Description
Capacity	Steering + brake : 11.9 + 19.3 cc / rev (pump PTO)
Rated flow	Steering + brake : 18 + 29 lpm (pump PTO) (4.8 + 7.7 U.S. gpm / 4.0 + 6.4 U.K. gpm)

## 9) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø105 × 1105 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø115 × 1138 mm
	Cushion	Extend and retract
Arm cylinder (2-piece boom)	Bore dia × Stroke	Ø105 × 992 mm
	Cushion	Extend only
Adjust cylinder (2-piece boom)	Bore dia × Stroke	Ø145 × 634 mm
	Cushion	-
Bucket cylinder	Bore dia × Stroke	Ø100 × 850 mm
	Cushion	Extend only
Dozer cylinder (front, rear)	Bore dia × Stroke	Ø100 × 241 mm
	Cushion	-
Outrigger cylinder	Bore dia × Stroke	Ø110 × 446 mm
	Cushion	-

- ※ 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)
Engine oil pan	Engine oil	11 (2.9)	★SAE 5W-40			SAE 30			
			SAE 10W						
Transmission case		2.5 (0.66)	SAE 10W-30			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 : 9.0 (2.38) Hub : 2.4×2 (0.63×2)	SAE 85W-90 LSD or UTTO						
Rear axle		Center : 11.2 (2.96) Hub : 2.4×2 (0.63×2)							
Hydraulic tank	Hydraulic oil	Tank: 122 (32.2) System: 204 (53.9)	★ISO VG 15			ISO VG 32			
						ISO VG 46, HBHO★ <sup>3</sup>			
						ISO VG 68			
Fuel tank	Diesel fuel★ <sup>1</sup>	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★ <sup>2</sup>	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)  
★<sup>1</sup> : Ultra low sulfur diesel  
- sulfur content ≤ 10 ppm  
★<sup>2</sup> : Soft water  
City water or distilled water  
★<sup>3</sup> : 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.