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SECTION 1 GENERAL

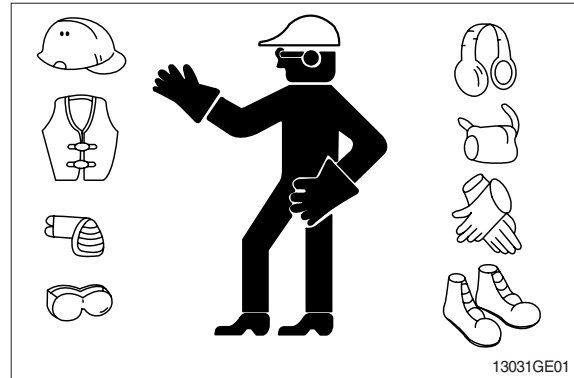
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

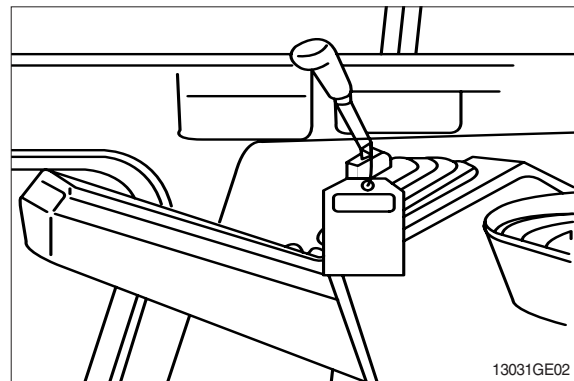
Wear close fitting clothing and safety equipment appropriate to the job.



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.



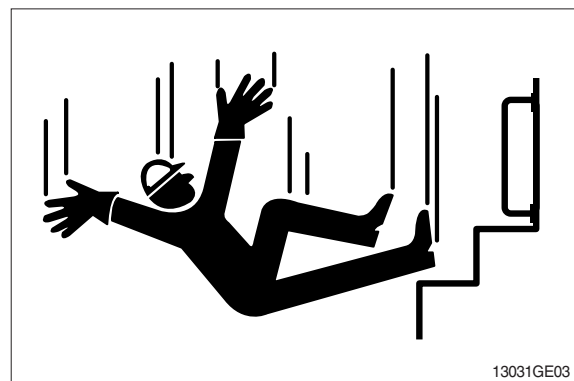
USE HANDHOLDS AND STEPS

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.

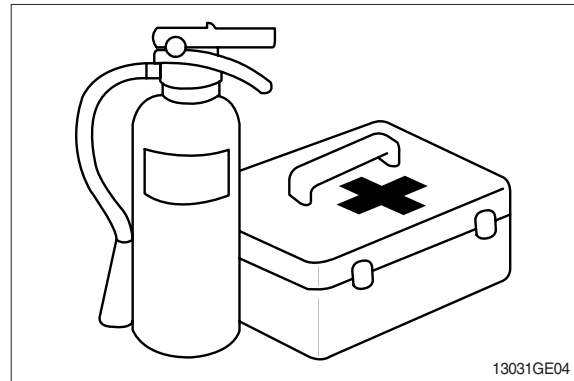


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

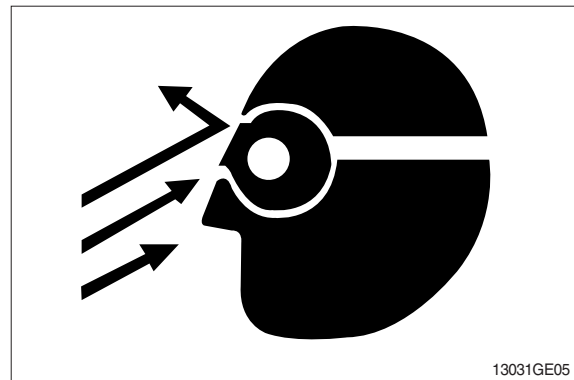
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

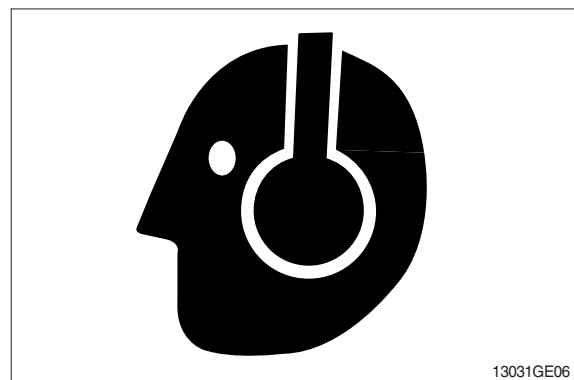
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

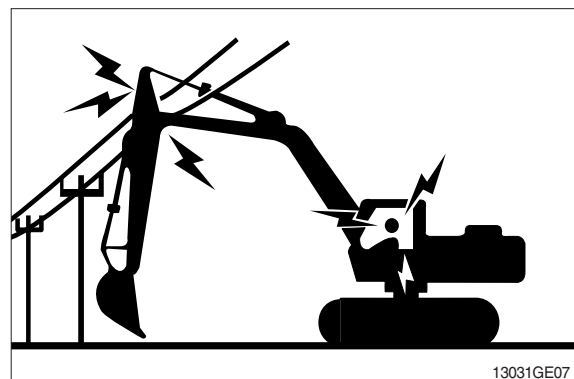
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

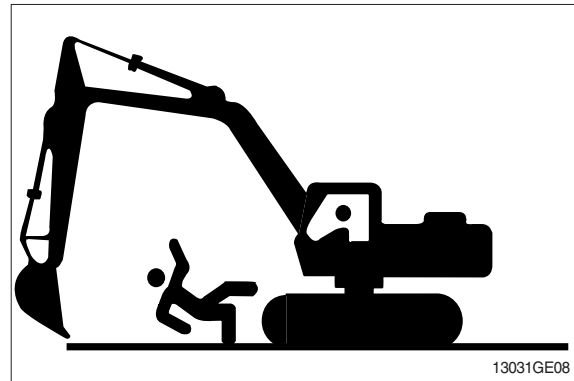
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

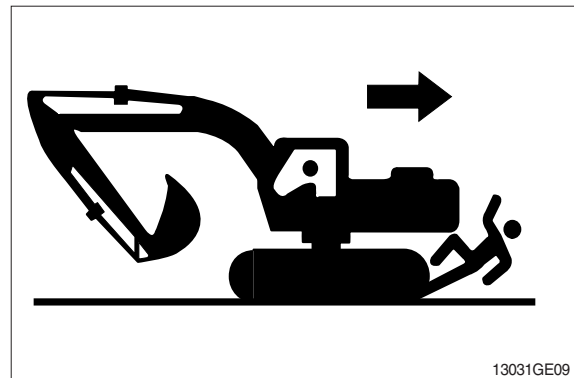


MOVE AND OPERATE MACHINE SAFELY

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:

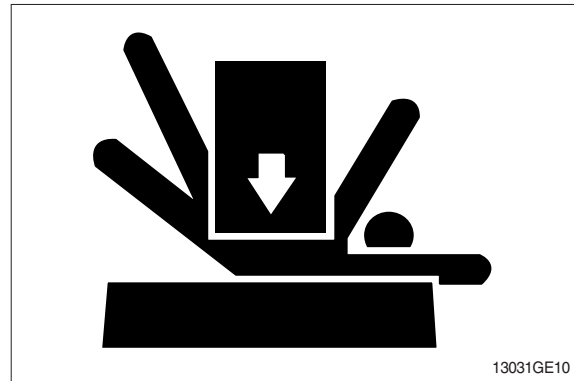
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at low idle speed without load for 5 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Place safety lever to locked position.
- Allow engine to cool.

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.

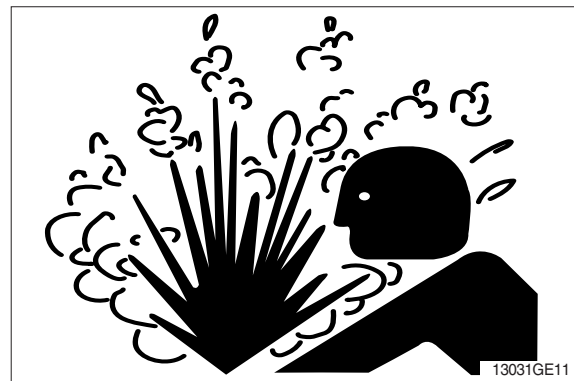
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



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.

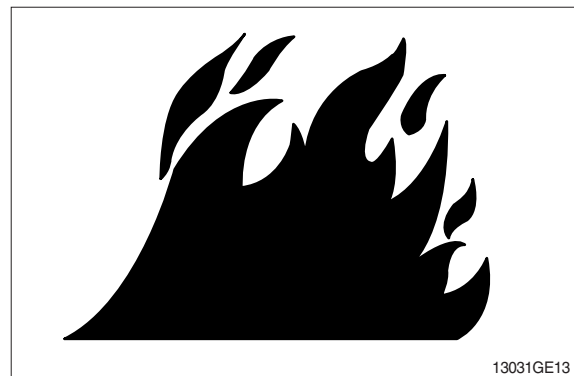
Fill fuel tank outdoors.



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

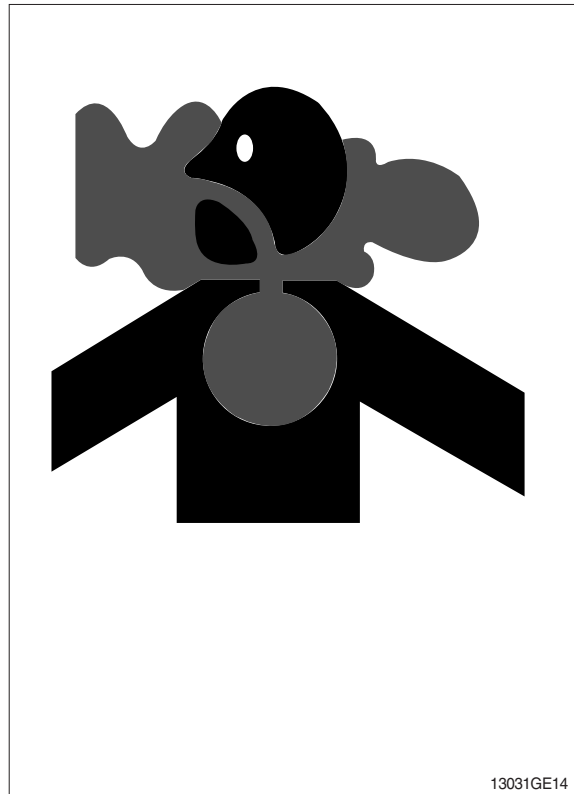
Avoid potentially toxic fumes and dust.

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.

