

SECTION 1 GENERAL



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SECTION 1 GENERAL

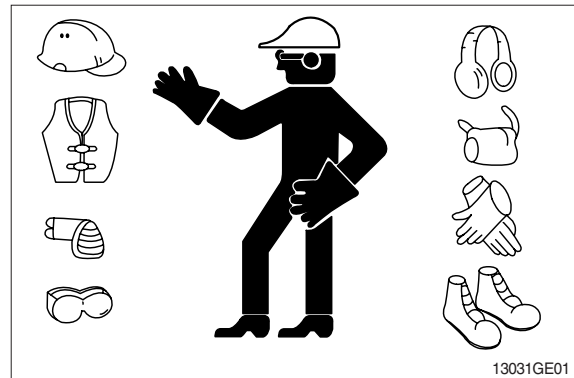
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

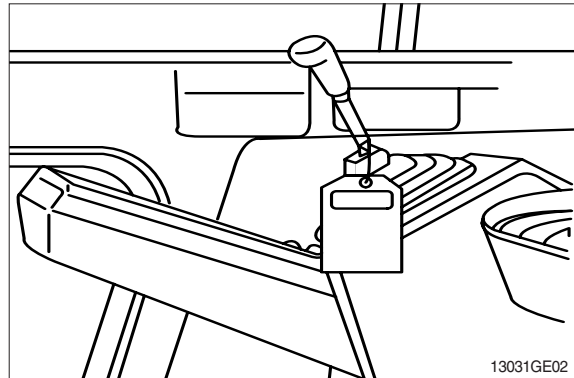
Wear close fitting clothing and safety equipment appropriate to the job.



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.



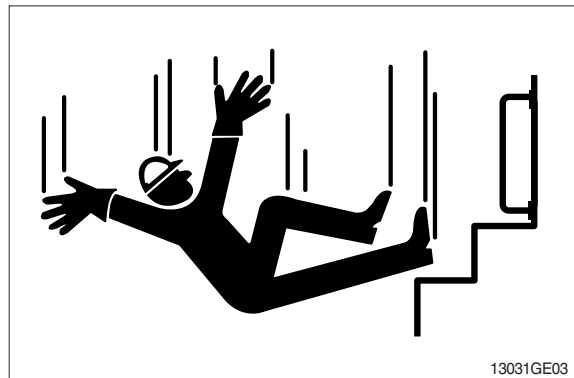
USE HANDHOLDS AND STEPS

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.

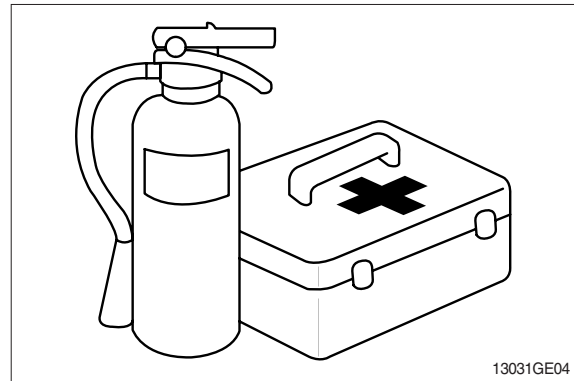


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

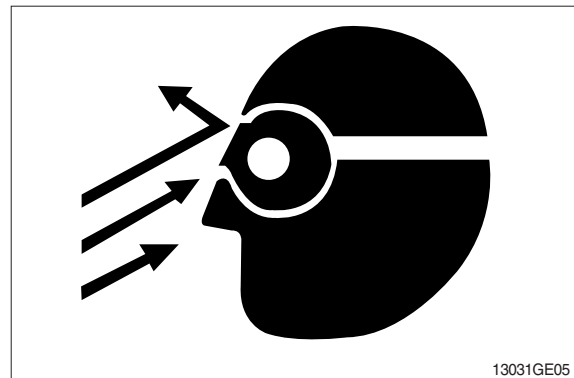
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

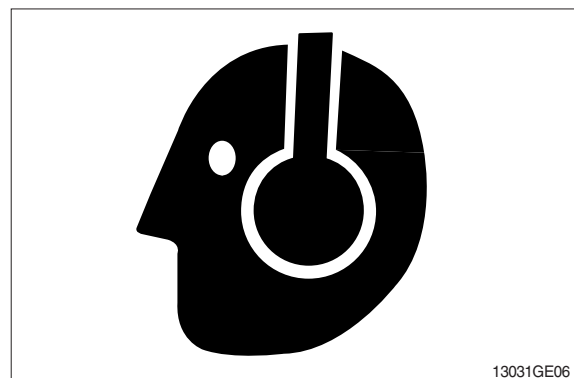
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

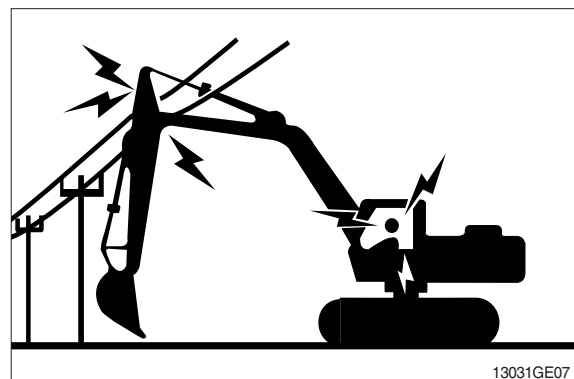
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

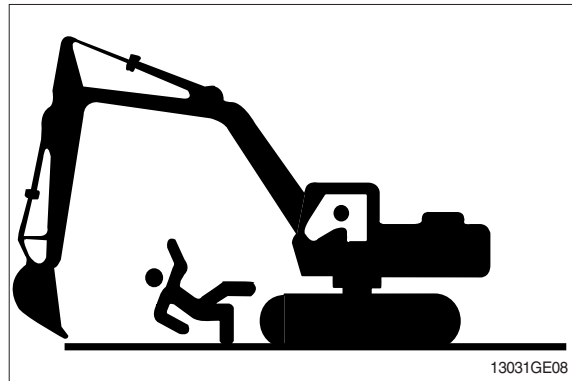
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

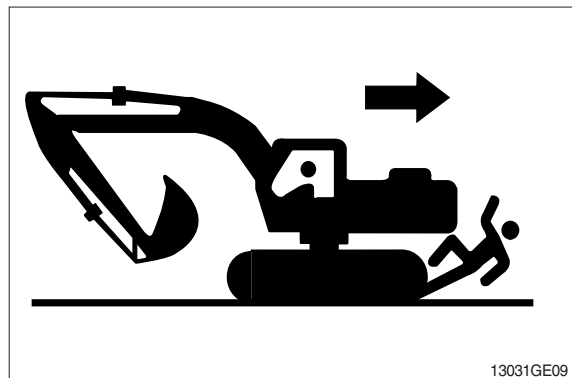


MOVE AND OPERATE MACHINE SAFELY

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:

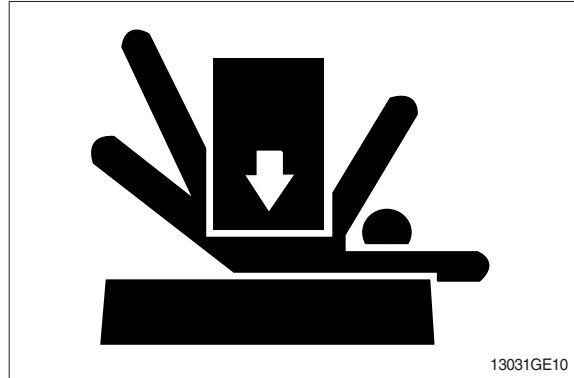
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

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.

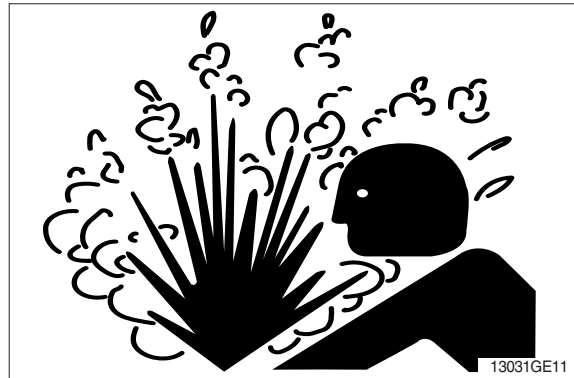
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



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

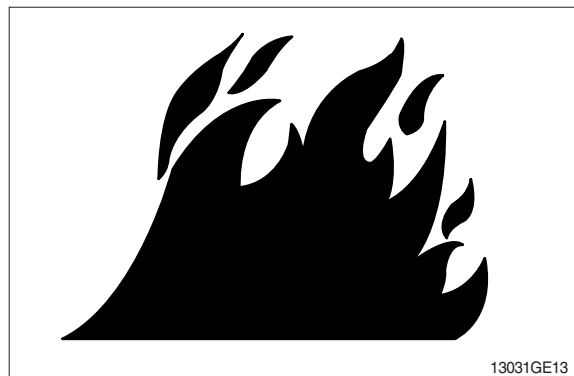
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

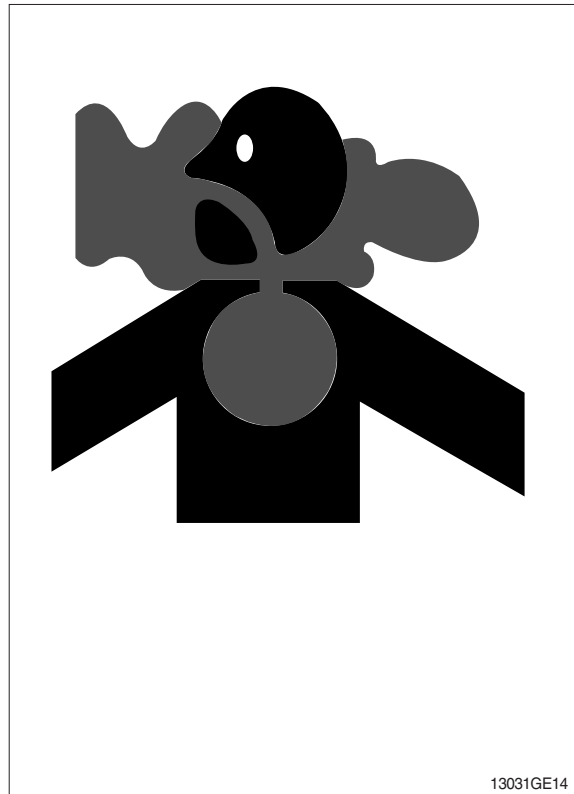
Avoid potentially toxic fumes and dust.

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

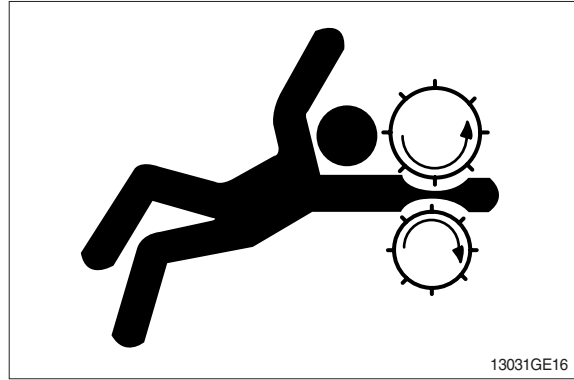
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



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.

