

# SECTION 1 GENERAL

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# SECTION 1 GENERAL

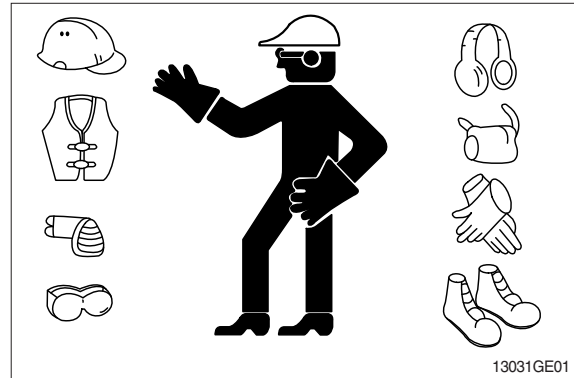
## GROUP 1 SAFETY

### FOLLOW SAFE PROCEDURE

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

### WEAR PROTECTIVE CLOTHING

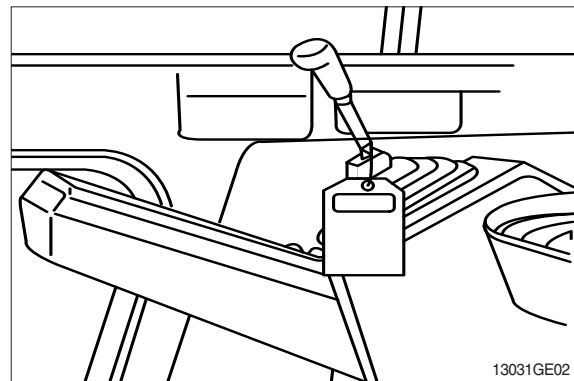
Wear close fitting clothing and safety equipment appropriate to the job.



### 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.



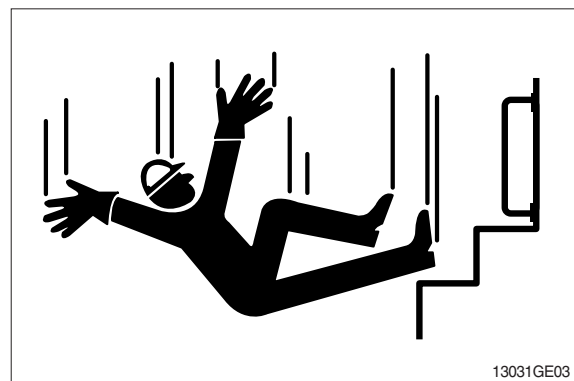
### USE HANDHOLDS AND STEPS

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.

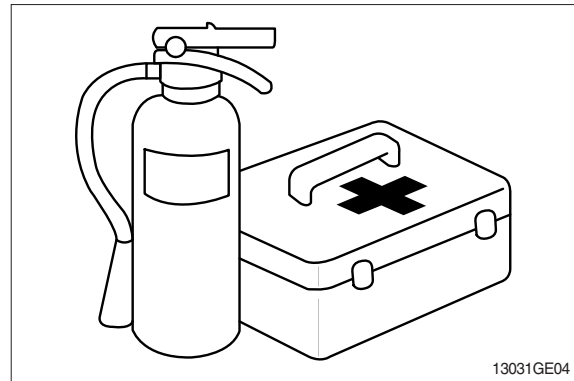


## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

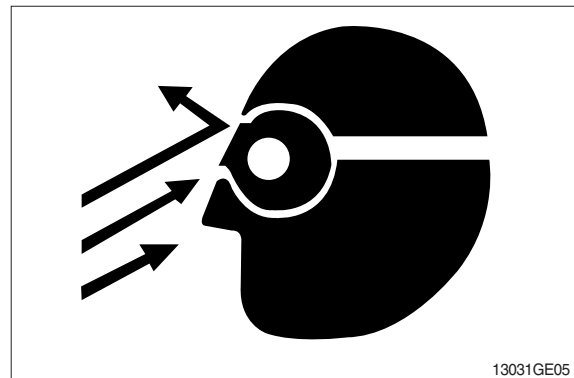
Keep a first aid kit and fire extinguisher handy.

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



## PROTECT AGAINST FLYING DEBRIS

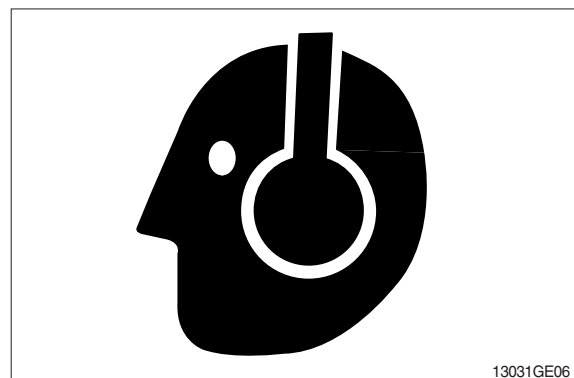
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



## PROTECT AGAINST NOISE

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

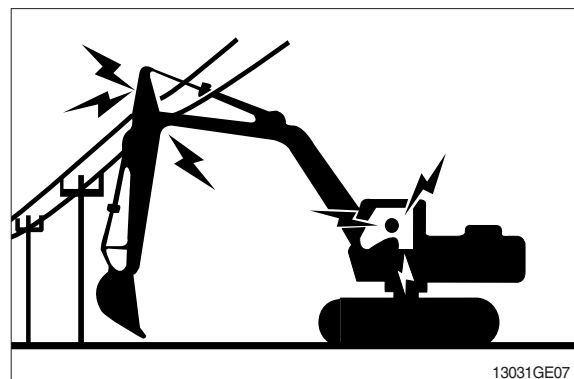
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



## AVOID POWER LINES

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

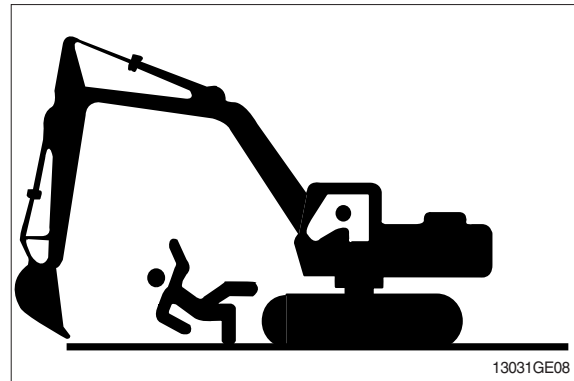
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



## 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.

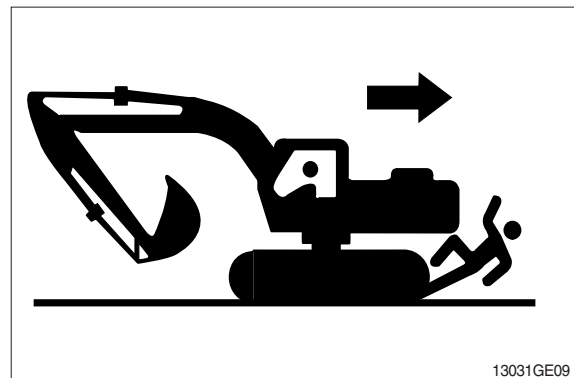


## MOVE AND OPERATE MACHINE SAFELY

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:

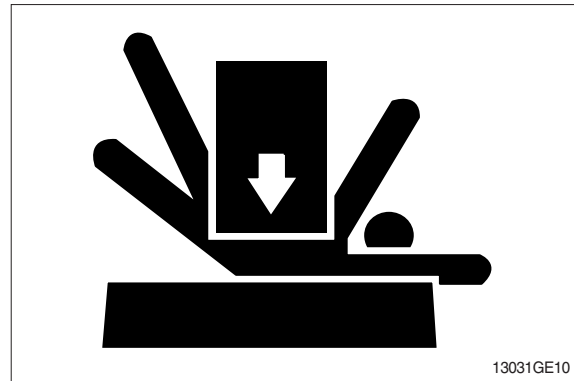
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at low idle speed without load for 5 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Place safety lever to locked position.
- Allow engine to cool.

## 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.

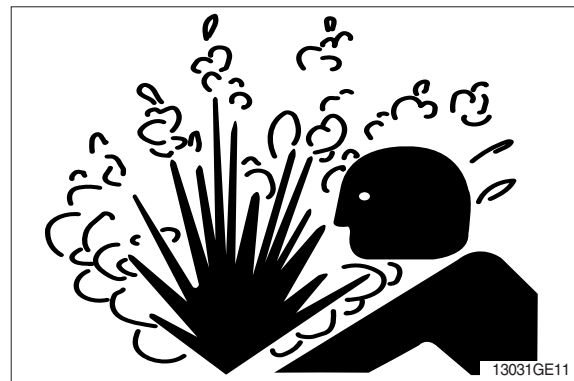
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



## 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

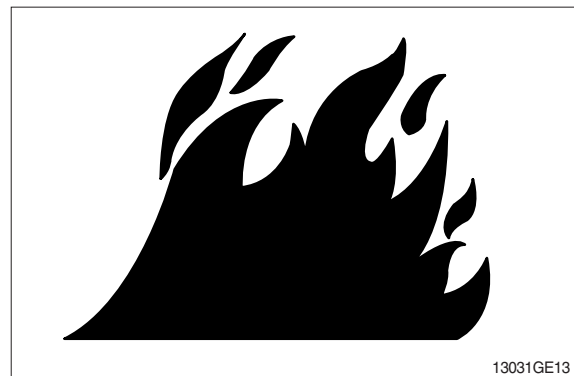
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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.

