

SECTION 1 GENERAL



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SECTION 1 GENERAL

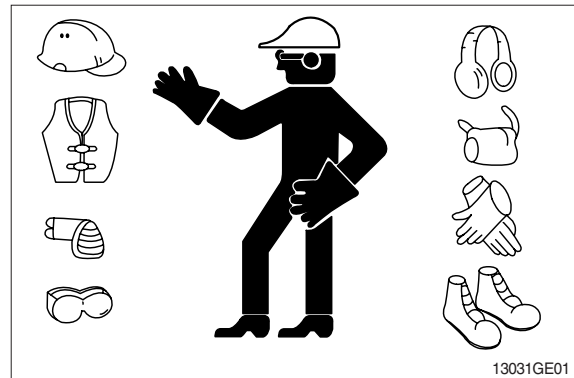
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

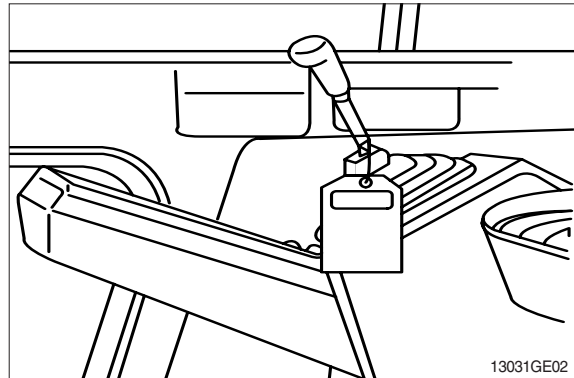
Wear close fitting clothing and safety equipment appropriate to the job.



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.



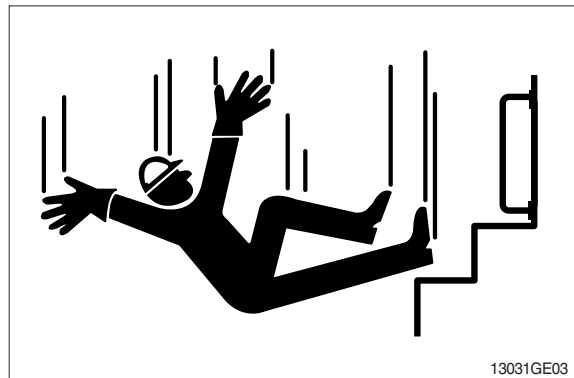
USE HANDHOLDS AND STEPS

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.

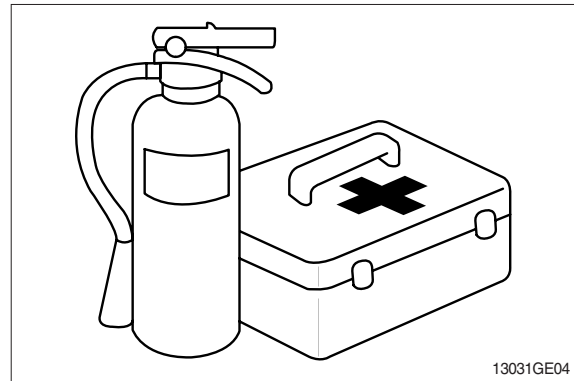


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

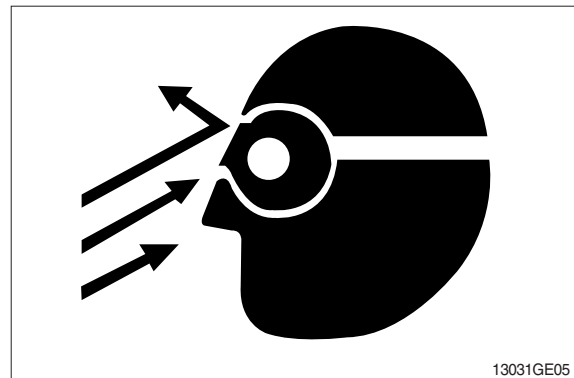
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

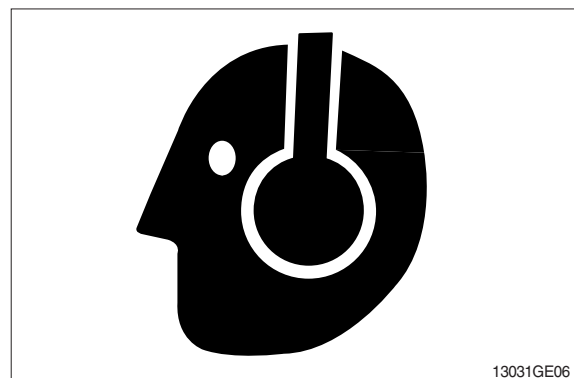
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

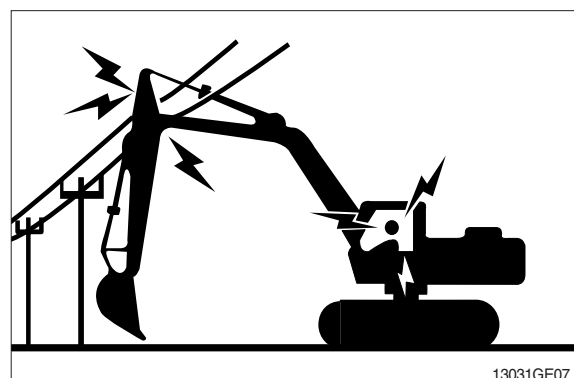
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

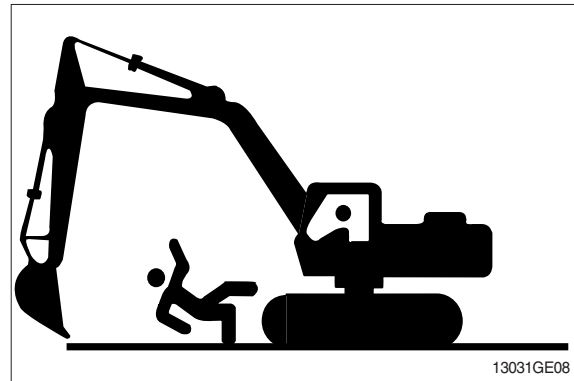
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

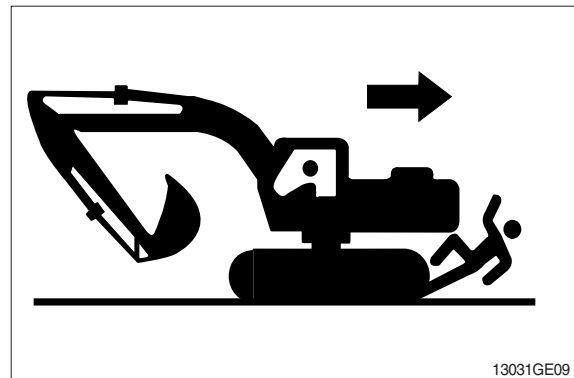


MOVE AND OPERATE MACHINE SAFELY

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:

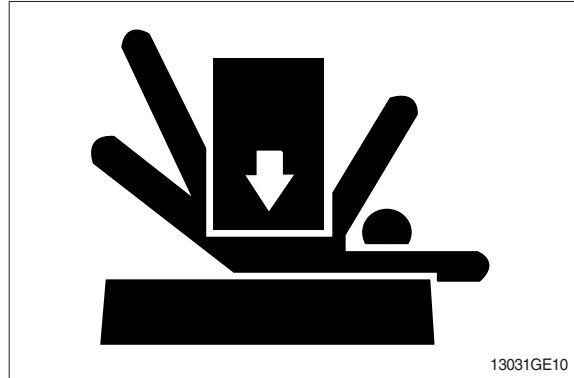
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at low idle speed without load for 5 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Place safety lever to locked position.
- Allow engine to cool.

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.