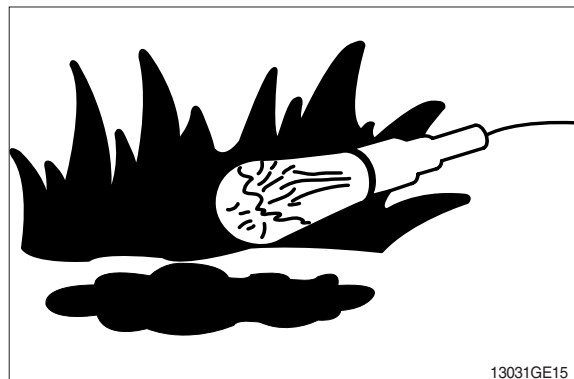
Remove paint before welding or heating:

- 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

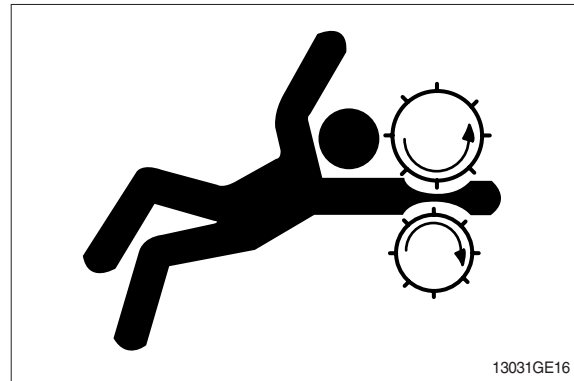
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



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.

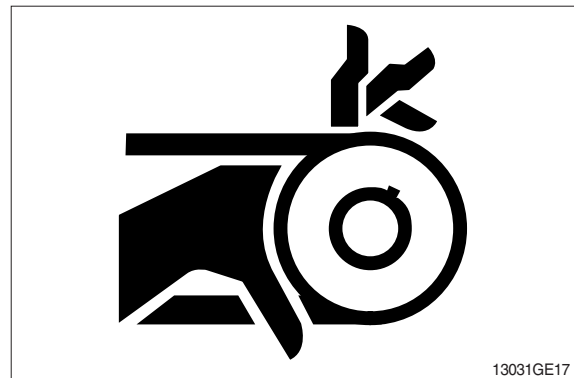
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



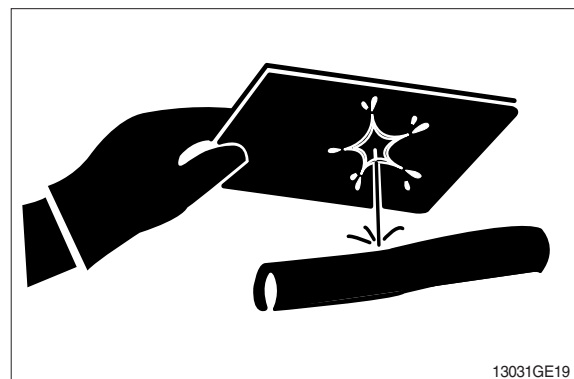
AVOID HIGH PRESSURE FLUIDS

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:

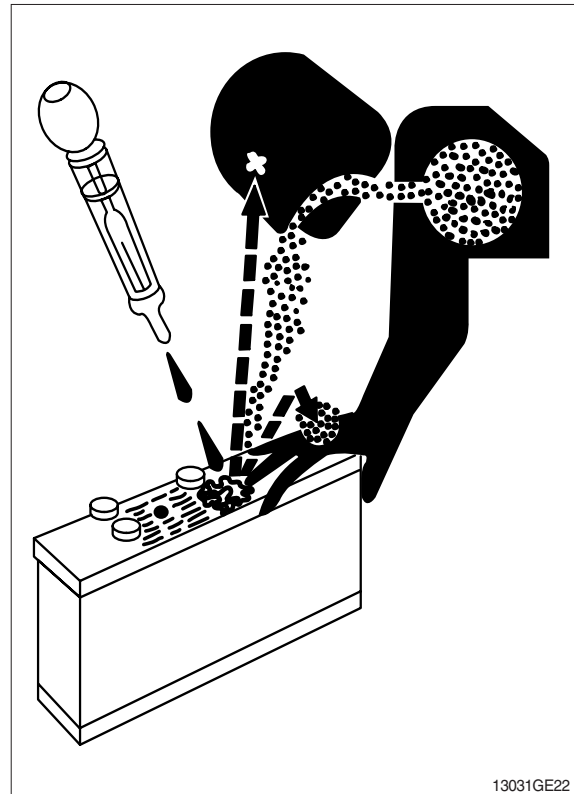
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



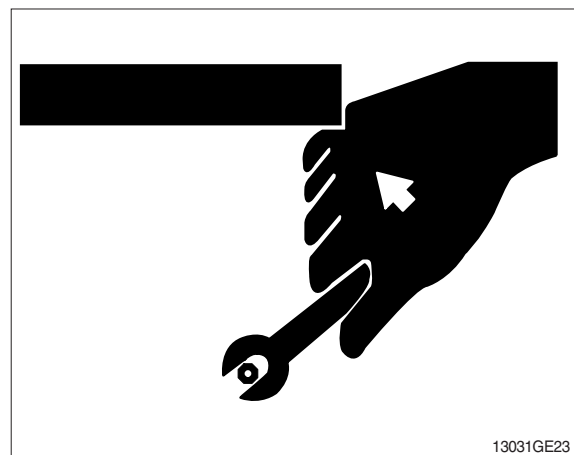
USE TOOLS PROPERLY

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.)

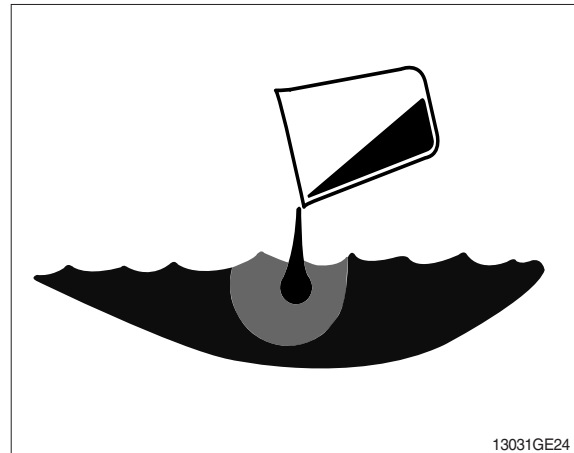


DISPOSE OF FLUIDS PROPERLY

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.

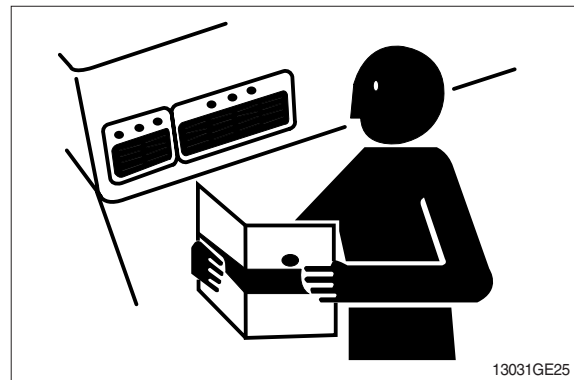
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

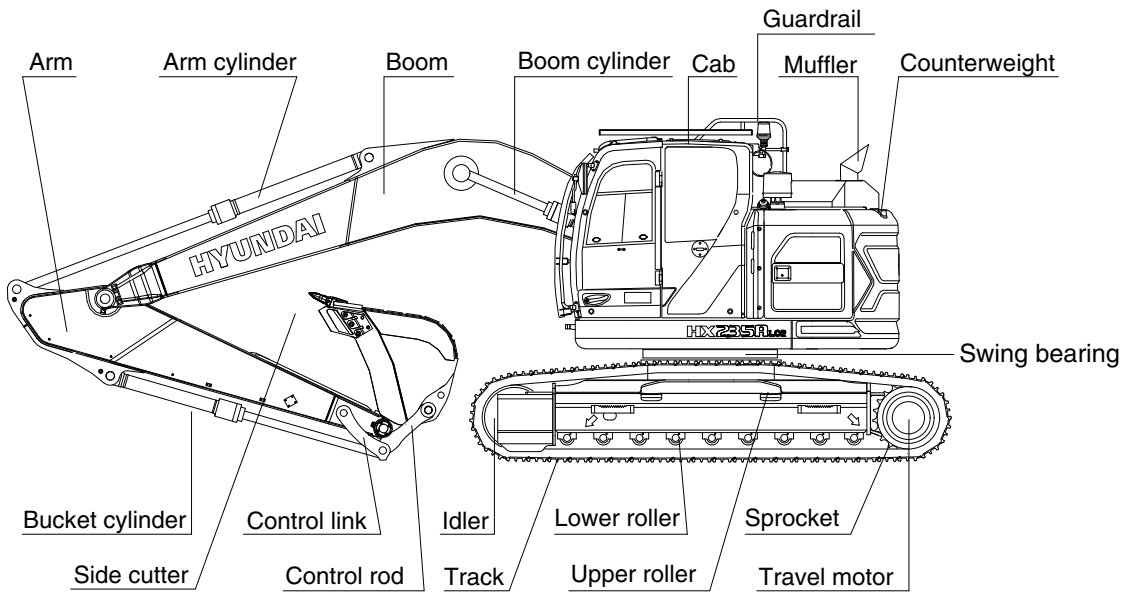
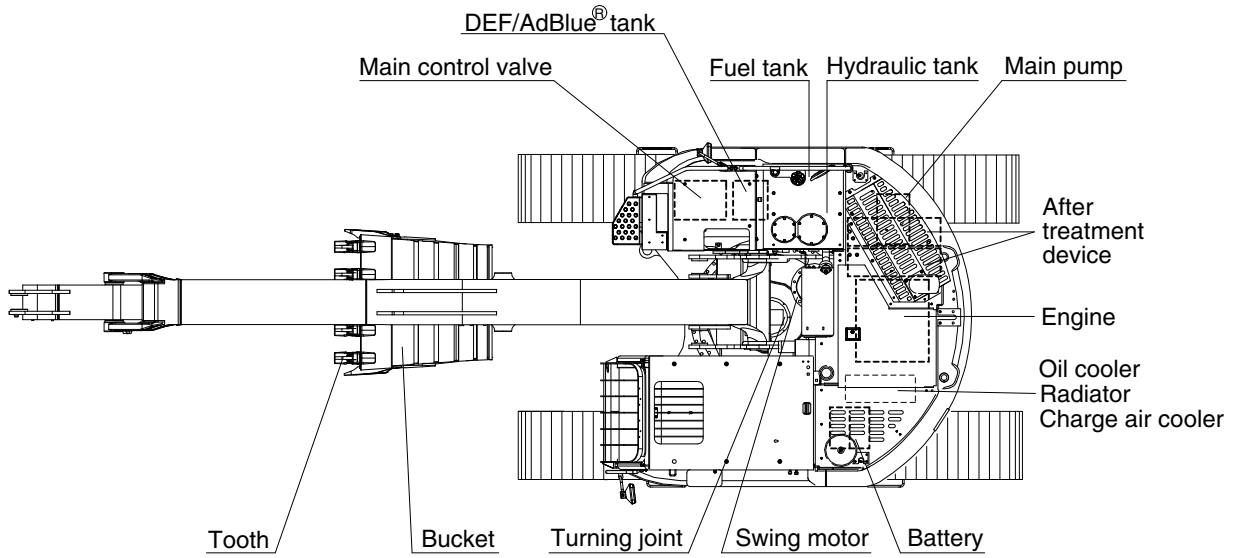