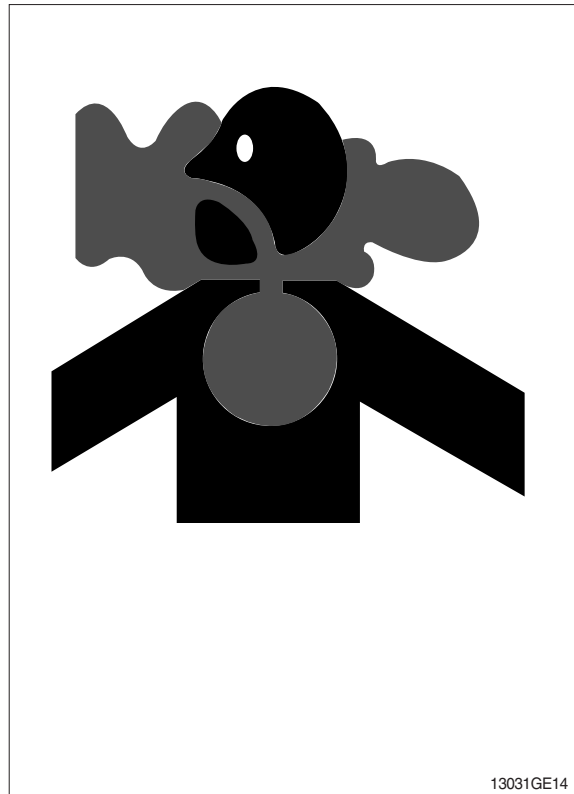
Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

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

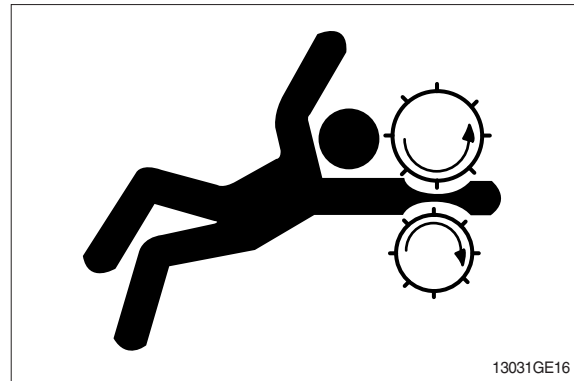
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



### 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.

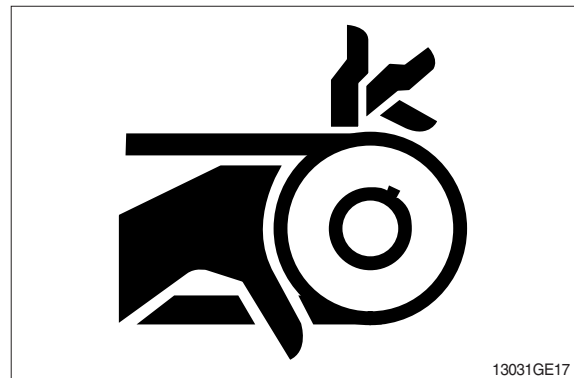
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



### STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



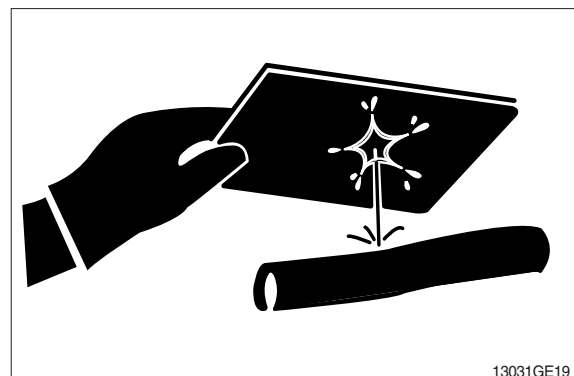
### AVOID HIGH PRESSURE FLUIDS

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:

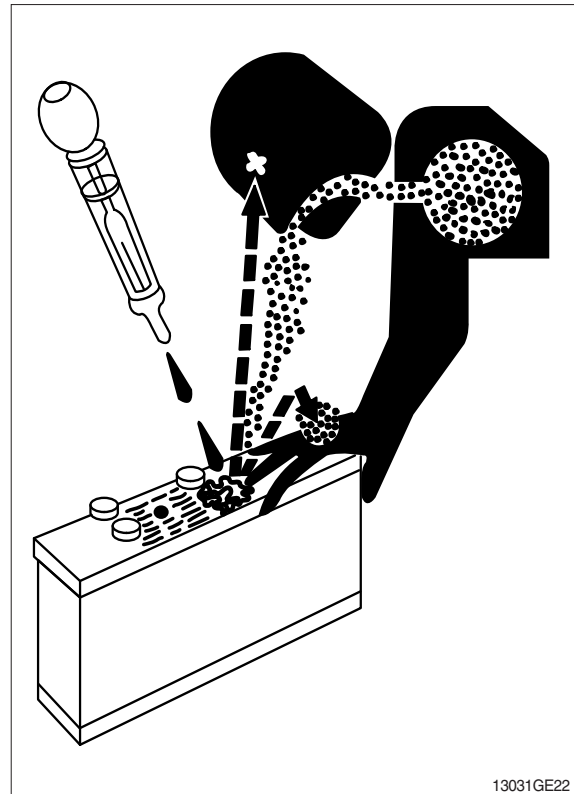
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



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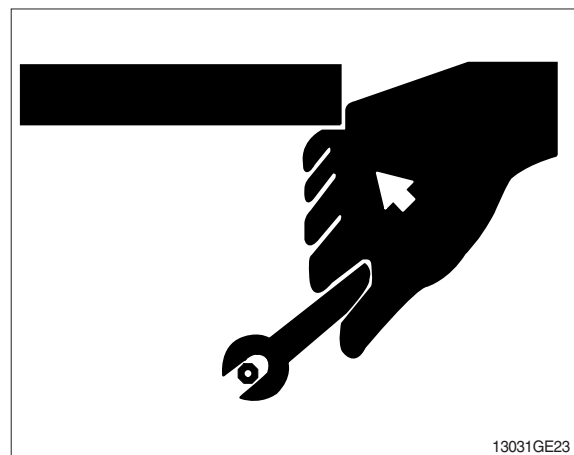
## USE TOOLS PROPERLY

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.)



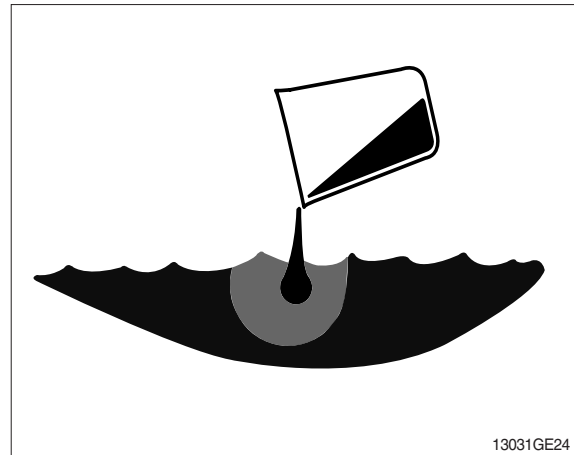
13031GE23

## 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.

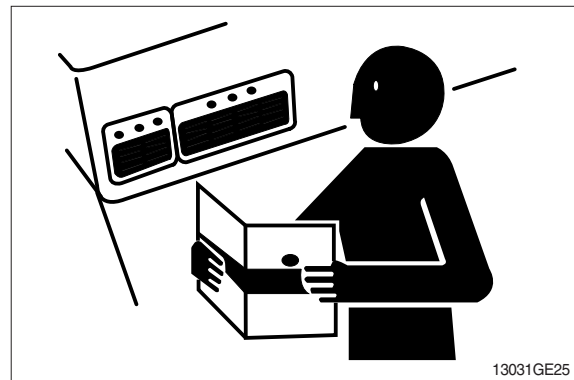
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.



## REPLACE SAFETY LABELS

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

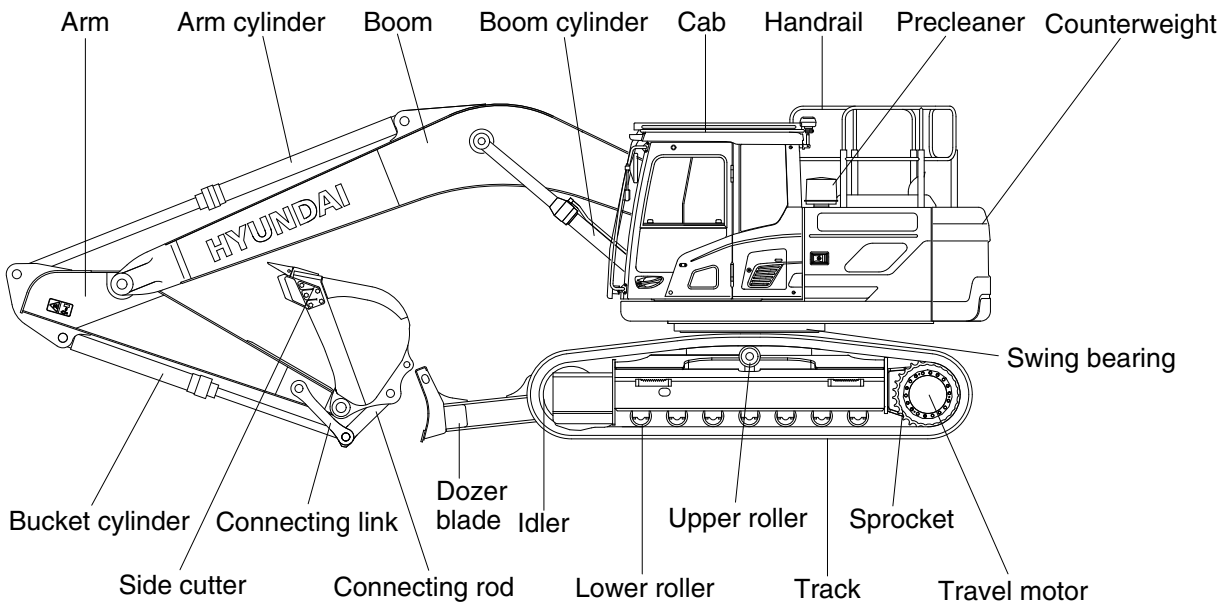
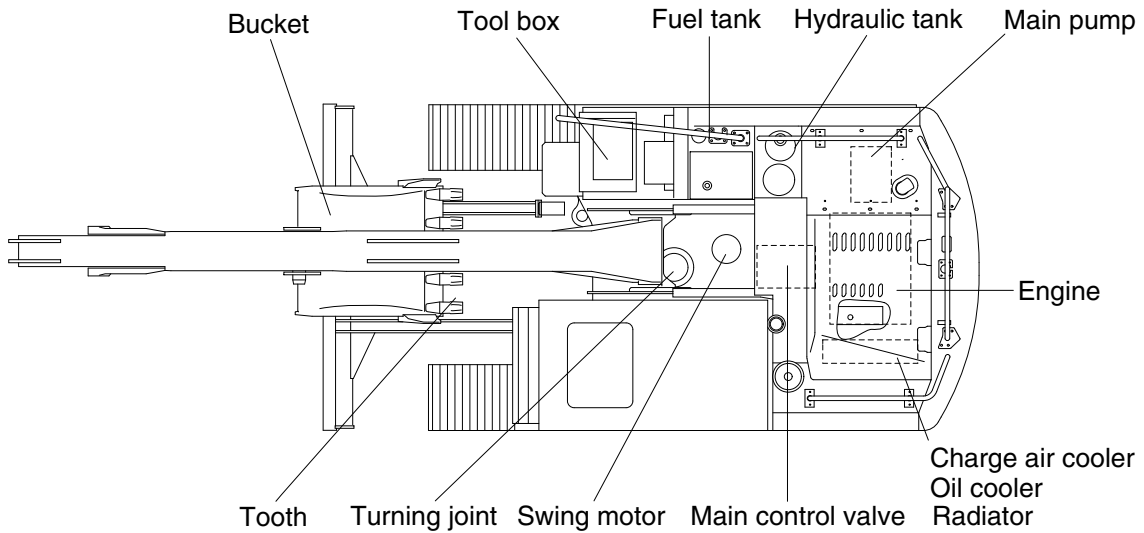