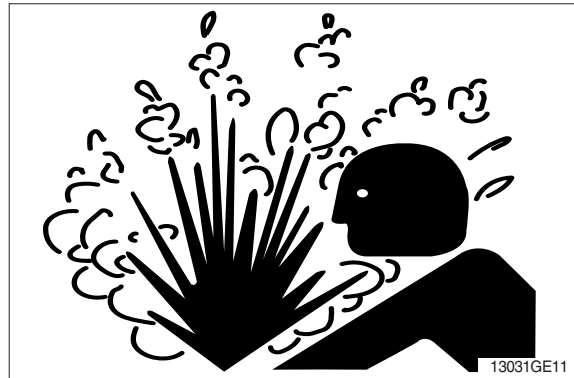
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



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

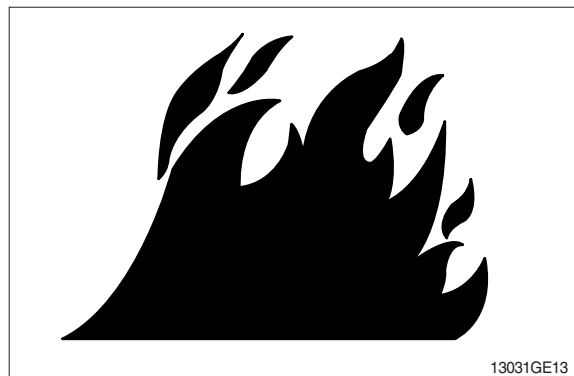
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

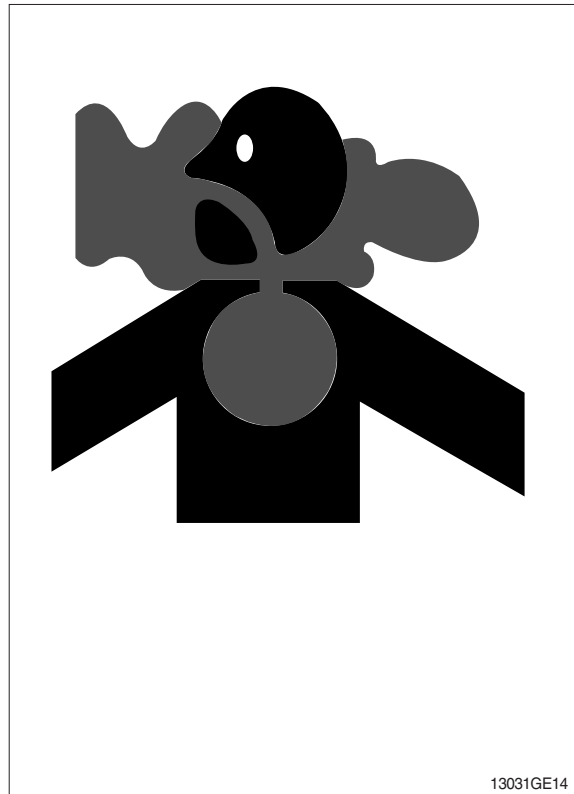
Avoid potentially toxic fumes and dust.

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

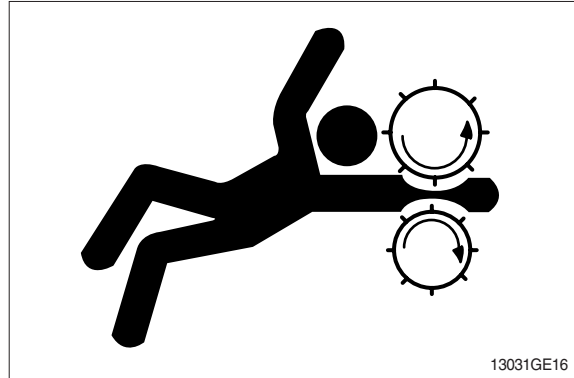
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



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.

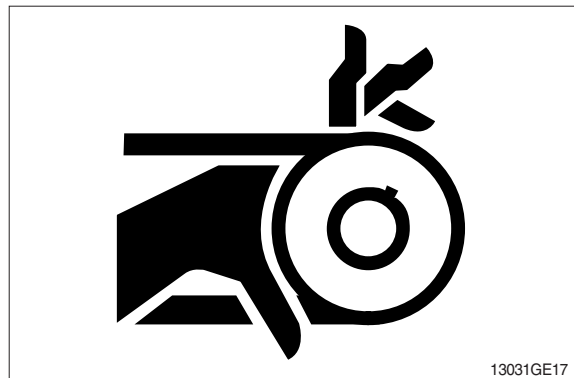
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



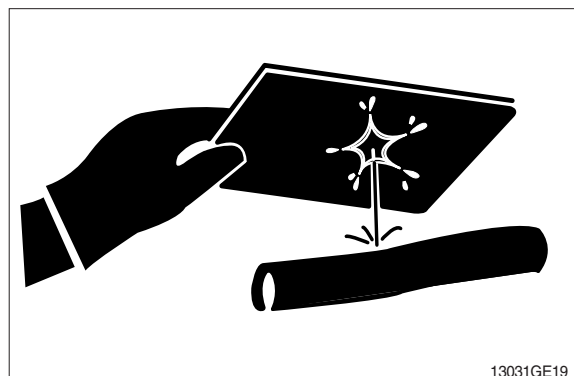
AVOID HIGH PRESSURE FLUIDS

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:

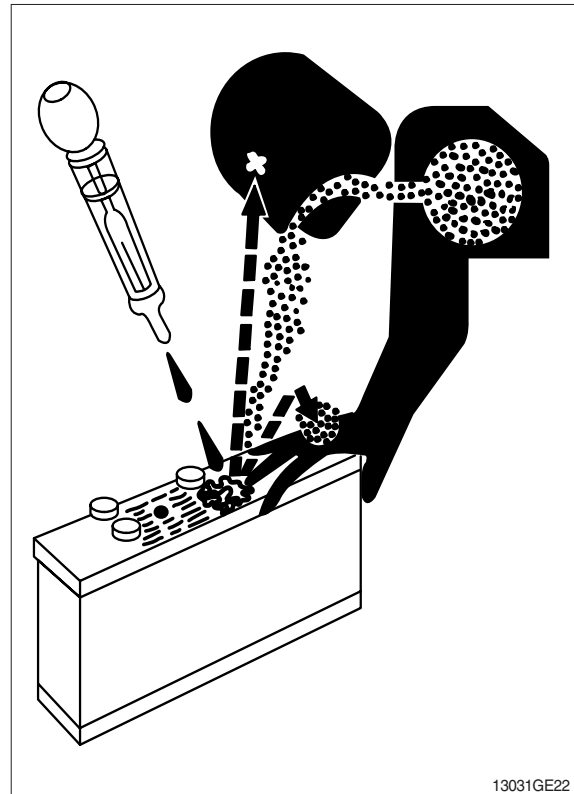
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



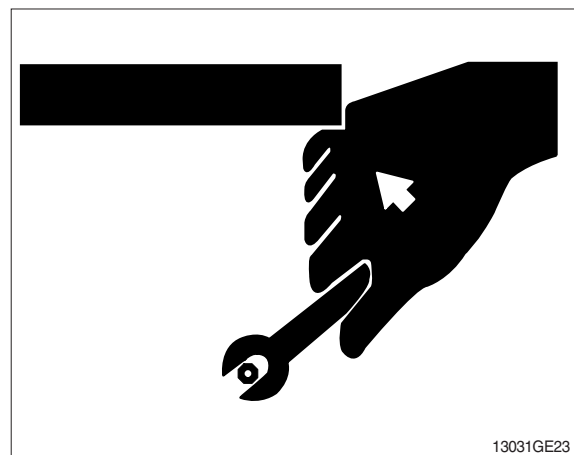
USE TOOLS PROPERLY

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

Use power tools only to loosen threaded tools and fasteners.