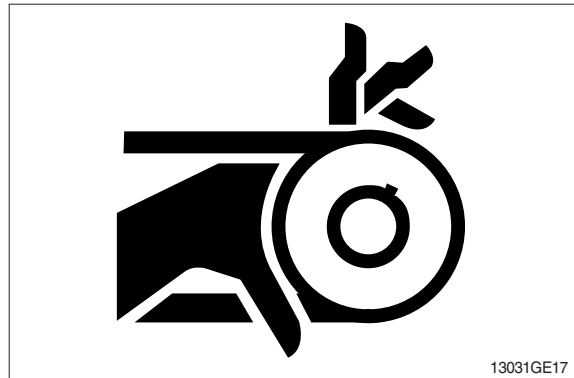
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



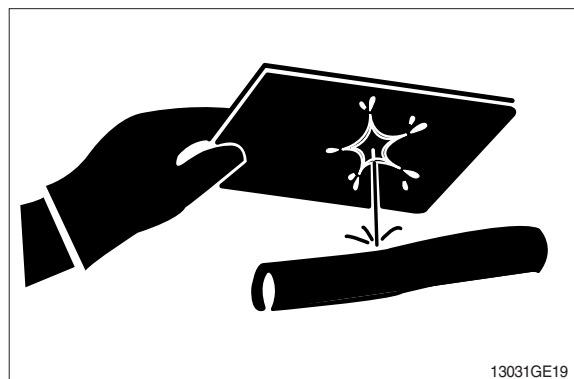
AVOID HIGH PRESSURE FLUIDS

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:

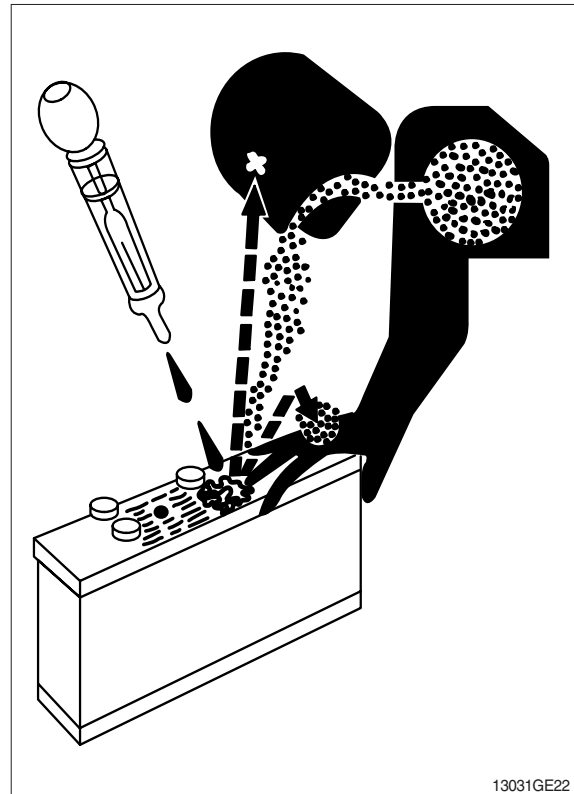
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



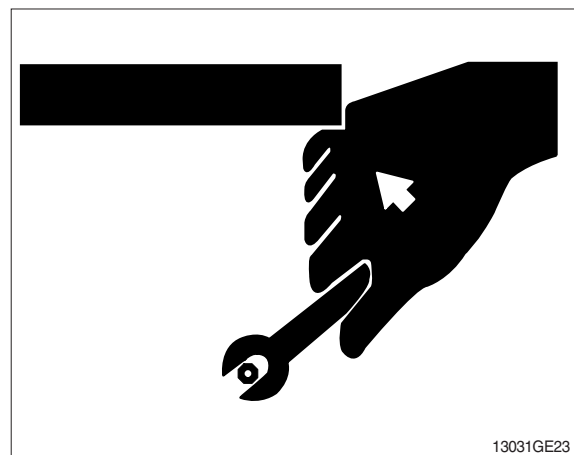
USE TOOLS PROPERLY

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 catalogue.)

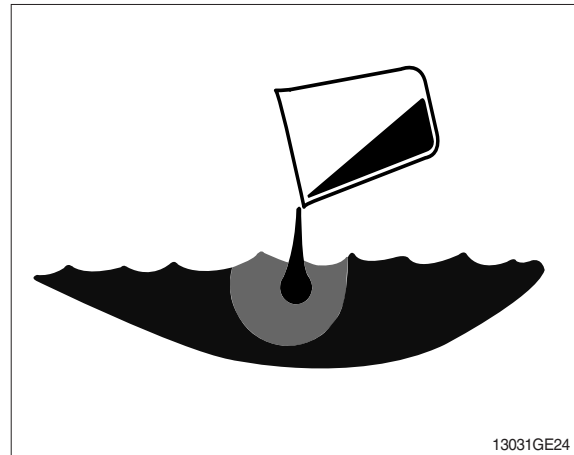


DISPOSE OF FLUIDS PROPERLY

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.

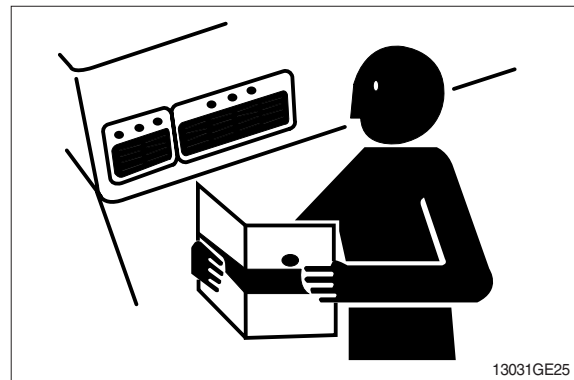
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

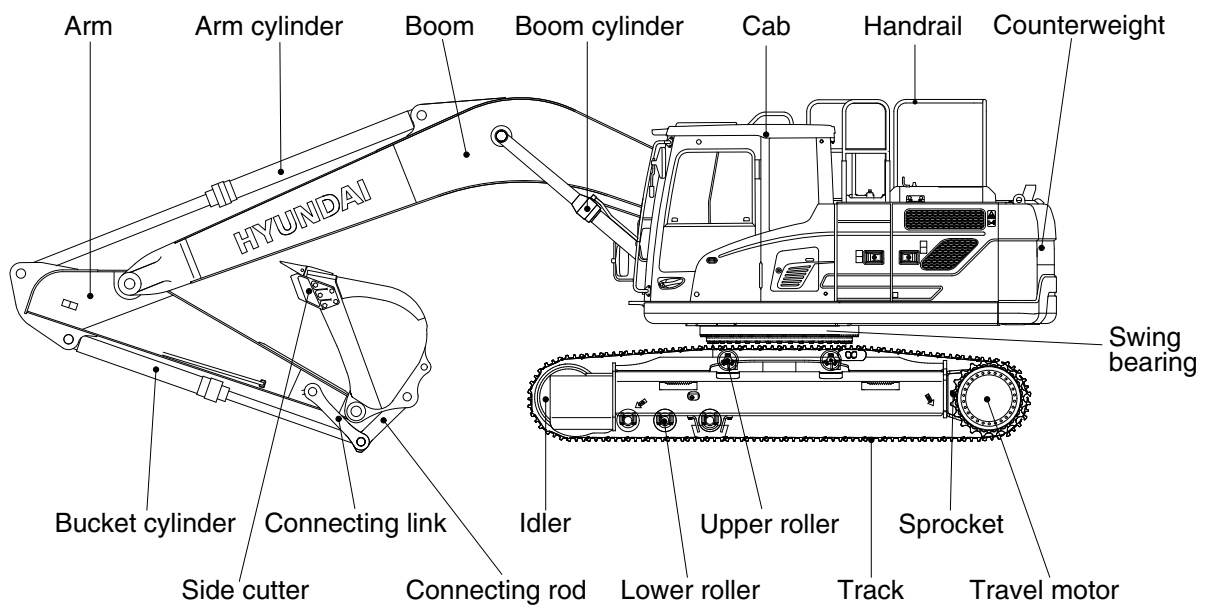
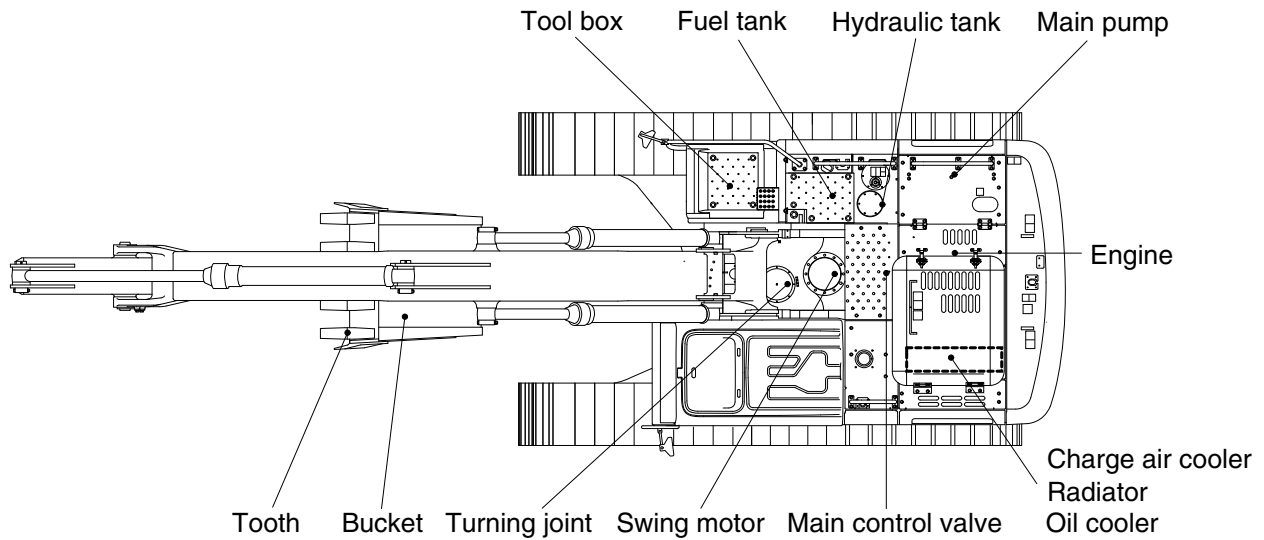


