

SECTION 1 GENERAL

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SECTION 1 GENERAL

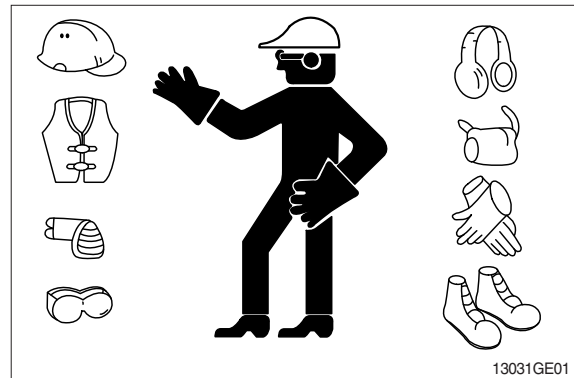
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

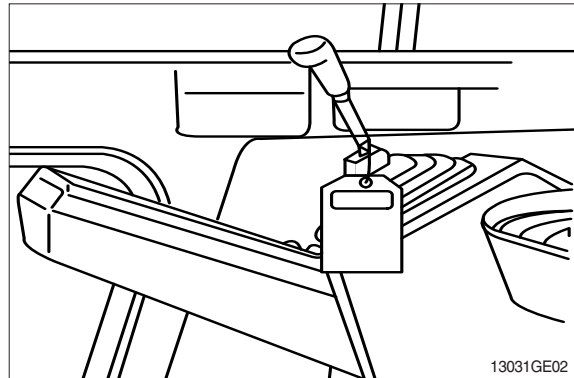
Wear close fitting clothing and safety equipment appropriate to the job.



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.



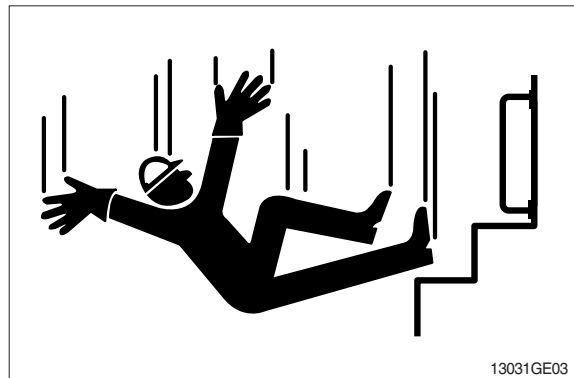
USE HANDHOLDS AND STEPS

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.

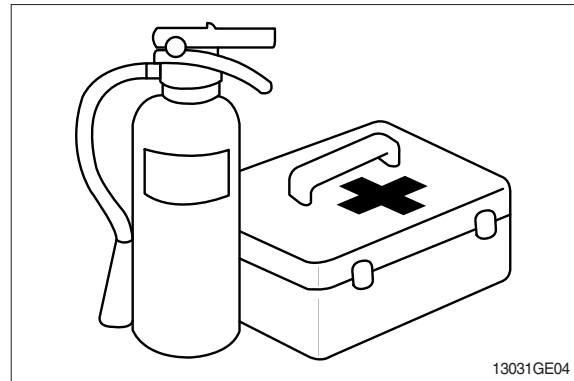


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

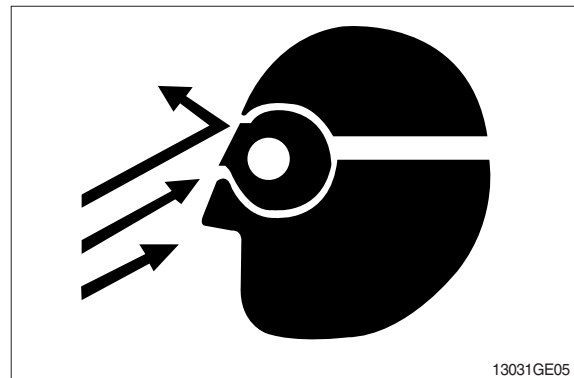
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

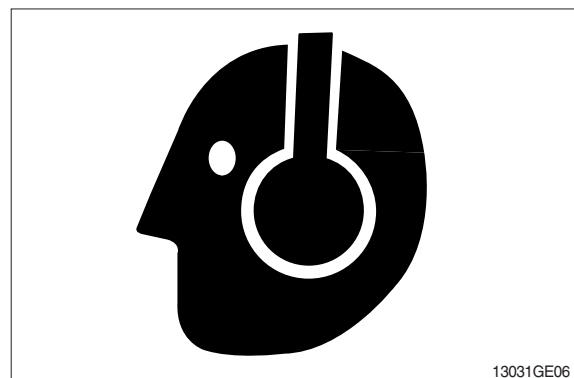
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

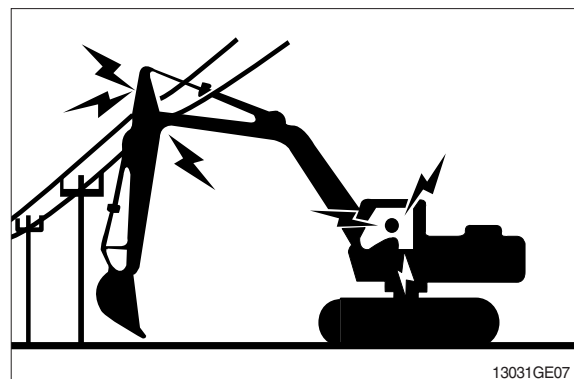
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

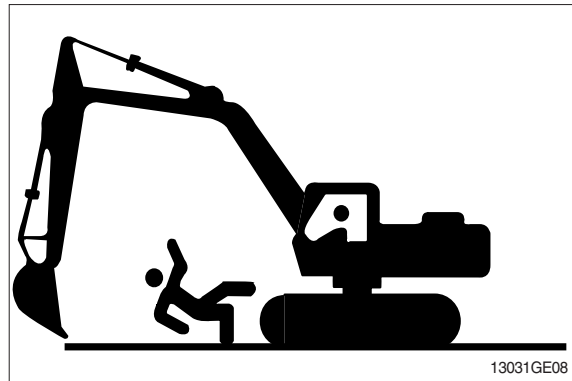
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

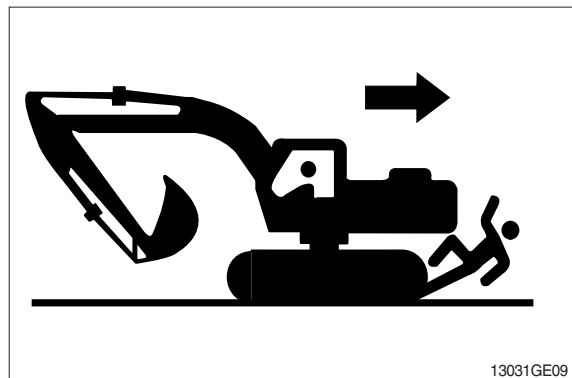


MOVE AND OPERATE MACHINE SAFELY

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:

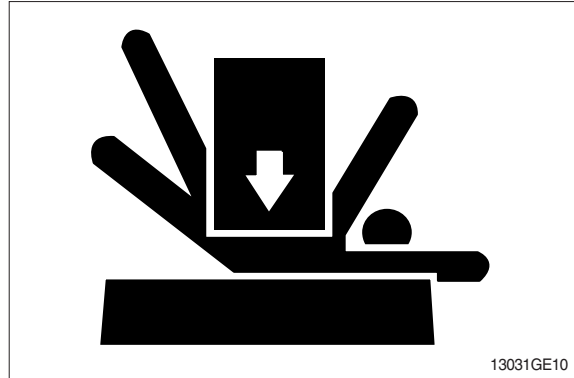
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

SUPPORT MACHINE PROPERLY

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

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

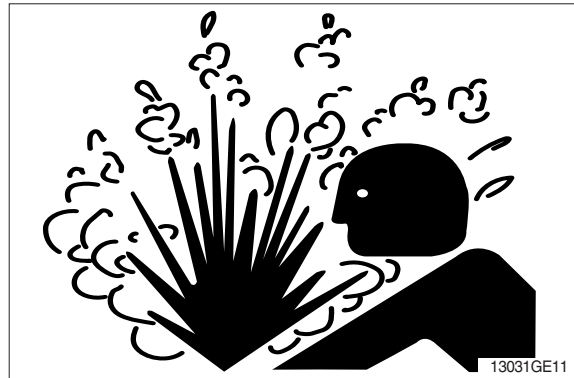
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

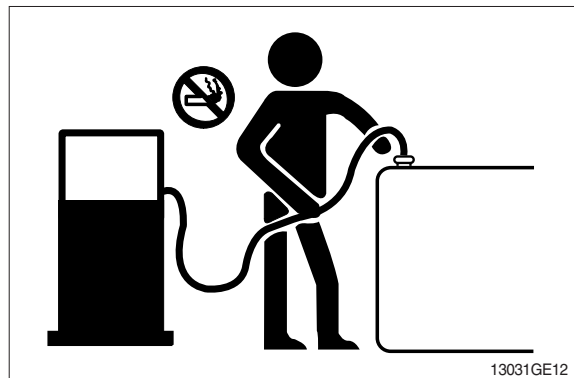
Explosive release of fluids from pressurized cooling system can cause serious burns.

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



HANDLE FLUIDS SAFELY-AVOID FIRES

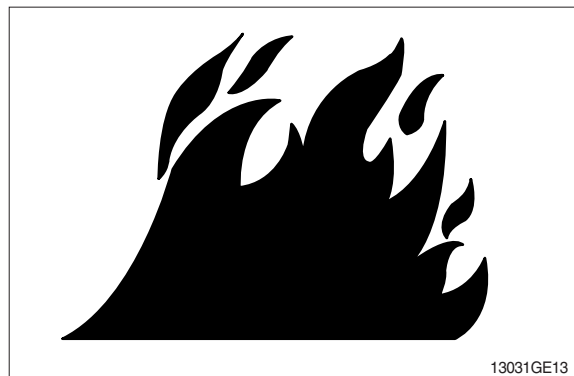
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

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

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



BEWARE OF EXHAUST FUMES

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

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

REMOVE PAINT BEFORE WELDING OR HEATING

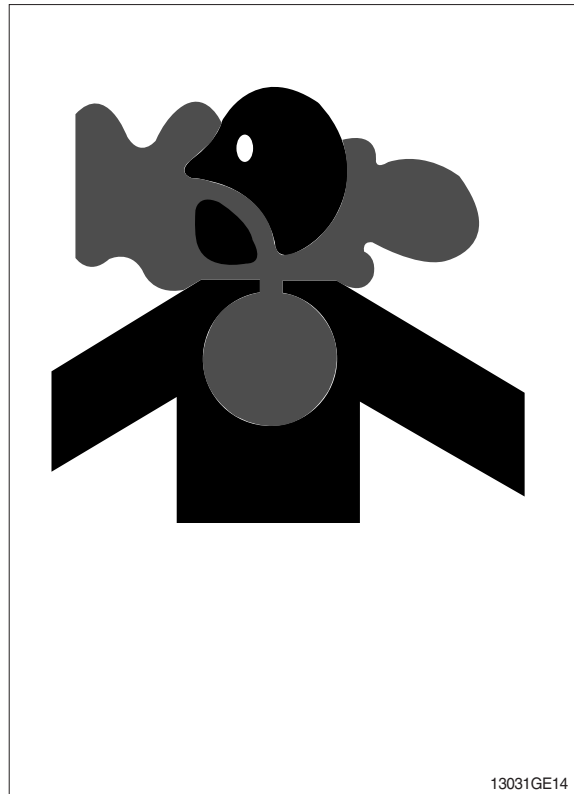
Avoid potentially toxic fumes and dust.