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

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

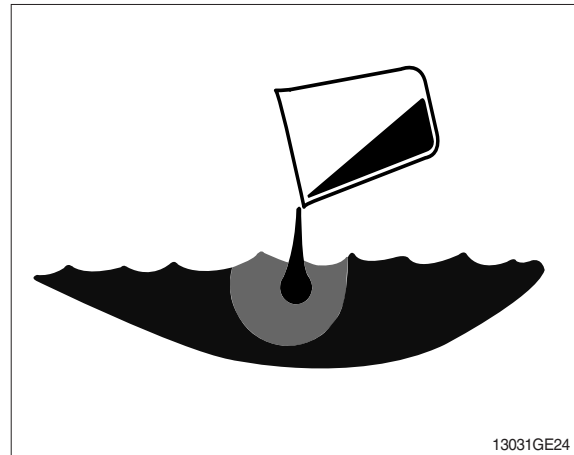


DISPOSE OF FLUIDS PROPERLY

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

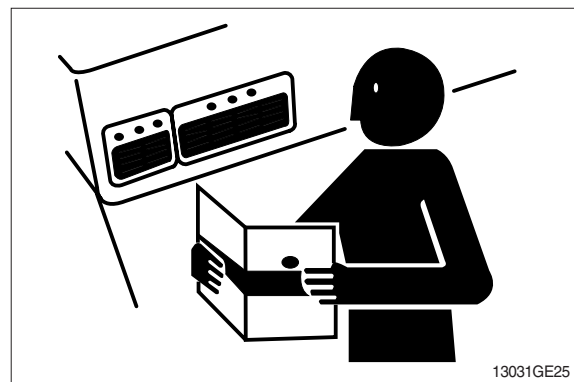
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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



REPLACE SAFETY LABELS

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

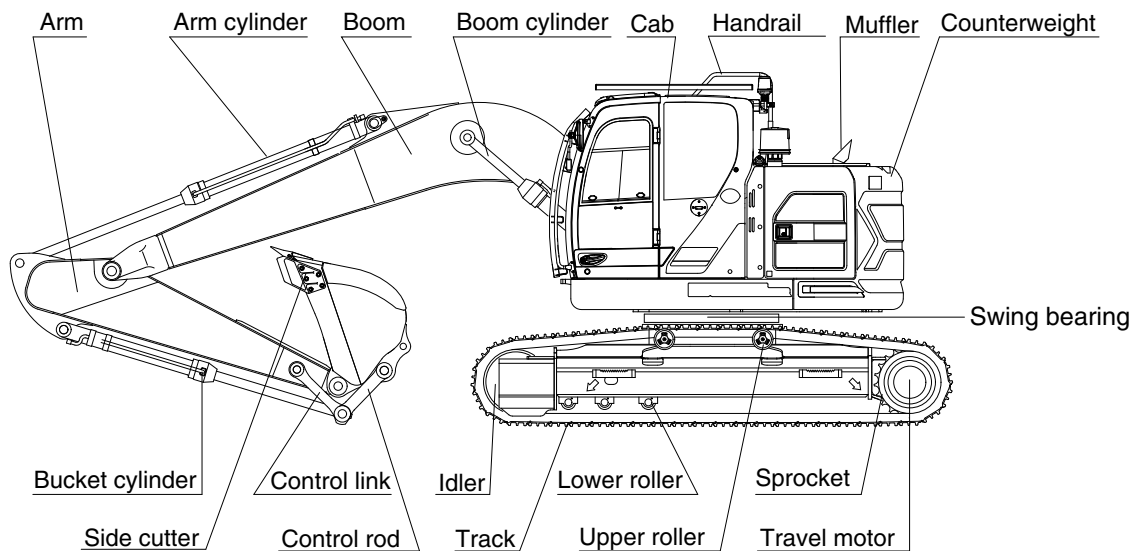
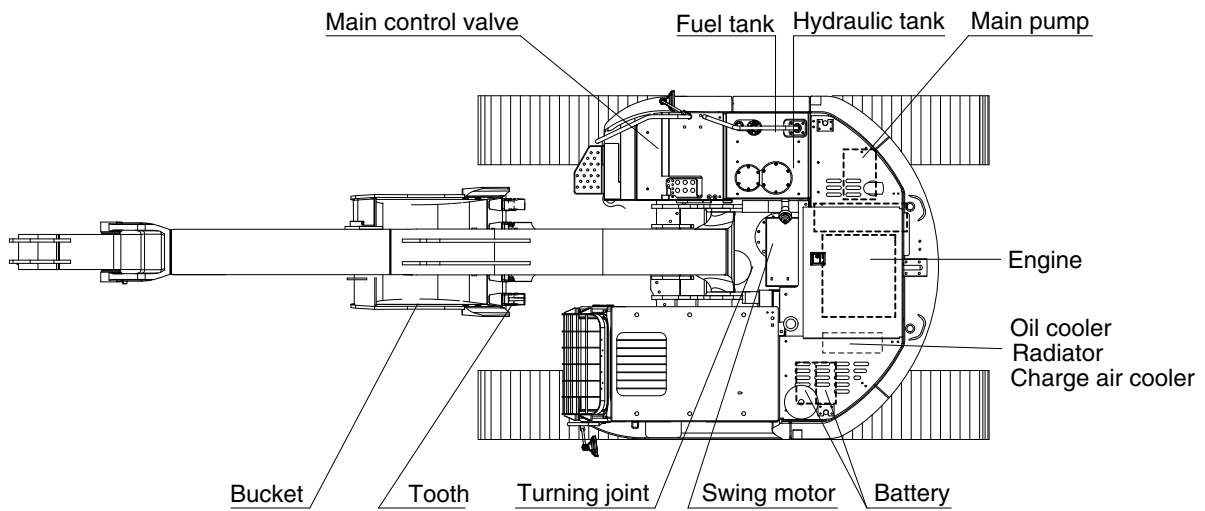