## LIVE WITH SAFETY

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

# GROUP 2 SPECIFICATIONS

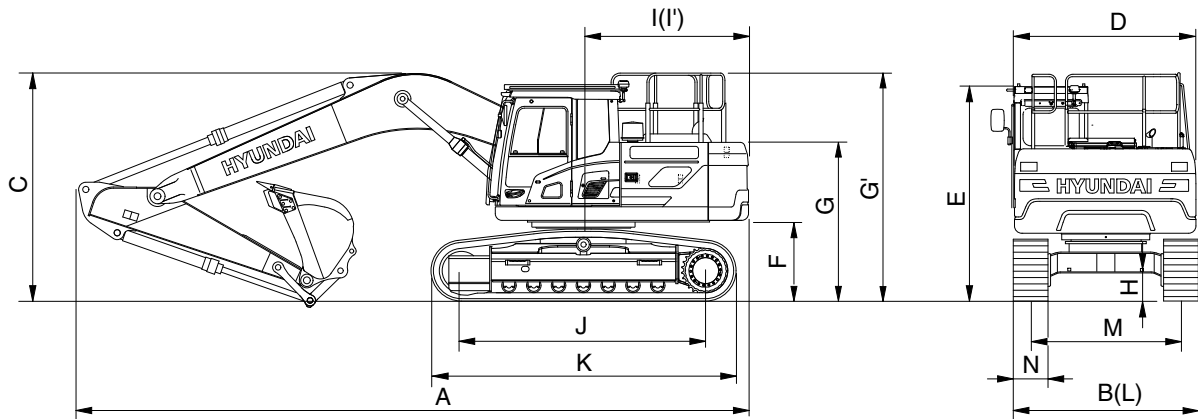
## 1. MAJOR COMPONENT



140SA2SP01

## 2. SPECIFICATIONS

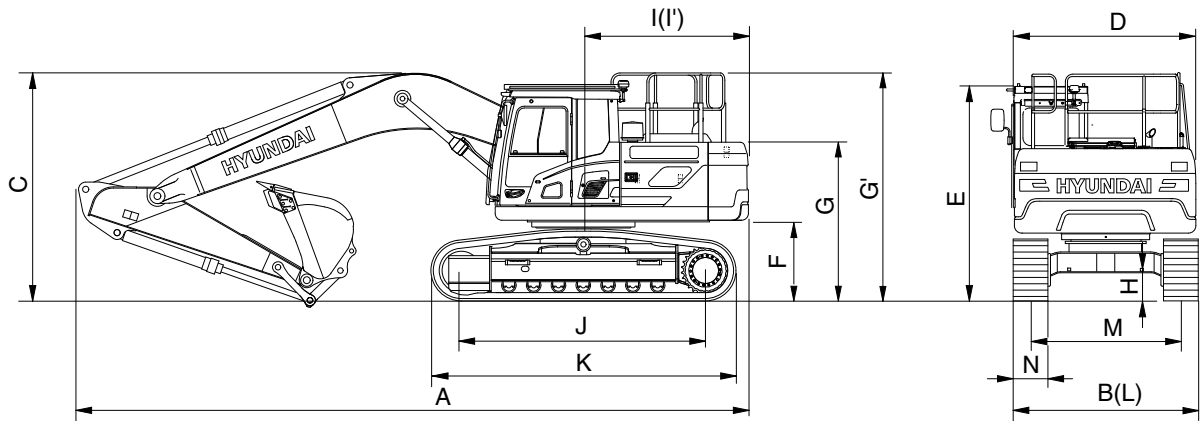
### 1) HX140 LT3, MONO BOOM



140SA2SP02

Description	Unit		Specification	
	m (ft-in)	Boom	4.6 (15' 1")	
		Arm	2.50 (8' 2")	3.00 (9' 10")
	mm (in)	Shoe	600 (24)	
Operating weight	m <sup>3</sup> (yd <sup>3</sup> )		14325 (31580)	14355 (31650)
Bucket capacity (SAE heaped), standard	kg (lb)		0.52 (0.68)	0.52 (0.68)
Overall length	A	mm (ft-in)	7830 (25' 8")	7780 (25' 6")
Overall width	B		2590 (8' 6")	2590 (8' 6")
Overall width with add footboard	B'		2590 (8' 6")	2590 (8' 6")
Overall height of boom	C		2730 (8' 11")	3060 (10' 0")
Overall width of upper structure	D		2475 (8' 1")	2475 (8' 1")
Overall height of cab	E		2860 (9' 5")	2860 (9' 5")
Ground clearance of counterweight	F		930 (3' 1")	930 (3' 1")
Overall height of engine hood	G		2220 (7' 3")	2220 (7' 3")
Overall height of handrail	G'		2950 (9' 8")	2950 (9' 8")
Minimum ground clearance	H		430 (1' 5")	430 600
Rear-end distance	I		2335 (7' 8")	2335 (7' 8")
Rear-end swing radius	I'		2345 (7' 8")	2345 (7' 8")
Distance between tumblers	J		3000 (9' 10")	3000 (9' 10")
Undercarriage length (without grouser)	K		3696 (12' 2")	3696 (12' 2")
Undercarriage length (with grouser)	K'		3746 (12' 3")	3746 (12' 3")
Undercarriage width	L		2590 (8' 6")	2590 (8' 6")
Undercarriage width with add footboard	L'		2590 (8' 6")	2590 (8' 6")
Track gauge	M		1990 (6' 6")	1990 (6' 6")
Track shoe width, standard	N		600 (2' 0")	600 (2' 0")
Track shoe link quantity	EA			46
Travel speed (low/high)	km/hr (mph)		3.4/5.8 (2.1/3.6)	3.4/5.8 (2.1/3.6)
Swing speed	rpm		12.4	12.4
Gradeability	Degree (%)		35 (70)	35 (70)
Ground pressure	kgf/cm <sup>2</sup> (psi)		0.37 (5.23)	0.37 (5.25)
Max traction force	kg (lb)		12670 (27930)	12670 (27930)