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

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

Remove paint before welding or heating:

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



ILLUMINATE WORK AREA SAFELY

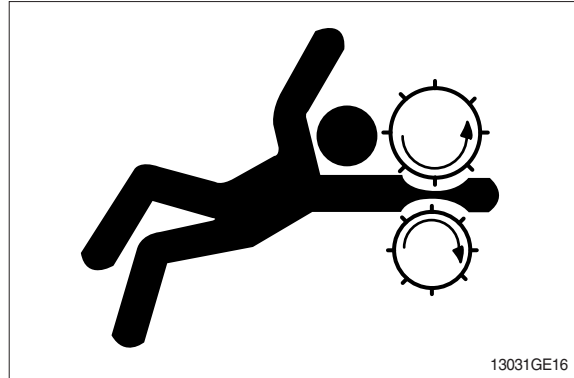
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



SERVICE MACHINE SAFELY

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

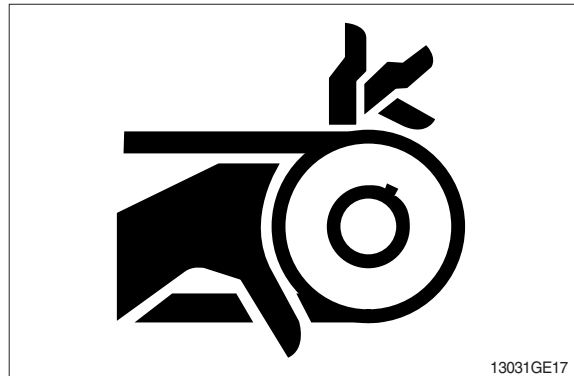
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



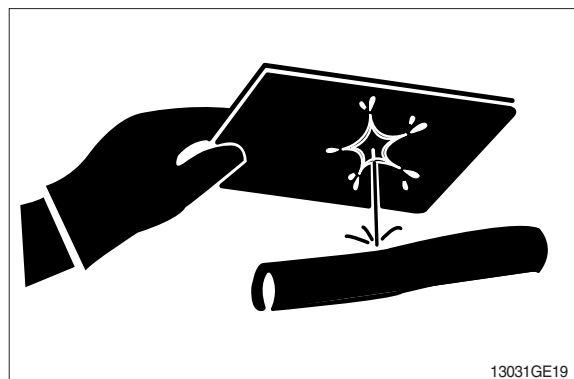
AVOID HIGH PRESSURE FLUIDS

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

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

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

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



AVOID HEATING NEAR PRESSURIZED FLUID LINES

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

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



PREVENT BATTERY EXPLOSIONS

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

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

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



PREVENT ACID BURNS

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

Avoid the hazard by:

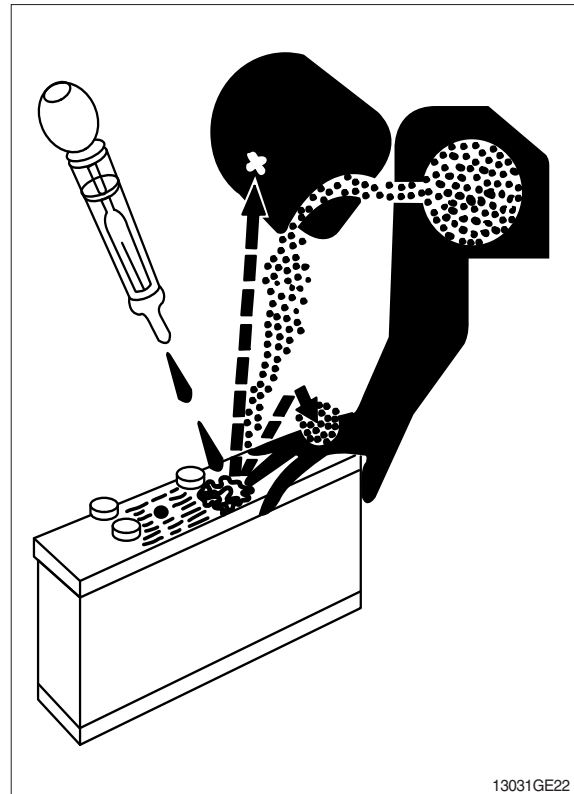
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

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

If acid is swallowed:

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



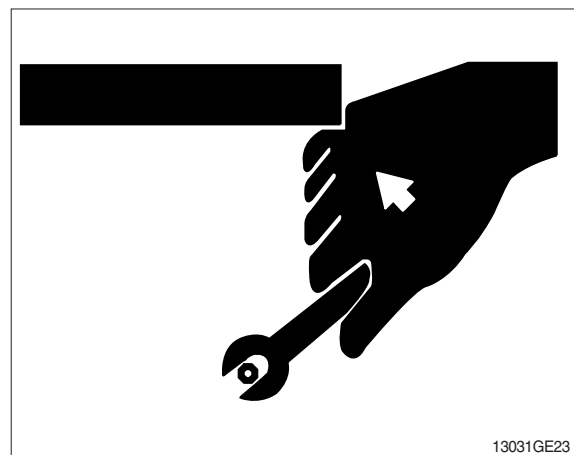
USE TOOLS PROPERLY

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

Use power tools only to loosen threaded tools and fasteners.

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

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

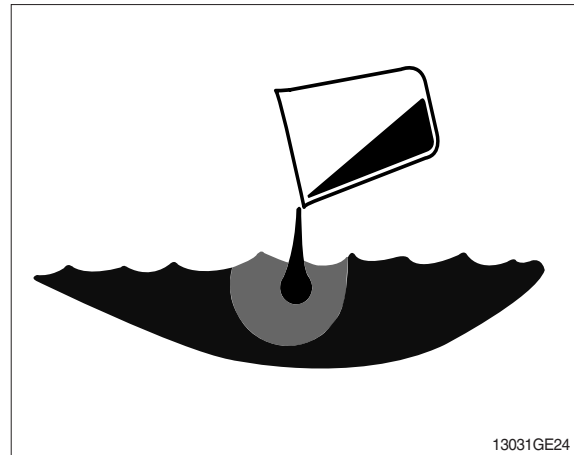


DISPOSE OF FLUIDS PROPERLY

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

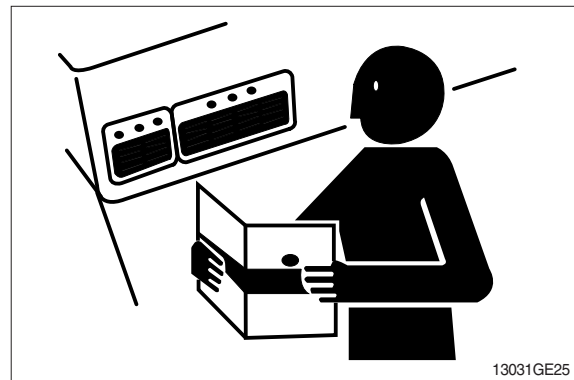
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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



REPLACE SAFETY SIGNS

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

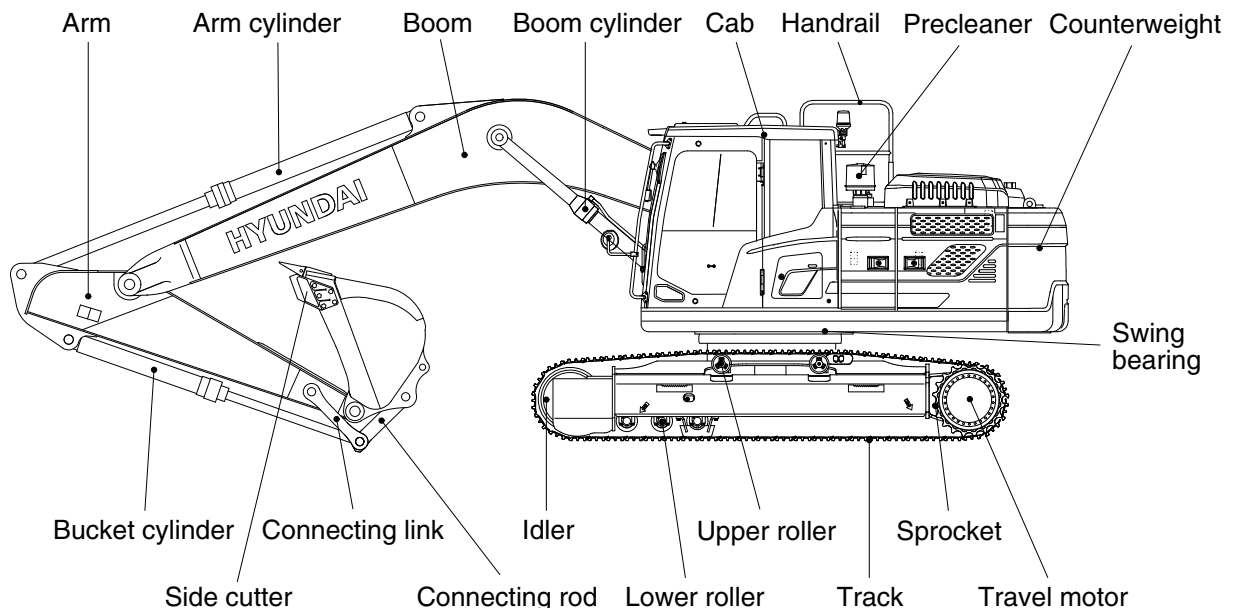
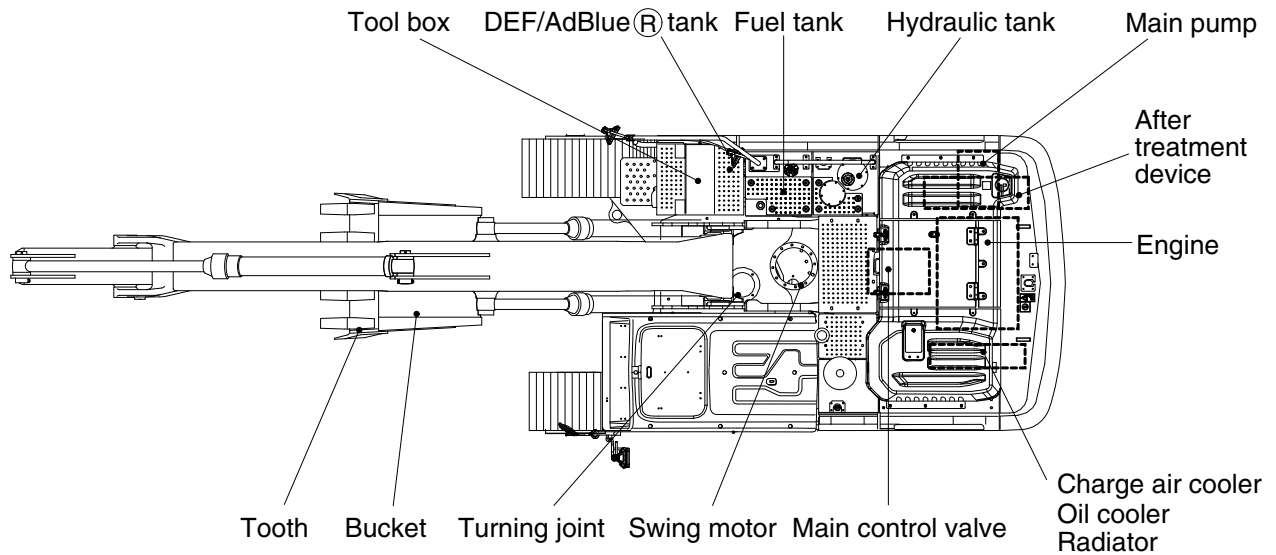