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

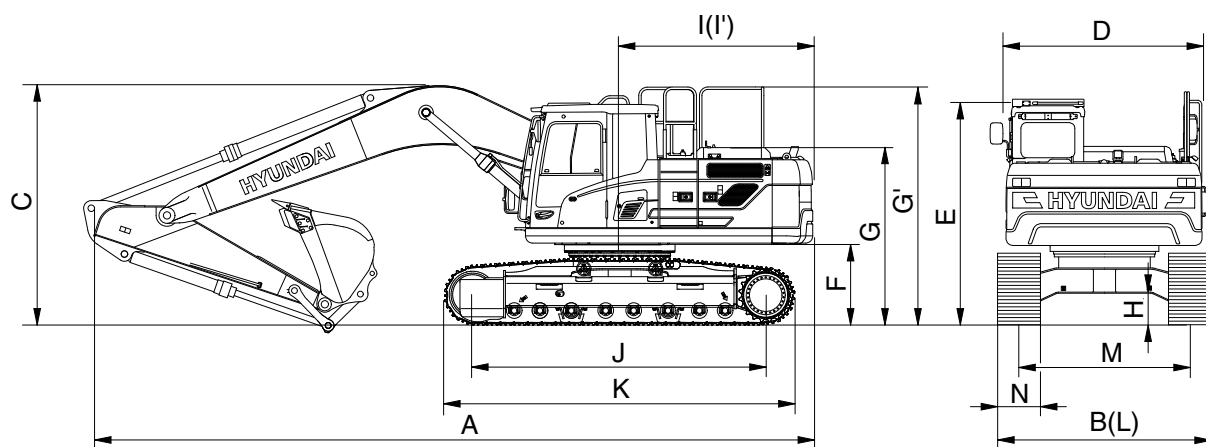
1. MAJOR COMPONENT



220SA2SP01A

2. SPECIFICATIONS

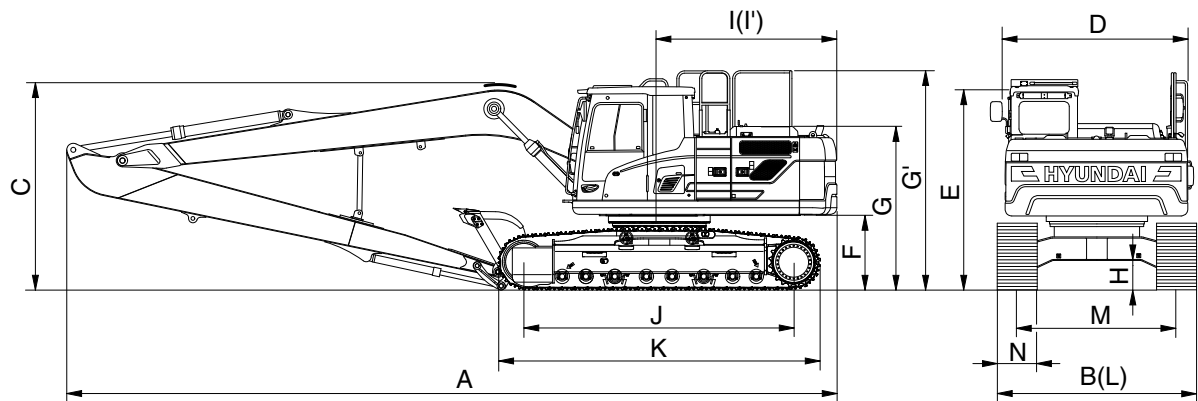
1) HX220LT3, MONO BOOM



220SA2SP02A

Description	Unit		Specification			
	m (ft-in)	Boom	5.70 (18' 8")			
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")	3.50 (11' 6")
	mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)		21970 (48440)	21810 (48080)	21880 (48240)	22190 (48920)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)	9550 (31' 4")	9620 (31' 7")	9575 (31' 4")	9560 (31' 4")
Overall width	B		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")
Overall height of boom	C		2960 (9' 9")	3115 (10' 3")	3020 (9' 11")	3320 (10' 11")
Superstructure width	D		2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")
Overall height of cab	E		3035 (9' 11")	3035 (9' 11")	3035 (9' 11")	3035 (9' 11")
Ground clearance of counterweight	F		1095 (3' 7")	1095 (3' 7")	1095 (3' 7")	1095 (3' 7")
Overall height of engine hood	G		2371 (7' 9")	2371 (7' 9")	2371 (7' 9")	2371 (7' 9")
Overall height of handrail	G'		3245 (10' 8")	3245 (10' 8")	3245 (10' 8")	3245 (10' 8")
Minimum ground clearance	H		475 (1' 7")	475 (1' 7")	475 (1' 7")	475 (1' 7")
Rear-end distance	I		2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'		2890 (9' 6")	2890 (9' 6")	2890 (9' 6")	2890 (9' 6")
Distance between tumblers	J		3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K		4395 (14' 5")	4395 (14' 5")	4395 (14' 5")	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 (2' 0")	600 (2' 0")	600 (2' 0")	600 (2' 0")
Travel speed (low/high)	km/hr (mph)		3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)
Swing speed	rpm		12.69	12.69	12.69	12.69
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm ² (psi)		0.47 (6.67)	0.47 (6.62)	0.47 (6.64)	0.47 (6.74)
Max traction force	kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)	21100 (46517)

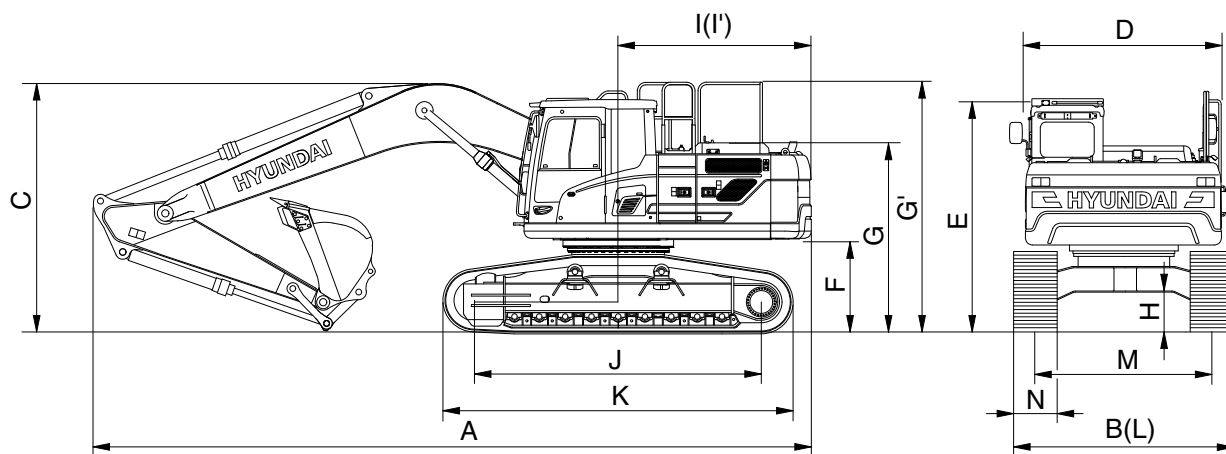
2) HX220LT3 LR



220SA2SP03A

Description		Unit		Specification
		m (ft-in)	Boom	8.50 (27' 11")
			Arm	6.20 (20' 4")
		mm (in)	Shoe	800 (32")
Operating weight		kg (lb)		24700 (54450)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)		0.52 (0.68)
Overall length	A	mm (ft-in)		12345 (40' 6")
Overall width	B			3190 (10' 6")
Overall height of boom	C			3365 (11' 0")
Superstructure width	D			2740 (9' 0")
Overall height of cab	E			3035 (9' 11")
Ground clearance of counterweight	F			1095 (3' 7")
Overall height of engine hood	G			2371 (7' 9")
Overall height of handrail	G'			3245 (10' 8")
Minimum ground clearance	H			475 (1' 7")
Rear-end distance	I			2770 (9' 1")
Rear-end swing radius	I'			2890 (9' 6")
Distance between tumblers	J			3650 (12' 0")
Undercarriage length	K			4395 (14' 5")
Undercarriage width	L			3190 (10' 6")
Track gauge	M			2390 (7' 10")
Track shoe width, standard	N			800 (2' 7")
Travel speed (low/high)		km/hr (mph)		3.47/5.47 (2.16/3.40)
Swing speed		rpm		12.69
Gradeability		Degree (%)		35 (70)
Ground pressure		kgf/cm ² (psi)		0.40 (5.62)
Max traction force		kg (lb)		21100 (46517)

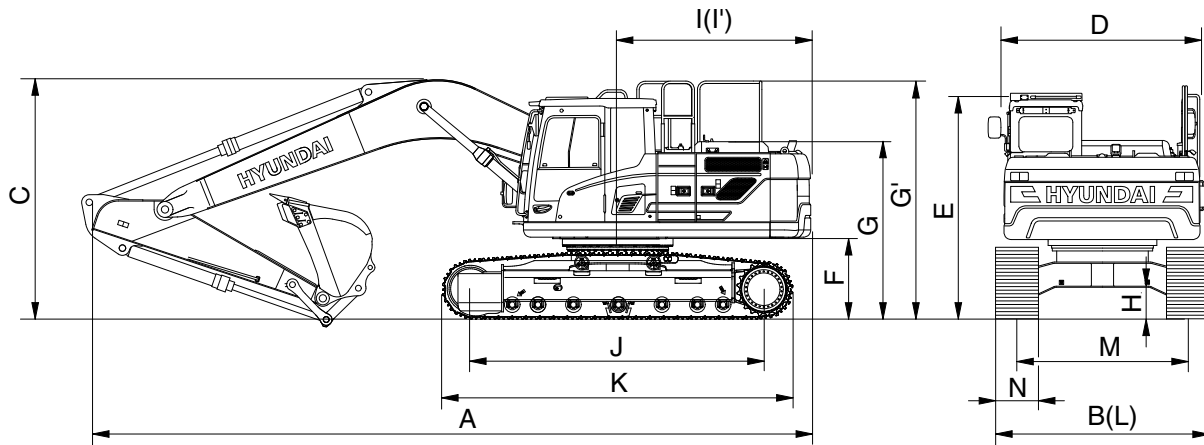
3) HX220LT3 HW, MONO BOOM



220SA2SP04

Description	Unit		Specification			
	m (ft-in)	Boom	5.70 (18' 8")			
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")	3.50 (11' 6")
	mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)		24080 (53090)	23920 (52730)	23980 (52870)	24300 (53570)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)	9515 (31' 3")	9625 (31' 7")	9560 (31' 4")	9575 (31' 5")
Overall width	B		3395 (11' 2")	3395 (11' 2")	3395 (11' 2")	3395 (11' 2")
Overall height of boom	C		2975 (9' 9")	3195 (10' 6")	3090 (10' 2")	3275 (10' 9")
Superstructure width	D		2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")
Overall height of cab	E		3200 (10' 6")	3200 (10' 6")	3200 (10' 6")	3200 (10' 6")
Ground clearance of counterweight	F		1260 (4' 2")	1260 (4' 2")	1260 (4' 2")	1260 (4' 2")
Overall height of engine hood	G		2571 (8' 5")	2571 (8' 5")	2571 (8' 5")	2571 (8' 5")
Overall height of handrail	G'		3410 (11' 2")	3410 (11' 2")	3410 (11' 2")	3410 (11' 2")
Minimum ground clearance	H		660 (2' 2")	660 (2' 2")	660 (2' 2")	660 (2' 2")
Rear-end distance	I		2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'		2890 (9' 6")	2890 (9' 6")	2890 (9' 6")	2890 (9' 6")
Distance between tumblers	J		3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")
Undercarriage length	K		4450 (14' 7")	4450 (14' 7")	4450 (14' 7")	4450 (14' 7")
Undercarriage width	L		3395 (11' 2")	3395 (11' 2")	3395 (11' 2")	3395 (11' 2")
Track gauge	M		2795 (9' 2")	2795 (9' 2")	2795 (9' 2")	2795 (9' 2")
Track shoe width, standard	N		600 (2' 0")	600 (2' 0")	600 (2' 0")	600 (2' 0")
Travel speed (low/high)	km/hr (mph)		3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)
Swing speed	rpm		12.69	12.69	12.69	12.69
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm ² (psi)		0.51 (7.31)	0.51 (7.26)	0.51 (7.28)	0.52 (7.38)
Max traction force	kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)	21100 (46517)