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

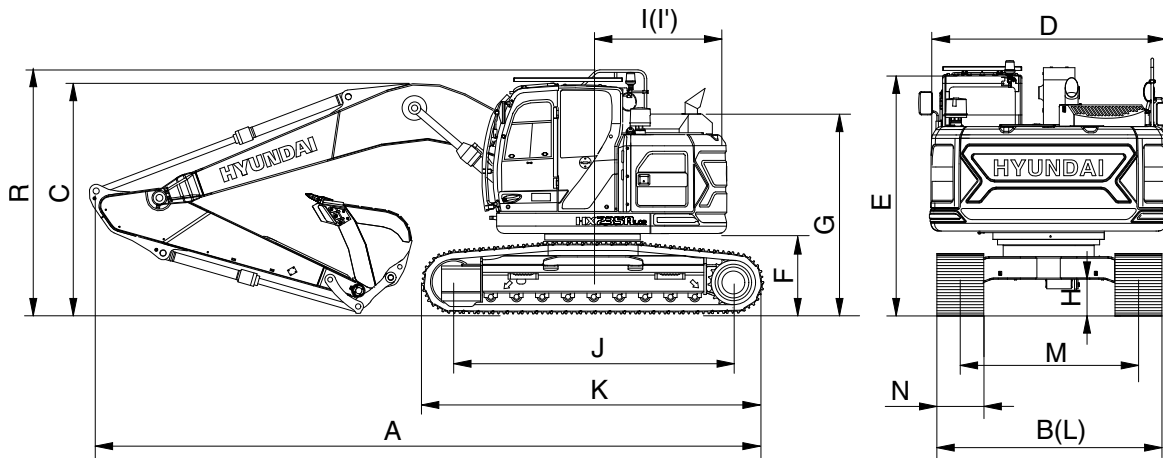
1. MAJOR COMPONENT



235A2SP01

2. SPECIFICATIONS

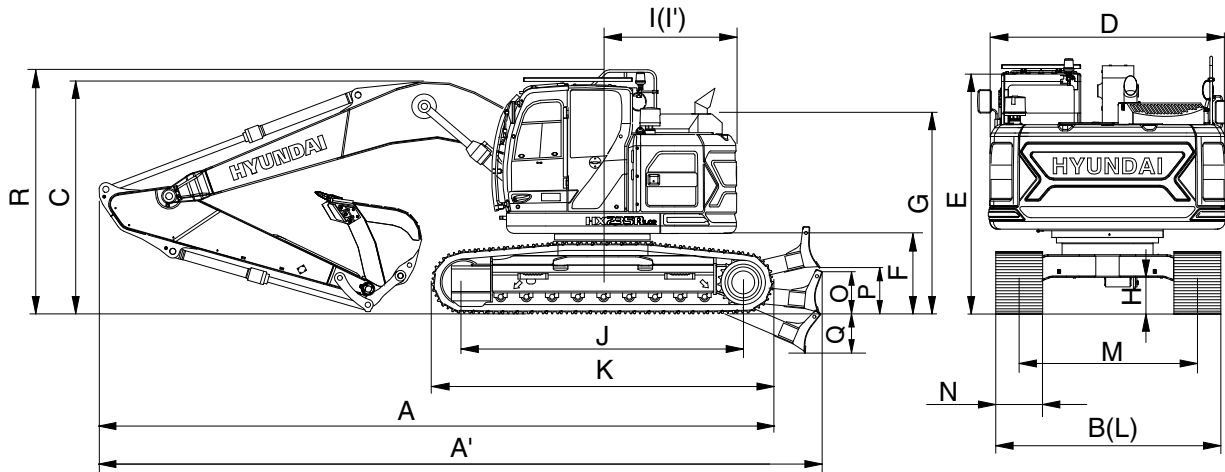
1) HX235A LCR, MONO BOOM, WITHOUT DOZER



235A2SP02

Description	Unit		Specification		
	m (ft-in)	Boom	5.68 (18' 8")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
	mm (in)	Shoe	600 (24)		
Operating weight	kg (lb)	24480 (53970)	24320 (53620)	24390 (53770)	
Bucket capacity (SAE heaped) standard	m ³ (yd ³)	0.8 (1.04)	0.8 (1.04)	0.8 (1.04)	
Overall length	A	8910 (29' 3")	9030 (29' 8")	8940 (29' 4")	
Overall width	B	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Overall height of boom	C	2960 (9' 9")	3130 (10' 3")	3040 (10' 0")	
Superstructure width	D	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E	3080 (10' 1")	3080 (10' 1")	3080 (10' 1")	
Ground clearance of counterweight	F	1060 (3' 6")	1060 (3' 6")	1060 (3' 6")	
Overall height of engine hood	G	2680 (8' 10")	2680 (8' 10")	2680 (8' 10")	
Overall height of handrail	G'	3270 (10' 9")	3270 (10' 9")	3270 (10' 9")	
Minimum ground clearance	H	480 (1' 7")	480 (1' 7")	480 (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 tumbler	J	3640 (11' 11")	3640 (11' 11")	3640 (11' 11")	
Undercarriage length	K	4440 (14' 7")	4440 (14' 7")	4440 (14' 7")	
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 (2' 0")	600 (2' 0")	600 (2' 0")	
Travel speed (low/high)	km/hr (mph)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	
Swing speed	rpm	12.69	12.69	12.69	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm ² (psi)	0.52 (7.41)	0.52 (7.36)	0.52 (7.38)	
Max traction force	kg (lb)	21100 (46517)	21100 (46517)	21100 (46517)	

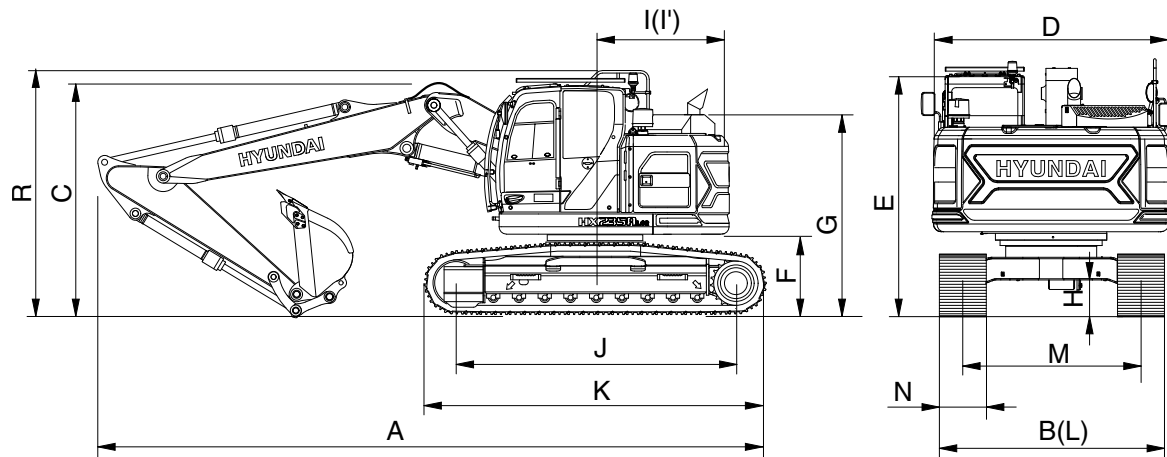
2) HX235A LCR, MONO BOOM, WITH DOZER



235A2SP03

Description	Unit		Specification		
	m (ft-in)	Boom	5.68 (18' 8")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
	mm (in)	Shoe	600 (24)		
Operating weight	kg (lb)		25950 (57210)	25790 (56860)	25860 (57010)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		0.80 (1.04)	0.80 (1.04)	0.80 (1.04)
Overall length	A	mm (ft-in)	9850 (32' 4")	9980 (32' 9")	9890 (32' 5")
Overall width	B		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C		2960 (9' 9")	3130 (10' 3")	3040 (10' 0")
Superstructure width	D		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E		3080 (10' 1")	3080 (10' 1")	3080 (10' 1")
Ground clearance of counterweight	F		1060 (3' 6")	1060 (3' 6")	1060 (3' 6")
Overall height of engine hood	G		2680 (8' 10")	2680 (8' 10")	2680 (8' 10")
Overall height of handrail	G'		3270 (10' 9")	3270 (10' 9")	3270 (10' 9")
Minimum ground clearance	H		480 (1' 7")	480 (1' 7")	480 (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		3640 (11' 11")	3640 (11' 11")	3640 (11' 11")
Undercarriage length	K		4440 (14' 7")	4440 (14' 7")	4440 (14' 7")
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 (2' 0")	600 (2' 0")	600 (2' 0")
Height of blade	O		739 (2' 5")	739 (2' 5")	739 (2' 5")
Ground clearance of blade up	P		550 (1' 10")	550 (1' 10")	550 (1' 10")
Depth of blade down	Q		413 (1' 4")	413 (1' 4")	413 (1' 4")
Travel speed (low/high)	km/hr (mph)			3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)
Swing speed	rpm		12.69	12.69	12.69
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm ² (psi)		0.55 (7.86)	0.55 (7.81)	0.55 (7.83)
Max traction force	kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)

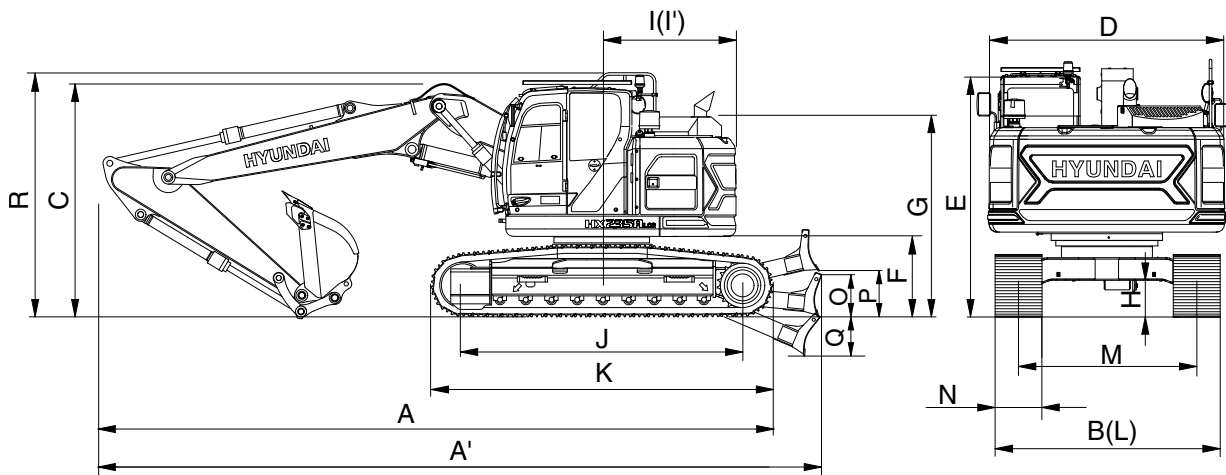
3) HX235A LCR, 2 PCS, WITHOUT DOZER



235A2SP04

Description	Unit		Specification		
	m (ft-in)	Boom	5.65 (18' 6")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)	25240 (55640)	25080 (55290)	25140 (55420)	
Bucket capacity (SAE heaped), standard	m ³ (yd ³)	0.80 (1.04)	0.80 (1.04)	0.80 (1.04)	
Overall length	A	8900 (29' 2")	8900 (29' 2")	8910 (29' 3")	
Overall width	B	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Overall height of boom	C	2990 (9' 10")	3040 (10' 0")	2990 (9' 10")	
Superstructure width	D	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E	3080 (10' 1")	3080 (10' 1")	3080 (10' 1")	
Ground clearance of counterweight	F	1060 (3' 6")	1060 (3' 6")	1060 (3' 6")	
Overall height of engine hood	G	2680 (8' 10")	2680 (8' 10")	2680 (8' 10")	
Overall height of handrail	G'	3270 (10' 9")	3270 (10' 9")	3270 (10' 9")	
Minimum ground clearance	H	480 (1' 7")	480 (1' 7")	480 (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	3640 (11' 11")	3640 (11' 11")	3640 (11' 11")	
Undercarriage length	K	4440 (14' 7")	4440 (14' 7")	4440 (14' 7")	
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 (2' 0")	600 (2' 0")	600 (2' 0")	
Travel speed (low/high)	km/hr (mph)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	
Swing speed	rpm	12.69	12.69	12.69	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm ² (psi)	0.54 (7.64)	0.53 (7.59)	0.54 (7.61)	
Max traction force	kg (lb)	21100 (46517)	21100 (46517)	21100 (46517)	