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

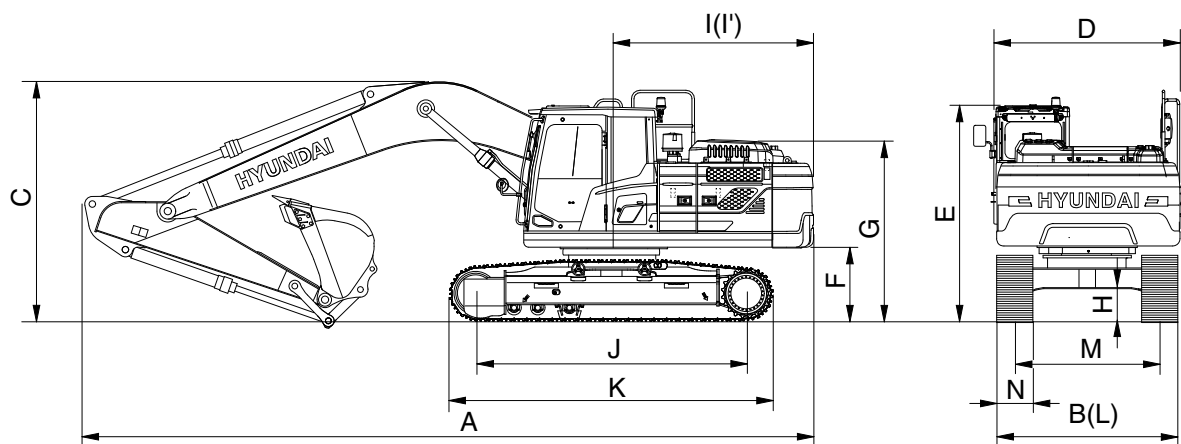
1. MAJOR COMPONENT



210A2SP01A

2. SPECIFICATIONS

1) HX210A L, MONO BOOM

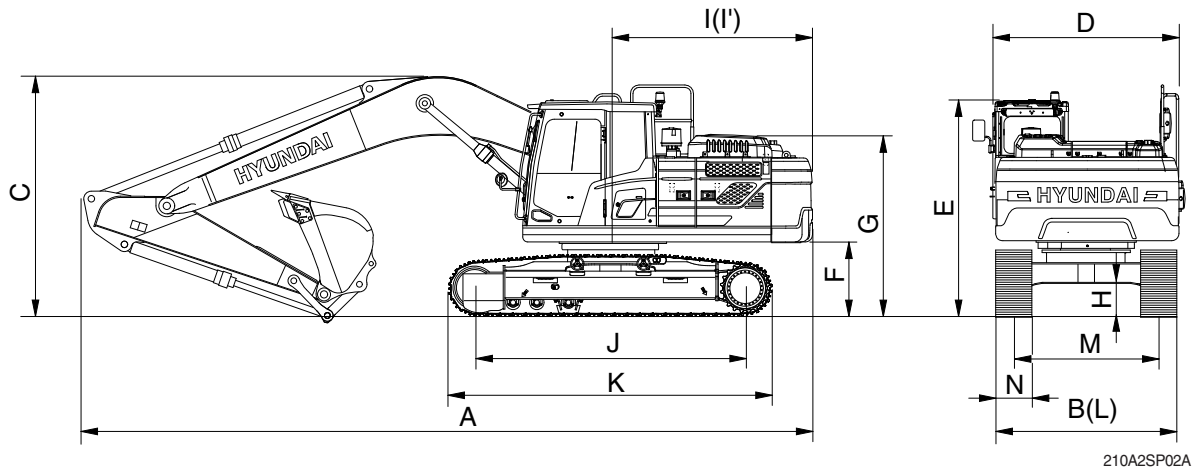


210A2SP02A

Description	Unit		Specification			
	m (ft-in)	Boom	5.65 (18' 6")			
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	3.90 (12' 10")
	mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)		22150 (48830)	21980 (48460)	22050 (48610)	22360 (49300)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		0.92 (1.196)	0.92 (1.196)	0.92 (1.196)	0.92 (1.196)
Overall length	A	mm (ft-in)	9510 (31' 2")	9650 (31' 8")	9570 (31' 5")	9480 (31' 1")
Overall width	B		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C		3100 (10' 2")	3250 (10' 8")	3170 (10' 5")	3500 (11' 6")
Superstructure width	D		2530 (8' 4")	2530 (8' 4")	2530 (8' 4")	2530 (8' 4")
Overall height of cab	E		3000 (9' 10")	3000 (9' 10")	3000 (9' 10")	3000 (9' 10")
Ground clearance of counterweight	F		1060 (3' 6")	1060 (3' 6")	1060 (3' 6")	1060 (3' 6")
Overall height of engine hood	G		2520 (8' 3")	2520 (8' 3")	2520 (8' 3")	2520 (8' 3")
Overall height of handrail	G'		3210 (10' 6")	3210 (10' 6")	3210 (10' 6")	3210 (10' 6")
Minimum ground clearance	H		470 (1' 7")	470 (1' 7")	470 (1' 7")	470 (1' 7")
Rear-end distance	I		2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'		2850 (9' 4")	2850 (9' 4")	2850 (9' 4")	2850 (9' 4")
Distance between tumblers	J		3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K		4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")
Undercarriage width	L		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Track gauge	M		2390 (7' 10")	2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width, standard	N		600 (24")	600 (24")	600 (24")	600 (24")
Travel speed (low/high)	km/hr (mph)		3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)
Swing speed	rpm		12.0	12.0	12.0	12.0
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm ² (psi)		0.47 (6.7)	0.47 (6.7)	0.47 (6.7)	0.48 (6.8)
Max traction force	kg (lb)		20830 (45922)	20830 (45922)	20830 (45922)	20830 (45922)

★ Machine Serial No. : #0993-

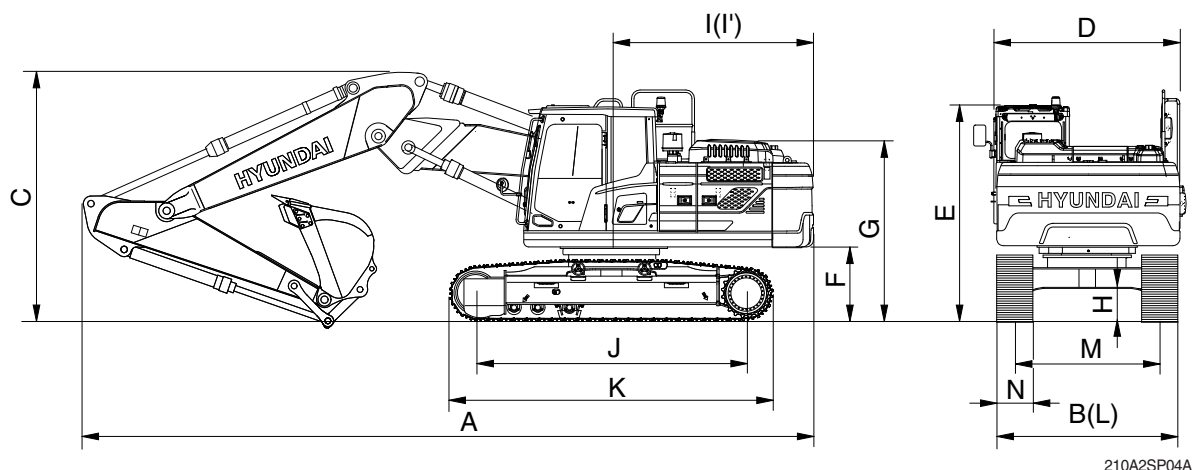
2) HX210A NL, MONO BOOM



Description		Unit		Specification			
		m (ft-in)	Boom	5.65 (18' 6")			
			Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	3.90 (12' 10")
		mm (in)	Shoe	500 (20)			
Operating weight		kg (lb)		22800 (50270)	22630 (49890)	22700 (50040)	23010 (50730)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		0.92 (1.196)	0.92 (1.196)	0.92 (1.196)	0.92 (1.196)
Overall length	A	mm (ft-in)		9510 (31' 2")	9650 (31' 8")	9570 (31' 5")	9480 (31' 1")
Overall width	B			2550 (8' 4")	2550 (8' 4")	2550 (8' 4")	2550 (8' 4")
Overall height of boom	C			3100 (10' 2")	3250 (10' 8")	3170 (10' 5")	3500 (11' 6")
Superstructure width	D			2530 (8' 4")	2530 (8' 4")	2530 (8' 4")	2530 (8' 4")
Overall height of cab	E			3000 (9' 10")	3000 (9' 10")	3000 (9' 10")	3000 (9' 10")
Ground clearance of counterweight	F			1060 (3' 6")	1060 (3' 6")	1060 (3' 6")	1060 (3' 6")
Overall height of engine hood	G			2520 (8' 3")	2520 (8' 3")	2520 (8' 3")	2520 (8' 3")
Overall height of handrail	G'			3210 (10' 6")	3210 (10' 6")	3210 (10' 6")	3210 (10' 6")
Minimum ground clearance	H			470 (1' 7")	470 (1' 7")	470 (1' 7")	470 (1' 7")
Rear-end distance	I			2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'			2850 (9' 4")	2850 (9' 4")	2850 (9' 4")	2850 (9' 4")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")
Undercarriage width	L			2550 (8' 4")	2550 (8' 4")	2550 (8' 4")	2550 (8' 4")
Track gauge	M			2000 (6' 7")	2000 (6' 7")	2000 (6' 7")	2000 (6' 7")
Track shoe width, standard	N			500 (20")	500 (20")	500 (20")	500 (20")
Travel speed (low/high)		km/hr (mph)		3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)
Swing speed		rpm		12.0	12.0	12.0	12.0
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm ² (psi)		0.58 (8.3)	0.58 (8.2)	0.58 (8.3)	0.59 (8.4)
Max traction force		kg (lb)		20830 (45922)	20830 (45922)	20830 (45922)	20830 (45922)

★ Machine Serial No. : #0993-

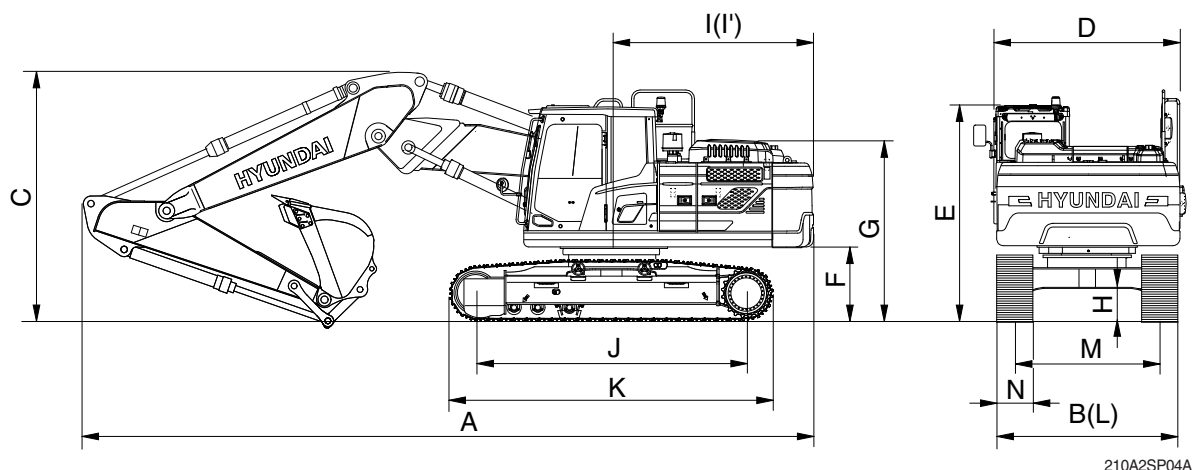
3) HX210A L, 2PCS BOOM



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	500 (20)		
Operating weight		kg (lb)		23330 (51430)	23160 (51060)	23230 (51210)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		0.92 (1.196)	0.92 (1.196)	0.92 (1.196)
Overall length	A	mm (ft-in)		9520 (31' 3")	9650 (31' 8")	9550 (31' 4")
Overall width	B			2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C			3030 (9' 11")	3200 (10' 6")	3000 (9' 10")
Superstructure width	D			2530 (8' 4")	2530 (8' 4")	2530 (8' 4")
Overall height of cab	E			3000 (9' 10")	3000 (9' 10")	3000 (9' 10")
Ground clearance of counterweight	F			1060 (3' 6")	1060 (3' 6")	1060 (3' 6")
Overall height of engine hood	G			2520 (8' 3")	2520 (8' 3")	2520 (8' 3")
Overall height of handrail	G'			3210 (10' 6")	3210 (10' 6")	3210 (10' 6")
Minimum ground clearance	H			470 (1' 7")	470 (1' 7")	470 (1' 7")
Rear-end distance	I			2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'			2850 (9' 4")	2850 (9' 4")	2850 (9' 4")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★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 (20")	600 (20")	600 (20")
Travel speed (low/high)		km/hr (mph)		3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)
Swing speed		rpm		12.0	12.0	12.0
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm ² (psi)		0.61 (8.7)	0.61 (8.7)	0.61 (8.7)
Max traction force		kg (lb)		20830 (45922)	20830 (45922)	20830 (45922)