4) HX220T3 SC

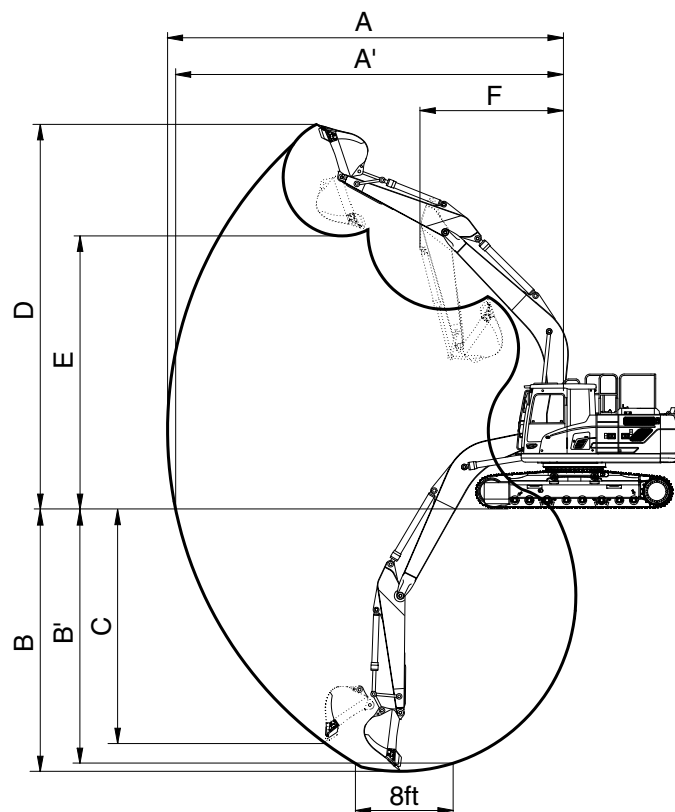


220SA2SP08

Description	Unit		Specification			
	m (ft-in)	Boom	5.70 (18' 8")			
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")	3.50 (11' 6")
	mm (in)	Shoe	600 (24")			
Operating weight	kg (lb)		22140 (48810)	21980 (48460)	22040 (48590)	22350 (49270)
Bucket capacity (SAE heaped), standard	m³ (yd³)		0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)
Overall length	A	mm (ft-in)	9550 (31' 4")	9620 (31' 7")	9575 (31' 5")	9560 (31' 4")
Overall width	B		2800 (9' 2")	2800 (9' 2")	2800 (9' 2")	2800 (9' 2")
Overall height of boom	C		2960 (9' 9")	3115 (10' 3")	3020 (9' 11")	3320 (10' 11")
Superstructure width	D		2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")
Overall height of cab	E		3035 (9' 11")	3035 (9' 11")	3035 (9' 11")	3035 (9' 11")
Ground clearance of counterweight	F		1095 (3' 7")	1095 (3' 7")	1095 (3' 7")	1095 (3' 7")
Overall height of engine hood	G		2371 (7' 9")	2371 (7' 9")	2371 (7' 9")	2371 (7' 9")
Overall height of handrail	G'		3245 (10' 8")	3245 (10' 8")	3245 (10' 8")	3245 (10' 8")
Minimum ground clearance	H		475 (1' 7")	475 (1' 7")	475 (1' 7")	475 (1' 7")
Rear-end distance	I		2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Rear-end swing radius	I'		2890 (9' 6")	2890 (9' 6")	2890 (9' 6")	2890 (9' 6")
Distance between tumblers	J		3270 (10' 9")	3270 (10' 9")	3270 (10' 9")	3270 (10' 9")
Undercarriage length	K		4015 (13' 2")	4015 (13' 2")	4015 (13' 2")	4015 (13' 2")
Undercarriage width	L		2800 (9' 2")	2800 (9' 2")	2800 (9' 2")	2800 (9' 2")
Track gauge	M		2200 (7' 3")	2200 (7' 3")	2200 (7' 3")	2200 (7' 3")
Track shoe width, standard	N		800 (2' 7")	800 (2' 7")	800 (2' 7")	800 (2' 7")
Travel speed (low/high)	km/hr (mph)		3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)	3.47/5.47 (2.16/3.40)
Swing speed	rpm		12.69	12.69	12.69	12.69
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm² (psi)		0.35 (5.04)	0.35 (5.00)	0.35 (5.02)	0.36 (5.09)
Max traction force	kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)	21100 (46517)

3. WORKING RANGE AND DIGGING FORCE

1) HX220LT3, MONO BOOM

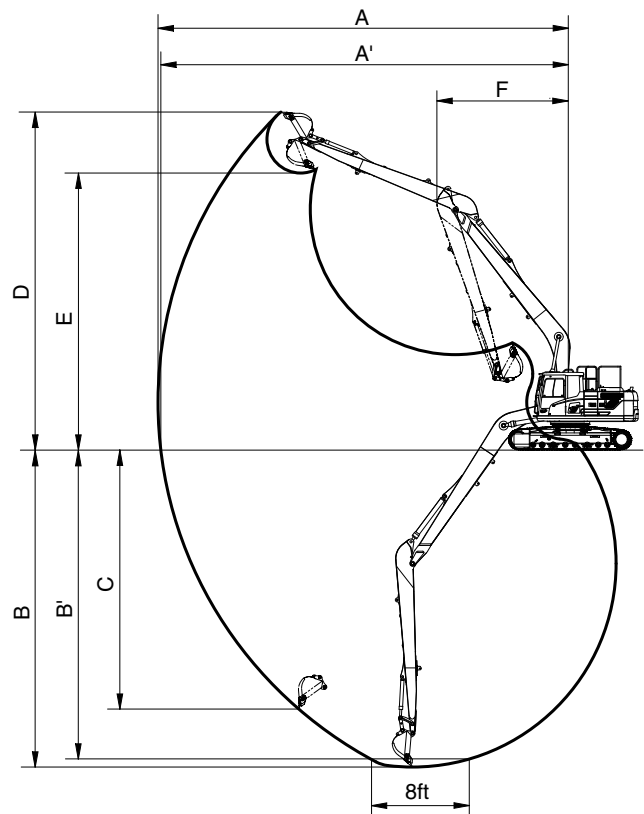


220SA2SP05A

Description	m (ft-in)	Boom	5.70 (18' 8")			
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")	3.50 (11' 6")
Max digging reach	mm (ft-in)	A	9945 (32' 8")	9145 (30' 0")	9525 (31' 3")	10450 (34' 3")
Max digging reach on ground		A'	9780 (32' 1")	8960 (29' 5")	9355 (30' 8")	10290 (33' 9")
Max digging depth		B	6500 (21' 4")	5585 (18' 4")	5990 (19' 8")	7090 (23' 3")
Max digging depth (8 ft level)		B'	6315 (20' 9")	5360 (17' 7")	5790 (19' 0")	6935 (22' 9")
Max vertical wall digging depth		C	5960 (19' 7")	5070 (16' 8")	5445 (17' 10")	6330 (20' 9")
Max digging height		D	9750 (32' 0")	9370 (30' 9")	9625 (31' 7")	9890 (32' 5")
Max dumping height		E	6990 (22' 11")	6580 (21' 7")	6830 (22' 5")	7160 (23' 6")
Min swing radius		F	3425 (11' 3")	3715 (12' 2")	3400 (11' 2")	3445 (11' 4")
Bucket digging force	kN	SAE	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]
	kgf		13300 [14440]	13300 [14440]	13300 [14440]	13300 [14440]
	lbf		29320 [31830]	29320 [31830]	29320 [31830]	29320 [31830]
	kN	ISO	152.3 [165.3]	152.3 [165.3]	152.3 [165.3]	152.3 [165.3]
	kgf		15530 [16860]	15530 [16860]	15530 [16860]	15530 [16860]
	lbf		34240 [37170]	34240 [37170]	34240 [37170]	34240 [37170]
Arm digging force	kN	SAE	102.8 [111.6]	144.3 [156.6]	119.3 [129.4]	92.2 [100.1]
	kgf		10480 [11380]	14710 [15970]	12160 [13200]	9400 [10210]
	lbf		23100 [25090]	32430 [35210]	26810 [29100]	20720 [22510]
	kN	ISO	106.9 [116.0]	152.0 [165.0]	124.7 [135.4]	95.4 [103.6]
	kgf		10900 [11830]	15500 [16830]	12720 [13810]	9730 [10560]
	lbf		24030 [26080]	34170 [37100]	28040 [30450]	21450 [23280]

[] : Power boost

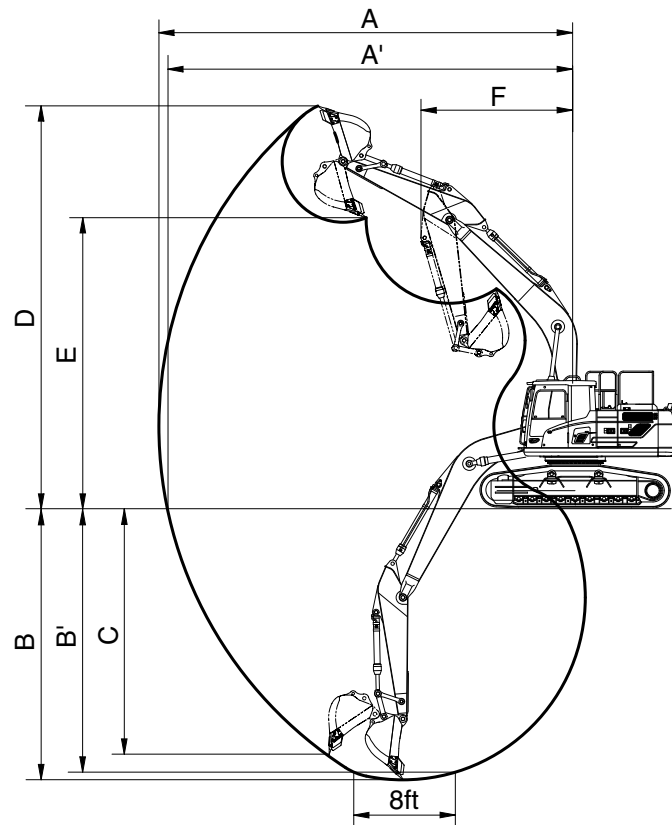
2) HX220LT3 LR



220SA2SP06A

Description	m (ft-in)	Boom	8.50 (27' 11")
		Arm	6.20 (20' 4")
Max digging reach	mm (ft-in)	A	15425 (50' 7")
Max digging reach on ground		A'	15320 (50' 3")
Max digging depth		B	11500 (37' 9")
Max digging depth (8 ft level)		B'	11355 (37' 3")
Max vertical wall digging depth		C	10265 (33' 8")
Max digging height		D	13445 (44' 1")
Max dumping height		E	11200 (36' 9")
Min swing radius		F	4705 (15' 5")
Bucket digging force	kN	SAE	68.0
	kgf		6930
	lbf		15280
	kN	ISO	80.3
	kgf		8190
	lbf		18060
Arm digging force	kN	SAE	49.5
	kgf		5050
	lbf		11130
	kN	ISO	50.5
	kgf		5150
	lbf		11350