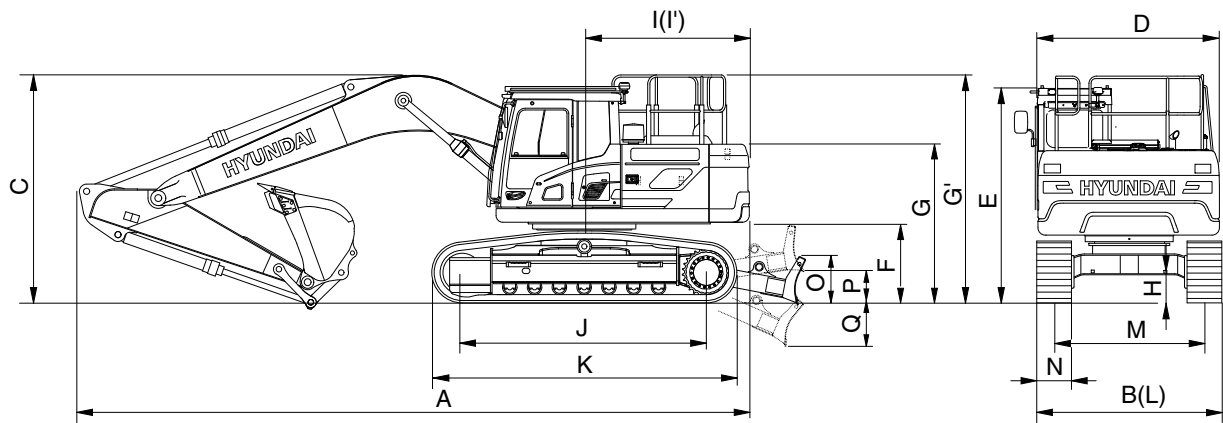
## 2) HX140 HWT3, MONO BOOM



140SA2SP02

Description	Unit		Specification	
	m (ft-in)	Boom	4.6 (15' 1")	
		Arm	2.50 (8' 2")	3.00 (9' 10")
	mm (in)	Shoe	800 (32)	
Operating weight	m <sup>3</sup> (yd <sup>3</sup> )		17320 (38180)	17355 (38260)
Bucket capacity (SAE heaped), standard	kg (lb)		0.52 (0.68)	0.52 (0.68)
Overall length	A	mm (ft-in)	7830 (25' 8")	7780 (25' 6")
Overall width	B		2840 (9' 4")	2840 (9' 4")
Overall width with add footboard	B'		2840 (9' 4")	2840 (9' 4")
Overall height of boom	C		2730 (8' 11")	3060 (10' 0")
Overall width of upper structure	D		2475 (8' 1")	2475 (8' 1")
Overall height of cab	E		3110 (10' 2")	3110 (10' 2")
Ground clearance of counterweight	F		1205 (3' 11")	1205 (3' 11")
Overall height of engine hood	G		2470 (8' 1")	2470 (8' 1")
Overall height of handrail	G'		3200 (10' 6")	3200 (10' 6")
Minimum ground clearance	H		600 (2' 0")	600 (2' 0")
Rear-end distance	I		2335 (7' 8")	2335 (7' 8")
Rear-end swing radius	I'		2345 (7' 8")	2345 (7' 8")
Distance between tumblers	J		3030 (9' 11")	3030 (9' 11")
Undercarriage length (without grouser)	K		3770 (12' 4")	3770 (12' 4")
Undercarriage length (with grouser)	K'		3820 (12' 6")	3820 (12' 6")
Undercarriage width	L		2840 (9' 4")	2840 (9' 4")
Undercarriage width with add footboard	L'		2840 (9' 4")	2840 (9' 4")
Track gauge	M		2040 (6' 8")	2040 (6' 8")
Track shoe width, standard	N		800 (2' 7")	800 (2' 7")
Track shoe link quantity	EA		47	47
Travel speed (low/high)	km/hr (mph)		3.4/5.8 (2.1/3.6)	3.4/5.8 (2.1/3.6)
Swing speed	rpm		12.4	12.4
Gradeability	Degree (%)		35 (70)	35 (70)
Ground pressure	kgf/cm <sup>2</sup> (psi)		0.33 (4.68)	0.33 (4.69)
Max traction force	kg (lb)		12670 (27930)	12670 (27930)

### 3) HX140 LDT3, MONO BOOM

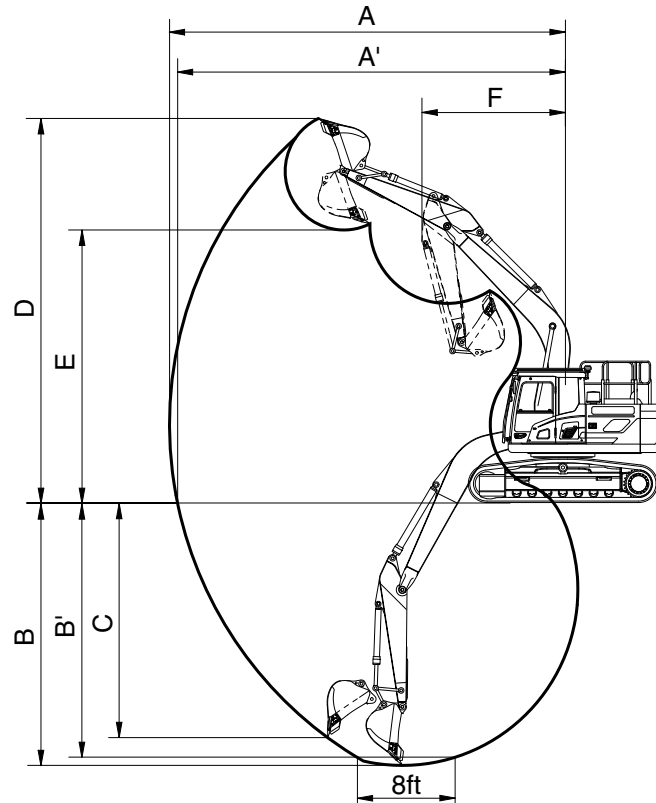


140SA2SP03

Description	Unit		Specification	
	m (ft-in)	Boom	4.6 (15' 1")	
		Arm	2.50 (8' 2")	3.00 (9' 10")
	mm (in)	Shoe	600 (24)	
Operating weight	m <sup>3</sup> (yd <sup>3</sup> )	15230 (33580)	15260 (33640)	
Bucket capacity (SAE heaped), standard	kg (lb)	0.52 (0.68)	0.52 (0.68)	
Overall length	A	7830 (25' 8")	7780 (25' 6")	
Overall width	B	2590 (8' 6")	2590 (8' 6")	
Overall width with add footboard	B'	2590 (8' 6")	2590 (8' 6")	
Overall height of boom	C	2730 (8' 11")	3060 (10' 0")	
Overall width of upper structure	D	2475 (8' 1")	2475 (8' 1")	
Overall height of cab	E	2860 (9' 5")	2860 (9' 5")	
Ground clearance of counterweight	F	930 (3' 1")	930 (3' 1")	
Overall height of engine hood	G	2220 (7' 3")	2220 (7' 3")	
Overall height of handrail	G'	2950 (9' 8")	2950 (9' 8")	
Minimum ground clearance	H	280 (0' 11")	280 (0' 11")	
Rear-end distance	I	2335 (7' 8")	2335 (7' 8")	
Rear-end swing radius	I'	2345 (7' 8")	2345 (7' 8")	
Distance between tumblers	J	3000 (9' 10")	3000 (9' 10")	
Undercarriage length (without grouser)	K	3696 (12' 2")	3696 (12' 2")	
Undercarriage length (with grouser)	K'	3746 (12' 3")	3746 (12' 3")	
Undercarriage width	L	2590 (8' 6")	2590 (8' 6")	
Undercarriage width with add footboard	L'	2590 (8' 6")	2590 (8' 6")	
Track gauge	M	1990 (6' 6")	1990 (6' 6")	
Track shoe width, standard	N	600 (2' 0")	600 (2' 0")	
Height of blade	O	575 (1' 11")	575 (1' 11")	
Ground clearance of blade up	P	580 (1' 11")	580 (1' 11")	
Depth of blade down	Q	475 (1' 7")	475 (1' 7")	
Track shoe link quantity	EA	46	46	
Travel speed (low/high)	km/hr (mph)	3.4/5.8 (2.1/3.6)	3.4/5.8 (2.1/3.6)	
Swing speed	rpm	12.4	12.4	
Gradeability	Degree (%)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.42 (5.93)	0.39 (5.58)	
Max traction force	kg (lb)	12670 (27930)	12670 (27930)	

### 3. WORKING RANGE AND DIGGING FORCE

#### 1) HX140 LT3/HWT3/LDT3



140SA2SP10

Description	m (ft-in)	Boom	4.6 (15' 1")	
		Arm	2.50 (8' 2")	3.00 (9' 10")
Max digging reach	mm (ft-in)	A	8330 (27' 4")	8790 (28' 10")
Max digging reach on ground		A'	8190 (26' 10")	8660 (28' 5")
Max digging depth		B	5530 (18' 2")	6030 (19' 9")
Max digging depth (8 ft level)		B'	5330 (17' 6")	5850 (19' 2")
Max vertical wall digging depth		C	5080 (16' 8")	5580 (18' 4")
Max digging height		D	8550 (28' 1")	8830 (29' 0")
Max dumping height		E	6105 (20' 0")	6380 (20' 11")
Min swing radius		F	2655 (8' 9")	2690 (8' 10")
Bucket digging force	kN	SAE	87.9 [95.4]	87.8 [95.3]
	kgf		8960 [9730]	8956 [9720]
	lbf		19754 [21451]	19745 [21429]
	kN	ISO	102.9 [111.7]	102.9 [111.7]
	kgf		10494 [11390]	10489 [11390]
	lbf		23134 [25111]	23123 [25111]
Arm digging force	kN	SAE	62.7 [68.1]	56 [60.8]
	kgf		6396 [6940]	5711 [6200]
	lbf		14100 [15300]	12591 [13669]
	kN	ISO	65.4 [71]	58.1 [63.1]
	kgf		6666 [7240]	5925 [6430]
	lbf		14696 [15961]	13062 [14176]

[ ] : Power boost

#### 4. WEIGHT

Item	Qty	HX140 LT3		HX140 LDT3		HX140 HWT3	
	EA	kg	lb	kg	lb	kg	lb
Upperstructure assembly							
· Main frame weld assembly	1	1140	2513	1140	2513	1140	2513
· Engine assembly	1	371	818	371	818	371	818
· Main pump assembly	1	92	203	92	203	92	203
· Main control valve assembly	1	140	309	140	309	140	309
· Swing motor assembly	1	130	287	130	287	130	287
· Hydraulic oil tank WA	1	133	294	133	294	133	294
· Fuel tank WA	1	150	331	150	331	150	331
· Counterweight	1	1900	4189	1900	4189	1900	4189
· Cab assembly	1	495	1091	495	1091	495	1091
Lower chassis assembly							
· Track frame weld assembly	1	1497	3300	1667	3675	2199	4848
· Dozer blade assembly	1	-	-	503	1109	-	-
· Swing bearing	1	214	472	214	472	214	472
· Travel motor assembly	2	278	613	278	613	278	613
· Turning joint	1	56	123	63	139	56	123
· Sprocket	2	40	87	40	87	49	109
· Track recoil spring	2	93	204	93	204	132	291
· Idler	2	104	229	104	229	151	332
· Upper roller	4	19	42	19	42	40	88
· Lower roller	18	35	77	35	77	40	88
· Track Guard	2	36	79	36	79	-	-
· Track Guard	4	-	-	-	-	592	1305
· Track-chain assembly (500 mm, 46 link)	2	922	2033	922	2033	-	-
· Track-chain assembly (600 mm, 46 link)	2	1027	2263	1027	2263	-	-
· Track-chain assembly (700 mm, 46 link)	2	1131	2494	1131	2494	-	-
· Track-chain assembly (700 mm, 47 link)	2	-	-	-	-	1250	2755
· Track-chain assembly (800 mm, 47 link)	2	-	-	-	-	1367	3013
Front attachment assembly							
· 4.6 m mono boom assembly	1	812	1790	812	1790	812	1790
· 2.50 m arm assembly	1	445	981	445	981	445	981
· 3.00 m arm assembly	1	482	1063	482	1063	482	1063
· 0.58 m <sup>3</sup> bucket assembly	1	484	1067	484	1067	484	1067
· 0.52 m <sup>3</sup> bucket assembly	1	461	1016	461	1016	461	1016
· 0.65 m <sup>3</sup> bucket assembly	1	513	1131	513	1131	513	1131
· 0.71 m <sup>3</sup> bucket assembly	1	536	1182	536	1182	536	1182
· Boom cylinder assembly	2	119	262	119	262	119	262
· Arm cylinder assembly	1	145	320	145	320	145	320
· Bucket cylinder assembly	1	104	229	104	229	104	229
· Dozer cylinder assembly	2	55	120	55	120	55	120
· Bucket control linkage total	1	114	251	114	251	114	251

※ This information is different with operating and transportation weight because it is not including harness, pipe, oil, fuel so on.