★ Machine Serial No. : #0993-

4) HX210A NL, 2PCS BOOM



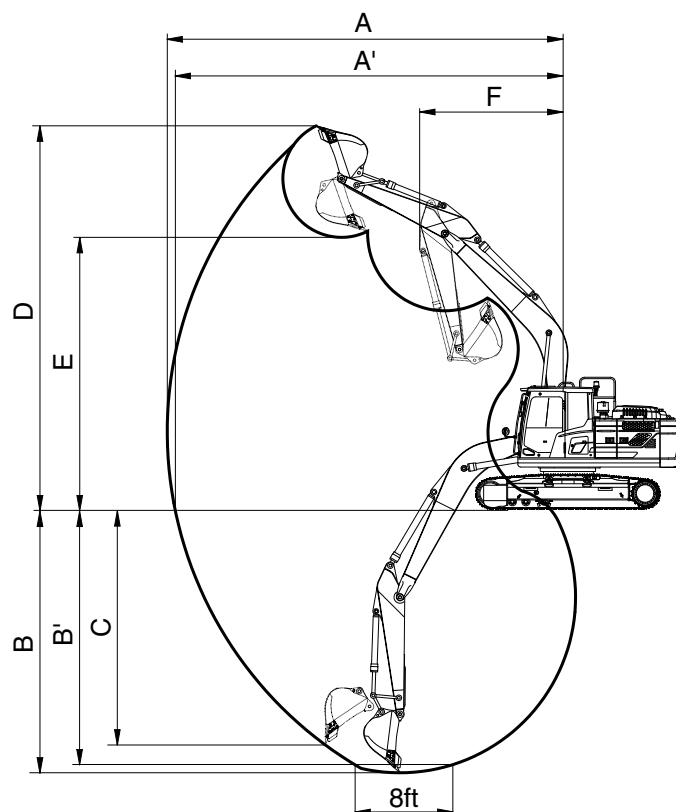
210A2SP04A

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	500 (20)		
Operating weight		kg (lb)		24010 (52930)	23840 (52560)	23910 (52710)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		0.92 (1.196)	0.92 (1.196)	0.92 (1.196)
Overall length	A	mm (ft-in)		9520 (31' 3")	9650 (31' 8")	9550 (31' 4")
Overall width	B			2550 (8' 4")	2550 (8' 4")	2550 (8' 4")
Overall height of boom	C			3030 (9' 11")	3200 (10' 6")	3000 (9' 10")
Superstructure width	D			2530 (8' 4")	2530 (8' 4")	2530 (8' 4")
Overall height of cab	E			3000 (9' 10")	3000 (9' 10")	3000 (9' 10")
Ground clearance of counterweight	F			1060 (3' 6")	1060 (3' 6")	1060 (3' 6")
Overall height of engine hood	G			2520 (8' 3")	2520 (8' 3")	2520 (8' 3")
Overall height of handrail	G'			3210 (10' 6")	3210 (10' 6")	3210 (10' 6")
Minimum ground clearance	H			470 (1' 7")	470 (1' 7")	470 (1' 7")
Rear-end distance	I			2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'			2850 (9' 4")	2850 (9' 4")	2850 (9' 4")
Distance between tumblers	J			3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K			4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")	4446 (14' 7") ★4395 (14' 5")
Undercarriage width	L			2550 (8' 4")	2550 (8' 4")	2550 (8' 4")
Track gauge	M			2000 (6' 7")	2000 (6' 7")	2000 (6' 7")
Track shoe width, standard	N			500 (20")	500 (20")	500 (20")
Travel speed (low/high)		km/hr (mph)		3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)	3.7/5.8 (2.3/3.6)
Swing speed		rpm		12.0	12.0	12.0
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm ² (psi)		0.61 (8.7)	0.61 (8.7)	0.61 (8.7)
Max traction force		kg (lb)		20830 (45922)	20830 (45922)	20830 (45922)

★ Machine Serial No. : #0993-

3. WORKING RANGE AND DIGGING FORCE

1) HX210A L, HX210A NL, MONO BOOM

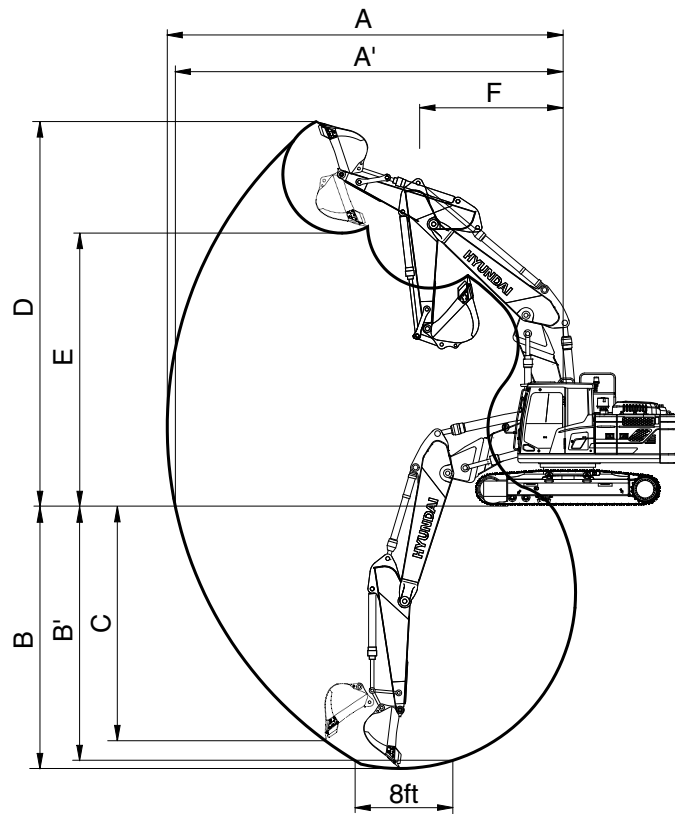


210A2SP05A

Description	m (ft-in)	Boom				
		Arm	5.65 (18' 6")			
Max digging reach	mm (ft-in)	A	9960 (32' 8")	9140 (30' 0")	9500 (31' 2")	10900 (35' 9")
Max digging reach on ground		A'	9800 (32' 2")	8960 (29' 5")	9340 (30' 8")	10750 (35' 3")
Max digging depth		B	6640 (21' 9")	5750 (18' 10")	6150 (20' 2")	7610 (25' 0")
Max digging depth (8 ft level)		B'	6470 (21' 3")	5520 (18' 1")	5950 (19' 6")	7460 (24' 6")
Max vertical wall digging depth		C	6250 (20' 6")	5320 (17' 5")	5780 (19' 0")	6940 (22' 9")
Max digging height		D	9740 (31' 11")	9270 (30' 5")	9500 (31' 2")	10310 (33' 10")
Max dumping height		E	6900 (22' 8")	6450 (21' 2")	6660 (21' 10")	7470 (24' 6")
Min swing radius		F	3580 (11' 9")	3710 (12' 2")	3630 (11' 11")	6850 (22' 6")
Bucket digging force	kN	SAE	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]
	kgf		13600 [14770]	13600 [14770]	13600 [14770]	13600 [14770]
	lbf		29983 [32560]	29983 [32560]	29983 [32560]	29983 [32560]
	kN	ISO	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]
	kgf		15500 [16830]	15500 [16830]	15500 [16830]	15500 [16830]
	lbf		34172 [37100]	34172 [37100]	34172 [37100]	34172 [37100]
Arm digging force	kN	SAE	102.0 [110.7]	144.2 [156.5]	119.6 [129.9]	84.3 [91.6]
	kgf		10400 [11290]	14700 [15960]	12200 [13250]	8600 [9340]
	lbf		22928 [24890]	32408 [35190]	26896 [29210]	18960 [20590]
	kN	ISO	106.9 [116.0]	151.0 [164.0]	125.5 [136.3]	87.3 [94.7]
	kgf		10900 [11830]	15400 [16720]	12800 [13900]	8900 [9660]
	lbf		24030 [26080]	33951 [36860]	28219 [30640]	19621 [21300]

[] : Power boost

2) HX210A L, HX210A NL, 2-PIECE BOOM



210A2SP07A

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")	9120 (29' 11")	9530 (31' 3")
Max digging reach on ground		A'	9860 (32' 4")	8940 (29' 4")	9360 (30' 9")
Max digging depth		B	6400 (21' 0")	5480 (18' 0")	5890 (19' 4")
Max digging depth (8 ft level)		B'	6300 (20' 8")	5360 (17' 7")	5770 (18' 11")
Max vertical wall digging depth		C	5530 (18' 2")	4560 (15' 0")	4990 (16' 4")
Max digging height		D	11080 (36' 4")	10300 (33' 10")	10670 (35' 0")
Max dumping height		E	8160 (26' 9")	7390 (24' 3")	7740 (25' 5")
Min swing radius		F	2540 (8' 4")	2870 (9' 5")	2670 (8' 9")
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		29983 [32560]	29983 [32560]	29983 [32560]
	kN	ISO	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]
	kgf		15500 [16830]	15500 [16830]	15500 [16830]
	lbf		34172 [37100]	34172 [37100]	34172 [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		22928 [24890]	32408 [35190]	26896 [29210]
	kN	ISO	106.9 [116.0]	151.0 [164.0]	125.5 [136.3]
	kgf		10900 [11830]	15400 [16720]	12800 [11900]
	lbf		24030 [26080]	33951 [36860]	28219 [30640]