3) HX220LT3 HW

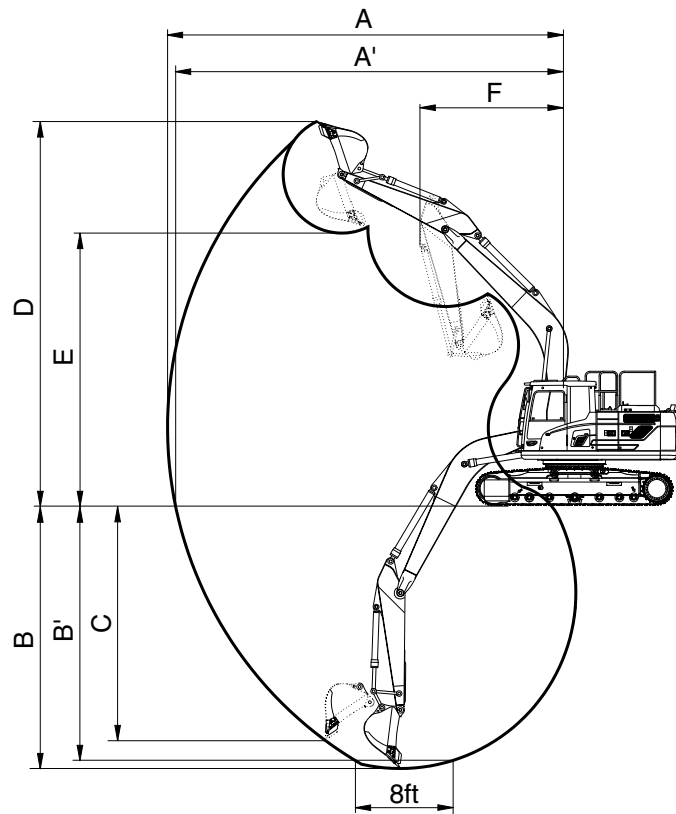


220SA2SP07

Description	m (ft-in)	Boom	5.70 (18' 8")			
		Arm	2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")	3.50 (11' 6")
Max digging reach	mm (ft-in)	A	9945 (32' 8")	9145 (30' 0")	9525 (31' 3")	10450 (34' 3")
Max digging reach on ground		A'	9740 (31' 11")	8920 (29' 3")	9310 (30' 7")	10255 (33' 8")
Max digging depth		B	6290 (20' 8")	5385 (17' 8")	5785 (19' 0")	6890 (22' 7")
Max digging depth (8 ft level)		B'	6115 (20' 1")	5160 (16' 11")	5590 (18' 4")	6735 (22' 1")
Max vertical wall digging depth		C	5760 (18' 11")	4870 (16' 0")	5245 (17' 2")	6130 (20' 1")
Max digging height		D	9950 (32' 8")	9570 (31' 5")	9825 (32' 3")	10090 (33' 1")
Max dumping height		E	7190 (23' 7")	6780 (22' 3")	7030 (23' 1")	7360 (24' 2")
Min swing radius		F	3425 (11' 3")	3715 (12' 2")	3340 (10' 11")	3445 (11' 4")
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		29980 [32560]	29980 [32560]	29980 [32560]	29980 [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		34170 [37100]	34170 [37100]	34170 [37100]	34170 [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		22930 [24890]	32410 [35190]	26900 [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]	33950 [36860]	28220 [30640]	19620 [21300]

[] : Power boost

4) HX220T3 SC



220SA2SP09

Description	m (ft-in)	Boom				
		Arm	5.70 (18' 8")			
			2.90 (9' 6")	2.00 (6' 7")	2.40 (7' 10")	3.50 (11' 6")
Max digging reach	mm (ft-in)	A	9945 (32' 8")	9145 (30' 0")	9525 (31' 3")	10450 (34' 3")
Max digging reach on ground		A'	9780 (32' 1")	8960 (29' 5")	9355 (30' 8")	10290 (33' 9")
Max digging depth		B	6500 (21' 4")	5585 (18' 4")	5990 (19' 8")	7090 (23' 3")
Max digging depth (8 ft level)		B'	6315 (20' 9")	5360 (17' 7")	5790 (19' 0")	6935 (22' 9")
Max vertical wall digging depth		C	5960 (19' 7")	5070 (16' 8")	5445 (17' 10")	6330 (20' 9")
Max digging height		D	9750 (32' 0")	9370 (30' 9")	9625 (31' 7")	9890 (32' 5")
Max dumping height		E	6990 (22' 11")	6580 (21' 7")	6830 (22' 5")	7160 (23' 6")
Min swing radius		F	3425 (11' 3")	3715 (12' 2")	3400 (11' 2")	3445 (11' 4")
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		29980 [32560]	29980 [32560]	29980 [32560]	29980 [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		34170 [37100]	34170 [37100]	34170 [37100]	34170 [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		22930 [24890]	32410 [35190]	26900 [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]	33950 [36860]	28220 [30640]	19620 [21300]

[] : Power boost

4. WEIGHT

Item	HX220LT3		HX220LT3 LR		HX220LT3 HW		HX220T3 SC	
	kg	lb	kg	lb	kg	lb	kg	lb
Upperstructure assembly								
· Main frame weld assembly	1790	3950	1790	3950	1825	4020	1790	3950
· Engine assembly	552	1217	552	1217	552	1217	552	1217
· Main pump assembly	146	320	146	320	146	320	146	320
· Main control valve assembly	220	490	220	490	220	490	220	490
· Swing motor assembly	236	520	236	520	236	520	236	520
· Hydraulic oil tank WA	263	580	263	580	263	580	263	580
· Fuel tank WA	218	480	218	480	218	480	218	480
· Counterweight	3800	8380	5300	11680	3800	8380	3800	8380
· Cab assembly	422	930	422	930	422	930	422	930
Lower chassis assembly								
· Track frame weld assembly	2530	5580	2530	5580	3605	7950	2310	5090
· Swing bearing	280	620	280	620	280	620	280	620
· Travel motor assembly (2EA)	609	1340	609	1340	609	1340	609	1340
· Turning joint	57	130	57	130	57	130	57	130
· Sprocket (2EA)	112	250	112	250	103	230	112	250
· Track recoil spring (2EA)	279	620	279	620	326	720	285	630
· Idler (2EA)	301	660	301	660	301	660	301	660
· Upper roller (4EA)	93	210	93	210	177	390	82	180
· Lower roller (16EA, HW :18EA, SC : 14EA)	797	1760	797	1760	797	1760	675	1490
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	2712	5980	-	-	-	-	-	-
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	2902	6400	-	-	2902	6400	2706	5970
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	3184	7020	-	-	3184	7020	-	-
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	3468	7650	3468	7650	3468	7650	3238	7140
· Track-chain assembly (900 mm triple grouser shoe) (2EA)	3750	8270	-	-	3750	8270	-	-
· Track-chain assembly (700 mm double grouser shoe) (2EA)	3458	7620	-	-	3458	7620	-	-
Front attachment assembly								
· 5.70 m boom assembly	1520	3350	-	-	1520	3350	1520	3350
· 2.90 m arm assembly	750	1650	-	-	750	1650	750	1650
· 0.92 m³ SAE heaped bucket	765	1690	-	-	765	1690	765	1690
· 8.50 m boom assembly	-	-	2105	4640	-	-	-	-
· 6.20 m arm assembly	-	-	1100	2430	-	-	-	-
· 0.52 m³ SAE heaped bucket	-	-	465	1030	-	-	-	-
· Boom cylinder assembly (2EA)	180	400	180	400	180	400	180	400
· Arm cylinder assembly	290	640	270	600	290	640	290	640
· Bucket cylinder assembly	175	390	130	290	175	390	175	390
· Bucket control linkage total	170	370	170	370	170	370	170	370

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

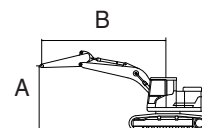
※ Refer to Transportation for actual weight information and Specifications for operating weight.













5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2900	3800	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg lb							*4920 *10850	*4920 *10850			*4330 *9550	*4330 *9550	6.21 (20.4)
6.0 m (19.7 ft)	kg lb							*4830 *10650	*4830 *10650			*4030 *8880	3800 8380	7.34 (24.1)
4.5 m (14.8 ft)	kg lb					*6130 *13510	*6130 *13510	*5330 *11750	5170 11400	*4960 *10930	3630 8000	*3960 *8730	3230 7120	8.03 (26.3)
3.0 m (9.8 ft)	kg lb					*7880 *17370	7530 16600	*6120 *13490	4920 10850	*5300 *11680	3520 7760	*4060 *8950	2950 6500	8.39 (27.5)
1.5 m (4.9 ft)	kg lb					*9500 *20940	7010 15450	*6940 *15300	4680 10320	5300 11680	3400 7500	*4320 *9520	2840 6260	8.48 (27.8)
0.0 m (0.0 ft)	kg lb			*4930 *10870	*4930 *10870	*10340 *22800	6740 14860	7230 15940	4510 9940	5210 11490	3310 7300	4520 9960	2890 6370	8.29 (27.2)
-1.5 m (-4.9 ft)	kg lb	*5620 *12390	*5620 *12390	*9400 *20720	*9400 *20720	*10370 *22860	6660 14680	7150 15760	4430 9770	5180 11420	3290 7250	4910 10820	3130 6900	7.80 (25.6)
-3.0 m (-9.8 ft)	kg lb			*13630 *30050	13110 28900	*9640 *21250	6720 14820	*7140 *15740	4470 9850			*5810 *12810	3690 8140	6.96 (22.8)
-4.5 m (-14.8 ft)	kg lb			*10720 *23630	*10720 *23630	*7730 *17040	6940 15300					*5820 *12830	5120 11290	5.60 (18.4)

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.

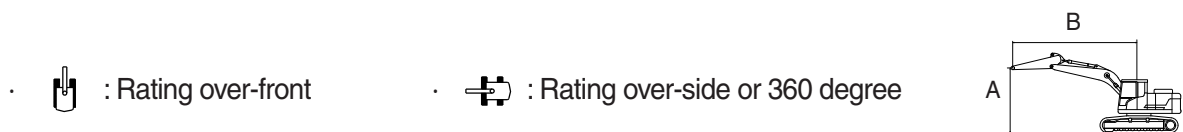
The difference between the weight of a work tool attachment must be subtracted.