※ Refer to Transportation for actual weight information and Specifications for operating weight.



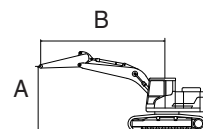
## 5. LIFTING CAPACITIES












### 1) HX140 LT3

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2500	1900	600	-	-	-	-	-

·  : 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
												
6.0 m (19.7 ft)	kg lb					*3400 *7500	*3400 *7500			*2420 *5340	*2420 *5340	5.42 (17.8)
4.5 m (14.8 ft)	kg lb					*3650 *8050	*3650 *8050	*3410 *7520	2450 5400	*2220 *4890	2190 4830	6.39 (21.0)
3.0 m (9.8 ft)	kg lb			*6150 *13560	*6150 *13560	*4540 *10010	3710 8180	3630 8000	2380 5250	*2200 *4850	1890 4170	6.91 (22.7)
1.5 m (4.9 ft)	kg lb			*7480 *16490	6240 13760	5480 12080	3460 7630	3510 7740	2280 5030	*2310 *5090	1770 3900	7.07 (23.2)
0.0 m (0.0 ft)	kg lb			*6420 *14150	5930 13070	5270 11620	3270 7210	3420 7540	2190 4830	*2570 *5670	1800 3970	6.91 (22.7)
-1.5 m (-4.9 ft)	kg lb	*4660 *10270	*4660 *10270	*9760 *21520	5890 12990	5190 11440	3200 7050	3390 7470	2160 4760	3110 6860	2000 4410	6.38 (20.9)
-3.0 m (-9.8 ft)	kg lb	*8690 *19160	*8690 *19160	*8890 *19600	5990 13210	5240 11550	3250 7170			4010 8840	2550 5620	5.40 (17.7)

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.

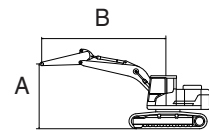
Consult with your local Hyundai dealer regarding the lifting capacities for specific work tools and attachments.











▲ 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	
HX140 LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2500	2300	600	-	-	-	-	-

·  : 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					*3400	*3400			*2420	*2420	5.42
	lb					*7500	*7500			*5340	*5340	(17.8)
4.5 m (14.8 ft)	kg					*3650	*3650	*3410	2640	*2220	*2220	6.39
	lb					*8050	*8050	*7520	5820	*4890	*4890	(21.0)
3.0 m (9.8 ft)	kg			*6150	*6150	*4540	3990	3870	2570	*2200	2050	6.91
	lb			*13560	*13560	*10010	8800	8530	5670	*4850	4520	(22.7)
1.5 m (4.9 ft)	kg			*7480	6730	*5660	3730	3750	2470	*2310	1930	7.07
	lb			*16490	14840	*12480	8220	8270	5450	*5090	4250	(23.2)
0.0 m (0.0 ft)	kg			*6420	6410	5630	3550	3660	2380	*2570	1960	6.91
	lb			*14150	14130	12410	7830	8070	5250	*5670	4320	(22.7)
-1.5 m (-4.9 ft)	kg	*4660	*4660	*9760	6370	5550	3480	3620	2350	*3110	2170	6.38
	lb	*10270	*10270	*21520	14040	12240	7670	7980	5180	*6860	4780	(20.9)
-3.0 m (-9.8 ft)	kg	*8690	*8690	*8890	6480	5600	3520			4280	2770	5.40
	lb	*19160	*19160	*19600	14290	12350	7760			9440	6110	(17.7)

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).
- \*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.

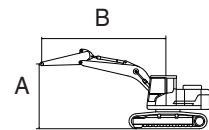
Consult with your local Hyundai dealer regarding the lifting capacities for specific work tools and attachments.













▲ **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	
HX140 LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3000	1900	600	-	-	-	-	-

·  : 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											*2440	*2440	4.46
	lb											*5380	*5380	(14.6)
6.0 m (19.7 ft)	kg						*2050	*2050				*2020	*2020	6.01
	lb						*4520	*4520				*4450	*4450	(19.7)
4.5 m (14.8 ft)	kg						*3260	2500				*1890	*1890	6.90
	lb						*7190	5510				*4170	*4170	(22.6)
3.0 m (9.8 ft)	kg					*4050	3790	*3630	2420			*1880	1710	7.38
	lb					*8930	8360	*8000	5340			*4140	3770	(24.2)
1.5 m (4.9 ft)	kg			*8190	6450	*5250	3520	3540	2300	*2120	1620	*1960	1610	7.53
	lb			*18060	14220	*11570	7760	7800	5070	*4670	3570	*4320	3550	(24.7)
0.0 m (0.0 ft)	kg			*7160	5980	5300	3300	3420	2190			*2170	1620	7.38
	lb			*15790	13180	11680	7280	7540	4830			*4780	3570	(24.2)
-1.5 m (-4.9 ft)	kg	*4200	*4200	*9070	5860	5180	3190	3360	2140			*2570	1770	6.89
	lb	*9260	*9260	*20000	12920	11420	7030	7410	4720			*5670	3900	(22.6)
-3.0 m (-9.8 ft)	kg	*7300	*7300	*9470	5910	5180	3190					3400	2170	5.99
	lb	*16090	*16090	*20880	13030	11420	7030					7500	4780	(19.7)
-4.5 m (-14.8 ft)	kg			*7160	6130							*4500	3430	4.43
	lb			*15790	13510							*9920	7560	(14.5)

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.

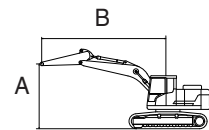
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






▲ 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	
HX140 LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3000	2300	600	-	-	-	-	-

·  : 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													*2440 *5380	*2440 *5380	4.46 (14.6)
6.0 m (19.7 ft)	kg lb							*2050 *4520	*2050 *4520					*2020 *4450	*2020 *4450	6.01 (19.7)
4.5 m (14.8 ft)	kg lb							*3260 *7190	2690 5930					*1890 *4170	*1890 *4170	6.90 (22.6)
3.0 m (9.8 ft)	kg lb					*4050 *8930	*4050 *8930	*3630 *8000	2610 5750					*1880 *4140	1860 4100	7.38 (24.2)
1.5 m (4.9 ft)	kg lb			*8190 *18060	6930 15280	*5250 *11570	3790 8360	3780 8330	2490 5490	*2120 *4670	1770 3900	*1960 *4320	1750 3860	7.53 (24.7)		
0.0 m (0.0 ft)	kg lb			*7160 *15790	6470 14260	5660 12480	3570 7870	3660 8070	2380 5250			*2170 *4780	1770 3900	7.38 (24.2)		
-1.5 m (-4.9 ft)	kg lb	*4200 *9260	*4200 *9260	*9070 *20000	6340 13980	5540 12210	3460 7630	3600 7940	2330 5140			*2570 *5670	1930 4250	6.89 (22.6)		
-3.0 m (-9.8 ft)	kg lb	*7300 *16090	*7300 *16090	*9470 *20880	6400 14110	5540 12210	3470 7650					*3460 *7630	2360 5200	5.99 (19.7)		
-4.5 m (-14.8 ft)	kg lb			*7160 *15790	6620 14590							*4500 *9920	3710 8180	4.43 (14.5)		

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 Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

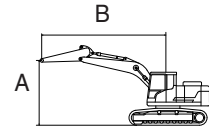
▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.












## 2) HX140 LDT3

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX140 LDT3	MONO BOOM	4600	2500	2300	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
												
6.0 m (19.7 ft)	kg					*3400	*3400			*2410	*2410	5.44
	lb					*7500	*7500			*5310	*5310	(17.8)
4.5 m (14.8 ft)	kg					*3660	*3660	*3430	2960	*2230	*2230	6.41
	lb					*8070	*8070	*7560	6530	*4920	*4920	(21.0)
3.0 m (9.8 ft)	kg			*6200	*6200	*4560	4460	*3970	2890	*2210	*2210	6.92
	lb			*13670	*13670	*10050	9830	*8750	6370	*4870	*4870	(22.7)
1.5 m (4.9 ft)	kg			*7380	*7380	*5680	4200	*4440	2780	*2320	2180	7.07
	lb			*16270	*16270	*12520	9260	*9790	6130	*5110	4810	(23.2)
0.0 m (0.0 ft)	kg			*6450	*6450	*6470	4010	*4820	2690	*2580	2220	6.90
	lb			*14220	*14220	*14260	8840	*10630	5930	*5690	4890	(22.6)
-1.5 m (-4.9 ft)	kg	*4710	*4710	*9830	7320	*6640	3940	*4820	2660	*3130	2460	6.37
	lb	*10380	*10380	*21670	16140	*14640	8690	*10630	5860	*6900	5420	(20.9)
-3.0 m (-9.8 ft)	kg	*8770	*8770	*8870	7430	*5960	3990			*4460	3140	5.38
	lb	*19330	*19330	*19550	16380	*13140	8800			*9830	6920	(17.6)

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).
- \*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.

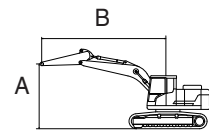
Consult with your local Hyundai dealer regarding the lifting capacities for specific work tools and attachments.