[] : Power boost

4. WEIGHT

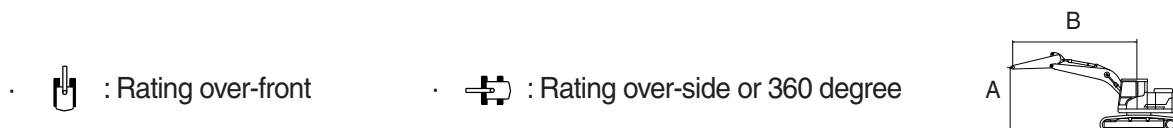
Item	HX210A L		HX210A NL	
	kg	lb	kg	lb
Upperstructure assembly				
· Main frame weld assembly	1,763	3,890	1,763	3,890
· Engine assembly	383	845	383	845
· Aftertreatment assembly	53	116	53	116
· Main pump assembly	140	309	140	309
· Main control valve assembly	220	485	220	485
· Swing motor assembly	240	529	240	529
· Hydraulic oil tank WA	170	370	191	420
· Fuel tank WA	201	440	171	380
· Counterweight	3,800	8,380	4,700	10,360
· Cab assembly	495	1,090	495	1,090
Lower chassis assembly				
· Track frame weld assembly	2,553	5,630	2,420	5,340
· Swing bearing	290	640	290	640
· Travel motor assembly (2EA)	609	1,343	609	1,343
· Turning joint	53	120	53	120
· Sprocket (2EA)	112	250	112	250
· Track recoil spring (2EA)	279	620	279	620
· Idler (2EA)	301	660	301	660
· Upper roller (4EA)	82	180	82	180
· Lower roller (16EA)	675	1,490	675	1,490
· Track-chain assembly (500 mm triple grouser shoe) (2EA)	-	-	2,618	5,770
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	2,712	5,980	2,712	5,980
· Track-chain assembly (600 mm triple grouser shoe)-HD (2EA)	2,902	6,400	2,902	6,400
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	3184	7020	-	-
· Track-chain assembly (900 mm triple grouser shoe) (2EA)	3750	8270	-	-
· Track-chain assembly (700 mm double grouser shoe) (2EA)	3458	7624	-	-
Front attachment assembly				
· 5.65 m boom assembly	1,370	3,020	1,370	3,020
· 2.92 m arm assembly	760	1,680	760	1,680
· 0.92 m³ SAE heaped bucket	800	1,760	800	1,760
· 2pcs boom assembly	-	-	2,585	5,700
· 2.0 m arm assembly	975	2,150	975	2,150
· 2.40 m arm assembly	1045	2300	1045	2300
· 3.90 m arm assembly	1295	2850	1295	2850
· Boom cylinder assembly (2EA)	364	800	364	800
· Arm cylinder assembly	277	610	277	610
· Bucket cylinder assembly	171	380	171	380
· Bucket control linkage total	170	370	170	370













※ 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	
HX210A NL	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2920	4700	500	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb							*4250 *9370	*4250 *9370			*3190 *7030	*3190 *7030	6.24 (20.5)
6.0 m (19.7 ft)	kg lb							*4440 *9790	*4440 *9790			*2920 *6440	*2920 *6440	7.36 (24.1)
4.5 m (14.8 ft)	kg lb							*4950 *10910	4660 10270	*4730 *10430	3270 7210	*2840 *6260	*2840 *6260	8.05 (26.4)
3.0 m (9.8 ft)	kg lb					*7370 *16250	6680 14730	*5790 *12760	4420 9740	*5090 *11220	3170 6990	*2880 *6350	2640 5820	8.41 (27.6)
1.5 m (4.9 ft)	kg lb					*9140 *20150	6200 13670	*6690 *14750	4190 9240	*5540 *12210	3060 6750	*3040 *6700	2540 5600	8.49 (27.9)
0.0 m (0.0 ft)	kg lb			*6220 *13710	*6220 *13710	*10180 *22440	5940 13100	*7360 *16230	4030 8880	5530 12190	2970 6550	*3360 *7410	2590 5710	8.30 (27.2)
-1.5 m (-4.9 ft)	kg lb	*6700 *14770	*6700 *14770	*10680 *23550	*10680 *23550	*10430 *22990	5860 12920	7600 16760	3950 8710	5500 12130	2950 6500	*3920 *8640	2800 6170	7.82 (25.7)
-3.0 m (-9.8 ft)	kg lb	*11310 *24930	*11310 *24930	*14370 *31680	11030 24320	*9920 *21870	5910 13030	*7310 *16120	3990 8800			*5050 *11130	3300 7280	6.98 (22.9)
-4.5 m (-14.8 ft)	kg lb			*11800 *26010	11380 25090	*8290 *18280	6120 13490					*6180 *13620	4550 10030	5.63 (18.5)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

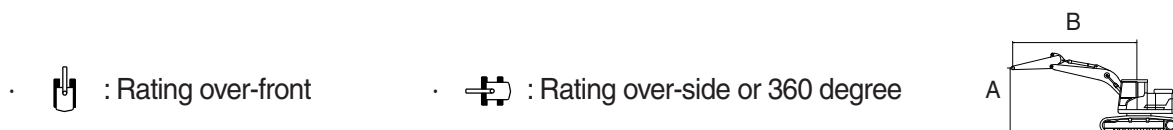
The difference between the weight of a work tool attachment must be subtracted.











Consult 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	
HX210A NL	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2000	4700	500	-	-	-	-	-



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									*5720 *12610	*5720 *12610	4.96 (16.3)
6.0 m (19.7 ft)	kg lb					*5470 *12060	4700 10360			*5550 *12240	4320 9520	6.32 (20.7)
4.5 m (14.8 ft)	kg lb			*6860 *15120	*6860 *15120	*5810 *12810	4590 10120			*5600 *12350	3530 7780	7.11 (23.3)
3.0 m (9.8 ft)	kg lb			*8680 *19140	6490 14310	*6550 *14440	4390 9680	*5750 *12680	3180 7010	5730 12630	3170 6990	7.52 (24.7)
1.5 m (4.9 ft)	kg lb					*7290 *16070	4200 9260	5670 12500	3110 6860	5550 12240	3050 6720	7.61 (25.0)
0.0 m (0.0 ft)	kg lb			*10590 *23350	6000 13230	*7730 *17040	4090 9020			5730 12630	3130 6900	7.40 (24.3)
-1.5 m (-4.9 ft)	kg lb			*10320 *22750	6020 13270	*7670 *16910	4080 8990			6410 14130	3470 7650	6.85 (22.5)
-3.0 m (-9.8 ft)	kg lb	*12600 *27780	11450 25240	*9240 *20370	6150 13560					*6790 *14970	4330 9550	5.87 (19.3)
-4.5 m (-14.8 ft)	kg lb											

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.

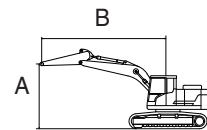
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX210A NL	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2400	4700	500	-	-	-	-	-

·  : 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 lb									*4900 *10800	*4900 *10800	5.55 (18.2)
6.0 m (19.7 ft)	kg lb					*5010 *11050	4750 10470			*4430 *9770	3870 8530	6.79 (22.3)
4.5 m (14.8 ft)	kg lb			*6310 *13910	*6310 *13910	*5450 *12020	4620 10190	*4610 *10160	3250 7170	*4300 *9480	3230 7120	7.53 (24.7)
3.0 m (9.8 ft)	kg lb			*8130 *17920	6570 14480	*6240 *13760	4400 9700	*5450 *12020	3180 7010	*4380 *9660	2920 6440	7.92 (26.0)
1.5 m (4.9 ft)	kg lb			*9720 *21430	6160 13580	*7050 *15540	4200 9260	5650 12460	3090 6810	*4650 *10250	2810 6190	8.01 (26.3)
0.0 m (0.0 ft)	kg lb			*10470 *23080	5970 13160	*7600 *16760	4060 8950	5580 12300	3030 6680	*5170 *11400	2870 6330	7.80 (25.6)
-1.5 m (-4.9 ft)	kg lb	*11180 *24650	11090 24450	*10420 *22970	5950 13120	7670 16910	4030 8880			5820 12830	3150 6940	7.29 (23.9)
-3.0 m (-9.8 ft)	kg lb	*13470 *29700	11270 24850	*9600 *21160	6050 13340	*7030 *15500	4110 9060			*6400 *14110	3820 8420	6.38 (20.9)
-4.5 m (-14.8 ft)	kg lb			*7230 *15940	6330 13960					*6450 *14220	5740 12650	4.85 (15.9)

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.

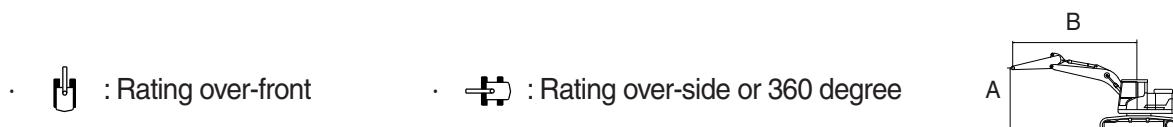
The difference between the weight of a work tool attachment must be subtracted.











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	
HX210A NL	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5647	2000	4700	500	-	-	-	-	-



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			*7000 *15430	*7000 *15430					*6640 *14640	6180 13620	5.02 (16.5)
6.0 m (19.7 ft)	kg lb	*9600 *21160	*9600 *21160	*7050 *15540	*7050 *15540	*5610 *12370	4660 10270			*5430 *11970	4190 9240	6.37 (20.9)
4.5 m (14.8 ft)	kg lb			*8100 *17860	6950 15320	*5830 *12850	4530 9990			*4950 *10910	3410 7520	7.15 (23.5)
3.0 m (9.8 ft)	kg lb					*6410 *14130	4300 9480	*4840 *10670	3090 6810	*4800 *10580	3050 6720	7.56 (24.8)
1.5 m (4.9 ft)	kg lb					*7140 *15740	4090 9020	*5020 *11070	3010 6640	*4890 *10780	2930 6460	7.65 (25.1)
0.0 m (0.0 ft)	kg lb			*9770 *21540	5820 12830	*7390 *16290	3970 8750			*5250 *11570	3010 6640	7.44 (24.4)
-1.5 m (-4.9 ft)	kg lb			*8360 *18430	5850 12900	*6410 *14130	3960 8730			*5030 *11090	3340 7360	6.90 (22.6)

Note 1. Lifting capacity are based on ISO 10567.

- Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

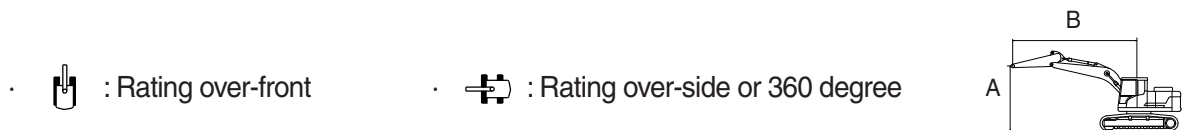
Lifting capacities will vary with different work tools, ground conditions and attachments.











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

Consult 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	
HX210A NL	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5647	2400	4700	500	-	-	-	-	-



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									*6600 *14550	*6600 *14550	3.38 (11.1)
7.5 m (24.6 ft)	kg lb			*6520 *14370	*6520 *14370					*4880 *10760	*4880 *10760	5.62 (18.4)
6.0 m (19.7 ft)	kg lb			*6640 *14640	*6640 *14640	*5300 *11680	4720 10410			*4360 *9610	3750 8270	6.85 (22.5)
4.5 m (14.8 ft)	kg lb			*7560 *16670	7070 15590	*5560 *12260	4570 10080	*4500 *9920	3180 7010	*4200 *9260	3110 6860	7.58 (24.9)
3.0 m (9.8 ft)	kg lb			*9640 *21250	6480 14290	*6130 *13510	4320 9520	*4620 *10190	3100 6830	*4230 *9330	2810 6190	7.97 (26.1)
1.5 m (4.9 ft)	kg lb			*10330 *22770	6000 13230	*6880 *15170	4090 9020	*4850 *10690	3000 6610	*4420 *9740	2700 5950	8.05 (26.4)
0.0 m (0.0 ft)	kg lb			*10010 *22070	5790 12760	*7460 *16450	3940 8690	*5060 *11160	2930 6460	*4710 *10380	2760 6080	7.85 (25.8)
-1.5 m (-4.9 ft)	kg lb	*10590 *23350	*10590 *23350	*8830 *19470	5770 12720	*6710 *14790	3900 8600			*4810 *10600	3030 6680	7.34 (24.1)
-3.0 m (-9.8 ft)	kg lb			*6690 *14750	5900 13010	*4850 *10690	4000 8820					

Note 1. Lifting capacity are based on ISO 10567.