4) HX235A LCR, 2 PCS, WITH DOZER

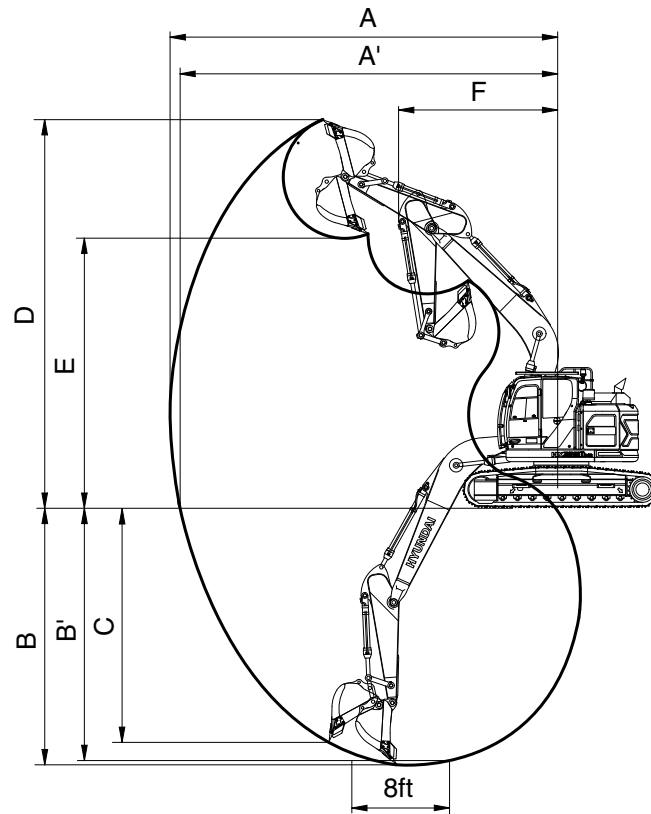


235A2SP05

Description	Unit		Specification		
	m (ft-in)	Boom	5.65 (18' 6")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)	26700 (58860)	26530 (58490)	26600 (58640)	
Bucket capacity (SAE heaped), standard	m ³ (yd ³)	0.80 (1.04)	0.80 (1.04)	0.80 (1.04)	
Overall length	A	9840 (32' 3")	9940 (32' 7")	9860 (32' 4")	
Overall width	B	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Overall height of boom	C	2990 (9' 10")	3040 (10' 0")	2990 (9' 10")	
Superstructure width	D	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E	3080 (10' 1")	3080 (10' 1")	3080 (10' 1")	
Ground clearance of counterweight	F	1060 (3' 6")	1060 (3' 6")	1060 (3' 6")	
Overall height of engine hood	G	2680 (8' 10")	2680 (8' 10")	2680 (8' 10")	
Overall height of handrail	G'	3270 (10' 9")	3270 (10' 9")	3270 (10' 9")	
Minimum ground clearance	H	480 (1' 7")	480 (1' 7")	480 (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	3640 (11' 11")	3640 (11' 11")	3640 (11' 11")	
Undercarriage length	K	4440 (14' 7")	4440 (14' 7")	4440 (14' 7")	
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 (2' 0")	600 (2' 0")	600 (2' 0")	
Height of blade	O	739 (2' 5")	739 (2' 5")	739 (2' 5")	
Ground clearance of blade up	P	550 (1' 10")	550 (1' 10")	550 (1' 10")	
Depth of blade down	Q	413 (1' 4")	413 (1' 4")	413 (1' 4")	
Travel speed (low/high)	km/hr (mph)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	3.5/5.5 (2.2/3.4)	
Swing speed	rpm	12.69	12.69	12.69	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm ² (psi)	0.57 (8.08)	0.56 (8.03)	0.57 (8.05)	
Max traction force	kg (lb)	21100 (46517)	21100 (46517)	21100 (46517)	

3. WORKING RANGE

1) HX235A LCR, MONO BOOM

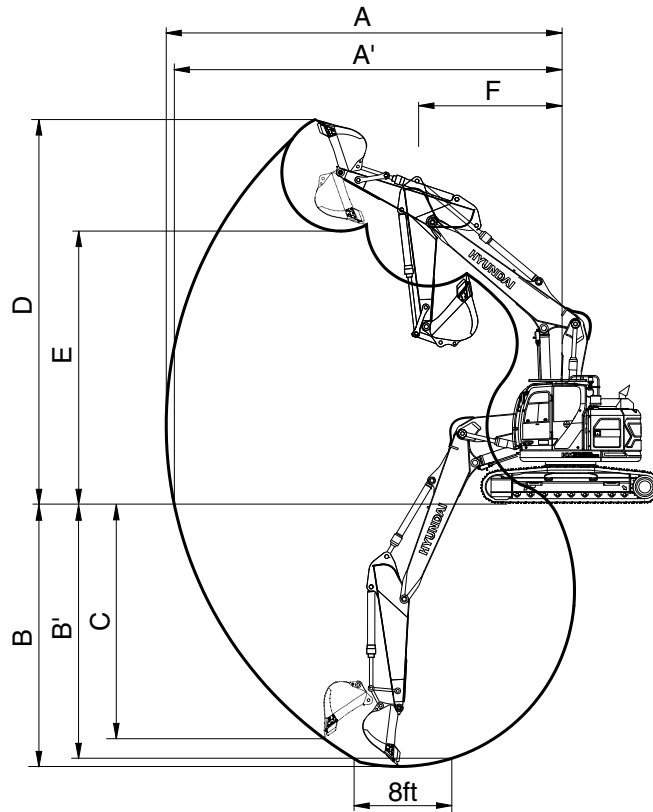


235A2SP06

Description	m (ft-in)	Boom	5.68 (18' 8")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
Max digging reach	mm (ft-in)	A	9910 (32' 6")	9040 (29' 8")	9430 (30' 11")
Max digging reach on ground		A'	9750 (32' 0")	8860 (29' 1")	9260 (30' 5")
Max digging depth		B	6670 (21' 11")	5750 (18' 10")	6150 (20' 2")
Max digging depth (8 ft level)		B'	6490 (21' 4")	5490 (18' 0")	5940 (19' 6")
Max vertical wall digging depth		C	6090 (20' 0")	5120 (16' 10")	5570 (18' 3")
Max digging height		D	10820 (35' 6")	10130 (33' 3")	10460 (34' 4")
Max dumping height		E	7900 (25' 11")	7220 (23' 8")	7540 (24' 9")
Min swing radius		F	2350 (7' 9")	2860 (9' 5")	2550 (8' 4")
Bucket digging force	kN	SAE	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]
	kgf		13600 [14770]	13600 [14770]	13600 [14770]
	lbf		29980 [32560]	29980 [32560]	29980 [32560]
	kN	ISO	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]
	kgf		15500 [16830]	15500 [16830]	15500 [16830]
	lbf		34170 [37100]	34170 [37100]	34170 [37100]
Arm digging force	kN	SAE	102.0 [110.7]	144.2 [156.5]	119.6 [129.9]
	kgf		10400 [11290]	14700 [15960]	12200 [13250]
	lbf		22930 [24890]	32410 [35190]	26900 [29210]
	kN	ISO	106.9 [116.0]	151.0 [164.0]	125.5 [136.3]
	kgf		10900 [11830]	15400 [16720]	12800 [13900]
	lbf		24030 [26080]	33950 [36860]	28220 [30640]

[] : Power boost

2) HX235A LCR, 2-PIECE BOOM



235A2SP07

Description	m (ft-in)	Boom	5.65 (18' 6")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
Max digging reach	mm (ft-in)	A	10020 (32' 10")	9050 (29' 8")	9460 (31' 0")
Max digging reach on ground		A'	9860 (32' 4")	8880 (29' 2")	9290 (30' 6")
Max digging depth		B	6380 (20' 11")	5460 (17' 11")	5860 (19' 3")
Max digging depth (8 ft level)		B'	6270 (20' 7")	5340 (17' 6")	5750 (18' 10")
Max vertical wall digging depth		C	5520 (18' 1")	4530 (14' 10")	4970 (16' 4")
Max digging height		D	11470 (37' 8")	10600 (34' 9")	10990 (36' 1")
Max dumping height		E	8540 (28' 0")	7680 (25' 2")	8090 (26' 7")
Min swing radius		F	2000 (6' 7")	2130 (7' 0")	2030 (6' 8")
Bucket digging force	kN		133.4 [144.8]	133.4 [144.8]	133.4 [144.8]
	kgf	SAE	13600 [14770]	13600 [14770]	13600 [14770]
	lbf		29980 [32560]	29980 [32560]	29980 [32560]
	kN	ISO	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]
	kgf		15500 [16830]	15500 [16830]	15500 [16830]
	lbf		34170 [37100]	34170 [37100]	34170 [37100]
Arm digging force	kN		102.0 [110.7]	144.2 [156.5]	119.6 [129.9]
	kgf	SAE	10400 [11290]	14700 [15960]	12200 [13250]
	lbf		22930 [24890]	32410 [35190]	26900 [29210]
	kN	ISO	106.9 [116.0]	151.0 [164.0]	125.5 [136.3]
	kgf		10900 [11830]	15400 [16720]	12800 [13900]
	lbf		24030 [26080]	33950 [36860]	28220 [30640]

[] : Power boost

4. WEIGHT

Item	HX235A LCR	
	kg	lb
Upperstructure assembly		
· Main frame weld assembly	2060	4540
· Engine assembly	580	1280
· Aftertreatment assy	70	150
· Main pump assembly	140	310
· Main control valve assembly	230	510
· Swing motor assembly	180	400
· Fuel&HYD Tank Assy	430	950
· Counterweight	5300	11680
· Cab assembly	480	1060
Lower chassis assembly		
· Track frame weld assembly	2590	5710
· Swing bearing	441	970
· Travel motor assembly (2EA)	610	1340
· Turning joint	60	130
· Sprocket (2EA)	112	250
· Track recoil spring (2EA)	283	620
· Idler (2EA)	308	680
· Carrier roller (2EA)	82	180
· Track roller (18EA)	675	1490
· Dozer blade (600mm T/C base)	930	2050
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	2894	5980
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	3178	7020
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	3460	7650
Front attachment assembly		
· 5.68 m boom assembly	1530	3370
· 2.92 m arm assembly	760	1680
· 0.80 m ³ SAE heaped bucket	820	1810
· 4.70 m boom assembly	1400	3090
· 2pc boom assembly	1920	4230
· 2.00 m arm assembly	600	1320
· 2.40 m arm assembly	670	1480
· Boom cylinder assembly (2EA)	400	880
· Arm cylinder assembly	270	600
· Bucket cylinder assembly	160	350
· Bucket control linkage total	200	440

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

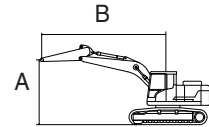
※ Refer to Transportation for actual weight information and Specifications for operating weight.