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	
HX220LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2000	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*6130 *13510	*6130 *13510	5.05 (16.6)
6.0 m (19.7 ft)	kg lb			*6170 *13600	*6170 *13600	*5780 *12740	5220 11510			*5810 *12810	4700 10360	6.39 (21.0)
4.5 m (14.8 ft)	kg lb			*7370 *16250	*7370 *16250	*6130 *13510	5090 11220			*5780 *12740	3860 8510	7.17 (23.5)
3.0 m (9.8 ft)	kg lb					*6820 *15040	4880 10760	5430 11970	3530 7780	5340 11770	3470 7650	7.58 (24.9)
1.5 m (4.9 ft)	kg lb					7420 16360	4690 10340	5340 11770	3450 7610	5170 11400	3340 7360	7.67 (25.2)
0.0 m (0.0 ft)	kg lb			*10600 *23370	6820 15040	7290 16070	4580 10100			5340 11770	3440 7580	7.46 (24.5)
-1.5 m (-4.9 ft)	kg lb			*10130 *22330	6840 15080	7280 16050	4570 10080			5960 13140	3810 8400	6.92 (22.7)
-3.0 m (-9.8 ft)	kg lb	*11600 *25570	*11600 *25570	*8810 *19420	6970 15370					*6360 *14020	4750 10470	5.95 (19.5)

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.

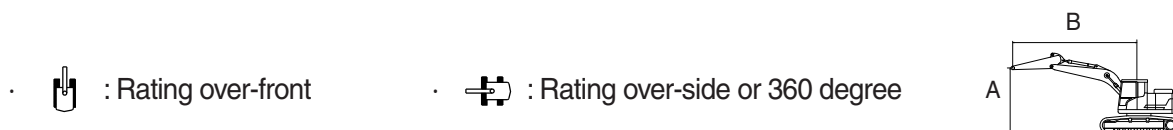
The difference between the weight of a work tool attachment must be subtracted.











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	
HX220LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*5580 *12300	*5580 *12300	5.62 (18.4)
6.0 m (19.7 ft)	kg lb					*5340 *11770	5270 11620			*5390 *11880	4220 9300	6.85 (22.5)
4.5 m (14.8 ft)	kg lb			*6820 *15040	*6820 *15040	*5770 *12720	5120 11290	*5380 *11860	3600 7940	*5320 *11730	3530 7780	7.58 (24.9)
3.0 m (9.8 ft)	kg lb			*8560 *18870	7400 16310	*6520 *14370	4890 10780	5420 11950	3520 7760	4930 10870	3200 7050	7.97 (26.1)
1.5 m (4.9 ft)	kg lb			*9990 *22020	6960 15340	*7250 *15980	4670 10300	5320 11730	3420 7540	4790 10560	3090 6810	8.06 (26.4)
0.0 m (0.0 ft)	kg lb			*10530 *23210	6770 14930	7260 16010	4540 10010	5250 11570	3360 7410	4920 10850	3160 6970	7.85 (25.8)
-1.5 m (-4.9 ft)	kg lb	*9270 *20440	*9270 *20440	*10280 *22660	6750 14880	7210 15900	4500 9920			5410 11930	3460 7630	7.34 (24.1)
-3.0 m (-9.8 ft)	kg lb	*12590 *27760	*12590 *27760	*9230 *20350	6850 15100	*6790 *14970	4580 10100			*6060 *13360	4190 9240	6.44 (21.1)
-4.5 m (-14.8 ft)	kg lb			*6620 *14590	*6620 *14590							

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.

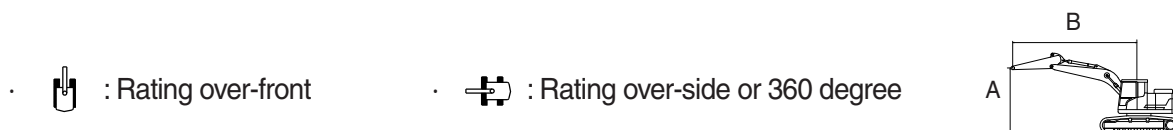
The difference between the weight of a work tool attachment must be subtracted.













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	
HX220LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	3500	3800	600	-	-	-	-	-



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											*3630 *8000	*3630 *8000	6.89 (22.6)
6.0 m (19.7 ft)	kg lb									*4310 *9500	3720 8200	*3420 *7540	3370 7430	7.91 (26.0)
4.5 m (14.8 ft)	kg lb							*4750 *10470	*4750 *10470	*4490 *9900	3650 8050	*3390 *7470	2900 6390	8.56 (28.1)
3.0 m (9.8 ft)	kg lb			*10620 *23410	*10620 *23410	*6980 *15390	*6980 *15390	*5590 *12320	4960 10930	*4890 *10780	3520 7760	*3480 *7670	2660 5860	8.90 (29.2)
1.5 m (4.9 ft)	kg lb					*8770 *19330	7070 15590	*6490 *14310	4670 10300	5280 11640	3370 7430	*3710 *8180	2560 5640	8.98 (29.5)
0.0 m (0.0 ft)	kg lb			*6220 *13710	*6220 *13710	*9930 *21890	6680 14730	7180 15830	4450 9810	5150 11350	3250 7170	4080 8990	2590 5710	8.80 (28.9)
-1.5 m (-4.9 ft)	kg lb	*5440 *11990	*5440 *11990	*9200 *20280	*9200 *20280	*10290 *22690	6530 14400	7050 15540	4330 9550	5080 11200	3190 7030	4370 9630	2760 6080	8.35 (27.4)
-3.0 m (-9.8 ft)	kg lb	*9040 *19930	*9040 *19930	*13720 *30250	12750 28110	*9900 *21830	6540 14420	7040 15520	4330 9550	5110 11270	3210 7080	5050 11130	3180 7010	7.57 (24.8)
-4.5 m (-14.8 ft)	kg lb			*12180 *26850	*12180 *26850	*8570 *18890	6700 14770	*6170 *13600	4450 9810			*5640 *12430	4150 9150	6.34 (20.8)

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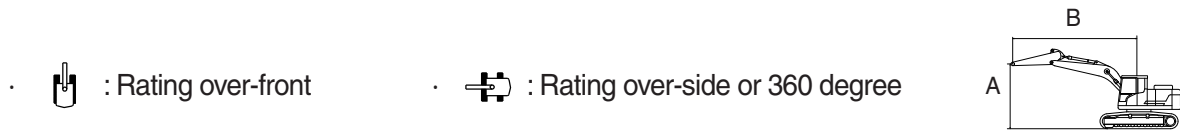
The difference between the weight of a work tool attachment must be subtracted.























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	
HX220LT3 LR	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		8500	6200	5300	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)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		Capacity		Reach		
																								m (ft)
12.0m 39.4ft	kg lb																					*970 *2140	*970 *2140	9.79 (32.1)
10.5m 34.4ft	kg lb													*1530 *3370	*1530 *3370							*880 *1940	*880 *1940	11.17 (36.6)
9.0m 29.5ft	kg lb													*2000 *4410	*2000 *4410	*1090 *2400	*1090 *2400					*830 *1830	*830 *1830	12.21 (40.0)
7.5m 24.6ft	kg lb													*2050 *4520	*2050 *4520	*1800 *3970	*1800 *3970					*810 *1790	*810 *1790	12.99 (42.6)
6.0m 19.7ft	kg lb													*2170 *4780	*2170 *4780	*2110 *4650	2050 4520	*880 *1940	*880 *1940			*800 *1760	*800 *1760	13.55 (44.5)
4.5m 14.8ft	kg lb												*2530 *5580	*2530 *5580	*2350 *5180	*2350 *4890	*2220 4370	1980	*1430 *3150	*1430 *3150		*810 *1790	*810 *1790	13.94 (45.7)
3.0m 9.8ft	kg lb					*5420 *11950	*5420 *11950	*4030 *8880	*4030 *8880	*3300 *7280	*3300 *7280	*2850 *6280	*2850 *6280	*2560 *5640	2400 5290	*2360 *5200	1890 4170	*1770 *3900	1500 3310			*840 *1850	*840 *1850	14.15 (46.4)
1.5m 4.9ft	kg lb					*6960 *15340	*6960 *15340	*4860 *10710	*4860 *10710	*3810 *8400	3740 8250	*3180 *7010	2870 6330	*2780 *6130	2250 4960	*2510 *5530	1800 3970	*1960 *4320	1440 3170			*880 *1940	*880 *1940	14.20 (46.6)
0.0m 0.0ft	kg lb			*2670 *5890	*2670 *5890	*6320 *13930	*6320 *13930	*5550 *12240	4630 10210	*4260 *9390	3440 7580	*3490 *7690	2670 5890	*2990 *6590	2120 4670	*2650 *5840	1710 3770	*1970 *4340	1390 3060			*940 *2070	*940 *2070	14.08 (46.2)
-1.5m -4.9ft	kg lb	*2530 *5580	*2530 *5580	*3460 *7630	*3460 *7630	*6060 *13360	*6060 *13360	*6000 *13230	4330 9550	*4600 *10140	3230 7120	*3740 *8250	2510 5530	*3170 *6990	2010 4430	2730 6020	1640 3620	*1670 *3680	1350 2980			*1040 *2290	*1040 *2290	13.81 (45.3)
-3.0m -9.8ft	kg lb	*3520 *7760	*3520 *7760	*4440 *9790	*4440 *9790	*6700 *14770	6290 13870	*6220 *13710	4180 9220	*4810 *10600	3090 6810	*3900 *8600	2410 5310	3240 7140	1940 4280	2690 5930	1600 3530					*1170 *2580	*1170 *2580	13.36 (43.8)
-4.5m -14.8ft	kg lb	*4540 *10010	*4540 *10010	*5560 *12260	*5560 *12260	*7810 *17220	6310 13910	*6230 *13730	4140 9130	*4860 *10710	3040 6700	*3950 *8710	2370 5220	3210 7080	1910 4210	2680 5910	1590 3510					*1360 *3000	*1360 *3000	12.71 (41.7)
-6.0m -19.7ft	kg lb	*5640 *12430	*5640 *12430	*6840 *15080	*6840 *15080	*8000 *17640	6420 14150	*6020 *13270	4180 9220	*4750 *10470	3050 6720	*3870 *8530	2370 5220	*3200 *7050	1930 4250							*1650 *3640	*1650 *3640	11.84 (38.8)
-7.5m -24.6ft	kg lb	*6860 *15120	*6860 *15120	*8360 *18430	*8360 *18430	*7280 *16050	6620 14590	*5570 *12280	4300 9480	*4430 *9770	3130 6900	*3580 *7890	2440 5380	*2850 *6280	2010 4430							*2170 *4780	1970 4340	10.68 (35.0)
-9.0m -29.5ft	kg lb			*8410 *18540	*8410 *18540	*6130 *13510	*6130 *13510	*4760 *10490	4500 9920	*3760 *8290	3300 7280	*2880 *6350	2610 5750									*2800 *6170	2560 5640	9.13 (30.0)

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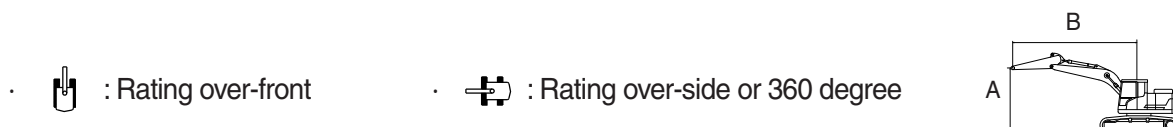
The difference between the weight of a work tool attachment must be subtracted.