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

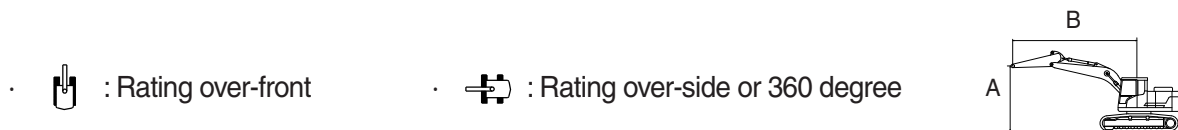
The difference between the weight of a work tool attachment must be subtracted.











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	
HX210A NL	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5647	2920	4700	500	-	-	-	-	-



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									*3940 *8690	*3940 *8690	4.46 (14.6)
7.5 m (24.6 ft)	kg lb			*6020 *13270	*6020 *13270	*4590 *10120	*4590 *10120			*3130 *6900	*3130 *6900	6.32 (20.7)
6.0 m (19.7 ft)	kg lb			*6170 *13600	*6170 *13600	*4950 *10910	4800 10580			*2830 *6240	*2830 *6240	7.43 (24.4)
4.5 m (14.8 ft)	kg lb	*9140 *20150	*9140 *20150	*6930 *15280	*6930 *15280	*5220 *11510	4630 10210	*4200 *9260	3210 7080	*2730 *6020	*2730 *6020	8.11 (26.6)
3.0 m (9.8 ft)	kg lb			*8690 *19160	6610 14570	*5770 *12720	4360 9610	*4380 *9660	3100 6830	*2750 *6060	2530 5580	8.47 (27.8)
1.5 m (4.9 ft)	kg lb			*10100 *22270	6060 13360	*6520 *14370	4090 9020	*4640 *10230	2970 6550	*2870 *6330	2430 5360	8.55 (28.1)
0.0 m (0.0 ft)	kg lb			*10160 *22400	5760 12700	*7260 *16010	3900 8600	*4890 *10780	2880 6350	*3130 *6900	2480 5470	8.36 (27.4)
-1.5 m (-4.9 ft)	kg lb	*10190 *22470	*10190 *22470	*9300 *20500	5680 12520	*6970 *15370	3830 8440	*5040 *11110	2850 6280	*3600 *7940	2680 5910	7.88 (25.9)
-3.0 m (-9.8 ft)	kg lb	*9470 *20880	*9470 *20880	*7530 *16600	5750 12680	*5620 *12390	3870 8530			*3990 *8800	3170 6990	7.05 (23.1)

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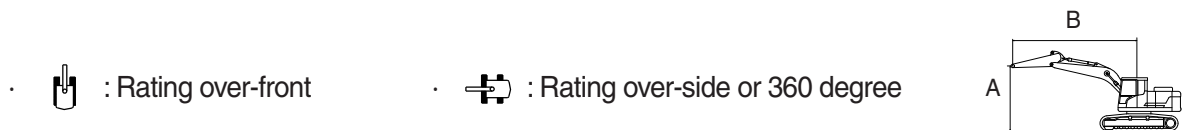
The difference between the weight of a work tool attachment must be subtracted.











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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	
HX210A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2000	3800	800	-	-	-	-	-



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									*5720 *12610	*5720 *12610	4.96 (16.3)
6.0 m (19.7 ft)	kg lb					*5470 *12060	5230 11530			*5550 *12240	4790 10560	6.32 (20.7)
4.5 m (14.8 ft)	kg lb			*6860 *15120	*6860 *15120	*5810 *12810	5110 11270			*5600 *12350	3920 8640	7.11 (23.3)
3.0 m (9.8 ft)	kg lb			*8680 *19140	7370 16250	*6550 *14440	4900 10800	5470 12060	3530 7780	5450 12020	3520 7760	7.52 (24.7)
1.5 m (4.9 ft)	kg lb					*7290 *16070	4710 10380	5390 11880	3460 7630	5280 11640	3390 7470	7.61 (25.0)
0.0 m (0.0 ft)	kg lb			*10590 *23350	6850 15100	7370 16250	4590 10120			5450 12020	3480 7670	7.40 (24.3)
-1.5 m (-4.9 ft)	kg lb			*10320 *22750	6870 15150	7360 16230	4580 10100			6100 13450	3870 8530	6.85 (22.5)
-3.0 m (-9.8 ft)	kg lb	*12600 *27780	*12600 *27780	*9240 *20370	7000 15430					*6790 *14970	4860 10710	5.87 (19.3)

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

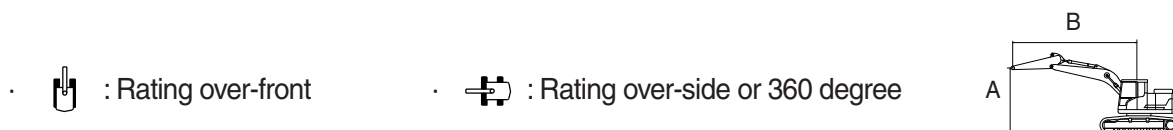
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Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX210A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2400	3800	800	-	-	-	-	-



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									*4900 *10800	*4900 *10800	5.55 (18.2)
6.0 m (19.7 ft)	kg lb					*5010 *11050	*5010 *11050			*4430 *9770	4290 9460	6.79 (22.3)
4.5 m (14.8 ft)	kg lb			*6310 *13910	*6310 *13910	*5450 *12020	5140 11330	*4610 *10160	3600 7940	*4300 *9480	3580 7890	7.53 (24.7)
3.0 m (9.8 ft)	kg lb			*8130 *17920	7460 16450	*6240 *13760	4920 10850	*5450 *12020	3530 7780	*4380 *9660	3240 7140	7.92 (26.0)
1.5 m (4.9 ft)	kg lb			*9720 *21430	7020 15480	*7050 *15540	4700 10360	5370 11840	3440 7580	*4650 *10250	3130 6900	8.01 (26.3)
0.0 m (0.0 ft)	kg lb			*10470 *23080	6820 15040	7340 16180	4570 10080	5310 11710	3370 7430	5020 11070	3200 7050	7.80 (25.6)
-1.5 m (-4.9 ft)	kg lb	*11180 *24650	*11180 *24650	*10420 *22970	6800 14990	7300 16090	4530 9990			5530 12190	3510 7740	7.29 (23.9)
-3.0 m (-9.8 ft)	kg lb	*13470 *29700	13460 29670	*9600 *21160	6900 15210	*7030 *15500	4610 10160			*6400 *14110	4270 9410	6.38 (20.9)
-4.5 m (-14.8 ft)	kg lb			*7230 *15940	7200 15870					*6450 *14220	*6450 *14220	4.85 (15.9)

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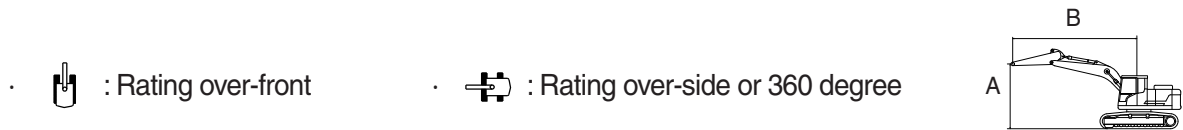
The difference between the weight of a work tool attachment must be subtracted.













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	
HX210A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	2920	3800	800	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg							*4250	*4250			*3190	*3190	6.24
	lb							*9370	*9370			*7030	*7030	(20.5)
6.0 m (19.7 ft)	kg							*4440	*4440			*2920	*2920	7.36
	lb							*9790	*9790			*6440	*6440	(24.1)
4.5 m (14.8 ft)	kg							*4950	*4950	*4730	3630	*2840	*2840	8.05
	lb							*10910	*10910	*10430	8000	*6260	*6260	(26.4)
3.0 m (9.8 ft)	kg					*7370	*7370	*5790	4940	*5090	3530	*2880	*2880	8.41
	lb					*16250	*16250	*12760	10890	*11220	7780	*6350	*6350	(27.6)
1.5 m (4.9 ft)	kg					*9140	7070	*6690	4700	5350	3410	*3040	2830	8.49
	lb					*20150	15590	*14750	10360	11790	7520	*6700	6240	(27.9)
0.0 m (0.0 ft)	kg			*6220	*6220	*10180	6790	7310	4530	5260	3320	*3360	2880	8.30
	lb			*13710	*13710	*22440	14970	16120	9990	11600	7320	*7410	6350	(27.2)
-1.5 m (-4.9 ft)	kg	*6700	*6700	*10680	*10680	*10430	6710	7230	4450	5230	3290	*3920	3120	7.82
	lb	*14770	*14770	*23550	*23550	*22990	14790	15940	9810	11530	7250	*8640	6880	(25.7)
-3.0 m (-9.8 ft)	kg	*11310	*11310	*14370	13210	*9920	6770	7260	4490			*5050	3690	6.98
	lb	*24930	*24930	*31680	29120	*21870	14930	16010	9900			*11130	8140	(22.9)
-4.5 m (-14.8 ft)	kg			*11800	*11800	*8290	6980					*6180	5110	5.63
	lb			*26010	*26010	*18280	15390					*13620	11270	(18.5)

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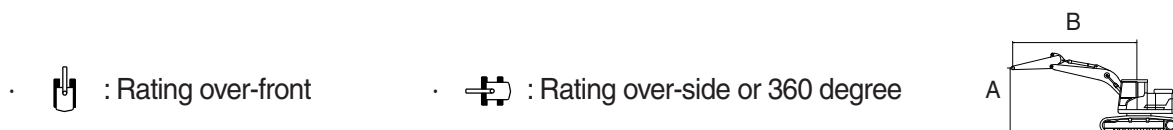
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Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX210A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5650	3900	3800	800	-	-	-	-	-



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)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
7.5 m (24.6 ft)	kg lb													*2200 *4850	*2200 *4850	7.47 (24.5)
6.0 m (19.7 ft)	kg lb									*3680 *8110	*3680 *8110			*2040 *4500	*2040 *4500	8.42 (27.6)
4.5 m (14.8 ft)	kg lb							*3970 *8750	*3970 *8750	*3920 *8640	3670 8090	*2130 *4700	*2130 *4700	*1990 *4390	*1990 *4390	9.03 (29.6)
3.0 m (9.8 ft)	kg lb					*5840 *12870	*5840 *12870	*4860 *10710	*4860 *10710	*4380 *9660	3530 7780	*3400 *7500	2600 5730	*2010 *4430	*2010 *4430	9.36 (30.7)
1.5 m (4.9 ft)	kg lb			*9190 *20260	*9190 *20260	*7830 *17260	7200 15870	*5880 *12960	4710 10380	*4940 *10890	3370 7430	*3930 *8660	2530 5580	*2100 *4630	*2100 *4630	9.43 (30.9)
0.0 m (0.0 ft)	kg lb			*7490 *16510	*7490 *16510	*9340 *20590	6750 14880	*6760 *14900	4470 9850	5180 11420	3240 7140	*3690 *8140	2470 5450	*2290 *5050	*2290 *5050	9.26 (30.4)
-1.5 m (-4.9 ft)	kg lb	*5580 *12300	*5580 *12300	*9610 *21190	*9610 *21190	*10100 *22270	6530 14400	7100 15650	4320 9520	5090 11220	3150 6940			*2600 *5730	2520 5560	8.83 (29.0)
-3.0 m (-9.8 ft)	kg lb	*8660 *19090	*8660 *19090	*13300 *29320	12690 27980	*10130 *22330	6500 14330	7050 15540	4280 9440	5080 11200	3150 6940			*3160 *6970	2860 6310	8.10 (26.6)
-4.5 m (-14.8 ft)	kg lb	*12540 *27650	*12540 *27650	*13730 *30270	12970 28590	*9330 *20570	6620 14590	*6800 *14990	4370 9630					*4350 *9590	3590 7910	6.97 (22.9)
-6.0 m (-19.7 ft)	kg lb					*6950 *15320	6950 15320									

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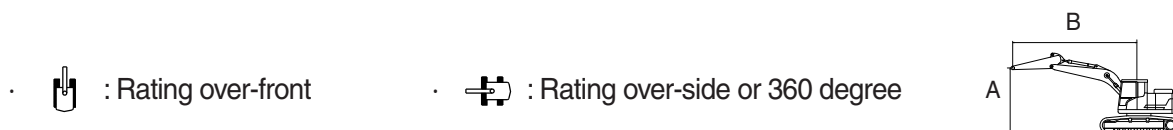
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
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Failure to comply to the rated load can cause possible personal injury or property damage.