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

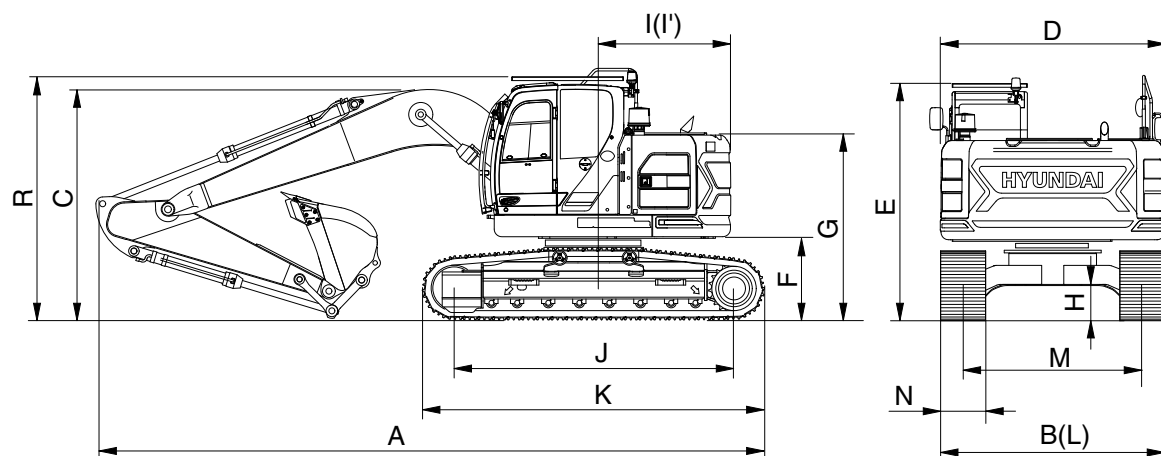
1. MAJOR COMPONENT



235SA2SP01A

2. SPECIFICATIONS

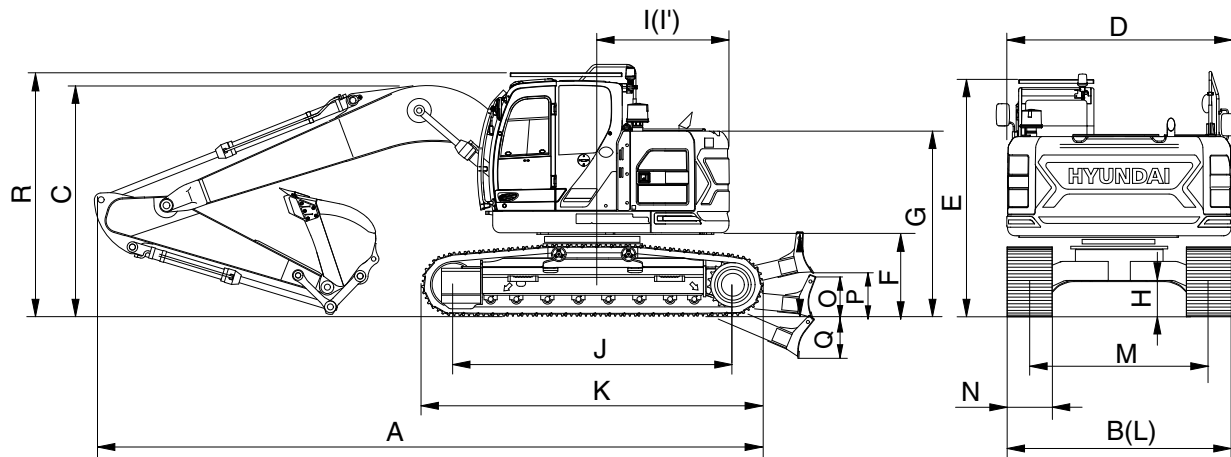
1) HX235LCRT3



235SA2SP02A

Description		Unit		Specification		
		m (ft-in)	Boom	5.70 (18' 8")		
			Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
		mm (in)	Shoe	600 (24")		
Operating weight		kg (lb)		24200 (53350)	24000 (52910)	24100 (53130)
Bucket capacity (SAE heaped), standard		m³ (yd³)		0.8 (1.05)	0.8 (1.05)	0.8 (1.05)
Overall length	A	mm (ft-in)		8910 (29' 3")	8975 (29' 5")	8935 (29' 4")
Overall width	B			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C			2975 (9' 9")	3135 (10' 3")	3055 (10' 0")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3195 (10' 6")	3195 (10' 6")	3195 (10' 6")
Ground clearance of counterweight	F			1115 (3' 8")	1115 (3' 8")	1115 (3' 8")
Overall height of engine hood	G			2430 (8' 0")	2430 (8' 0")	2430 (8' 0")
Overall height of handrail	G'			3450 (11' 4")	3450 (11' 4")	3450 (11' 4")
Minimum ground clearance	H			475 (1' 7")	475 (1' 7")	475 (1' 7")
Rear-end distance	I			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Rear-end swing radius	I'			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4395 (14' 5")	4395 (14' 5")	4395 (14' 5")
Undercarriage width	L			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M			2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)
Swing speed		rpm		11.27	11.27	11.27
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm² (psi)		0.52 (7.33)	0.51 (7.29)	0.51 (7.30)
Max traction force		kg (lb)		22194 (48929)	22194 (48929)	22194 (48929)

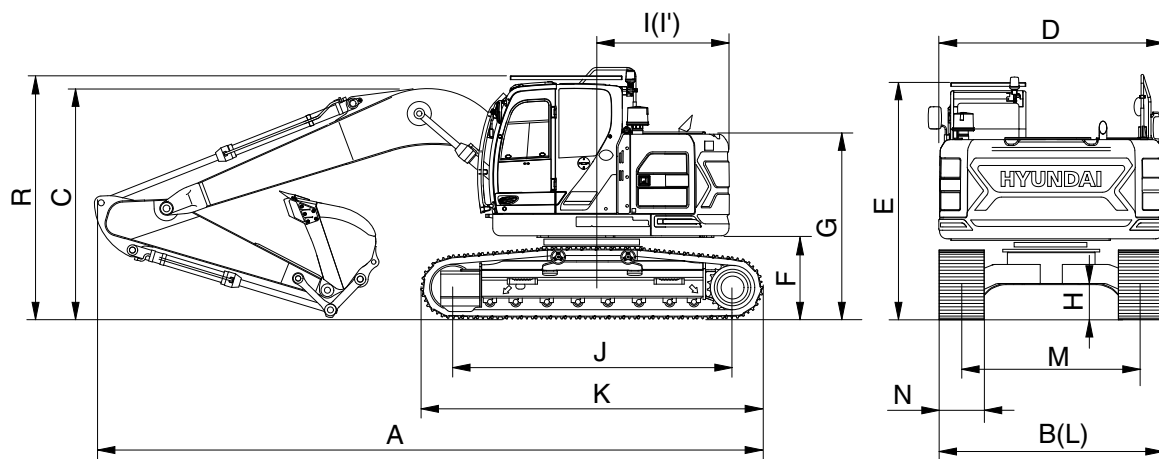
2) HX235LCRT3, WITH DOZER



235SA2SP03A

Description	Unit		Specification		
	m (ft-in)	Boom	5.70 (18' 8")		
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
	mm (in)	Shoe	600 (24")		
Operating weight	kg (lb)		25600 (56440)	25500 (56220)	25500 (56220)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		0.8 (1.05)	0.8 (1.05)	0.8 (1.05)
Overall length	A	mm (ft-in)	9855 (32' 4")	9925 (32' 7")	9880 (32' 5")
Overall width	B		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C		2975 (9' 9")	3135 (10' 3")	3055 (10' 0")
Superstructure width	D		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E		3195 (10' 6")	3195 (10' 6")	3195 (10' 6")
Ground clearance of counterweight	F		1115 (3' 8")	1115 (3' 8")	1115 (3' 8")
Overall height of engine hood	G		2430 (8' 0")	2430 (8' 0")	2430 (8' 0")
Overall height of handrail	G'		3450 (11' 4")	3450 (11' 4")	3450 (11' 4")
Minimum ground clearance	H		420 (1' 5")	420 (1' 5")	420 (1' 7")
Rear-end distance	I		1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Rear-end swing radius	I'		1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Distance between tumblers	J		3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K		4395 (14' 5")	4395 (14' 5")	4395 (14' 5")
Undercarriage width	L		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M		2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width, standard	N		600 (24")	600 (24")	600 (24")
Height of blade	O		690 (2' 3")	690 (2' 3")	690 (2' 3")
Ground clearance of blade up	P		545 (1' 9")	545 (1' 9")	545 (1' 9")
Depth of blade down	Q		360 (1' 2")	360 (1' 2")	360 (1' 2")
Travel speed (low/high)	km/hr (mph)		3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)
Swing speed	rpm		11.27	11.27	11.27
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm ² (psi)		0.55 (7.75)	0.54 (7.72)	0.54 (7.72)
Max traction force	kg (lb)		22194 (48929)	22194 (48929)	22194 (48929)

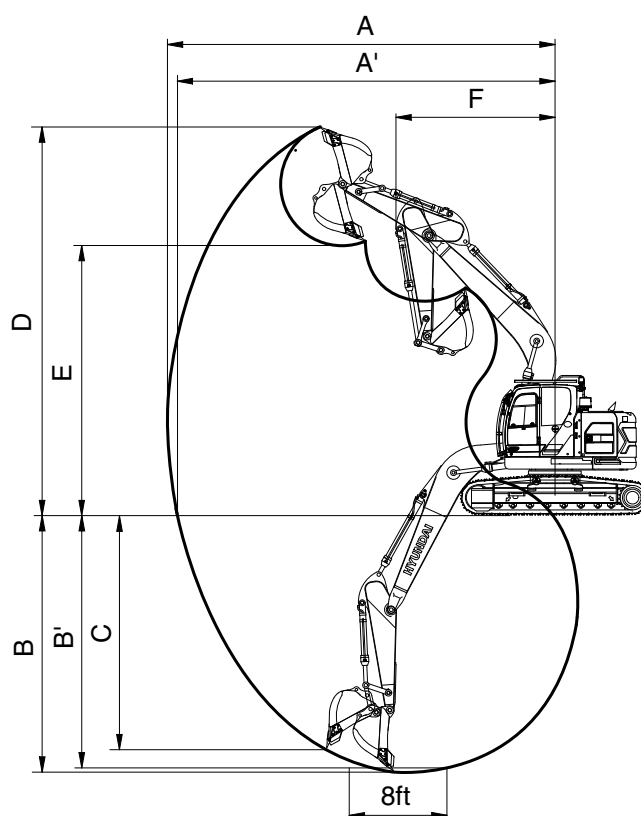
3) HX235LCRT3, HEAVY DUTY



235SA2SP02A

Description		Unit		Specification		
		m (ft-in)	Boom	5.70 (18' 8")		
			Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")
		mm (in)	Shoe	600 (24")		
Operating weight		kg (lb)		24200 (53350)	24000 (52910)	24100 (53130)
Bucket capacity (SAE heaped), standard		m³ (yd³)		0.8 (1.05)	0.8 (1.05)	0.8 (1.05)
Overall length	A	mm (ft-in)		8910 (29' 3")	8975 (29' 5")	8935 (29' 4")
Overall width	B			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C			2975 (9' 9")	3135 (10' 3")	3055 (10' 0")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3195 (10' 6")	3195 (10' 6")	3195 (10' 6")
Ground clearance of counterweight	F			1115 (3' 8")	1115 (3' 8")	1115 (3' 8")
Overall height of engine hood	G			2430 (8' 0")	2430 (8' 0")	2430 (8' 0")
Overall height of handrail	G'			3450 (11' 4")	3450 (11' 4")	3450 (11' 4")
Minimum ground clearance	H			475 (1' 7")	475 (1' 7")	475 (1' 7")
Rear-end distance	I			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Rear-end swing radius	I'			1780 (5' 10")	1780 (5' 10")	1780 (5' 10")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4395 (14' 5")	4395 (14' 5")	4395 (14' 5")
Undercarriage width	L			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M			2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)	3.25/5.62 (2.02/3.49)
Swing speed		rpm		11.27	11.27	11.27
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm² (psi)		0.52 (7.33)	0.51 (7.29)	0.51 (7.30)
Max traction force		kg (lb)		22194 (48929)	22194 (48929)	22194 (48929)