▲ 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	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2500	2300	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 lb					*3400 *7500	*3400 *7500			*2410 *5310	*2410 *5310	5.44 (17.8)
4.5 m (14.8 ft)	kg lb					*3660 *8070	*3660 *8070	*3430 *7560	2960 6530	*2230 *4920	*2230 *4920	6.41 (21.0)
3.0 m (9.8 ft)	kg lb			*6200 *13670	*6200 *13670	*4560 *10050	4460 9830	3840 8470	2890 6370	*2210 *4870	*2210 *4870	6.92 (22.7)
1.5 m (4.9 ft)	kg lb			*7380 *16270	*7380 *16270	*5680 *12520	4200 9260	3730 8220	2780 6130	*2320 *5110	2180 4810	7.07 (23.2)
0.0 m (0.0 ft)	kg lb			*6450 *14220	*6450 *14220	5590 12320	4010 8840	3630 8000	2690 5930	*2580 *5690	2220 4890	6.90 (22.6)
-1.5 m (-4.9 ft)	kg lb	*4710 *10380	*4710 *10380	*9830 *21670	7320 16140	5510 12150	3940 8690	3600 7940	2660 5860	*3130 *6900	2460 5420	6.37 (20.9)
-3.0 m (-9.8 ft)	kg lb	*8770 *19330	*8770 *19330	*8870 *19550	7430 16380	5560 12260	3990 8800			4280 9440	3140 6920	5.38 (17.6)

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).
- \*Indicates load limited by hydraulic capacity.

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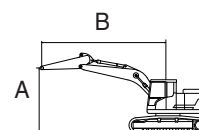
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2500	1900	600	-	Down	-	-	-

·  : 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
												
6.0 m (19.7 ft)	kg lb					*3400 *7500	*3400 *7500			*2410 *5310	*2410 *5310	5.44 (17.8)
4.5 m (14.8 ft)	kg lb					*3660 *8070	*3660 *8070	*3430 *7560	2790 6150	*2220 *4890	*2220 *4890	6.41 (21.0)
3.0 m (9.8 ft)	kg lb			*6200 *13670	*6200 *13670	*4560 *10050	4220 9300	*3960 *8730	2720 6000	*2200 *4850	2160 4760	6.92 (22.7)
1.5 m (4.9 ft)	kg lb			*7380 *16270	7260 16010	*5680 *12520	3960 8730	*4440 *9790	2620 5780	*2310 *5090	2040 4500	7.07 (23.2)
0.0 m (0.0 ft)	kg lb			*6450 *14220	*6450 *14220	*6470 *14260	3780 8330	*4810 *10600	2530 5580	*2580 *5690	2080 4590	6.90 (22.6)
-1.5 m (-4.9 ft)	kg lb	*4710 *10380	*4710 *10380	*9830 *21670	6900 15210	*6640 *14640	3710 8180	*4810 *10600	2500 5510	*3120 *6880	2310 5090	6.37 (20.9)
-3.0 m (-9.8 ft)	kg lb	*8770 *19330	*8770 *19330	*8860 *19530	7010 15450	*5960 *13140	3760 8290			*4460 *9830	2960 6530	5.38 (17.6)

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.
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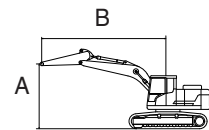
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2500	1900	600	-	Up	-	-	-

·  : 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					*3400	*3400			*2410	*2410	5.44
	lb					*7500	*7500			*5310	*5310	(17.8)
4.5 m (14.8 ft)	kg					*3660	*3660	*3430	2790	*2220	*2220	6.41
	lb					*8070	*8070	*7560	6150	*4890	*4890	(21.0)
3.0 m (9.8 ft)	kg		*6200	*6200	*4560	4220	3650	2720	*2200	2160	6.92	
	lb		*13670	*13670	*10050	9300	8050	6000	*4850	4760	(22.7)	
1.5 m (4.9 ft)	kg		*7380	7260	5510	3960	3540	2620	*2310	2040	7.07	
	lb		*16270	16010	12150	8730	7800	5780	*5090	4500	(23.2)	
0.0 m (0.0 ft)	kg		*6450	*6450	5310	3780	3440	2530	*2580	2080	6.90	
	lb		*14220	*14220	11710	8330	7580	5580	*5690	4590	(22.6)	
-1.5 m (-4.9 ft)	kg	*4710	*4710	9830	6900	5230	3710	3410	2500	*3120	2310	6.37
	lb	*10380	*10380	*21670	15210	11530	8180	7520	5510	*6880	5090	(20.9)
-3.0 m (-9.8 ft)	kg	*8770	*8770	*8860	7010	5280	3760			4060	2960	5.38
	lb	*19330	*19330	*19530	15450	11640	8290			8950	6530	(17.6)

Note 1. Lifting capacity are based on ISO 10567.

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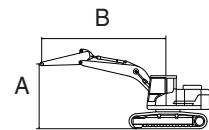
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











Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2500	2300	600	-	Down	-	-	-

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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)		Capacity		Reach
												
6.0 m (19.7 ft)	kg lb					*3400 *7500	*3400 *7500			*2410 *5310	*2410 *5310	5.44 (17.8)
4.5 m (14.8 ft)	kg lb					*3660 *8070	*3660 *8070	*3430 *7560	2990 6590	*2220 *4890	*2220 *4890	6.41 (21.0)
3.0 m (9.8 ft)	kg lb			*6200 *13670	*6200 *13670	*4560 *10050	4510 9940	*3960 *8730	2920 6440	*2200 *4850	*2200 *4850	6.92 (22.7)
1.5 m (4.9 ft)	kg lb			*7380 *16270	*7380 *16270	*5680 *12520	4250 9370	*4440 *9790	2810 6190	*2310 *5090	2210 4870	7.07 (23.2)
0.0 m (0.0 ft)	kg lb			*6450 *14220	*6450 *14220	*6470 *14260	4060 8950	*4810 *10600	2730 6020	*2580 *5690	2250 4960	6.90 (22.6)
-1.5 m (-4.9 ft)	kg lb	*4710 *10380	*4710 *10380	*9830 *21670	7410 16340	*6640 *14640	4000 8820	*4810 *10600	2700 5950	*3120 *6880	2490 5490	6.37 (20.9)
-3.0 m (-9.8 ft)	kg lb	*8770 *19330	*8770 *19330	*8860 *19530	7520 16580	*5960 *13140	4040 8910			*4460 *9830	3180 7010	5.38 (17.6)

Note 1. Lifting capacity are based on ISO 10567.

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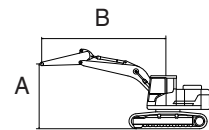
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2500	2300	600	-	Up	-	-	-

·  : 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					*3400	*3400			*2410	*2410	5.44
	lb					*7500	*7500			*5310	*5310	(17.8)
4.5 m (14.8 ft)	kg					*3660	*3660	*3430	2990	*2220	*2220	6.41
	lb					*8070	*8070	*7560	6590	*4890	*4890	(21.0)
3.0 m (9.8 ft)	kg		*6200	*6200	*4560	4510	3890	2920	*2200	*2200	6.92	
	lb		*13670	*13670	*10050	9940	8580	6440	*4850	*4850	(22.7)	
1.5 m (4.9 ft)	kg		*7380	*7380	*5680	4250	3780	2810	*2310	2210	7.07	
	lb		*16270	*16270	*12520	9370	8330	6190	*5090	4870	(23.2)	
0.0 m (0.0 ft)	kg		*6450	*6450	5660	4060	3680	2730	*2580	2250	6.90	
	lb		*14220	*14220	12480	8950	8110	6020	*5690	4960	(22.6)	
-1.5 m (-4.9 ft)	kg	*4710	*4710	9830	7410	5590	4000	3650	2700	*3120	2490	6.37
	lb	*10380	*10380	*21670	16340	12320	8820	8050	5950	*6880	5490	(20.9)
-3.0 m (-9.8 ft)	kg	*8770	*8770	*8860	7520	5640	4040			4340	3180	5.38
	lb	*19330	*19330	*19530	16580	12430	8910			9570	7010	(17.6)

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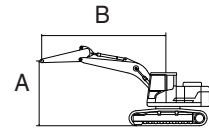
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




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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3000	1900	600	-	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
														kg
7.5 m (24.6 ft)	kg											*2420	*2420	4.49
	lb											*5340	*5340	(14.7)
6.0 m (19.7 ft)	kg						*2100	*2100				*2020	*2020	6.03
	lb						*4630	*4630				*4450	*4450	(19.8)
4.5 m (14.8 ft)	kg						*3260	2840				*1890	*1890	6.91
	lb						*7190	6260				*4170	*4170	(22.7)
3.0 m (9.8 ft)	kg					*4060	*4060	*3640	2760			*1880	*1880	7.39
	lb					*8950	*8950	*8020	6080			*4140	*4140	(24.2)
1.5 m (4.9 ft)	kg		*8230	7470	*5270	4030	*4180	2640	*2120	1870	*1970	1860	7.53	
	lb		*18140	16470	*11620	8880	*9220	5820	*4670	4120	*4340	4100	(24.7)	
0.0 m (0.0 ft)	kg		*7170	6990	*6240	3800	*4660	2530			*2170	1880	7.37	
	lb		*15810	15410	*13760	8380	*10270	5580			*4780	4140	(24.2)	
-1.5 m (-4.9 ft)	kg	*4240	*4240	*9110	6860	*6630	3700	*4850	2470			*2580	2060	6.88
	lb	*9350	*9350	*20080	15120	*14620	8160	*10690	5450			*5690	4540	(22.6)
-3.0 m (-9.8 ft)	kg	*7360	*7360	*9450	6920	*6290	3700					*3480	2520	5.97
	lb	*16230	*16230	*20830	15260	*13870	8160					*7670	5560	(19.6)
-4.5 m (-14.8 ft)	kg			*7110	*7110							*4500	4000	4.40
	lb			*15670	*15670							*9920	8820	(14.4)

Note 1. Lifting capacity are based on ISO 10567.