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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	
HX220LT3 HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2000	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*6050 *13340	*6050 *13340	5.28 (17.3)
6.0 m (19.7 ft)	kg lb			*6290 *13870	*6290 *13870	*5790 *12760	5510 12150			*5800 *12790	4810 10600	6.52 (21.4)
4.5 m (14.8 ft)	kg lb			*7600 *16760	*7600 *16760	*6220 *13710	5370 11840			*5780 *12740	4020 8860	7.25 (23.8)
3.0 m (9.8 ft)	kg lb					*6930 *15280	5150 11350	5750 12680	3750 8270	5620 12390	3660 8070	7.61 (25.0)
1.5 m (4.9 ft)	kg lb					*7550 *16640	4970 10960	5670 12500	3670 8090	5500 12130	3570 7870	7.66 (25.1)
0.0 m (0.0 ft)	kg lb			*10580 *23320	7260 16010	7740 17060	4870 10740			5730 12630	3700 8160	7.41 (24.3)
-1.5 m (-4.9 ft)	kg lb			*10000 *22050	7290 16070	*7490 *16510	4880 10760			*6350 *14000	4150 9150	6.81 (22.3)
-3.0 m (-9.8 ft)	kg lb	*11220 *24740	*11220 *24740	*8520 *18780	7450 16420					*6330 *13960	5300 11680	5.77 (18.9)

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

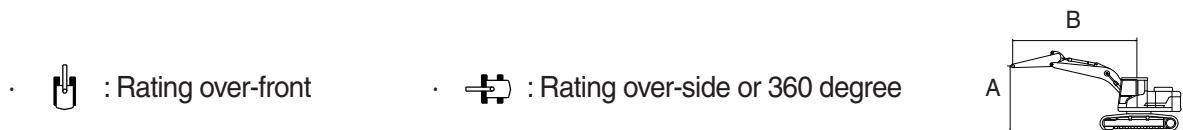
The difference between the weight of a work tool attachment must be subtracted.











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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	
HX220LT3 HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*5530 *12190	*5530 *12190	5.83 (19.1)
6.0 m (19.7 ft)	kg lb					*5370 *11840	*5370 *11840			*5380 *11860	4340 9570	6.97 (22.9)
4.5 m (14.8 ft)	kg lb			*7050 *15540	*7050 *15540	*5870 *12940	5390 11880	*5390 *11880	3820 8420	*5320 *11730	3690 8140	7.66 (25.1)
3.0 m (9.8 ft)	kg lb			*8800 *19400	7770 17130	*6630 *14620	5160 11380	*5650 *12460	3730 8220	5200 11460	3390 7470	8.00 (26.2)
1.5 m (4.9 ft)	kg lb			*10120 *22310	7360 16230	*7330 *16160	4950 10910	5640 12430	3640 8020	5090 11220	3300 7280	8.05 (26.4)
0.0 m (0.0 ft)	kg lb			*10540 *23240	7200 15870	7690 16950	4830 10650	5570 12280	3580 7890	5280 11640	3400 7500	7.80 (25.6)
-1.5 m (-4.9 ft)	kg lb	*10300 *22710	*10300 *22710	*10180 *22440	7200 15870	*7580 *16710	4800 10580			5870 12940	3770 8310	7.24 (23.8)
-3.0 m (-9.8 ft)	kg lb	*12230 *26960	*12230 *26960	*9000 *19840	7320 16140	*6550 *14440	4910 10820			*6060 *13360	4640 10230	6.27 (20.6)

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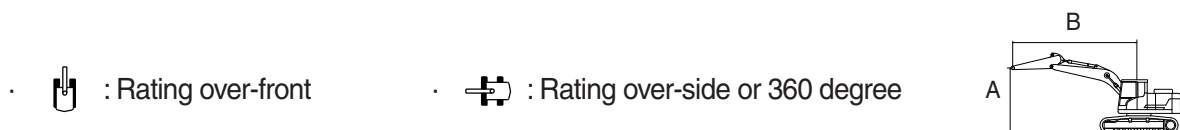
The difference between the weight of a work tool attachment must be subtracted.













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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	
HX220LT3 HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2900	3800	600	-	-	-	-	-



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							*4850 *10690	*4850 *10690			*4270 *9410	*4270 *9410	6.40 (21.0)
6.0 m (19.7 ft)	kg lb							*4870 *10740	*4870 *10740			*4010 *8840	3930 8660	7.46 (24.5)
4.5 m (14.8 ft)	kg lb					*6350 *14000	*6350 *14000	*5430 *11970	*5430 *11970	*5000 *11020	3850 8490	*3970 *8750	3390 7470	8.10 (26.6)
3.0 m (9.8 ft)	kg lb					*8130 *17920	7890 17390	*6240 *13760	5190 11440	*5360 *11820	3730 8220	*4090 *9020	3120 6880	8.42 (27.6)
1.5 m (4.9 ft)	kg lb					*9670 *21320	7400 16310	*7040 *15520	4950 10910	5620 12390	3620 7980	*4370 *9630	3040 6700	8.47 (27.8)
0.0 m (0.0 ft)	kg lb			*5500 *12130	*5500 *12130	*10390 *22910	7160 15790	*7560 *16670	4790 10560	5530 12190	3530 7780	4850 10690	3120 6880	8.24 (27.0)
-1.5 m (-4.9 ft)	kg lb	*6270 *13820	*6270 *13820	*10130 *22330	*10130 *22330	*10320 *22750	7100 15650	7600 16760	4730 10430	5510 12150	3520 7760	5310 11710	3400 7500	7.71 (25.3)
-3.0 m (-9.8 ft)	kg lb			*13320 *29370	*13320 *29370	*9460 *20860	7190 15850	*6990 *15410	4780 10540			*5830 *12850	4070 8970	6.81 (22.3)
-4.5 m (-14.8 ft)	kg lb					*7290 *16070	*7290 *16070					*5780 *12740	*5780 *12740	5.34 (17.5)

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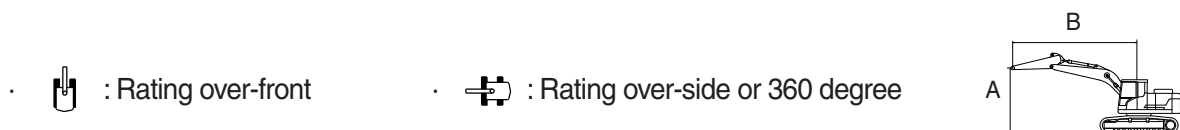
The difference between the weight of a work tool attachment must be subtracted.













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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	
HX220LT3 HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	3500	3800	600	-	-	-	-	-



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											*3580 *7890	*3580 *7890	7.06 (23.2)
6.0 m (19.7 ft)	kg lb							*4270 *9410	*4270 *9410	*4310 *9500	3940 8690	*3410 *7520	*3410 *7520	8.03 (26.3)
4.5 m (14.8 ft)	kg lb							*4860 *10710	*4860 *10710	*4540 *10010	3860 8510	*3400 *7500	3050 6720	8.62 (28.3)
3.0 m (9.8 ft)	kg lb					*7250 *15980	*7250 *15980	*5720 *12610	5220 11510	*4960 *10930	3720 8200	*3510 *7740	2820 6220	8.93 (29.3)
1.5 m (4.9 ft)	kg lb					*8980 *19800	7440 16400	*6600 *14550	4940 10890	*5430 *11970	3580 7890	*3750 *8270	2740 6040	8.97 (29.4)
0.0 m (0.0 ft)	kg lb			*6550 *14440	*6550 *14440	*10030 *22110	7090 15630	*7260 *16010	4730 10430	5470 12060	3470 7650	*4170 *9190	2790 6150	8.75 (28.7)
-1.5 m (-4.9 ft)	kg lb	*5920 *13050	*5920 *13050	*9730 *21450	*9730 *21450	*10280 *22660	6960 15340	7490 16510	4630 10210	5410 11930	3410 7520	4730 10430	3010 6640	8.26 (27.1)
-3.0 m (-9.8 ft)	kg lb	*9610 *21190	*9610 *21190	*14260 *31440	13610 30000	*9780 *21560	6990 15410	*7230 *15940	4640 10230			*5470 *12060	3500 7720	7.43 (24.4)
-4.5 m (-14.8 ft)	kg lb			*11730 *25860	*11730 *25860	*8270 *18230	7170 15810	*5850 *12900	4790 10560			*5660 *12480	4670 10300	6.12 (20.1)

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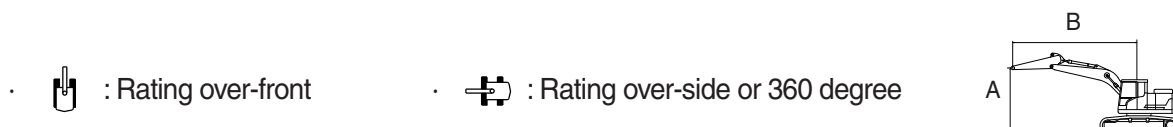
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Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220T3 SC	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2000	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*6130 *13510	*6130 *13510	5.05 (16.6)
6.0 m (19.7 ft)	kg lb			*6170 *13600	*6170 *13600	*5780 *12740	4740 10450			*5810 *12810	4260 9390	6.39 (21.0)
4.5 m (14.8 ft)	kg lb			*7370 *16250	7090 15630	*6130 *13510	4610 10160			5280 11640	3490 7690	7.17 (23.5)
3.0 m (9.8 ft)	kg lb					6790 14970	4410 9720	4850 10690	3180 7010	4770 10520	3130 6900	7.58 (24.9)
1.5 m (4.9 ft)	kg lb					6580 14510	4220 9300	4770 10520	3110 6860	4620 10190	3010 6640	7.67 (25.2)
0.0 m (0.0 ft)	kg lb			10030 22110	6070 13380	6460 14240	4110 9060			4760 10490	3090 6810	7.46 (24.5)
-1.5 m (-4.9 ft)	kg lb			10050 22160	6090 13430	6450 14220	4100 9040			5300 11680	3430 7560	6.92 (22.7)
-3.0 m (-9.8 ft)	kg lb	*11600 *25570	*11600 *25570	*8810 *19420	6220 13710					*6360 *14020	4270 9410	5.95 (19.5)

Note 1. Lifting capacity are based on ISO 10567.

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

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

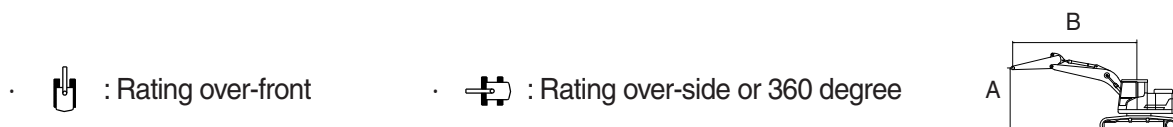
The difference between the weight of a work tool attachment must be subtracted.