3. WORKING RANGE AND DIGGING FORCE



235SA2SP04A

Description	m (ft-in)	Boom	5.70 (18' 8")		
		Arm	2.90 (9' 6")	2.40 (7' 10")	2.00 (6' 7")
Max digging reach	mm (ft-in)	A	9880 (32' 5")	9070 (29' 9")	9455 (31' 0")
Max digging reach on ground		A'	9710 (31' 10")	8890 (29' 2")	9280 (30' 5")
Max digging depth		B	6380 (20' 11")	5480 (18' 0")	5880 (19' 3")
Max digging depth (8 ft level)		B'	6210 (20' 4")	5255 (17' 3")	5680 (18' 8")
Max vertical wall digging depth		C	5840 (19' 2")	4950 (16' 3")	5320 (17' 5")
Max digging height		D	10940 (35' 11")	10345 (33' 11")	10670 (35' 0")
Max dumping height		E	8045 (26' 5")	7440 (24' 5")	7760 (25' 6")
Min swing radius		F	2290 (7' 6")	2750 (9' 0")	2480 (8' 2")
Bucket digging force	kN	SAE	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]
	kgf		13300 [14440]	13300 [14440]	13300 [14440]
	lbf		29320 [31830]	29320 [31830]	29320 [31830]
	kN	ISO	152.3 [165.3]	152.3 [165.3]	152.3 [165.3]
	kgf		15530 [16860]	15530 [16860]	15530 [16860]
	lbf		34240 [37170]	34240 [37170]	34240 [37170]
Arm digging force	kN	SAE	102.8 [111.6]	144.3 [156.6]	119.3 [129.4]
	kgf		10480 [11380]	14710 [15970]	12160 [13200]
	lbf		23100 [25090]	32430 [35210]	26810 [29100]
	kN	ISO	106.9 [116.0]	152.0 [165.0]	124.7 [135.4]
	kgf		10900 [11830]	15500 [16830]	12720 [13810]
	lbf		24030 [26080]	34170 [37100]	28040 [30450]

[] : Power boost

4. WEIGHT

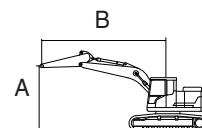
Item	HX235LCRT3		HX235LCRT3, W/DZR		HX235LCRT3, H/DUTY	
	kg	lb	kg	lb	kg	lb
Upperstructure assembly	11446	25230	11446	25230	11446	25230
Main frame weld assembly	2004	4420	2004	4420	2004	4420
Engine assembly	552	1,217	552	1,217	552	1,217
Main pump assembly	146	320	146	320	146	320
Main control valve assembly	220	490	220	490	220	490
Swing motor assembly	254	560	254	560	254	560
Hydraulic oil tank assembly	421	930	421	930	421	930
Fuel tank assembly						
Counterweight	5300	11680	5300	11680	5300	11680
Cab assembly	525	1160	525	1160	525	1160
Lower chassis assembly	8433	18590	9872	21760	8465	18660
Track frame weld assembly	2588	5710	2903	6400	2620	5780
Swing bearing	437	960	437	960	437	960
Travel motor assembly (2EA)	609	1340	609	1340	609	1340
Turning joint	56	120	56	120	56	120
Dozer Blade assembly			931	2050		
Sprocket (2EA)	112	250	112	250	112	250
Track recoil spring (2EA)	283	620	283	620	283	620
Idler (2EA)	308	680	308	680	308	680
Upper roller (4EA)	82	180	82	180	82	180
Lower roller (18EA)	855	1880	855	1880	855	1880
Track-chain assembly (600 mm standard triple grouser shoe)	2894	6380	2894	6380	2894	6380
Track-chain assembly (700 mm standard triple grouser shoe)	3178	7010	3178	7010	3178	7010
Track-chain assembly (800 mm standard triple grouser shoe)	3460	7630	3460	7630	3460	7630
Front attachment assembly	4276	9430	4276	9430	4276	9430
5.70 m boom assembly	1510	3330	1510	3330	1510	3330
2.90 m arm assembly	760	1680	760	1680	760	1680
0.08 m³ SAE heaped bucket	770	1700	770	1700	770	1700
Boom cylinder assembly (2EA)	190	420	190	420	190	420
Arm cylinder assembly	290	640	290	640	290	640
Bucket cylinder assembly	165	360	165	360	165	360
Bucket control linkage total	170	370	170	370	170	370













5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2900	5300	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)
9.0 m (29.5 ft)	kg lb											*5,230 *11,530	*5,230 *11,530	4.25 (13.9)
7.5 m (24.6 ft)	kg lb					*5,260 *11,600	*5,260 *11,600	*4,810 *10,600	*4,810 *10,600			*4,320 *9,520	*4,320 *9,520	6.15 (20.2)
6.0 m (19.7 ft)	kg lb					*5,520 *12,170	*5,520 *12,170	*5,070 *11,180	5,040 11,110			*4,020 *8,860	3,620 7,980	7.27 (23.9)
4.5 m (14.8 ft)	kg lb			*8,640 *19,050	*8,640 *19,050	*6,490 *14,310	*6,490 *14,310	*5,470 *12,060	4,880 10,760	*4,910 *10,820	3,400 7,500	*3,950 *8,710	3,070 6,770	7.96 (26.1)
3.0 m (9.8 ft)	kg lb					*7,870 *17,350	7,110 15,670	*6,070 *13,380	4,630 10,210	*5,130 *11,310	3,300 7,280	*4,050 *8,930	2,790 6,150	8.32 (27.3)
1.5 m (4.9 ft)	kg lb					*9,010 *19,860	6,590 14,530	*6,630 *14,620	4,390 9,680	5,200 11,460	3,180 7,010	*4,310 *9,500	2,680 5,910	8.41 (27.6)
0.0 m (0.0 ft)	kg lb			*5,310 *11,710	*5,310 *11,710	*9,370 *20,660	6,310 13,910	*6,880 *15,170	4,210 9,280	5,100 11,240	3,090 6,810	4,480 9,880	2,720 6,000	8.21 (26.9)
-1.5 m (-4.9 ft)	kg lb	*5,710 *12,590	*5,710 *12,590	*9,760 *21,520	*9,760 *21,520	*8,950 *19,730	6,230 13,730	*6,670 *14,700	4,140 9,130	*5,040 *11,110	3,060 6,750	*4,780 *10,540	2,950 6,500	7.73 (25.4)
-3.0 m (-9.8 ft)	kg lb			*10,420 *22,970	*10,420 *22,970	*7,780 *17,150	6,290 13,870	*5,790 *12,760	4,170 9,190			*4,630 *10,210	3,490 7,690	6.89 (22.6)
-4.5 m (-14.8 ft)	kg lb			*7,190 *15,850	*7,190 *15,850	*5,470 *12,060	*5,470 *12,060					*4,060 *8,950	*4,060 *8,950	5.52 (18.1)

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.

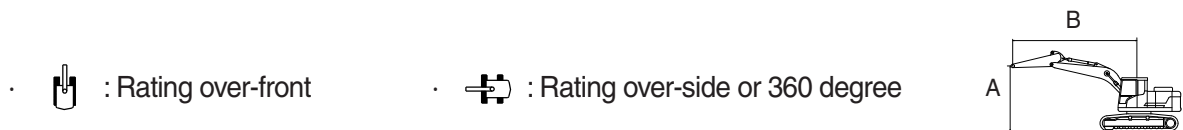
The difference between the weight of a work tool attachment must be subtracted.