5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2000	5300	600	-	-	-	-	-

·  : 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
												
7.5 m (24.6 ft)	kg lb			*5910 *13030	*5910 *13030					*5940 *13100	*5940 *13100	4.93 (16.2)
6.0 m (19.7 ft)	kg lb			*5980 *13180	*5980 *13180	*5520 *12170	4980 10980			*5530 *12190	4600 10140	6.28 (20.6)
4.5 m (14.8 ft)	kg lb			*6990 *15410	*6990 *15410	*5780 *12740	4860 10710			*5410 *11930	3750 8270	7.07 (23.2)
3.0 m (9.8 ft)	kg lb			*8390 *18500	7010 15450	*6330 *13960	4650 10250			*5410 *11930	3360 7410	7.48 (24.5)
1.5 m (4.9 ft)	kg lb					*6820 *15040	4460 9830	5310 11710	3270 7210	5240 11550	3220 7100	7.57 (24.8)
0.0 m (0.0 ft)	kg lb			*9410 *20750	6480 14290	*6980 *15390	4340 9570			5410 11930	3310 7300	7.36 (24.1)
-1.5 m (-4.9 ft)	kg lb			*8790 *19380	6490 14310	*6610 *14570	4330 9550			*5560 *12260	3680 8110	6.81 (22.3)
-3.0 m (-9.8 ft)	kg lb	*9470 *20880	*9470 *20880	*7370 *16250	6630 14620					*5390 *11880	4630 10210	5.83 (19.1)
-4.5 m (-14.8 ft)	kg lb											

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

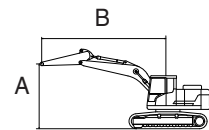
Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2400	5300	600	-	-	-	-	-

·  : 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									*6690	*6690	3.26
	lb									*14750	*14750	(10.7)
7.5 m (24.6 ft)	kg		*5320	*5320						*5080	*5080	5.52
	lb		*11730	*11730						*11200	*11200	(18.1)
6.0 m (19.7 ft)	kg		*5510	*5510	*5130	5040				*4620	4120	6.75
	lb		*12150	*12150	*11310	11110				*10190	9080	(22.1)
4.5 m (14.8 ft)	kg	*9060	*9060	*6520	*6520	*5480	4890			*4490	3420	7.49
	lb	*19970	*19970	*14370	*14370	*12080	10780			*9900	7540	(24.6)
3.0 m (9.8 ft)	kg		*7970	7100	*6080	4670	*5190	3340		*4580	3090	7.87
	lb		*17570	15650	*13400	10300	*11440	7360		*10100	6810	(25.8)
1.5 m (4.9 ft)	kg		*9100	6650	*6650	4450	5290	3250		4850	2980	7.96
	lb		*20060	14660	*14660	9810	11660	7170		10690	6570	(26.1)
0.0 m (0.0 ft)	kg		*9410	6450	*6920	4310	5220	3180		4980	3040	7.76
	lb		*20750	14220	*15260	9500	11510	7010		10980	6700	(25.4)
-1.5 m (-4.9 ft)	kg	*11240	*11240	*8990	6420	*6710	4270			*5250	3340	7.24
	lb	*24780	*24780	*19820	14150	*14790	9410			*11570	7360	(23.8)
-3.0 m (-9.8 ft)	kg	*10430	*10430	*7820	6520	*5700	4360			*5170	4070	6.33
	lb	*22990	*22990	*17240	14370	*12570	9610			*11400	8970	(20.8)
-4.5 m (-14.8 ft)	kg			*5130	*5130					*4560	*4560	4.81
	lb			*11310	*11310					*10050	*10050	(15.8)

Note 1. Lifting capacity are based on ISO 10567.

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

※ 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.

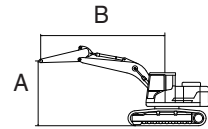
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	5300	600	-	-	-	-	-



: 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											*4150	*4150	4.32
	lb											*9150	*9150	(14.2)
7.5 m (24.6 ft)	kg					*4610	*4610	*4230	*4230			*3370	*3370	6.20
	lb					*10160	*10160	*9330	*9330			*7430	*7430	(20.3)
6.0 m (19.7 ft)	kg					*4880	*4880	*4640	*4640			*3100	*3100	7.31
	lb					*10760	*10760	*10230	*10230			*6830	*6830	(24.0)
4.5 m (14.8 ft)	kg			*7640	*7640	*5880	*5880	*5060	4940	*4650	3440	*3020	*3020	8.00
	lb			*16840	*16840	*12960	*12960	*11160	10890	*10250	7580	*6660	*6660	(26.2)
3.0 m (9.8 ft)	kg					*7360	7220	*5720	4700	*4910	3340	*3080	2790	8.36
	lb					*16230	15920	*12610	10360	*10820	7360	*6790	6150	(27.4)
1.5 m (4.9 ft)	kg					*8690	6710	*6380	4450	*5210	3220	*3250	2690	8.44
	lb					*19160	14790	*14070	9810	*11490	7100	*7170	5930	(27.7)
0.0 m (0.0 ft)	kg			*6320	*6320	*9290	6420	*6790	4280	5170	3130	*3590	2740	8.25
	lb			*13930	*13930	*20480	14150	*14970	9440	11400	6900	*7910	6040	(27.1)
-1.5 m (-4.9 ft)	kg	*6580	*6580	*10750	*10750	*9140	6330	*6760	4200	5140	3100	*4210	2970	7.77
	lb	*14510	*14510	*23700	*23700	*20150	13960	*14900	9260	11330	6830	*9280	6550	(25.5)
-3.0 m (-9.8 ft)	kg	*11250	*11250	*11470	*11470	*8270	6390	*6120	4230			*4900	3510	6.93
	lb	*24800	*24800	*25290	*25290	*18230	14090	*13490	9330			*10800	7740	(22.7)
-4.5 m (-14.8 ft)	kg			*8610	*8610	*6290	*6290					*4630	*4630	5.58
	lb			*18980	*18980	*13870	*13870					*10210	*10210	(18.3)

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.

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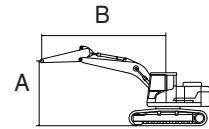
Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX235A LCR	MONO BOOM	5680	2000	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)	
7.5 m (24.6 ft)	kg			*5910	*5910					*5940	*5940	4.93
	lb			*13030	*13030					*13100	*13100	(16.2)
6.0 m (19.7 ft)	kg			*5980	*5980	*5520	*5520			*5530	5190	6.28
	lb			*13180	*13180	*12170	*12170			*12190	11440	(20.6)
4.5 m (14.8 ft)	kg			*6990	*6990	*5780	5480			*5410	4240	7.07
	lb			*15410	*15410	*12740	12080			*11930	9350	(23.2)
3.0 m (9.8 ft)	kg			*8390	7970	*6330	5270			*5410	3810	7.48
	lb			*18500	17570	*13960	11620			*11930	8400	(24.5)
1.5 m (4.9 ft)	kg					*6820	5070	*5510	3720	*5470	3670	7.57
	lb					*15040	11180	*12150	8200	*12060	8090	(24.8)
0.0 m (0.0 ft)	kg			*9410	7430	*6980	4960			*5530	3780	7.36
	lb			*20750	16380	*15390	10930			*12190	8330	(24.1)
-1.5 m (-4.9 ft)	kg			*8790	7440	*6610	4950			*5560	4200	6.81
	lb			*19380	16400	*14570	10910			*12260	9260	(22.3)
-3.0 m (-9.8 ft)	kg	*9470	*9470	*7370	*7370					*5390	5280	5.83
	lb	*20880	*20880	*16250	*16250					*11880	11640	(19.1)
-4.5 m (-14.8 ft)	kg											
	lb											

Note 1. Lifting capacity are based on ISO 10567.

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

※ Lifting capacities are based upon a standard machine conditions.

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

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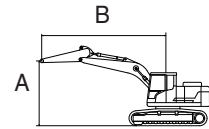
Failure to comply to the rated load can cause possible personal injury or property damage.












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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX235A LCR	MONO BOOM	5680	2000	5300	600	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												
7.5 m (24.6 ft)	kg lb			*5910 *13030	*5910 *13030					*5940 *13100	*5940 *13100	4.93 (16.2)
6.0 m (19.7 ft)	kg lb			*5980 *13180	*5980 *13180	*5520 *12170	5280 11640			*5530 *12190	4890 10780	6.28 (20.6)
4.5 m (14.8 ft)	kg lb			*6990 *15410	*6990 *15410	*5780 *12740	5160 11380			*5410 *11930	3990 8800	7.07 (23.2)
3.0 m (9.8 ft)	kg lb			*8390 *18500	7450 16420	*6330 *13960	4950 10910			*5410 *11930	3580 7890	7.48 (24.5)
1.5 m (4.9 ft)	kg lb					*6820 *15040	4760 10490	5310 11710	3490 7690	5240 11550	3450 7610	7.57 (24.8)
0.0 m (0.0 ft)	kg lb			*9410 *20750	6920 15260	*6980 *15390	4640 10230			5410 11930	3540 7800	7.36 (24.1)
-1.5 m (-4.9 ft)	kg lb			*8790 *19380	6930 15280	*6610 *14570	4630 10210			*5560 *12260	3940 8690	6.81 (22.3)
-3.0 m (-9.8 ft)	kg lb	*9470 *20880	*9470 *20880	*7370 *16250	7070 15590					*5390 *11880	4950 10910	5.83 (19.1)
-4.5 m (-14.8 ft)	kg lb											

Note 1. Lifting capacity are based on ISO 10567.

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- *Indicates load limited by hydraulic capacity.

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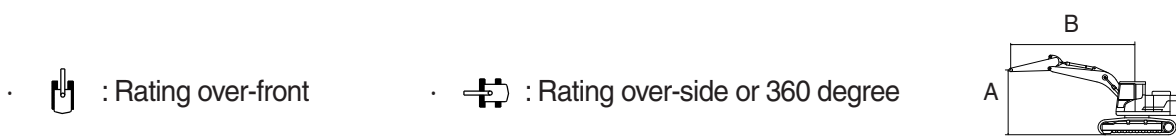
The difference between the weight of a work tool attachment must be subtracted.