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	
HX220T3 SC	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2400	3800	600	-	-	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg lb									*5580 *12300	5290 11660	5.62 (18.4)
6.0 m (19.7 ft)	kg lb					*5340 *11770	4780 10540			*5390 *11880	3820 8420	6.85 (22.5)
4.5 m (14.8 ft)	kg lb			*6820 *15040	*6820 *15040	*5770 *12720	4640 10230	4930 10870	3250 7170	4840 10670	3190 7030	7.58 (24.9)
3.0 m (9.8 ft)	kg lb			*8560 *18870	6640 14640	*6520 *14370	4410 9720	4850 10690	3180 7010	4410 9720	2890 6370	7.97 (26.1)
1.5 m (4.9 ft)	kg lb			*9990 *22020	6200 13670	6570 14480	4200 9260	4740 10450	3080 6790	4270 9410	2780 6130	8.06 (26.4)
0.0 m (0.0 ft)	kg lb			9980 22000	6020 13270	6420 14150	4070 8970	4680 10320	3020 6660	4390 9680	2840 6260	7.85 (25.8)
-1.5 m (-4.9 ft)	kg lb	*9270 *20440	*9270 *20440	9950 21940	6000 13230	6380 14070	4030 8880			4820 10630	3110 6860	7.34 (24.1)
-3.0 m (-9.8 ft)	kg lb	*12590 *27760	11650 25680	*9230 *20350	6100 13450	6470 14260	4110 9060			5870 12940	3770 8310	6.44 (21.1)
-4.5 m (-14.8 ft)	kg lb			*6620 *14590	6380 14070							

Note 1. Lifting capacity are based on ISO 10567.

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

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

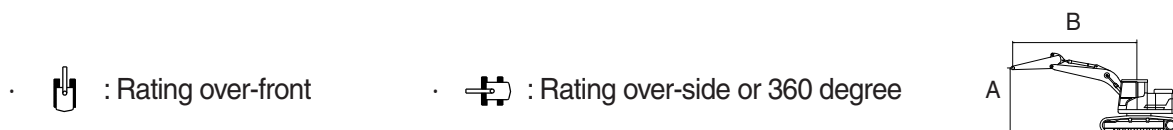
The difference between the weight of a work tool attachment must be subtracted.













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	
HX220T3 SC	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	2900	3800	600	-	-	-	-	-



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							*4920 *10850	4850 10690			*4330 *9550	*4330 *9550	6.21 (20.4)
6.0 m (19.7 ft)	kg lb							*4830 *10650	*4830 *10650			*4030 *8880	3440 7580	7.34 (24.1)
4.5 m (14.8 ft)	kg lb					*6130 *13510	*6130 *13510	*5330 *11750	4680 10320	*4960 *10930	3280 7230	*3960 *8730	2920 6440	8.03 (26.3)
3.0 m (9.8 ft)	kg lb					*7880 *17370	6750 14880	*6120 *13490	4440 9790	4860 10710	3180 7010	*4060 *8950	2650 5840	8.39 (27.5)
1.5 m (4.9 ft)	kg lb					*9500 *20940	6260 13800	6580 14510	4200 9260	4730 10430	3060 6750	3940 8690	2550 5620	8.48 (27.8)
0.0 m (0.0 ft)	kg lb			*4930 *10870	*4930 *10870	9950 21940	5990 13210	6390 14090	4030 8880	4630 10210	2970 6550	4030 8880	2590 5710	8.29 (27.2)
-1.5 m (-4.9 ft)	kg lb	*5620 *12390	*5620 *12390	*9400 *20720	*9400 *20720	9860 21740	5910 13030	6310 13910	3960 8730	4600 10140	2950 6500	4370 9630	2800 6170	7.80 (25.6)
-3.0 m (-9.8 ft)	kg lb			*13630 *30050	11410 25150	*9640 *21250	5970 13160	6350 14000	4000 8820			5170 11400	3310 7300	6.96 (22.8)
-4.5 m (-14.8 ft)	kg lb			*10720 *23630	*10720 *23630	*7730 *17040	6180 13620					*5820 *12830	4590 10120	5.60 (18.4)

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.

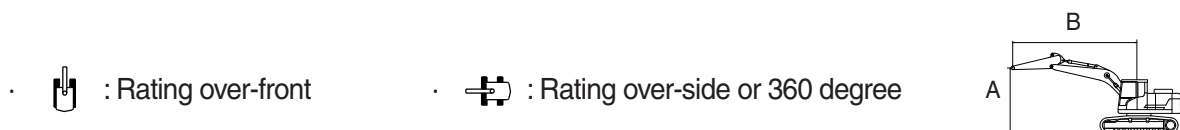
The difference between the weight of a work tool attachment must be subtracted.













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	
HX220T3 SC	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5700	3500	3800	600	-	-	-	-	-



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											*3630 *8000	*3630 *8000	6.89 (22.6)
6.0 m (19.7 ft)	kg lb									*4310 *9500	3370 7430	*3420 *7540	3050 6720	7.91 (26.0)
4.5 m (14.8 ft)	kg lb							*4750 *10470	4740 10450	*4490 *9900	3300 7280	*3390 *7470	2610 5750	8.56 (28.1)
3.0 m (9.8 ft)	kg lb			*10620 *23410	*10620 *23410	*6980 *15390	6890 15190	*5590 *12320	4470 9850	4860 10710	3170 6990	*3480 *7670	2380 5250	8.90 (29.2)
1.5 m (4.9 ft)	kg lb					*8770 *19330	6310 13910	*6490 *14310	4190 9240	4700 10360	3030 6680	3570 7870	2290 5050	8.98 (29.5)
0.0 m (0.0 ft)	kg lb			*6220 *13710	*6220 *13710	9910 21850	5930 13070	6350 14000	3980 8770	4570 10080	2910 6420	3630 8000	2310 5090	8.80 (28.9)
-1.5 m (-4.9 ft)	kg lb	*5440 *11990	*5440 *11990	*9200 *20280	*9200 *20280	9730 21450	5780 12740	6220 13710	3860 8510	4510 9940	2850 6280	3890 8580	2470 5450	8.35 (27.4)
-3.0 m (-9.8 ft)	kg lb	*9040 *19930	*9040 *19930	*13720 *30250	11060 24380	9740 21470	5790 12760	6210 13690	3850 8490	4530 9990	2870 6330	4480 9880	2840 6260	7.57 (24.8)
-4.5 m (-14.8 ft)	kg lb			*12180 *26850	11370 25070	*8570 *18890	5940 13100	*6170 *13600	3980 8770			*5640 *12430	3710 8180	6.34 (20.8)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

Consult 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)



Long reach

Type	Capacity		Width		Weight	Tooth	MONO				L/Reach
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation				mm (ft-in)
							5.70 m (18' 8") Boom				8.50 m (27' 11") Boom
							m³ (yd³)	m³ (yd³)	mm (in)	mm (in)	kg (lb)
General bucket	0.92 (1.20)	0.81 (1.06)	1085 (42.7')	1230 (48.4')	750 (1650)	5	●	●	●	◐	X
	1.17 (1.53)	1.00 (1.31)	1340 (52.8")	1490 (58.7")	850 (1870)	6	●	◐	■	▲	X
	1.28 (1.67)	1.11 (1.45)	1455 (57.3")	1605 (63.2")	885 (1950)	6	◐	■	■	▲	X
Heavy duty	0.92 (1.20)	0.83 (1.09)	1050 (41.3")	1095 (43.1")	865 (1910)	5	●	●	●	◐	X
	1.08 (1.41)	0.97 (1.27)	1200 (47.2")	1245 (49.0")	935 (2060)	5	●	◐	◐	■	X
LR	0.51 (0.6)	0.45 (0.59)	865 (34.1")	995 (39.2")	395 (870)	5	X	X	X	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.

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")
HX220LT3	Operating weight	kg	(lb)	21970	(48440)	22430	(49450)	22710	(50070)	22990	(50680)	22600	(49820)
	Ground pressure	kgf/cm ²	(psi)	0.47	(6.67)	0.41	(5.84)	0.36	(5.17)	0.33	(4.65)	0.41	(5.88)
	Overall width	mm	(ft-in)	2990	(9' 10")	3090	(10' 2")	3190	(10' 6")	3190	(10' 6")	3090	(10' 2")
	Link quantity	EA		49		49		49		49		49	
HX220LT3 LR	Operating weight	kg	(lb)	-	-	-	-	24700	(54450)	-	-	-	-
	Ground pressure	kgf/cm ²	(psi)	-	-	-	-	0.40	(5.62)	-	-	-	-
	Overall width	mm	(ft-in)	-	-	-	-	3190	(10' 6")	-	-	-	-
	Link quantity	EA		-		-		49		-		-	
HX220LT3 HW	Operating weight	kg	(lb)	24080	(53090)	24350	(53680)	24630	(54300)	24910	(54920)	24520	(54060)
	Ground pressure	kgf/cm ²	(psi)	0.51	(7.31)	0.45	(6.34)	0.39	(5.61)	0.35	(5.04)	0.45	(6.38)
	Overall width	mm	(ft-in)	3395	(11' 2")	3495	(11' 6")	3595	(11' 10")	3695	(12' 1")	3495	(11' 6")
	Link quantity	EA		49		49		49		49		49	
HX220T3 SC	Operating weight	kg	(lb)	21610	(47640)	-	-	22140	(48810)	-	-	-	-
	Ground pressure	kgf/cm ²	(psi)	0.5	(7.31)	-	-	0.38	(5.61)	-	-	-	-
	Overall width	mm	(ft-in)	2800	(9' 2")	-	-	3000	(9' 10")	-	-	-	-
	Link quantity	EA		45		-		45		-		-	

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
700 mm double grouser	Option	B
800 mm triple grouser	Option	C
800 mm triple grouser (long reach)	Standard	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	HD Hyundai Construction Equipment / HE6.7
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.21" × 4.88")
Displacement	6.7 ℓ (408 cu in)
Compression ratio	17.2 : 1
Gross power	160 hp (119 kW) at 2,200 rpm
Net power	157 hp (117 kW) at 2,200 rpm
Max. power	165 hp (123 kW) at 2,000 rpm
Peak Torque	732 N·m (540 lb·ft) at 1,400 rpm
Engine oil quantity	23.1 ℓ (6.1 U.S. gal)
Wet weight	552 kg (1217 lb)
Starter motor	24 V-4.8 kW
Alternator	Valeo 24 V-90 A

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 130 cc/rev
Maximum pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Rated oil flow	2 × 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)] * ¹ 350 kgf/cm ² (4980 psi) [Not applied power boost]
Port relief valve pressure	Boom 400 kgf/cm ² (5690 psi)
	Arm 400 kgf/cm ² (5690 psi), * ¹ 300 kgf/cm ² (4270 psi)
	Bucket 400 kgf/cm ² (5690 psi), * ¹ 280 kgf/cm ² (3980 psi)

[] : Power boost *¹ : Long reach only

5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	142.8 cc/rev
Relief pressure	265 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	Ø 120 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø 140 × 1443 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	Ø 120 × 1060 mm
	Cushion	Extend only
Bucket cylinder (Long reach)	Bore dia × Stroke	Ø 95 × 900 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)
Engine oil pan	Engine oil	23.1 (6.1)	★SAE 0W-30							
			SAE 5W-30							
			SAE 10W-30							
			SAE CI-4 and 10W-30							
			SAE 5W-40 or 15W-40							
Swing drive	Gear oil	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 : 275 (72.6)	★ISO VG 15							
			ISO VG 32							
			ISO VG 46							
			ISO VG 68							
Fuel tank	Diesel fuel	400 (106)	★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	31 (8.2)	Ethylene glycol base permanent type (50 : 50)							
			★Ethylene glycol base permanent type (60 : 40)							

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

★ : Cold region

Russia, CIS, Mongolia

★1 : Soft water

City water or distilled water

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

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

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