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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2000	5300	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*6,470 *14,260	*6,470 *14,260					*6,420 *14,150	*6,420 *14,150	4.98 (16.3)
6.0 m (19.7 ft)	kg lb	*8,080 *17,810	*8,080 *17,810	*6,570 *14,480	*6,570 *14,480	*5,880 *12,960	4,920 10,850			*5,830 *12,850	4,500 9,920	6.32 (20.7)
4.5 m (14.8 ft)	kg lb			*7,520 *16,580	7,440 16,400	*6,120 *13,490	4,800 10,580			*5,610 *12,370	3,670 8,090	7.10 (23.3)
3.0 m (9.8 ft)	kg lb			*8,790 *19,380	6,900 15,210	*6,610 *14,570	4,590 10,120	5,320 11,730	3,300 7,280	5,310 11,710	3,290 7,250	7.51 (24.6)
1.5 m (4.9 ft)	kg lb					*6,980 *15,390	4,400 9,700	5,240 11,550	3,230 7,120	5,140 11,330	3,170 6,990	7.60 (24.9)
0.0 m (0.0 ft)	kg lb			*9,310 *20,530	6,380 14,070	*6,970 *15,370	4,280 9,440			5,310 11,710	3,250 7,170	7.39 (24.2)
-1.5 m (-4.9 ft)	kg lb			*8,420 *18,560	6,400 14,110	*6,390 *14,090	4,270 9,410			*5,260 *11,600	3,610 7,960	6.84 (22.5)
-3.0 m (-9.8 ft)	kg lb	*8,160 *17,990	*8,160 *17,990	*6,710 *14,790	6,540 14,420					*4,810 *10,600	4,530 9,990	5.87 (19.3)

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.

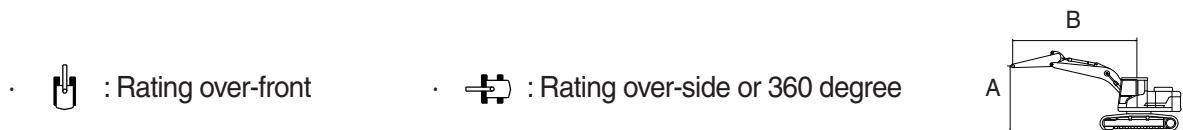
The difference between the weight of a work tool attachment must be subtracted.











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Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	5300	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*7,630 *16,820	*7,630 *16,820							*7,480 *16,490	*7,480 *16,490	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*5,900 *13,010	*5,900 *13,010					*5,810 *12,810	5,610 12,370	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*6,100 *13,450	*6,100 *13,450	*5,500 *12,130	4,970 10,960			*5,390 *11,880	4,030 8,880	6.78 (22.2)
4.5 m (14.8 ft)	kg lb	*9,960 *21,960	*9,960 *21,960	*7,070 *15,590	*7,070 *15,590	*5,830 *12,850	4,820 10,630	*5,230 *11,530	3,370 7,430	*5,230 *11,530	3,350 7,390	7.51 (24.7)
3.0 m (9.8 ft)	kg lb			*8,400 *18,520	6,980 15,390	*6,380 *14,070	4,600 10,140	5,320 11,730	3,290 7,250	4,900 10,800	3,030 6,680	7.90 (25.9)
1.5 m (4.9 ft)	kg lb			*9,320 *20,550	6,540 14,420	*6,830 *15,060	4,380 9,660	5,210 11,490	3,200 7,050	4,750 10,470	2,920 6,440	7.99 (26.2)
0.0 m (0.0 ft)	kg lb			*9,380 *20,680	6,330 13,960	*6,950 *15,320	4,240 9,350	5,150 11,350	3,130 6,900	4,880 10,760	2,980 6,570	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*9,680 *21,340	*9,680 *21,340	*8,690 *19,160	6,310 13,910	*6,540 *14,420	4,200 9,260			*5,000 *11,020	3,270 7,210	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb	*9,230 *20,350	*9,230 *20,350	*7,230 *15,940	6,420 14,150	*5,280 *11,640	4,290 9,460			*4,690 *10,340	3,980 8,770	6.37 (20.9)

Note 1. Lifting capacity are based on ISO 10567.

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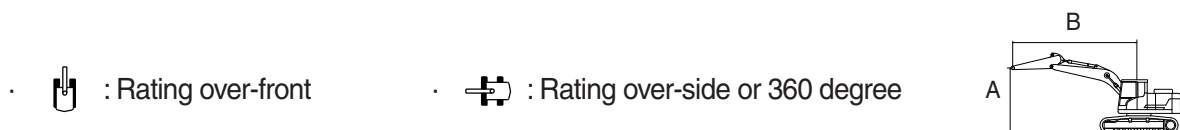
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Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2000	5300	600	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*6,470 *14,260	*6,470 *14,260					*6,420 *14,150	*6,420 *14,150	4.98 (16.3)
6.0 m (19.7 ft)	kg lb	*8,080 *17,810	*8,080 *17,810	*6,570 *14,480	*6,570 *14,480	*5,880 *12,960	5,610 12,370			*5,830 *12,850	5,140 11,330	6.32 (20.7)
4.5 m (14.8 ft)	kg lb			*7,520 *16,580	*7,520 *16,580	*6,120 *13,490	5,490 12,100			*5,610 *12,370	4,220 9,300	7.10 (23.3)
3.0 m (9.8 ft)	kg lb			*8,790 *19,380	7,980 17,590	*6,610 *14,570	5,280 11,640	*5,520 *12,170	3,800 8,380	*5,520 *12,170	3,800 8,380	7.51 (24.6)
1.5 m (4.9 ft)	kg lb					*6,980 *15,390	5,080 11,200	*5,560 *12,260	3,730 8,220	*5,470 *12,060	3,660 8,070	7.60 (24.9)
0.0 m (0.0 ft)	kg lb			*9,310 *20,530	7,450 16,420	*6,970 *15,370	4,970 10,960			*5,410 *11,930	3,770 8,310	7.39 (24.2)
-1.5 m (-4.9 ft)	kg lb			*8,420 *18,560	7,470 16,470	*6,390 *14,090	4,960 10,930			*5,260 *11,600	4,180 9,220	6.84 (22.5)
-3.0 m (-9.8 ft)	kg lb	*8,160 *17,990	*8,160 *17,990	*6,710 *14,790	*6,710 *14,790					*4,810 *10,600	*4,810 *10,600	5.87 (19.3)

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).

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

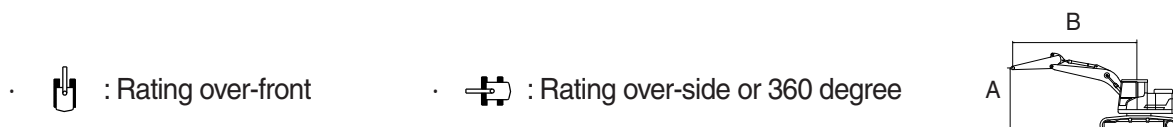
The difference between the weight of a work tool attachment must be subtracted.











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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2000	5300	600	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb			*6,470 *14,260	*6,470 *14,260					*6,420 *14,150	*6,420 *14,150	4.98 (16.3)
6.0 m (19.7 ft)	kg lb	*8,080 *17,810	*8,080 *17,810	*6,570 *14,480	*6,570 *14,480	*5,880 *12,960	5,210 11,490			*5,830 *12,850	4,770 10,520	6.32 (20.7)
4.5 m (14.8 ft)	kg lb			*7,520 *16,580	*7,520 *16,580	*6,120 *13,490	5,090 11,220			*5,610 *12,370	3,910 8,620	7.10 (23.3)
3.0 m (9.8 ft)	kg lb			*8,790 *19,380	7,340 16,180	*6,610 *14,570	4,880 10,760	5,260 11,600	3,520 7,760	5,250 11,570	3,520 7,760	7.51 (24.6)
1.5 m (4.9 ft)	kg lb					*6,980 *15,390	4,690 10,340	5,180 11,420	3,450 7,610	5,080 11,200	3,390 7,470	7.60 (24.9)
0.0 m (0.0 ft)	kg lb			*9,310 *20,530	6,820 15,040	*6,970 *15,370	4,580 10,100			5,250 11,570	3,480 7,670	7.39 (24.2)
-1.5 m (-4.9 ft)	kg lb			*8,420 *18,560	6,830 15,060	*6,390 *14,090	4,570 10,080			*5,260 *11,600	3,860 8,510	6.84 (22.5)
-3.0 m (-9.8 ft)	kg lb	*8,160 *17,990	*8,160 *17,990	*6,710 *14,790	*6,710 *14,790					*4,810 *10,600	*4,810 *10,600	5.87 (19.3)

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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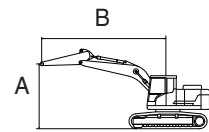
Failure to comply to the rated load can cause possible personal injury or property damage.











Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	5300	600	-	-	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)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*7,630 *16,820	*7,630 *16,820							*7,480 *16,490	*7,480 *16,490	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*5,900 *13,010	*5,900 *13,010					*5,810 *12,810	*5,810 *12,810	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*6,100 *13,450	*6,100 *13,450	*5,500 *12,130	*5,500 *12,130			*5,390 *11,880	4,620 10,190	6.78 (22.2)
4.5 m (14.8 ft)	kg lb	*9,960 *21,960	*9,960 *21,960	*7,070 *15,590	*7,070 *15,590	*5,830 *12,850	5,520 12,170	*5,230 *11,530	3,870 8,530	*5,230 *11,530	3,860 8,510	7.51 (24.7)
3.0 m (9.8 ft)	kg lb			*8,400 *18,520	8,070 17,790	*6,380 *14,070	5,290 11,660	*5,350 *11,790	3,800 8,380	*5,160 *11,380	3,500 7,720	7.90 (25.9)
1.5 m (4.9 ft)	kg lb			*9,320 *20,550	7,610 16,780	*6,830 *15,060	5,070 11,180	*5,480 *12,080	3,700 8,160	*5,130 *11,310	3,380 7,450	7.99 (26.2)
0.0 m (0.0 ft)	kg lb			*9,380 *20,680	7,400 16,310	*6,950 *15,320	4,930 10,870	*5,390 *11,880	3,640 8,020	*5,100 *11,240	3,460 7,630	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*9,680 *21,340	*9,680 *21,340	*8,690 *19,160	7,380 16,270	*6,540 *14,420	4,890 10,780			*5,000 *11,020	3,800 8,380	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb	*9,230 *20,350	*9,230 *20,350	*7,230 *15,940	*7,230 *15,940	*5,280 *11,640	4,970 10,960			*4,690 *10,340	4,620 10,190	6.37 (20.9)

Note 1. Lifting capacity are based on ISO 10567.

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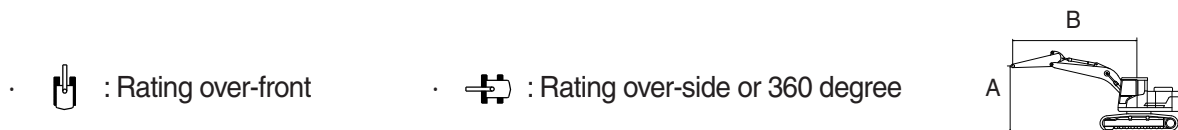
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Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	5300	600	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg lb	*7,630 *16,820	*7,630 *16,820							*7,480 *16,490	*7,480 *16,490	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*5,900 *13,010	*5,900 *13,010					*5,810 *12,810	*5,810 *12,810	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*6,100 *13,450	*6,100 *13,450	*5,500 *12,130	5,260 11,600			*5,390 *11,880	4,280 9,440	6.78 (22.2)
4.5 m (14.8 ft)	kg lb	*9,960 *21,960	*9,960 *21,960	*7,070 *15,590	*7,070 *15,590	*5,830 *12,850	5,120 11,290	*5,230 *11,530	3,590 7,910	*5,230 *11,530	3,580 7,890	7.51 (24.7)
3.0 m (9.8 ft)	kg lb			*8,400 *18,520	7,410 16,340	*6,380 *14,070	4,890 10,780	5,260 11,600	3,520 7,760	4,850 10,690	3,240 7,140	7.90 (25.9)
1.5 m (4.9 ft)	kg lb			*9,320 *20,550	6,970 15,370	*6,830 *15,060	4,680 10,320	5,160 11,380	3,420 7,540	4,700 10,360	3,130 6,900	7.99 (26.2)
0.0 m (0.0 ft)	kg lb			*9,380 *20,680	6,770 14,930	*6,950 *15,320	4,540 10,010	5,090 11,220	3,360 7,410	4,830 10,650	3,200 7,050	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb	*9,680 *21,340	*9,680 *21,340	*8,690 *19,160	6,740 14,860	*6,540 *14,420	4,500 9,920			*5,000 *11,020	3,510 7,740	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb	*9,230 *20,350	*9,230 *20,350	*7,230 *15,940	6,850 15,100	*5,280 *11,640	4,580 10,100			*4,690 *10,340	4,260 9,390	6.37 (20.9)

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.

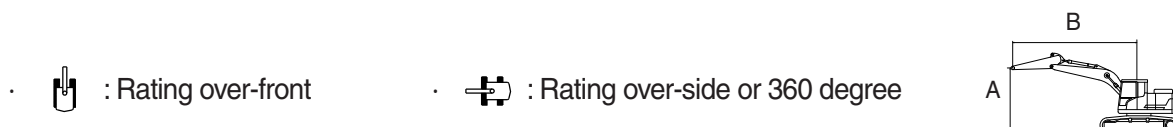
The difference between the weight of a work tool attachment must be subtracted.













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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2920	5300	600	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb											*5,230 *11,530	*5,230 *11,530	4.25 (13.9)
7.5 m (24.6 ft)	kg lb					*5,260 *11,600	*5,260 *11,600	*4,810 *10,600	*4,810 *10,600			*4,320 *9,520	*4,320 *9,520	6.15 (20.2)
6.0 m (19.7 ft)	kg lb					*5,520 *12,170	*5,520 *12,170	*5,070 *11,180	*5,070 *11,180			*4,020 *8,860	*4,020 *8,860	7.27 (23.9)
4.5 m (14.8 ft)	kg lb			*8,640 *19,050	*8,640 *19,050	*6,490 *14,310	*6,490 *14,310	*5,470 *12,060	*5,470 *12,060	*4,910 *10,820	3,910 8,620	*3,950 *8,710	3,530 7,780	7.96 (26.1)
3.0 m (9.8 ft)	kg lb					*7,870 *17,350	*7,870 *17,350	*6,070 *13,380	5,320 11,730	*5,130 *11,310	3,800 8,380	*4,050 *8,930	3,230 7,120	8.32 (27.3)
1.5 m (4.9 ft)	kg lb					*9,010 *19,860	7,670 16,910	*6,630 *14,620	5,080 11,200	*5,350 *11,790	3,690 8,140	*4,310 *9,500	3,110 6,860	8.41 (27.6)
0.0 m (0.0 ft)	kg lb			*5,310 *11,710	*5,310 *11,710	*9,370 *20,660	7,370 16,250	*6,880 *15,170	4,900 10,800	*5,400 *11,900	3,600 7,940	*4,790 *10,560	3,170 6,990	8.21 (26.9)
-1.5 m (-4.9 ft)	kg lb	*5,710 *12,590	*5,710 *12,590	*9,760 *21,520	*9,760 *21,520	*8,950 *19,730	7,290 16,070	*6,670 *14,700	4,820 10,630	*5,040 *11,110	3,570 7,870	*4,780 *10,540	3,430 7,560	7.73 (25.4)
-3.0 m (-9.8 ft)	kg lb			*10,420 *22,970	*10,420 *22,970	*7,780 *17,150	7,350 16,200	*5,790 *12,760	4,860 10,710			*4,630 *10,210	4,060 8,950	6.89 (22.6)
-4.5 m (-14.8 ft)	kg lb			*7,190 *15,850	*7,190 *15,850	*5,470 *12,060	*5,470 *12,060					*4,060 *8,950	*4,060 *8,950	5.52 (18.1)

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.

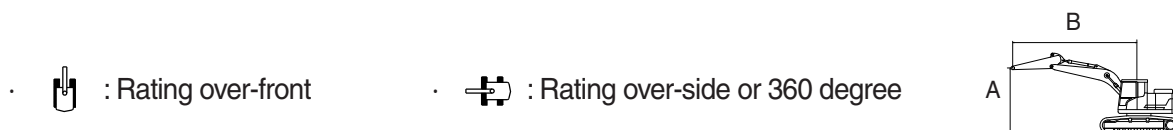
The difference between the weight of a work tool attachment must be subtracted.