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	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX235A LCR	MONO BOOM	5680	2400	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)	
9.0 m (29.5 ft)	kg									*6690	*6690	3.26
	lb									*14750	*14750	(10.7)
7.5 m (24.6 ft)	kg			*5320	*5320					*5080	*5080	5.52
	lb			*11730	*11730					*11200	*11200	(18.1)
6.0 m (19.7 ft)	kg			*5510	*5510	*5130	*5130			*4620	*4620	6.75
	lb			*12150	*12150	*11310	*11310			*10190	*10190	(22.1)
4.5 m (14.8 ft)	kg	*9060	*9060	*6520	*6520	*5480	*5480			*4490	3880	7.49
	lb	*19970	*19970	*14370	*14370	*12080	*12080			*9900	8550	(24.6)
3.0 m (9.8 ft)	kg			*7970	*7970	*6080	5290	*5190	3800	*4580	3520	7.87
	lb			*17570	*17570	*13400	11660	*11440	8380	*10100	7760	(25.8)
1.5 m (4.9 ft)	kg			*9100	7610	*6650	5070	*5400	3700	*4870	3400	7.96
	lb			*20060	16780	*14660	11180	*11900	8160	*10740	7500	(26.1)
0.0 m (0.0 ft)	kg			*9410	7400	*6920	4930	*5430	3640	*5200	3480	7.76
	lb			*20750	16310	*15260	10870	*11970	8020	*11460	7670	(25.4)
-1.5 m (-4.9 ft)	kg	*11240	*11240	*8990	7370	*6710	4890			*5250	3820	7.24
	lb	*24780	*24780	*19820	16250	*14790	10780			*11570	8420	(23.8)
-3.0 m (-9.8 ft)	kg	*10430	*10430	*7820	7480	*5700	4970			*5170	4640	6.33
	lb	*22990	*22990	*17240	16490	*12570	10960			*11400	10230	(20.8)
-4.5 m (-14.8 ft)	kg			*5130	*5130					*4560	*4560	4.81
	lb			*11310	*11310					*10050	*10050	(15.8)

- Note
- Lifting capacity are based on ISO 10567.
 - Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
 - The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
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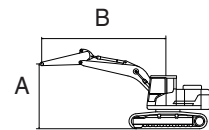
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Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX235A LCR	MONO BOOM	5680	2400	5300	600	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)								At max. reach			
	3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach	
											m (ft)	
9.0 m (29.5 ft)	kg									*6690	*6690	3.26
	lb									*14750	*14750	(10.7)
7.5 m (24.6 ft)	kg		*5320	*5320						*5080	*5080	5.52
	lb		*11730	*11730						*11200	*11200	(18.1)
6.0 m (19.7 ft)	kg		*5510	*5510	*5130	*5130				*4620	4380	6.75
	lb		*12150	*12150	*11310	*11310				*10190	9660	(22.1)
4.5 m (14.8 ft)	kg	*9060	*9060	*6520	*6520	*5480	5190			*4490	3650	7.49
	lb	*19970	*19970	*14370	*14370	*12080	11440			*9900	8050	(24.6)
3.0 m (9.8 ft)	kg		*7970	7540	*6080	4970	*5190	3570		*4580	3310	7.87
	lb		*17570	16620	*13400	10960	*11440	7870		*10100	7300	(25.8)
1.5 m (4.9 ft)	kg		*9100	7090	*6650	4750	5290	3470		4850	3190	7.96
	lb		*20060	15630	*14660	10470	11660	7650		10690	7030	(26.1)
0.0 m (0.0 ft)	kg		*9410	6890	*6920	4610	5220	3410		4980	3260	7.76
	lb		*20750	15190	*15260	10160	11510	7520		10980	7190	(25.4)
-1.5 m (-4.9 ft)	kg	*11240	*11240	*8990	6860	*6710	4570			*5250	3580	7.24
	lb	*24780	*24780	*19820	15120	*14790	10080			*11570	7890	(23.8)
-3.0 m (-9.8 ft)	kg	*10430	*10430	*7820	6960	*5700	4660			*5170	4350	6.33
	lb	*22990	*22990	*17240	15340	*12570	10270			*11400	9590	(20.8)
-4.5 m (-14.8 ft)	kg		*5130	*5130						*4560	*4560	4.81
	lb		*11310	*11310						*10050	*10050	(15.8)

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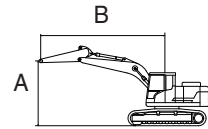
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX235A LCR	MONO BOOM	5680	2920	5300	600	-	Down	-	-	-



: 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	
													m (ft)	
9.0 m (29.5 ft)	kg											*4150	*4150	4.32
	lb											*9150	*9150	(14.2)
7.5 m (24.6 ft)	kg					*4610	*4610	*4230	*4230			*3370	*3370	6.20
	lb					*10160	*10160	*9330	*9330			*7430	*7430	(20.3)
6.0 m (19.7 ft)	kg					*4880	*4880	*4640	*4640			*3100	*3100	7.31
	lb					*10760	*10760	*10230	*10230			*6830	*6830	(24.0)
4.5 m (14.8 ft)	kg			*7640	*7640	*5880	*5880	*5060	*5060	*4650	3900	*3020	*3020	8.00
	lb			*16840	*16840	*12960	*12960	*11160	*11160	*10250	8600	*6660	*6660	(26.2)
3.0 m (9.8 ft)	kg					*7360	*7360	*5720	5320	*4910	3790	*3080	*3080	8.36
	lb					*16230	*16230	*12610	11730	*10820	8360	*6790	*6790	(27.4)
1.5 m (4.9 ft)	kg					*8690	7660	*6380	5070	*5210	3680	*3250	3080	8.44
	lb					*19160	16890	*14070	11180	*11490	8110	*7170	6790	(27.7)
0.0 m (0.0 ft)	kg			*6320	*6320	*9290	7370	*6790	4890	*5370	3590	*3590	3140	8.25
	lb			*13930	*13930	*20480	16250	*14970	10780	*11840	7910	*7910	6920	(27.1)
-1.5 m (-4.9 ft)	kg	*6580	*6580	*10750	*10750	*9140	7280	*6760	4820	*5180	3560	*4210	3400	7.77
	lb	*14510	*14510	*23700	*23700	*20150	16050	*14900	10630	*11420	7850	*9280	7500	(25.5)
-3.0 m (-9.8 ft)	kg	*11250	*11250	*11470	*11470	*8270	7340	*6120	4850			*4900	4010	6.93
	lb	*24800	*24800	*25290	*25290	*18230	16180	*13490	10690			*10800	8840	(22.7)
-4.5 m (-14.8 ft)	kg			*8610	*8610	*6290	*6290					*4630	*4630	5.58
	lb			*18980	*18980	*13870	*13870					*10210	*10210	(18.3)

Note 1. Lifting capacity are based on ISO 10567.

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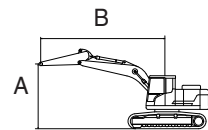
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX235A LCR	MONO BOOM	5680	2920	5300	600	-	Up	-	-	-



: 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)	
9.0 m (29.5 ft)	kg											*4150	*4150	4.32
	lb											*9150	*9150	(14.2)
7.5 m (24.6 ft)	kg					*4610	*4610	*4230	*4230			*3370	*3370	6.20
	lb					*10160	*10160	*9330	*9330			*7430	*7430	(20.3)
6.0 m (19.7 ft)	kg					*4880	*4880	*4640	*4640			*3100	*3100	7.31
	lb					*10760	*10760	*10230	*10230			*6830	*6830	(24.0)
4.5 m (14.8 ft)	kg			*7640	*7640	*5880	*5880	*5060	*5060	*4650	3670	*3020	*3020	8.00
	lb			*16840	*16840	*12960	*12960	*11160	*11160	*10250	8090	*6660	*6660	(26.2)
3.0 m (9.8 ft)	kg					*7360	*7360	*5720	5000	*4910	3570	*3080	2990	8.36
	lb					*16230	*16230	*12610	11020	*10820	7870	*6790	6590	(27.4)
1.5 m (4.9 ft)	kg					*8690	7150	*6380	4750	*5210	3450	*3250	2890	8.44
	lb					*19160	15760	*14070	10470	*11490	7610	*7170	6370	(27.7)
0.0 m (0.0 ft)	kg			*6320	*6320	*9290	6860	*6790	4580	5170	3360	*3590	2940	8.25
	lb			*13930	*13930	*20480	15120	*14970	10100	11400	7410	*7910	6480	(27.1)
-1.5 m (-4.9 ft)	kg	*6580	*6580	*10750	*10750	*9140	6770	*6760	4500	5140	3330	*4210	3190	7.77
	lb	*14510	*14510	*23700	*23700	*20150	14930	*14900	9920	11330	7340	*9280	7030	(25.5)
-3.0 m (-9.8 ft)	kg	*11250	*11250	*11470	*11470	*8270	6830	*6120	4530			*4900	3760	6.93
	lb	*24800	*24800	*25290	*25290	*18230	15060	*13490	9990			*10800	8290	(22.7)
-4.5 m (-14.8 ft)	kg			*8610	*8610	*6290	*6290					*4630	*4630	5.58
	lb			*18980	*18980	*13870	*13870					*10210	*10210	(18.3)

Note 1. Lifting capacity are based on ISO 10567.

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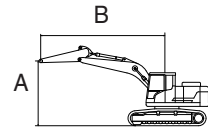
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX235A LCR	MONO BOOM	5680	2920	5300	800	-	-	-	-	-



: 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)	
9.0 m (29.5 ft)	kg											*4150	*4150	4.32
	lb											*9150	*9150	(14.2)
7.5 m (24.6 ft)	kg					*4610	*4610	*4230	*4230			*3370	*3370	6.20
	lb					*10160	*10160	*9330	*9330			*7430	*7430	(20.3)
6.0 m (19.7 ft)	kg					*4880	*4880	*4640	*4640			*3100	*3100	7.31
	lb					*10760	*10760	*10230	*10230			*6830	*6830	(24.0)
4.5 m (14.8 ft)	kg			*7640	*7640	*5880	*5880	*5060	*5060	*4650	3540	*3020	*3020	8.00
	lb			*16840	*16840	*12960	*12960	*11160	*11160	*10250	7800	*6660	*6660	(26.2)
3.0 m (9.8 ft)	kg					*7360	*7360	*5720	4820	*4910	3430	*3080	2880	8.36
	lb					*16230	*16230	*12610	10630	*10820	7560	*6790	6350	(27.4)
1.5 m (4.9 ft)	kg					*8690	6890	*6380	4580	*5210	3320	*3250	2770	8.44
	lb					*19160	15190	*14070	10100	*11490	7320	*7170	6110	(27.7)
0.0 m (0.0 ft)	kg			*6320	*6320	*9290	6600	*6790	4400	5320	3230	*3590	2820	8.25
	lb			*13930	*13930	*20480	14550	*14970	9700	11730	7120	*7910	6220	(27.1)
-1.5 m (-4.9 ft)	kg	*6580	*6580	*10750	*10750	*9140	6520	*6760	4330	*5180	3200	*4210	3060	7.77
	lb	*14510	*14510	*23700	*23700	*20150	14370	*14900	9550	*11420	7050	*9280	6750	(25.5)
-3.0 m (-9.8 ft)	kg	*11250	*11250	*11470	*11470	*8270	6570	*6120	4360			*4900	3620	6.93
	lb	*24800	*24800	*25290	*25290	*18230	14480	*13490	9610			*10800	7980	(22.7)
-4.5 m (-14.8 ft)	kg			*8610	*8610	*6290	*6290					*4630	*4630	5.58
	lb			*18980	*18980	*13870	*13870					*10210	*10210	(18.3)

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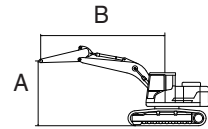
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2000	5300	600	-	-	-	-	-