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX210A L	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5647	2000	3800	800	-	-	-	-	-



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			*7000 *15430	*7000 *15430					*6640 *14640	*6640 *14640	5.02 (16.5)
6.0 m (19.7 ft)	kg lb	*9600 *21160	*9600 *21160	*7050 *15540	*7050 *15540	*5610 *12370	5210 11490			*5430 *11970	4690 10340	6.37 (20.9)
4.5 m (14.8 ft)	kg lb			*8100 *17860	7900 17420	*5830 *12850	5070 11180			*4950 *10910	3810 8400	7.15 (23.5)
3.0 m (9.8 ft)	kg lb					*6410 *14130	4830 10650	*4840 *10670	3460 7630	*4800 *10580	3410 7520	7.56 (24.8)
1.5 m (4.9 ft)	kg lb					*7140 *15740	4610 10160	*5020 *11070	3380 7450	*4890 *10780	3280 7230	7.65 (25.1)
0.0 m (0.0 ft)	kg lb			*9770 *21540	6690 14750	7330 16160	4490 9900			*5250 *11570	3370 7430	7.44 (24.4)
-1.5 m (-4.9 ft)	kg lb			*8360 *18430	6720 14820	*6410 *14130	4480 9880			*5030 *11090	3760 8290	6.90 (22.6)

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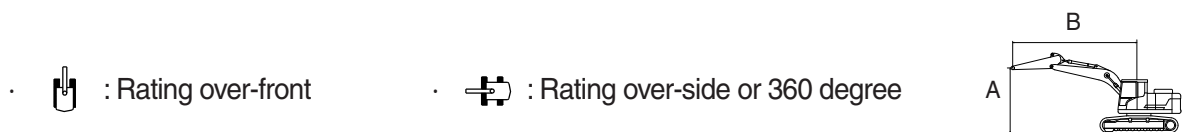
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The difference between the weight of a work tool attachment must be subtracted.

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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	
HX210A L	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5647	2400	3800	800	-	-	-	-	-



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									*6600 *14550	*6600 *14550	3.38 (11.1)
7.5 m (24.6 ft)	kg lb			*6520 *14370	*6520 *14370					*4880 *10760	*4880 *10760	5.62 (18.4)
6.0 m (19.7 ft)	kg lb			*6640 *14640	*6640 *14640	*5300 *11680	5290 11660			*4360 *9610	4200 9260	6.85 (22.5)
4.5 m (14.8 ft)	kg lb			*7560 *16670	*7560 *16670	*5560 *12260	5130 11310	*4500 *9920	3560 7850	*4200 *9260	3490 7690	7.58 (24.9)
3.0 m (9.8 ft)	kg lb			*9640 *21250	7420 16360	*6130 *13510	4880 10760	*4620 *10190	3480 7670	*4230 *9330	3150 6940	7.97 (26.1)
1.5 m (4.9 ft)	kg lb			*10330 *22770	6910 15230	*6880 *15170	4630 10210	*4850 *10690	3370 7430	*4420 *9740	3040 6700	8.05 (26.4)
0.0 m (0.0 ft)	kg lb			*10010 *22070	6690 14750	7330 16160	4480 9880	*5060 *11160	3300 7280	*4710 *10380	3110 6860	7.85 (25.8)
-1.5 m (-4.9 ft)	kg lb	*10590 *23350	*10590 *23350	*8830 *19470	6670 14700	*6710 *14790	4440 9790			*4810 *10600	3420 7540	7.34 (24.1)
-3.0 m (-9.8 ft)	kg lb			*6690 *14750	*6690 *14750	*4850 *10690	4540 10010					

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

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

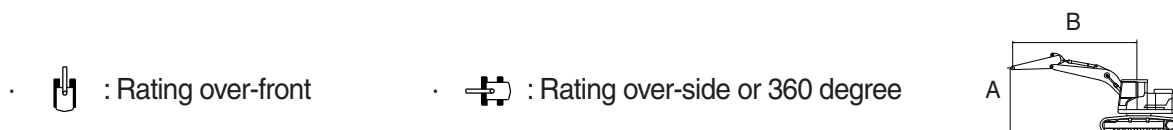
The difference between the weight of a work tool attachment must be subtracted.











Consult 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	
HX210A L	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5647	2920	3800	800	-	-	-	-	-



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									*3940 *8690	*3940 *8690	4.46 (14.6)
7.5 m (24.6 ft)	kg lb			*6020 *13270	*6020 *13270	*4590 *10120	*4590 *10120			*3130 *6900	*3130 *6900	6.32 (20.7)
6.0 m (19.7 ft)	kg lb			*6170 *13600	*6170 *13600	*4950 *10910	*4950 *10910			*2830 *6240	*2830 *6240	7.43 (24.4)
4.5 m (14.8 ft)	kg lb	*9140 *20150	*9140 *20150	*6930 *15280	*6930 *15280	*5220 *11510	5190 11440	*4200 *9260	3600 7940	*2730 *6020	*2730 *6020	8.11 (26.6)
3.0 m (9.8 ft)	kg lb			*8690 *19160	7570 16690	*5770 *12720	4920 10850	*4380 *9660	3490 7690	*2750 *6060	*2750 *6060	8.47 (27.8)
1.5 m (4.9 ft)	kg lb			*10100 *22270	6980 15390	*6520 *14370	4640 10230	*4640 *10230	3350 7390	*2870 *6330	2740 6040	8.55 (28.1)
0.0 m (0.0 ft)	kg lb			*10160 *22400	6660 14680	*7260 *16010	4440 9790	*4890 *10780	3250 7170	*3130 *6900	2800 6170	8.36 (27.4)
-1.5 m (-4.9 ft)	kg lb	*10190 *22470	*10190 *22470	*9300 *20500	6570 14480	*6970 *15370	4360 9610	*5040 *11110	3230 7120	*3600 *7940	3030 6680	7.88 (25.9)
-3.0 m (-9.8 ft)	kg lb	*9470 *20880	*9470 *20880	*7530 *16600	6650 14660	*5620 *12390	4410 9720			*3990 *8800	3590 7910	7.05 (23.1)

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.

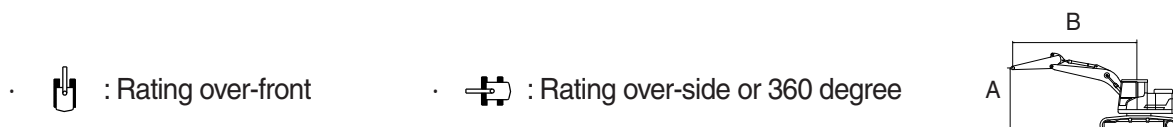
The difference between the weight of a work tool attachment must be subtracted.















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	
HX210A L	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5647	3900	3800	800	-	-	-	-	-



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)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
9.0 m (29.5 ft)	kg lb							*2890 *6370	*2890 *6370					*2530 *5580	*2530 *5580	6.10 (20.0)
7.5 m (24.6 ft)	kg lb							*4370 *9630	*4370 *9630	*2390 *5270	*2390 *5270			*2150 *4740	*2150 *4740	7.56 (24.8)
6.0 m (19.7 ft)	kg lb							*4400 *9700	*4400 *9700	*3670 *8090	*3670 *8090			*1980 *4370	*1980 *4370	8.50 (27.9)
4.5 m (14.8 ft)	kg lb					*4900 *10800	*4900 *10800	*4630 *10210	*4630 *10210	*3760 *8290	3660 8070	*2410 *5310	*2410 *5310	*1910 *4210	*1910 *4210	9.10 (29.9)
3.0 m (9.8 ft)	kg lb			*11780 *25970	*11780 *25970	*7130 *15720	*7130 *15720	*5100 *11240	5010 11050	*3950 *8710	3500 7720	*3230 *7120	2550 5620	*1910 *4210	*1910 *4210	9.43 (30.9)
1.5 m (4.9 ft)	kg lb					*9340 *20590	7140 15740	*5800 *12790	4660 10270	*4230 *9330	3320 7320	*3330 *7340	2470 5450	*1990 *4390	*1990 *4390	9.50 (31.2)
0.0 m (0.0 ft)	kg lb			*6980 *15390	*6980 *15390	*10000 *22050	6620 14590	*6590 *14530	4380 9660	*4520 *9960	3170 6990	*3450 *7610	2400 5290	*2140 *4720	*2140 *4720	9.33 (30.6)
-1.5 m (-4.9 ft)	kg lb	*5210 *11490	*5210 *11490	*9170 *20220	*9170 *20220	*9770 *21540	6380 14070	7060 15560	4210 9280	*4770 *10520	3070 6770			*2400 *5290	*2400 *5290	8.90 (29.2)
-3.0 m (-9.8 ft)	kg lb			*12030 *26520	*12030 *26520	*8650 *19070	6350 14000	*6430 *14180	4180 9220	*4700 *10360	3070 6770			*2870 *6330	2760 6080	8.18 (26.8)
-4.5 m (-14.8 ft)	kg lb					*6470 *14260	*6470 *14260	*4670 *10300	4280 9440							

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) HX210A L, 3800 KG COUNTERWEIGHT



General bucket



Heavy duty
(without side cutter)



Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter			Recommendation				mm (ft-in)		
						5.65 m (18' 6") Boom				5.65 m (18' 6") Boom		
						m³ (yd³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.10 m (6' 7") Arm	2.4 m (7' 10") Arm
General bucket	0.80 (1.05)	0.70 (0.92)	1,070 (42.1")	770 (1,700)	5	●	●	●	◐	●	●	●
	0.87 (1.14)	0.76 (0.99)	1,140 (44.9")	804 (1,770)	5	●	●	●	◐	●	●	●
	0.92 (1.20)	0.80 (1.05)	1,190 (46.9")	820 (1,810)	5	●	●	●	■	●	●	◐
	1.10 (1.44)	0.96 (1.26)	1,375 (54.1")	890 (1,960)	5	●	◐	■	▲	●	◐	■
	1.20 (1.57)	1.05 (1.37)	1,390 (54.7")	920 (2,030)	5	◐	◐	■	▲	◐	■	■
	1.34 (1.75)	1.17 (1.53)	1,525 (60.0")	990 (2,180)	6	◐	■	▲	X	■	■	▲
Heavy duty	0.90 (1.18)	0.79 (1.03)	1,210 (47.6")	880 (1,940)	5	●	●	●	■	●	●	◐
	1.05 (1.37)	0.92 (1.20)	1,355 (53.3")	940 (2,070)	5	●	●	◐	▲	●	◐	■
	0.85 (1.11)	0.76 (0.99)	962 (37.9")	860 (1,900)	4	●	●	●	◐	●	●	●
	1.00 (1.31)	0.89 (1.16)	1,112 (43.8")	950 (2,090)	5	●	●	◐	▲	●	●	◐
	1.15 (1.50)	1.01 (1.32)	1,262 (49.7")	1,030 (2,270)	6	●	◐	■	▲	◐	◐	■
Rock heavy duty	0.87 (1.14)	0.76 (0.99)	1,195 (47.0")	940 (2,070)	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.