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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235LCRT3 W/DOZER	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2920	5300	600	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb											*5,230 *11,530	*5,230 *11,530	4.25 (13.9)
7.5 m (24.6 ft)	kg lb					*5,260 *11,600	*5,260 *11,600	*4,810 *10,600	*4,810 *10,600			*4,320 *9,520	*4,320 *9,520	6.15 (20.2)
6.0 m (19.7 ft)	kg lb					*5,520 *12,170	*5,520 *12,170	*5,070 *11,180	*5,070 *11,180			*4,020 *8,860	3,860 8,510	7.27 (23.9)
4.5 m (14.8 ft)	kg lb			*8,640 *19,050	*8,640 *19,050	*6,490 *14,310	*6,490 *14,310	*5,470 *12,060	5,170 11,400	*4,910 *10,820	3,620 7,980	*3,950 *8,710	3,270 7,210	7.96 (26.1)
3.0 m (9.8 ft)	kg lb					*7,870 *17,350	7,540 16,620	*6,070 *13,380	4,930 10,870	*5,130 *11,310	3,520 7,760	*4,050 *8,930	2,980 6,570	8.32 (27.3)
1.5 m (4.9 ft)	kg lb					*9,010 *19,860	7,020 15,480	*6,630 *14,620	4,680 10,320	5,140 11,330	3,400 7,500	*4,310 *9,500	2,870 6,330	8.41 (27.6)
0.0 m (0.0 ft)	kg lb			*5,310 *11,710	*5,310 *11,710	*9,370 *20,660	6,740 14,860	*6,880 *15,170	4,510 9,940	5,050 11,130	3,310 7,300	4,430 9,770	2,920 6,440	8.21 (26.9)
-1.5 m (-4.9 ft)	kg lb	*5,710 *12,590	*5,710 *12,590	*9,760 *21,520	*9,760 *21,520	*8,950 *19,730	6,660 14,680	*6,670 *14,700	4,430 9,770	5,020 11,070	3,290 7,250	*4,780 *10,540	3,170 6,990	7.73 (25.4)
-3.0 m (-9.8 ft)	kg lb			*10,420 *22,970	*10,420 *22,970	*7,780 *17,150	6,720 14,820	*5,790 *12,760	4,470 9,850			*4,630 *10,210	3,740 8,250	6.89 (22.6)
-4.5 m (-14.8 ft)	kg lb			*7,190 *15,850	*7,190 *15,850	*5,470 *12,060	*5,470 *12,060					*4,060 *8,950	*4,060 *8,950	5.52 (18.1)

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

Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

6. BUCKET SELECTION GUIDE

1) BUCKET SELECTION



General bucket



Heavy duty
(without side cutter)



Rock heavy duty

Type	Capacity		Width		Weight	Tooth	MONO		
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation	mm (ft-in)	
							5.70 m (18' 8") Boom		
							2.0 m (6' 7")Arm	2.4 m (7' 10") Arm	2.90 m (9' 6") Arm
General bucket	0.81 (1.06)	0.72 (0.94)	975 (38.4')	1125 (44.3')	700 (1540)	5	●	●	●
	0.92 (1.20)	0.81 (1.06)	1085 (42.7')	1230 (48.4')	750 (1650)	5	●	●	●
	1.05 (1.37)	0.96 (1.26)	1220 (48.0")	1370 (53.9")	790 (1740)	5	●	◐	◐
	1.28 (1.67)	1.11 (1.45)	1455 (57.3")	1605 (63.2")	885 (1950)	6	◐	■	▲
Heavy duty	0.92 (1.20)	0.83 (1.09)	1050 (41.3")	1095 (43.1")	865 (1910)	5	●	●	◐
	1.08 (1.41)	0.97 (1.27)	1200 (47.2")	1245 (49.0")	935 (2060)	5	●	◐	■
Rock heavy duty	0.91 (1.19)	0.83 (1.09)	1050 (41.3")	1095 (43.1")	1050 (2310)	4	●	●	◐
	0.87 (1.14)	0.75 (0.98)	1150 (45.3")	-	875 (1930)	5	●	●	●

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

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

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

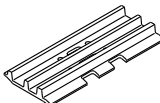
Consult your HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

7. UNDERCARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

Model	Shapes		Triple grouser		
					
HX235LCRT3	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)
	Operating weight	kg (lb)	24200 (53350)	24500 (54010)	24700 (54450)
	Ground pressure	kgf/cm ² (psi)	0.52 (7.33)	0.45 (6.36)	0.39 (5.61)
	Overall width	mm (ft-in)	2990 (9' 10")	3090 (10' 2")	3190 (10' 6")
HX235LCRT3 W/DOZER	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)
	Operating weight	kg (lb)	25500 (56220)	25780 (56830)	26060 (57450)
	Ground pressure	kgf/cm ² (psi)	0.55 (7.75)	0.47 (6.68)	0.42 (5.97)
	Overall width	mm (ft-in)	2990 (9' 10")	3090 (10' 2")	3190 (10' 6")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Upper rollers	2 EA
Lower rollers	8 EA
Track shoes	49 EA

4) 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**

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
700 mm triple grouser	Option	B
900 mm triple grouser	Option	C

※ **Table 2**

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

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	HD Hyundai Construction Equipment HE6.7
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.21" × 4.88")
Displacement	6.7 ℓ (408 cu in)
Compression ratio	17.2 : 1
Gross power	160 Hp (119 kW) at 2200 rpm
Net power	157 Hp (117 kW) at 2200 rpm
Max. power	165 Hp (123 kW) at 2000 rpm
Peak Torque	732 N·m (540 lbf·ft) at 1400 rpm
Engine oil quantity	23.7 ℓ (6.3 U.S. gal)
Wet weight	552 kg (1217 lb)
Starter motor	24 V-4.8 kW
Alternator	Valeo 24 V-90 A

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 130 cc/rev
Maximum pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	2 × 214.5 ℓ /min (56.7 U.S. gpm/ 47.2 U.K. gpm)
Rated speed	1700 rpm

[] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	10 cc/rev
Maximum pressure	40 kgf/cm ² (570 psi)
Rated oil flow	17 ℓ /min (4.5 U.S. gpm/3.7 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	10 spools two-block
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Port relief valve pressure	Boom 400 kgf/cm ² (5690 psi)
	Arm 400 kgf/cm ² (5690 psi)
	Bucket 400 kgf/cm ² (5690 psi)

[]: Power boost

5) SWING MOTOR

Item	Specification
Type	Two fixed displacement axial piston motor
Capacity	143 cc/rev
Relief pressure	285 kgf/cm ² (4050 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	63.3 kgf · m (479.5 lbf · ft)
Brake release pressure	20.9~35.5 kgf/cm ² (297~505 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	350 kgf/cm ² (4980 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	14.2~16.8 kgf/cm ² (202~239 psi)
Braking torque	72.3 kgf · m (523 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø 120 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø 140 × 1443 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	Ø 120 × 1060 mm
	Cushion	Extend only
Dozer cylinder (opt)	Bore dia × Stroke	Ø 130 × 240 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.

9. RECOMMENDED OILS

HD Hyundai Construction Equipment genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HD Hyundai Construction Equipment and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HD Hyundai Construction Equipment genuine lubricating oils and grease officially approved by HD Hyundai Construction Equipment.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C(°F)							
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)
Engine oil pan	Engine oil	23.7 (6.3)	★SAE 0W-30							
			SAE 5W-30							
			SAE 10W-30							
			SAE CI-4 and 10W-30							
			SAE 5W-40 or 15W-40							
Swing drive	Gear oil	7.0 (1.85)	★SAE 75W-90							
Final drive		4.5×2 (1.19×2)	SAE 80W-90							
Hydraulic tank	Hydraulic oil	Tank : 160 (42.3) System : 330 (87.2)	★ISO VG 15							
			ISO VG 32							
			ISO VG 46, HBHO 46★ ³							
			ISO VG 68							
Fuel tank	Diesel fuel	320 (84.5)	★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★ ¹	30 (7.9)	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

★ : Cold region

Russia, CIS, Mongolia

★¹ : Soft water

City water or distilled water

※ 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.

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