: 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	*14220 *31350	*14220 *31350									*12400 *27340	*12400 *27340	2.15 (7.1)
7.5 m (24.6 ft)	kg lb			*8790 *19380	*8790 *19380	*6930 *15280	*6930 *15280					*6640 *14640	*6640 *14640	4.96 (16.3)
6.0 m (19.7 ft)	kg lb			*9450 *20830	*9450 *20830	*6960 *15340	*6960 *15340	*5570 *12280	5110 11270			*5430 *11970	4690 10340	6.30 (20.7)
4.5 m (14.8 ft)	kg lb					*7950 *17530	7780 17150	*5760 *12700	4990 11000			*4950 *10910	3800 8380	7.09 (23.2)
3.0 m (9.8 ft)	kg lb					*9290 *20480	7180 15830	*6310 *13910	4750 10470			*4800 *10580	3400 7500	7.49 (24.6)
1.5 m (4.9 ft)	kg lb							*6870 *15150	4540 10010	*4960 *10930	3320 7320	*4890 *10780	3270 7210	7.58 (24.9)
0.0 m (0.0 ft)	kg lb					*8240 *18170	6590 14530	*6330 *13960	4420 9740			*4580 *10100	3360 7410	7.37 (24.2)
-1.5 m (-4.9 ft)	kg lb					*6520 *14370	*6520 *14370	*5060 *11160	4410 9720			*3850 *8490	3750 8270	6.83 (22.4)
-3.0 m (-9.8 ft)	kg lb													

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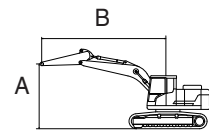
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






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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2400	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			*7900 *17420	*7900 *17420									*6590 *14530	*6590 *14530	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*7890 *17390	*7890 *17390	*6450 *14220	*6450 *14220							*4880 *10760	*4880 *10760	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*7600 *16760	*7600 *16760	*6570 *14480	*6570 *14480	*5250 *11570	5190 11440					*4360 *9610	4180 9220	6.78 (22.2)
4.5 m (14.8 ft)	kg lb			*11890 *26210	*11890 *26210	*7440 *16400	*7440 *16400	*5490 *12100	5030 11090	*4350 *9590	3480 7670			*4200 *9260	3470 7650	7.51 (24.6)
3.0 m (9.8 ft)	kg lb					*9080 *20020	7290 16070	*6040 *13320	4780 10540	*4580 *10100	3410 7520			*4230 *9330	3130 6900	7.90 (25.9)
1.5 m (4.9 ft)	kg lb					*9310 *20530	6780 14950	*6750 *14880	4540 10010	*4790 *10560	3300 7280			*4420 *9740	3010 6640	7.98 (26.2)
0.0 m (0.0 ft)	kg lb					*8590 *18940	6560 14460	*6470 *14260	4390 9680	*4760 *10490	3240 7140			*4340 *9570	3080 6790	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb			*7720 *17020	*7720 *17020	*7080 *15610	6540 14420	*5440 *11990	4350 9590					*3730 *8220	3400 7500	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb					*4700 *10360	*4700 *10360	*3300 *7280	*3300 *7280							

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.

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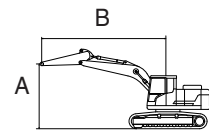
Failure to comply to the rated load can cause possible personal injury or property damage.















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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2920	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			*6690 *14750	*6690 *14750									*3930 *8660	*3930 *8660	4.40 (14.4)
7.5 m (24.6 ft)	kg lb			*6080 *13400	*6080 *13400	*5960 *13140	*5960 *13140	*4360 *9610	*4360 *9610					*3130 *6900	*3130 *6900	6.25 (20.5)
6.0 m (19.7 ft)	kg lb			*5760 *12700	*5760 *12700	*6100 *13450	*6100 *13450	*4900 *10800	*4900 *10800					*2830 *6240	*2830 *6240	7.36 (24.1)
4.5 m (14.8 ft)	kg lb			*9130 *20130	*9130 *20130	*6830 *15060	*6830 *15060	*5160 *11380	5100 11240	*4170 *9190	3520 7760			*2730 *6020	*2730 *6020	8.04 (26.4)
3.0 m (9.8 ft)	kg lb					*8480 *18700	7440 16400	*5690 *12540	4820 10630	*4330 *9550	3410 7520			*2750 *6060	*2750 *6060	8.40 (27.6)
1.5 m (4.9 ft)	kg lb					*9250 *20390	6850 15100	*6400 *14110	4550 10030	*4580 *10100	3280 7230			*2870 *6330	2720 6000	8.48 (27.8)
0.0 m (0.0 ft)	kg lb			*6080 *13400	*6080 *13400	*8880 *19580	6530 14400	*6590 *14530	4350 9590	*4820 *10630	3190 7030			*3130 *6900	2770 6110	8.29 (27.2)
-1.5 m (-4.9 ft)	kg lb			*9500 *20940	*9500 *20940	*7660 *16890	6440 14200	*5800 *12790	4280 9440	*4090 *9020	3160 6970			*3590 *7910	3010 6640	7.81 (25.6)
-3.0 m (-9.8 ft)	kg lb			*6440 *14200	*6440 *14200	*5610 *12370	*5610 *12370	*4170 *9190	*4170 *9190					*2760 *6080	*2760 *6080	6.98 (22.9)

Note 1. Lifting capacity are based on ISO 10567.

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

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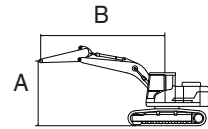
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2000	5300	600	-	Down	-	-	-



: 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
														m (ft)
9.0 m (29.5 ft)	kg lb	*14220 *31350	*14220 *31350									*12400 *27340	*12400 *27340	2.15 (7.1)
7.5 m (24.6 ft)	kg lb			*8790 *19380	*8790 *19380	*6930 *15280	*6930 *15280					*6640 *14640	*6640 *14640	4.96 (16.3)
6.0 m (19.7 ft)	kg lb			*9450 *20830	*9450 *20830	*6960 *15340	*6960 *15340	*5570 *12280	*5570 *12280			*5430 *11970	5280 11640	6.30 (20.7)
4.5 m (14.8 ft)	kg lb					*7950 *17530	*7950 *17530	*5760 *12700	5620 12390			*4950 *10910	4300 9480	7.09 (23.2)
3.0 m (9.8 ft)	kg lb					*9290 *20480	8150 17970	*6310 *13910	5380 11860			*4800 *10580	3860 8510	7.49 (24.6)
1.5 m (4.9 ft)	kg lb							*6870 *15150	5160 11380	*4960 *10930	3780 8330	*4890 *10780	3720 8200	7.58 (24.9)
0.0 m (0.0 ft)	kg lb					*8240 *18170	7550 16640	*6330 *13960	5040 11110			*4580 *10100	3830 8440	7.37 (24.2)
-1.5 m (-4.9 ft)	kg lb					*6520 *14370	*6520 *14370	*5060 *11160	5040 11110			*3850 *8490	*3850 *8490	6.83 (22.4)
-3.0 m (-9.8 ft)	kg lb													

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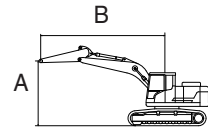
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2000	5300	600	-	Up	-	-	-



: 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)	
9.0 m (29.5 ft)	kg lb	*14220 *31350	*14220 *31350										*12400 *27340	*12400 *27340	2.15 (7.1)
7.5 m (24.6 ft)	kg lb			*8790 *19380	*8790 *19380	*6930 *15280	*6930 *15280						*6640 *14640	*6640 *14640	4.96 (16.3)
6.0 m (19.7 ft)	kg lb			*9450 *20830	*9450 *20830	*6960 *15340	*6960 *15340	*5570 *12280	5410 11930				*5430 *11970	4970 10960	6.30 (20.7)
4.5 m (14.8 ft)	kg lb					*7950 *17530	*7950 *17530	*5760 *12700	5290 11660				*4950 *10910	4050 8930	7.09 (23.2)
3.0 m (9.8 ft)	kg lb					*9290 *20480	7620 16800	*6310 *13910	5050 11130				*4800 *10580	3630 8000	7.49 (24.6)
1.5 m (4.9 ft)	kg lb							*6870 *15150	4840 10670	*4960 *10930	3550 7830		*4890 *10780	3490 7690	7.58 (24.9)
0.0 m (0.0 ft)	kg lb					*8240 *18170	7030 15500	*6330 *13960	4720 10410				*4580 *10100	3590 7910	7.37 (24.2)
-1.5 m (-4.9 ft)	kg lb					*6520 *14370	*6520 *14370	*5060 *11160	4710 10380				*3850 *8490	*3850 *8490	6.83 (22.4)
-3.0 m (-9.8 ft)	kg lb														

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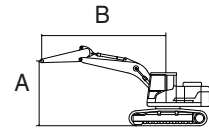
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2400	5300	600	-	Down	-	-	-



: 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
														m (ft)
9.0 m (29.5 ft)	kg lb			*7900 *17420	*7900 *17420							*6590 *14530	*6590 *14530	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*7890 *17390	*7890 *17390	*6450 *14220	*6450 *14220					*4880 *10760	*4880 *10760	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*7600 *16760	*7600 *16760	*6570 *14480	*6570 *14480	*5250 *11570	*5250 *11570			*4360 *9610	*4360 *9610	6.78 (22.2)
4.5 m (14.8 ft)	kg lb			*11890 *26210	*11890 *26210	*7440 *16400	*7440 *16400	*5490 *12100	*5490 *12100	*4350 *9590	3940 8690	*4200 *9260	3930 8660	7.51 (24.6)
3.0 m (9.8 ft)	kg lb					*9080 *20020	8270 18230	*6040 *13320	5410 11930	*4580 *10100	3870 8530	*4230 *9330	3560 7850	7.90 (25.9)
1.5 m (4.9 ft)	kg lb					*9310 *20530	7750 17090	*6750 *14880	5170 11400	*4790 *10560	3760 8290	*4420 *9740	3440 7580	7.98 (26.2)
0.0 m (0.0 ft)	kg lb					*8590 *18940	7520 16580	*6470 *14260	5010 11050	*4760 *10490	3700 8160	*4340 *9570	3520 7760	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb			*7720 *17020	*7720 *17020	*7080 *15610	*7080 *15610	*5440 *11990	4970 10960			*3730 *8220	*3730 *8220	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb					*4700 *10360	*4700 *10360	*3300 *7280	*3300 *7280					

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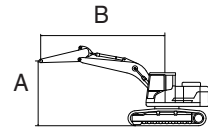
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2400	5300	600	-	Up	-	-	-



: 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)		
9.0 m (29.5 ft)	kg lb			*7900 *17420	*7900 *17420									*6590 *14530	*6590 *14530	3.32 (10.9)
7.5 m (24.6 ft)	kg lb			*7890 *17390	*7890 *17390	*6450 *14220	*6450 *14220							*4880 *10760	*4880 *10760	5.55 (18.2)
6.0 m (19.7 ft)	kg lb			*7600 *16760	*7600 *16760	*6570 *14480	*6570 *14480	*5250 *11570	*5250 *11570					*4360 *9610	*4360 *9610	6.78 (22.2)
4.5 m (14.8 ft)	kg lb			*11890 *26210	*11890 *26210	*7440 *16400	*7440 *16400	*5490 *12100	5330 11750	*4350 *9590	3710 8180			*4200 *9260	3690 8140	7.51 (24.6)
3.0 m (9.8 ft)	kg lb					*9080 *20020	7730 17040	*6040 *13320	5080 11200	*4580 *10100	3630 8000			*4230 *9330	3340 7360	7.90 (25.9)
1.5 m (4.9 ft)	kg lb					*9310 *20530	7220 15920	*6750 *14880	4840 10670	*4790 *10560	3530 7780			*4420 *9740	3220 7100	7.98 (26.2)
0.0 m (0.0 ft)	kg lb					*8590 *18940	7000 15430	*6470 *14260	4690 10340	*4760 *10490	3470 7650			*4340 *9570	3300 7280	7.78 (25.5)
-1.5 m (-4.9 ft)	kg lb			*7720 *17020	*7720 *17020	*7080 *15610	6980 15390	*5440 *11990	4650 10250					*3730 *8220	3630 8000	7.27 (23.8)
-3.0 m (-9.8 ft)	kg lb					*4700 *10360	*4700 *10360	*3300 *7280	*3300 *7280							