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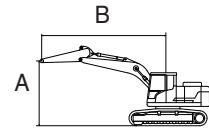
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






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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3000	1900	600	-	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													*2420 *5340	*2420 *5340	4.49 (14.7)
6.0 m (19.7 ft)	kg lb							*2100 *4630	*2100 *4630					*2020 *4450	*2020 *4450	6.03 (19.8)
4.5 m (14.8 ft)	kg lb							*3260 *7190	2840 6260					*1890 *4170	*1890 *4170	6.91 (22.7)
3.0 m (9.8 ft)	kg lb					*4060 *8950	*4060 *8950	*3640 *8020	2760 6080					*1880 *4140	*1880 *4140	7.39 (24.2)
1.5 m (4.9 ft)	kg lb			*8230 *18140	7470 16470	*5270 *11620	4030 8880	3560 7850	2640 5820	*2120 *4670	1870 4120			*1970 *4340	1860 4100	7.53 (24.7)
0.0 m (0.0 ft)	kg lb			*7170 *15810	6990 15410	5340 11770	3800 8380	3450 7610	2530 5580					*2170 *4780	1880 4140	7.37 (24.2)
-1.5 m (-4.9 ft)	kg lb	*4240 *9350	*4240 *9350	*9110 *20080	6860 15120	5220 11510	3700 8160	3390 7470	2470 5450					*2580 *5690	2060 4540	6.88 (22.6)
-3.0 m (-9.8 ft)	kg lb	*7360 *16230	*7360 *16230	*9450 *20830	6920 15260	5220 11510	3700 8160							3440 7580	2520 5560	5.97 (19.6)
-4.5 m (-14.8 ft)	kg lb			*7110 *15670	*7110 *15670									*4500 *9920	4000 8820	4.40 (14.4)

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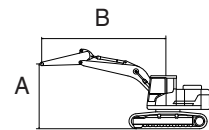
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




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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3000	2300	600	-	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
														kg
7.5 m (24.6 ft)	kg											*2420	*2420	4.49
	lb											*5340	*5340	(14.7)
6.0 m (19.7 ft)	kg							*2100	*2100			*2020	*2020	6.03
	lb							*4630	*4630			*4450	*4450	(19.8)
4.5 m (14.8 ft)	kg							*3260	3040			*1890	*1890	6.91
	lb							*7190	6700			*4170	*4170	(22.7)
3.0 m (9.8 ft)	kg					*4060	*4060	*3640	2950			*1880	*1880	7.39
	lb					*8950	*8950	*8020	6500			*4140	*4140	(24.2)
1.5 m (4.9 ft)	kg			*8230	7980	*5270	4310	*4180	2830	*2120	2020	*1970	*1970	7.53
	lb			*18140	17590	*11620	9500	*9220	6240	*4670	4450	*4340	*4340	(24.7)
0.0 m (0.0 ft)	kg			*7170	*7170	*6240	4090	*4660	2730			*2170	2040	7.37
	lb			*15810	*15810	*13760	9020	*10270	6020			*4780	4500	(24.2)
-1.5 m (-4.9 ft)	kg	*4240	*4240	*9110	7380	*6630	3980	*4850	2670			*2580	2220	6.88
	lb	*9350	*9350	*20080	16270	*14620	8770	*10690	5890			*5690	4890	(22.6)
-3.0 m (-9.8 ft)	kg	*7360	*7360	*9450	7440	*6290	3990					*3480	2720	5.97
	lb	*16230	*16230	*20830	16400	*13870	8800					*7670	6000	(19.6)
-4.5 m (-14.8 ft)	kg			*7110	*7110							*4500	4290	4.40
	lb			*15670	*15670							*9920	9460	(14.4)

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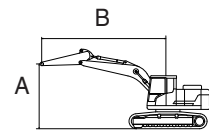
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




▲ 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	
HX140 LDT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3000	2300	600	-	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	lb	m (ft)	
7.5 m (24.6 ft)	kg																
	lb																
6.0 m (19.7 ft)	kg							*2100	*2100								
	lb							*4630	*4630								
4.5 m (14.8 ft)	kg							*3260	3040								
	lb							*7190	6700								
3.0 m (9.8 ft)	kg					*4060	*4060	*3640	2950								
	lb					*8950	*8950	*8020	6500								
1.5 m (4.9 ft)	kg			*8230	7980	*5270	4310	3800	2830	*2120	2020	*1970	*1970				
	lb			*18140	17590	*11620	9500	8380	6240	*4670	4450	*4340	*4340				
0.0 m (0.0 ft)	kg			*7170	*7170	5690	4090	3690	2730			*2170	2040				
	lb			*15810	*15810	12540	9020	8140	6020			*4780	4500				
-1.5 m (-4.9 ft)	kg	*4240	*4240	*9110	7380	5570	3980	3620	2670			*2580	2220				
	lb	*9350	*9350	*20080	16270	12280	8770	7980	5890			*5690	4890				
-3.0 m (-9.8 ft)	kg	*7360	*7360	*9450	7440	5580	3990					*3480	2720				
	lb	*16230	*16230	*20830	16400	12300	8800					*7670	6000				
-4.5 m (-14.8 ft)	kg			*7110	*7110							*4500	4290				
	lb			*15670	*15670							*9920	9460				

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 Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

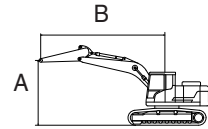
▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.











### 3) HX140 HWT3

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 HWT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	2500	1900	800	-	-	-	-	-

·  : 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									*2850 *6280	*2850 *6280	4.13 (13.5)
6.0 m (19.7 ft)	kg lb					*3380 *7450	*3380 *7450			*2350 *5180	*2350 *5180	5.68 (18.6)
4.5 m (14.8 ft)	kg lb					*3800 *8380	*3800 *8380	*3690 *8140	3070 6770	*2210 *4870	*2210 *4870	6.54 (21.5)
3.0 m (9.8 ft)	kg lb			*6850 *15100	*6850 *15100	*4790 *10560	4570 10080	*4050 *8930	2990 6590	*2220 *4890	*2220 *4890	6.98 (22.9)
1.5 m (4.9 ft)	kg lb			*6410 *14130	*6410 *14130	*5880 *12960	4320 9520	4340 9570	2880 6350	*2350 *5180	2280 5030	7.07 (23.2)
0.0 m (0.0 ft)	kg lb			*6910 *15230	*6910 *15230	6520 14370	4160 9170	4250 9370	2800 6170	*2660 *5860	2360 5200	6.83 (22.4)
-1.5 m (-4.9 ft)	kg lb	*5440 *11990	*5440 *11990	*9930 *21890	7590 16730	6470 14260	4120 9080	4240 9350	2790 6150	*3300 *7280	2670 5890	6.21 (20.4)
-3.0 m (-9.8 ft)	kg lb	*9840 *21690	*9840 *21690	*8440 *18610	7730 17040	*5640 *12430	4190 9240			*4650 *10250	3550 7830	5.10 (16.7)

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 Hyundai 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.

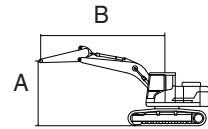
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX140 HWT3	MONO BOOM	4600	2500	2300	800	-	-	-	-	-



: 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									*2850	*2850	4.13
	lb									*6280	*6280	(13.5)
6.0 m (19.7 ft)	kg					*3380	*3380			*2350	*2350	5.68
	lb					*7450	*7450			*5180	*5180	(18.6)
4.5 m (14.8 ft)	kg					*3800	*3800	*3690	3270	*2210	*2210	6.54
	lb					*8380	*8380	*8140	7210	*4870	*4870	(21.5)
3.0 m (9.8 ft)	kg			*6850	*6850	*4790	*4790	*4050	3180	*2220	*2220	6.98
	lb			*15100	*15100	*10560	*10560	*8930	7010	*4890	*4890	(22.9)
1.5 m (4.9 ft)	kg			*6410	*6410	*5880	4600	*4530	3080	*2350	*2350	7.07
	lb			*14130	*14130	*12960	10140	*9990	6790	*5180	*5180	(23.2)
0.0 m (0.0 ft)	kg			*6910	*6910	*6560	4440	4490	3000	*2660	2520	6.83
	lb			*15230	*15230	*14460	9790	9900	6610	*5860	5560	(22.4)
-1.5 m (-4.9 ft)	kg	*5440	*5440	*9930	8100	*6590	4400	4480	2990	*3300	2860	6.21
	lb	*11990	*11990	*21890	17860	*14530	9700	9880	6590	*7280	6310	(20.4)
-3.0 m (-9.8 ft)	kg	*9840	*9840	*8440	8240	*5640	4470			*4650	3790	5.10
	lb	*21690	*21690	*18610	18170	*12430	9850			*10250	8360	(16.7)

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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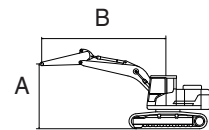
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










Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX140 HWT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3000	1900	800	-	-	-	-	-

·  : 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													*2300 *5070	*2300 *5070	4.88 (16.0)
6.0 m (19.7 ft)	kg lb							*2550 *5620	*2550 *5620					*1980 *4370	*1980 *4370	6.25 (20.5)
4.5 m (14.8 ft)	kg lb							*3320 *7320	3120 6880					*1880 *4140	*1880 *4140	7.04 (23.1)
3.0 m (9.8 ft)	kg lb			*5730 *12630	*5730 *12630	*4300 *9480	*4300 *9480	*3740 *8250	3020 6660					*1890 *4170	*1890 *4170	7.44 (24.4)
1.5 m (4.9 ft)	kg lb			*8740 *19270	8010 17660	*5500 *12130	4380 9660	*4290 *9460	2900 6390	*2130 *4700	2090 4610			*2000 *4410	*2000 *4410	7.53 (24.7)
0.0 m (0.0 ft)	kg lb			*7310 *16120	*7310 *16120	*6370 *14040	4180 9220	4250 9370	2800 6170					*2240 *4940	2130 4700	7.30 (24.0)
-1.5 m (-4.9 ft)	kg lb	*4800 *10580	*4800 *10580	*9850 *21720	7550 16640	6450 14220	4090 9020	4200 9260	2760 6080					*2710 *5970	2370 5220	6.73 (22.1)
-3.0 m (-9.8 ft)	kg lb	*8160 *17990	*8160 *17990	*9140 *20150	7640 16840	*6090 *13430	4120 9080							*3810 *8400	2990 6590	5.72 (18.8)

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).
- \*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.