2) HX210A L, 4700 KG COUNTERWEIGHT



General bucket



Heavy duty
(without side cutter)



Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter			Recommendation				mm (ft-in)		
						5.65 m (18' 6") Boom				5.65 m (18' 6") Boom		
						m³ (yd³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.10 m (6' 7") Arm	2.4 m (7' 10") Arm
General bucket	0.80 (1.05)	0.70 (0.92)	1,070 (42.1")	770 (1,700)	5	●	●	●	●	●	●	●
	0.87 (1.14)	0.76 (0.99)	1,140 (44.9")	804 (1,770)	5	●	●	●	●	●	●	●
	0.92 (1.20)	0.80 (1.05)	1,190 (46.9")	820 (1,810)	5	●	●	●	◐	●	●	●
	1.10 (1.44)	0.96 (1.26)	1,375 (54.1")	890 (1,960)	5	●	●	◐	■	●	●	◐
	1.20 (1.57)	1.05 (1.37)	1,390 (54.7")	920 (2,030)	5	●	●	◐	▲	●	◐	■
	1.34 (1.75)	1.17 (1.53)	1,525 (60.0")	990 (2,180)	6	●	◐	■	▲	◐	◐	■
Heavy duty	0.90 (1.18)	0.79 (1.03)	1,210 (47.6")	880 (1,940)	5	●	●	●	◐	●	●	●
	1.05 (1.37)	0.92 (1.20)	1,355 (53.3")	940 (2,070)	5	●	●	●	■	●	●	◐
	0.85 (1.11)	0.76 (0.99)	962 (37.9")	860 (1,900)	4	●	●	●	●	●	●	●
	1.00 (1.31)	0.89 (1.16)	1,112 (43.8")	950 (2,090)	5	●	●	●	■	●	●	●
	1.15 (1.50)	1.01 (1.32)	1,262 (49.7")	1,030 (2,270)	6	●	●	◐	▲	●	◐	◐
Rock heavy duty	0.87 (1.14)	0.76 (0.99)	1,195 (47.0")	940 (2,070)	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.

3) HX210A NL, 3800 KG COUNTERWEIGHT



General bucket



Heavy duty
(without side cutter)



Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter			Recommendation				mm (ft-in)		
						5.65 m (18' 6") Boom				5.65 m (18' 6") Boom		
						2.10 m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm	3.9 m (12' 10") Arm	2.0m (6' 7") Arm	2.4 m (7' 10") Arm	2.92 m (9' 7") Arm
General bucket	0.80 (1.05)	0.70 (0.92)	1,070 (42.1")	770 (1,700)	5	●	●	◐	▲	●	◐	■
	0.87 (1.14)	0.76 (0.99)	1,140 (44.9")	804 (1,770)	5	●	◐	■	▲	●	◐	■
	0.92 (1.20)	0.80 (1.05)	1,190 (46.9")	820 (1,810)	5	●	◐	■	X	◐	■	▲
	1.10 (1.44)	0.96 (1.26)	1,375 (54.1")	890 (1,960)	5	■	■	▲	X	■	▲	▲
	1.20 (1.57)	1.05 (1.37)	1,390 (54.7")	920 (2,030)	5	■	▲	X	X	▲	▲	X
	1.34 (1.75)	1.17 (1.53)	1,525 (60.0")	990 (2,180)	6	▲	▲	X	X	▲	X	X
Heavy duty	0.90 (1.18)	0.79 (1.03)	1,210 (47.6")	880 (1,940)	5	●	◐	■	X	◐	■	▲
	1.05 (1.37)	0.92 (1.20)	1,355 (53.3")	940 (2,070)	5	■	▲	▲	X	■	▲	▲
	0.85 (1.11)	0.76 (0.99)	962 (37.9")	860 (1,900)	4	●	◐	■	▲	●	◐	■
	1.00 (1.31)	0.89 (1.16)	1,112 (43.8")	950 (2,090)	5	◐	■	▲	X	■	■	▲
	1.15 (1.50)	1.01 (1.32)	1,262 (49.7")	1,030 (2,270)	6	■	▲	X	X	▲	▲	X
Rock heavy duty	0.87 (1.14)	0.76 (0.99)	1,195 (47.0")	940 (2,070)	5	●	◐	■	X	◐	■	▲

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

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

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

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

4) HX210A NL, 4700 KG COUNTERWEIGHT



General bucket



Heavy duty
(without side cutter)



Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				2-PIECE		
	SAE Heaped	CECE heaped	Without side cutter			Recommendation				mm (ft-in)		
						5.65 m (18' 6") Boom				5.65 m (18' 6") Boom		
						m³ (yd³)	m³ (yd³)	mm (in)	kg (lb)	EA	2.10 m (6' 7") Arm	2.4 m (7' 10") Arm
General bucket	0.80 (1.05)	0.70 (0.92)	1,070 (42.1")	770 (1,700)	5	●	●	●	■	●	●	●
	0.87 (1.14)	0.76 (0.99)	1,140 (44.9")	804 (1,770)	5	●	●	◐	■	●	●	◐
	0.92 (1.20)	0.80 (1.05)	1,190 (46.9")	820 (1,810)	5	●	●	◐	▲	●	◐	■
	1.10 (1.44)	0.96 (1.26)	1,375 (54.1")	890 (1,960)	5	◐	■	■	X	◐	■	▲
	1.20 (1.57)	1.05 (1.37)	1,390 (54.7")	920 (2,030)	5	◐	■	▲	X	■	■	▲
	1.34 (1.75)	1.17 (1.53)	1,525 (60.0")	990 (2,180)	6	■	▲	▲	X	■	▲	X
Heavy duty	0.90 (1.18)	0.79 (1.03)	1,210 (47.6")	880 (1,940)	5	●	●	◐	▲	●	◐	■
	1.05 (1.37)	0.92 (1.20)	1,355 (53.3")	940 (2,070)	5	◐	◐	■	▲	◐	■	▲
	0.85 (1.11)	0.76 (0.99)	962 (37.9")	860 (1,900)	4	●	●	◐	■	●	●	◐
	1.00 (1.31)	0.89 (1.16)	1,112 (43.8")	950 (2,090)	5	●	◐	■	▲	◐	◐	■
	1.15 (1.50)	1.01 (1.32)	1,262 (49.7")	1,030 (2,270)	6	◐	■	▲	X	■	■	▲
Rock heavy duty	0.87 (1.14)	0.76 (0.99)	1,195 (47.0")	940 (2,070)	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) TYPES OF SHOES

Model	Description	Unit		Triple grouser								Double grouser	
	width	mm	(in)	600	(24)	700	(28)	800	(32)	900	(36)	700	(28)
HX210A L MONO (NA)	Operating weight	kg	(lb)	22150	48830	22620	49870	22890	50460	23170	51080	22880	50440
	Ground pressure	kgf/cm ²	(psi)	0.47	6.71	0.41	5.87	0.37	5.20	0.33	4.68	0.42	5.94
	Overall width	mm	(ft-in)	2990	9'10"	3090	10'2"	3190	10'6"	3290	10'10"	3090	10'2"
	Link quantity	EA		49		49		49		49		49	
HX210A L 2 pcs (EU)	Operating weight	kg	(lb)	23330	51430	23810	52490	24090	53110	24370	53730	24090	53090
	Overall width	mm	(ft-in)	2990	9'10"	3090	10'2"	3190	10'6"	3290	10'10"	3090	10'2"
	Link quantity	EA		49		49		49		49		49	

Model	Description	Unit		Triple grouser			
	width	mm	(in)	500	(20)	600	(24)
HX210A NL MONO (EU)	Operating weight	kg	(lb)	22800	50270	22900	50490
	Ground pressure	kgf/cm ²	(psi)	0.58	8.29	0.49	6.93
	Overall width	mm	(ft-in)	2550	8' 4"	2650	8' 8"
	Link quantity	EA		49		49	
HX210A NL 2 pcs (EU)	Operating weight	kg	(lb)	24010	52930	24410	53150
	Ground pressure	kgf/cm ²	(psi)	0.61	8.73	0.51	7.30
	Overall width	mm	(ft-in)	2550	8' 4"	2650	8' 8"
	Link quantity	EA		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
500 mm triple grouser (HX210A NL)	Standard	A
600 mm triple grouser (HX210A L)	Standard	A
600 mm triple grouser HD (HX210A L)	Option	A
700 mm triple grouser	Option	B
700 mm double 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 / B4.5
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	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.21" × 4.88")
Displacement	4.5 ℓ (275 cu in)
Compression ratio	17.2 : 1
Gross power	173 Hp (129 kW) at 2200 rpm
Net power	170 Hp (127 kW) at 2200 rpm
Max. power	190 Hp (142 kW) at 2000 rpm
Peak Torque	780 N · m (575 lb · ft) at 1,500 rpm
Engine oil quantity	11 ℓ (2.9 U.S. gal)
Wet weight or Dry weight	383 kg (845 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 × 234 ℓ /min (61.9 U.S. gpm / 51.5 U.K. gpm)
Rated speed	1800 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	18 ℓ /min (4.8 U.S. gpm/4.0 U.K. gpm)

4) MAIN CONTROL VALVE

Item		Specification
Type		9 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	290 kgf/cm ² (4125 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	1183 kgf · m (8560 lbf · ft) over
Brake release pressure	20.9 kgf/cm ² (297 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	3028 kgf · m (21900 lbf · ft)
Brake release pressure	13.5 kgf/cm ² (192 psi)
Reduction gear type	2-stage planetary

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø 120 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø 140 × 1510 mm
	Cushion	Extend and retract
Arm cylinder (2-piece boom)	Bore dia × Stroke	Ø 140 × 1510 mm
	Cushion	Extend and retract
Adjust cylinder (2-piece boom)	Bore dia × Stroke	Ø 160 × 1060 mm
	Cushion	NA
Bucket cylinder	Bore dia × Stroke	Ø 120 × 1055 mm
	Cushion	Extend only
Bucket cylinder (Long reach)	Bore dia × Stroke	Ø 120 × 1055 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)	30 (86)	40 (104)	
Engine oil pan	Engine oil	11 (2.9)	★SAE 0W-40									
				SAE 5W-30								
				SAE 5W-40								
				SAE 15W-40								
DEF/ AdBlue® tank	Mixture of urea and deionized water	47.5 (12.5)	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 165 (43.6)	★ISO VG 15									
			ISO VG 32									
		System 340 (89.8)		ISO VG 46, HBHO VG 46★ ³								
				ISO VG 68								
Fuel tank	Diesel fuel★ ¹	310 (81.9)	★ASTM D975 NO.1									
				ASTM D975 NO.2								
Fitting (grease nipple)	Grease	As required	★NLGI NO.1									
				NLGI NO.2								
Radiator (reservoir tank)	Mixture of antifreeze and soft water★ ²	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

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.