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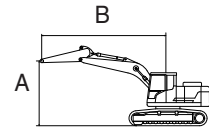
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2920	5300	600	-	Down	-	-	-



: 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		
														m (ft)		
9.0 m (29.5 ft)	kg lb			*6690 *14750	*6690 *14750									*3930 *8660	*3930 *8660	4.40 (14.4)
7.5 m (24.6 ft)	kg lb			*6080 *13400	*6080 *13400	*5960 *13140	*5960 *13140	*4360 *9610	*4360 *9610					*3130 *6900	*3130 *6900	6.25 (20.5)
6.0 m (19.7 ft)	kg lb			*5760 *12700	*5760 *12700	*6100 *13450	*6100 *13450	*4900 *10800	*4900 *10800					*2830 *6240	*2830 *6240	7.36 (24.1)
4.5 m (14.8 ft)	kg lb			*9130 *20130	*9130 *20130	*6830 *15060	*6830 *15060	*5160 *11380	*5160 *11380	*4170 *9190	3990 8800			*2730 *6020	*2730 *6020	8.04 (26.4)
3.0 m (9.8 ft)	kg lb					*8480 *18700	8420 18560	*5690 *12540	5450 12020	*4330 *9550	3880 8550			*2750 *6060	*2750 *6060	8.40 (27.6)
1.5 m (4.9 ft)	kg lb					*9250 *20390	7830 17260	*6400 *14110	5180 11420	*4580 *10100	3740 8250			*2870 *6330	*2870 *6330	8.48 (27.8)
0.0 m (0.0 ft)	kg lb			*6080 *13400	*6080 *13400	*8880 *19580	7500 16530	*6590 *14530	4980 10980	*4820 *10630	3650 8050			*3130 *6900	*3130 *6900	8.29 (27.2)
-1.5 m (-4.9 ft)	kg lb			*9500 *20940	*9500 *20940	*7660 *16890	7410 16340	*5800 *12790	4900 10800	*4090 *9020	3620 7980			*3590 *7910	3450 7610	7.81 (25.6)
-3.0 m (-9.8 ft)	kg lb			*6440 *14200	*6440 *14200	*5610 *12370	*5610 *12370	*4170 *9190	*4170 *9190					*2760 *6080	*2760 *6080	6.98 (22.9)

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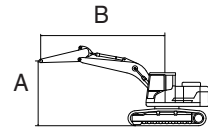
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX235A LCR	2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2920	5300	600	-	Up	-	-	-



: 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)		
9.0 m (29.5 ft)	kg lb			*6690 *14750	*6690 *14750									*3930 *8660	*3930 *8660	4.40 (14.4)
7.5 m (24.6 ft)	kg lb			*6080 *13400	*6080 *13400	*5960 *13140	*5960 *13140	*4360 *9610	*4360 *9610					*3130 *6900	*3130 *6900	6.25 (20.5)
6.0 m (19.7 ft)	kg lb			*5760 *12700	*5760 *12700	*6100 *13450	*6100 *13450	*4900 *10800	*4900 *10800					*2830 *6240	*2830 *6240	7.36 (24.1)
4.5 m (14.8 ft)	kg lb			*9130 *20130	*9130 *20130	*6830 *15060	*6830 *15060	*5160 *11380	*5160 *11380	*4170 *9190	3750 8270			*2730 *6020	*2730 *6020	8.04 (26.4)
3.0 m (9.8 ft)	kg lb					*8480 *18700	7880 17370	*5690 *12540	5120 11290	*4330 *9550	3640 8020			*2750 *6060	*2750 *6060	8.40 (27.6)
1.5 m (4.9 ft)	kg lb					*9250 *20390	7290 16070	*6400 *14110	4850 10690	*4580 *10100	3510 7740			*2870 *6330	*2870 *6330	8.48 (27.8)
0.0 m (0.0 ft)	kg lb			*6080 *13400	*6080 *13400	*8880 *19580	6970 15370	*6590 *14530	4660 10270	*4820 *10630	3410 7520			*3130 *6900	2970 6550	8.29 (27.2)
-1.5 m (-4.9 ft)	kg lb			*9500 *20940	*9500 *20940	*7660 *16890	6880 15170	*5800 *12790	4580 10100	*4090 *9020	3390 7470			*3590 *7910	3230 7120	7.81 (25.6)
-3.0 m (-9.8 ft)	kg lb			*6440 *14200	*6440 *14200	*5610 *12370	*5610 *12370	*4170 *9190	*4170 *9190					*2760 *6080	*2760 *6080	6.98 (22.9)

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.

6. BUCKET SELECTION GUIDE

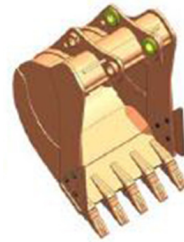
1) BUCKET SELECTION



General bucket



Heavy duty
(without side cutter)



Heavy duty
(with side cutter)

Type	Capacity		Width	Weight	Tooth	MONO			2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter			Recommendation mm (ft-in)					
						5.68 m (18' 8") Boom			5.65 m (18' 6") Boom		
	m ³ (yd ³)	m ³ (yd ³)	mm (in)			kg (lb)	EA	2.0 m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm	2.0 m (6' 7") Arm
General bucket	0.80 (1.05)	0.70 (0.92)	1,000 (39")	770 (1,700)	5	●	●	●	●	●	●
	0.87 (1.14)	0.75 (0.98)	1,090 (43")	805 (1,770)	5	●	●	●	●	●	●
	0.92 (1.20)	0.80 (1.05)	1,150 (45")	820 (1,810)	5	●	●	◐	●	●	◐
	1.34 (1.75)	1.15 (1.50)	1,550 (61")	990 (2,180)	6	■	■	▲	■	■	▲
Heavy duty	0.90 (1.18)	0.80 (1.05)	1,095 (43")	880 (1,940)	5	●	●	◐	●	●	◐
	★0.85 (1.11)	1.00 (1.31)	1,410 (56")	860 (1,900)	4	●	●	●	●	●	●
	★1.00 (1.31)	0.92 (1.20)	1,290 (51")	945 (2,080)	5	●	◐	◐	●	●	◐
	★1.15 (1.50)	0.75 (0.98)	1,140 (45")	1,030 (2,270)	6	◐	■	■	◐	■	■

- Applicable for materials with density of 2100 kg/m³ (3500 lb/yd³) or less
- ◐ Applicable for materials with density of 1800 kg/m³ (3000 lb/yd³) or less
- Applicable for materials with density of 1500 kg/m³ (2500 lb/yd³) or less
- ▲ Applicable for materials with density of 1200 kg/m³ (2000 lb/yd³) or less
- X Not recommended

★ Heavy duty (with side cutter)

※ 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) TYPES OF SHOES

Model	Description	Unit		Triple grouser							
		width	mm	(in)	600	(24)	700	(32)	800	(32)	900
HX235A LCR without dozer	Operating weight	kg	(lb)	24480	53970	24780	54630	25070	55270	22990	50680
	Ground pressure	kgf/cm ²	(psi)	0.47	6.68	0.41	5.83	0.36	5.12	0.33	4.65
	Overall width	mm	(ft-in)	2990	(9' 10")	3090	(10' 2")	3190	(10' 6")	3190	(10' 6")
	Link quantity	EA		49		49		49		49	
HX235A LCR with dozer	Operating weight	kg	(lb)	25980	57280	26280	57940	26570	58580	-	-
	Ground pressure	kgf/cm ²	(psi)	0.50	7.09	0.43	6.18	0.38	5.43	-	-
	Overall width	mm	(ft-in)	2990	(9' 10")	3090	(10' 2")	3190	(10' 6")	-	-
	Link quantity	EA		49		49		49		-	
HX235A LCR 2 pcs without dozer	Operating weight	kg	(lb)	25210	55580	25510	56240	25800	56880	-	-
	Ground pressure	kgf/cm ²	(psi)	0.48	6.88	0.42	6.00	0.37	5.27	-	-
	Overall width	mm	(ft-in)	2990	(9' 10")	3090	(10' 2")	3190	(10' 6")	-	-
	Link quantity	EA		49		49		49		-	
HX235A LCR 2 pcs with dozer	Operating weight	kg	(lb)	26690	58840	27010	59550	27310	60210	24910	54920
	Ground pressure	kgf/cm ²	(psi)	0.51	7.31	0.45	6.34	0.39	5.61	0.35	5.04
	Overall width	mm	(ft-in)	2990	(9' 10")	3090	(10' 2")	3190	(10' 6")	3290	(10' 10")
	Link quantity	EA		49		49		49		49	

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

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
700 mm triple grouser	Option	B
800 mm triple grouser	Option	C
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 or a wide range of general civil engineering work
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 trees· Travel at high speed only on flat ground· Travel 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 B· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees· Travel at high speed only on flat ground· Travel slowly at low speed if it is impossible to avoid going over obstacles

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Maker / Model	Cummins B6.7
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	17.3 : 1
Gross power	173 hp (129 kW) at 2,200 rpm
Net power	170 hp (127 kW) at 2,200 rpm
Max. power	195 hp (145 kW) at 2,000 rpm
Peak Torque	881 N·m (650 lb·ft) at 1,300 rpm
Engine oil quantity	23.7 ℓ (6.3 U.S. gal)
Wet weight	583 kg (1290 lb)
Starter motor	24 V-4.8 kW
Alternator	24 V-95 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 × 228 ℓ /min (60.2 U.S. gpm / 50.15 U.K. gpm)
Rated speed	1750 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	17.5 ℓ /min (4.6 U.S. gpm/3.8 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	Axial piston motor
Capacity	142.8 cc/rev
Relief pressure	285 kgf/cm ² (3770 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	63.3 kgf · m (900 lbf · ft) over
Brake release pressure	20.9~35.5 kgf/cm ² (151~257 psi) over
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Capacity	171.2/108.5 cc/rev
Relief pressure	350 kgf/cm ² (4980 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	65.1 kgf · m (471 lbf · ft)
Brake release pressure	12.8~15.4 kgf/cm ² (182~219 psi)
Reduction gear type	2-stage planetary

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø120 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø140 × 1510 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	Ø120 × 1055 mm
	Cushion	Extend only
Dozer cylinder (opt)	Bore dia × Stroke	Ø130 × 240 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

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

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

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)						
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)
Engine oil pan	Engine oil	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						
DEF/ AdBlue® tank	Mixture of urea and deionized water	48 (12.7)	ISO 22241, High-purity urea + deionized water (32.5:67.5)						
Swing drive	Gear oil	6.2 (1.6)	★SAE 75W-90						
Final drive		4.5×2 (1.2×2)	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	40 (10.6)	Ethylene glycol base permanent type (50 : 50)						
			★Ethylene glycol base permanent type (60 : 40)						

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

DEF : Diesel Exhaust Fluid, DEF compatible with AdBlue®

★ : Cold region (Russia, CIS, Mongolia)

★¹ : Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

★² : Soft water

City water or distilled water

★³ : HD Hyundai Construction
Equipment Bio Hydraulic Oil

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

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

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

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