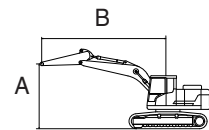
Consult with your local Hyundai dealer regarding the lifting capacities for specific work tools and attachments.













▲ 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	
HX140 HWT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4600	3000	2300	800	-	-	-	-	-

·  : 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											*2300	*2300	4.88
	lb											*5070	*5070	(16.0)
6.0 m (19.7 ft)	kg							*2550	*2550			*1980	*1980	6.25
	lb							*5620	*5620			*4370	*4370	(20.5)
4.5 m (14.8 ft)	kg							*3320	3310			*1880	*1880	7.04
	lb							*7320	7300			*4140	*4140	(23.1)
3.0 m (9.8 ft)	kg			*5730	*5730	*4300	*4300	*3740	3210			*1890	*1890	7.44
	lb			*12630	*12630	*9480	*9480	*8250	7080			*4170	*4170	(24.4)
1.5 m (4.9 ft)	kg			*8740	8510	*5500	4660	*4290	3090	*2130	*2130	*2000	*2000	7.53
	lb			*19270	18760	*12130	10270	*9460	6810	*4700	*4700	*4410	*4410	(24.7)
0.0 m (0.0 ft)	kg			*7310	*7310	*6370	4460	4490	3000			*2240	*2240	7.30
	lb			*16120	*16120	*14040	9830	9900	6610			*4940	*4940	(24.0)
-1.5 m (-4.9 ft)	kg	*4800	*4800	*9850	8050	*6630	4370	4440	2950			*2710	2540	6.73
	lb	*10580	*10580	*21720	17750	*14620	9630	9790	6500			*5970	5600	(22.1)
-3.0 m (-9.8 ft)	kg	*8160	*8160	*9140	8140	*6090	4400					*3810	3190	5.72
	lb	*17990	*17990	*20150	17950	*13430	9700					*8400	7030	(18.8)

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 Hyundai 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



General bucket

Type	Counterweight					1900 kg		2300 kg		
	Capacity		Width		Weight	Tooth	MONO			
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			4.6 m (15' 1") Boom			
	m <sup>3</sup> (yd <sup>3</sup> )	m <sup>3</sup> (yd <sup>3</sup> )	mm (in)	mm (in)	kg (lb)	EA	2.5 m (8' 2") Arm	3.0 m (9' 10") Arm	2.5 m (8' 2") Arm	3.0 m (9' 10") Arm
General bucket	0.58 (0.76)	0.50 (0.65)	1000 (39.4")	1100 (43.3")	484 (1070)	5	●	◐	●	●
	0.52 (0.68)	0.35 (0.46)	915 (36.0")	1015 (40.0")	461 (1020)	5	●	●	●	●
	0.65 (0.85)	0.40 (0.52)	1105 (43.5")	1205 (47.4")	513 (1130)	5	◐	■	●	◐
	0.71 (0.93)	0.60 (0.78)	1190 (46.9")	1290 (50.8")	536 (1180)	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 with your local Hyundai dealer for information on selecting the correct boom–arm–bucket combination.

## 7. UNDERCARRIAGE

### 1) TYPES OF SHOES

Model	Description	Unit		Triple grouser									
		width	mm	(in)	500	(20")	600	(24")	700	(28")	700	(28")	800
HX140 LT3	Operating weight	kg	(lb)	14110	31110	14325	31580	14535	32040	-	-	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.44	(6.3)	0.37	(5.3)	0.32	(4.6)	-	-	-	-
	Overall width	mm		2490	(8' 2")	2590	(8' 6")	2690	(8' 10")	-	-	-	-
	Link quantity	EA		46		46		46		-		-	
HX140 LDT3	Operating weight	kg	(lb)	15015	33100	15230	33580	15440	34040	-	-	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.46	(6.5)	0.39	(5.6)	0.34	(4.8)	-	-	-	-
	Overall width	mm		2490	(8' 2")	2590	(8' 6")	2690	(8' 10")	-	-	-	-
	Link quantity	EA		46		46		46		-		-	
HX140 HWT3	Operating weight	kg	(lb)	-	-	-	-	-	-	17085	37670	17320	38180
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	-	-	-	-	-	-	0.37	(5.3)	0.33	(4.7)
	Overall width	mm		-	-	-	-	-	-	2740	(9' 0")	2840	(9' 4")
	Link quantity	EA		-		-		-		47		47	

## 2) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

### Method of selecting shoes

Confirm the category from the list of applications in **table 2**, then use **table 1** to select the shoe. Wide shoes (categories B and C) have limitations on applications. Before using wide shoes, check the precautions, then investigate and study the operating conditions to confirm if these shoes are suitable.

Select the narrowest shoe possible to meet the required flotation and ground pressure. Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

**Table 1**

Model	Track shoe	Specification	Category
HX140 LT3 HX140 LDT3	500 mm triple grouser	Option	A
	600 mm triple grouser	Standard	B
	700 mm triple grouser	Option	C
HX140 HWT3	700 mm triple grouser	Option	C
	800 mm triple grouser	Option	C

**Table 2**

Category	Applications	Precautions
A	Rocky ground, river beds, normal soil	<ul style="list-style-type: none"> <li>· Travel at low speed on rough ground with large obstacles such as boulders or fallen trees or a wide range of general civil engineering work</li> </ul>
B	Normal soil, soft ground	<ul style="list-style-type: none"> <li>· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees</li> <li>· Travel at high speed only on flat ground</li> <li>· Travel slowly at low speed if it is impossible to avoid going over obstacles</li> </ul>
C	Extremely soft ground (swampy ground)	<ul style="list-style-type: none"> <li>· Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B</li> <li>· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees</li> <li>· Travel at high speed only on flat ground</li> <li>· Travel slowly at low speed if it is impossible to avoid going over obstacles</li> </ul>

## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Maker / Model	Cummins / QSB4.5
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	130 Hp (97 kW) at 2000 rpm
Net power	127 Hp (95 kW) at 2000 rpm
Max. power	135 Hp (101 kW) at 1800 rpm
Peak Torque	620 N · m (457 lbf · ft) at 1500 rpm
Engine oil quantity	11 ℓ (2.9 U.S. gal)
Wet weight	371 kg (818 lb)
Starter motor	24 V-4.8 kW
Alternator	24 V-70 A

### 2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 72.9 cc/rev
Maximum pressure	350 kgf/cm <sup>2</sup> (4980 psi)
Maximum pressure (power boost)	380 kgf/cm <sup>2</sup> (5400 psi)
Rated oil flow	2 × 131 ℓ /min (34.6 U.S. gpm / 28.8 U.K. gpm)
Rated speed	1800 rpm

### 3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm <sup>2</sup> (570 psi)
Rated oil flow	27 ℓ /min (7.1 U.S. gpm/5.9 U.K. gpm)

### 4) MAIN CONTROL VALVE

Item	Specification	
Type	11 spools	
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	400 kgf/cm <sup>2</sup> (5690 psi)
	Arm	400 kgf/cm <sup>2</sup> (5690 psi)
	Bucket	400 kgf/cm <sup>2</sup> (5690 psi)

[ ] : Power boost

### 5) SWING MOTOR

Item	Specification	
Type	Fixed displacement axial piston motor	
Capacity	72 cc/rev	
Relief pressure	280 kgf/cm <sup>2</sup> (3990 psi)	
Braking system	Automatic, spring applied hydraulic released	
Swing brake	Multi wet disc	
Braking torque	640 kgf · m (4630 lbf · ft) over	
Brake release pressure	Cracking	18 kgf/cm <sup>2</sup> (256 psi)
	Full stroke	24 kgf/cm <sup>2</sup> (341 psi)
Swing bearing lubrication	Grease-bathed	
Reduction gear type	2 - stage planetary	

## 6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Capacity	77/44.5 cc/rev
Relief pressure	350 kgf/cm <sup>2</sup> (4980 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	1779 kgf·m (12868 lbf·ft)
Brake release pressure	12.5~15.9 kgf/cm <sup>2</sup> (202~239 psi)
Reduction gear type	2-stage planetary

## 7) CYLINDER

Item	Specification	
Boom cylinder	Bore dia × Stroke	∅105 × 1075 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	∅115 × 1138 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	∅100 × 850 mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Stroke	∅100 × 250 mm
	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.



## 9. RECOMMENDED OILS

HYUNDAI 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 HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

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)	40 (104)	
Engine oil pan	Engine oil	11 (2.9)	★SAE 0W-40									
							SAE 5W-40					
						SAE 15W-40						
Swing drive	Gear oil	3.5 (0.9)	★SAE 75W-90									
Final drive		2.3x2 (0.6x2)					SAE 80W-90					
Hydraulic tank	Hydraulic oil	Tank 120 (31.7)	★ISO VG 15									
		System 210 (55.5)				ISO VG 32						
						ISO VG 68						
Fuel tank	Diesel fuel★ <sup>1</sup>	270 (71.3)	★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 (6.1)	Ethylene glycol base permanent type (50 : 50)									
			★Ethylene glycol base permanent type (60 : 40)									

**SAE** : Society of Automotive Engineers

★ : Cold region (Russia, CIS, Mongolia)

**API** : American Petroleum Institute

★<sup>1</sup> : Ultra low sulfur diesel

**ISO** : International Organization for Standardization

- sulfur content ≤ 15 ppm

**NLGI** : National Lubricating Grease Institute

★<sup>2</sup> : Soft water

**ASTM** : American Society of Testing and Material

City water or distilled water

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

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

※ For HYUNDAI genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact your local Hyundai dealer.