

# SECTION 1 GENERAL

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## SECTION 1 GENERAL

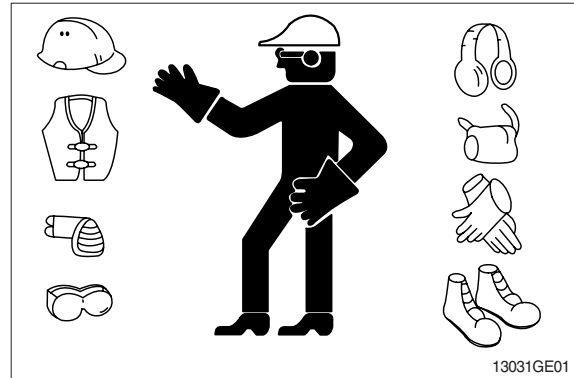
### GROUP 1 SAFETY

#### FOLLOW SAFE PROCEDURE

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

#### WEAR PROTECTIVE CLOTHING

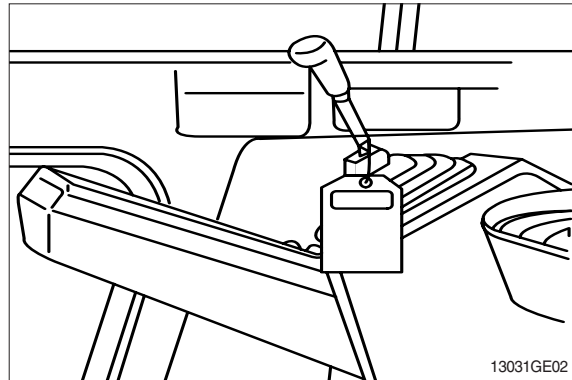
Wear close fitting clothing and safety equipment appropriate to the job.



#### 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.



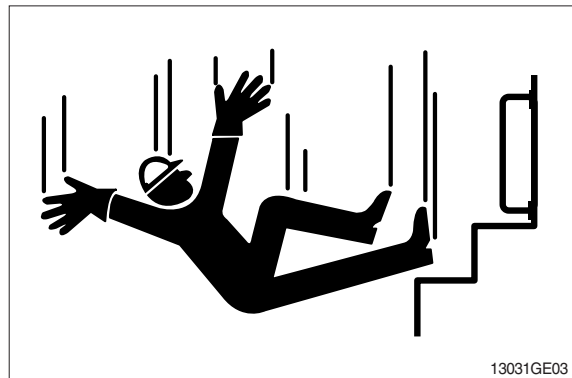
#### USE HANDHOLDS AND STEPS

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.

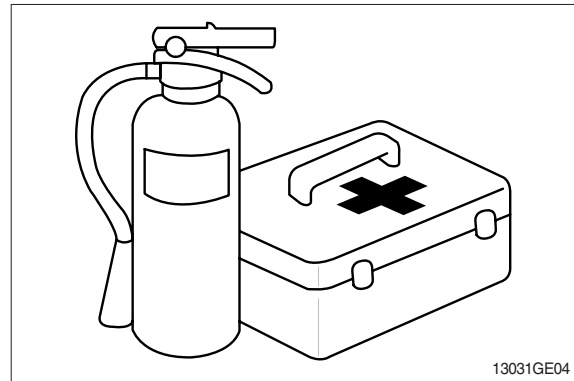


## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

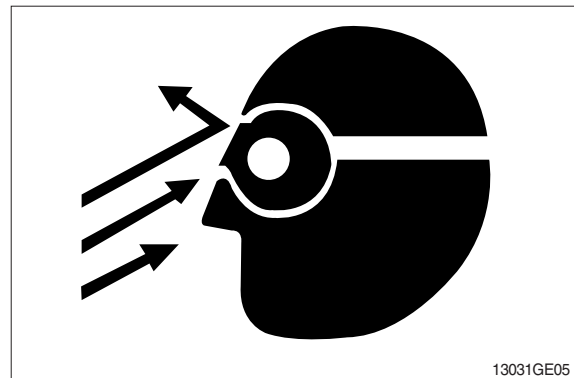
Keep a first aid kit and fire extinguisher handy.

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



## PROTECT AGAINST FLYING DEBRIS

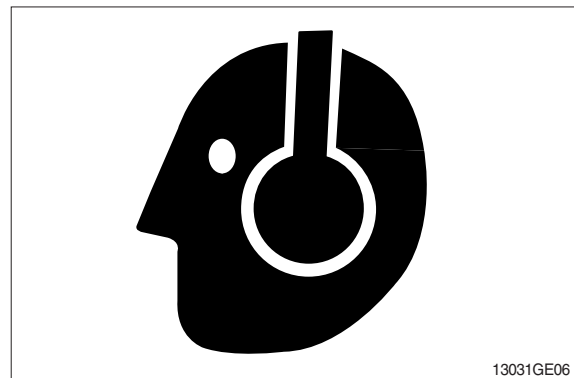
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



## PROTECT AGAINST NOISE

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

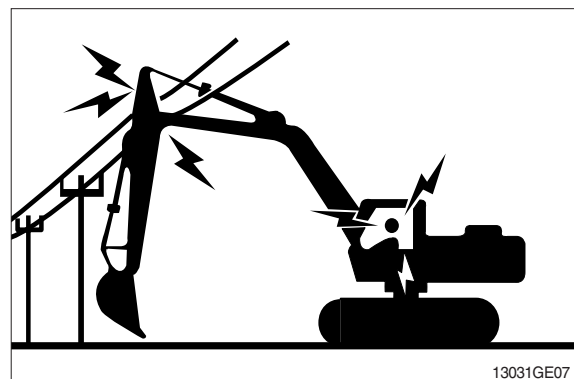
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



## AVOID POWER LINES

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

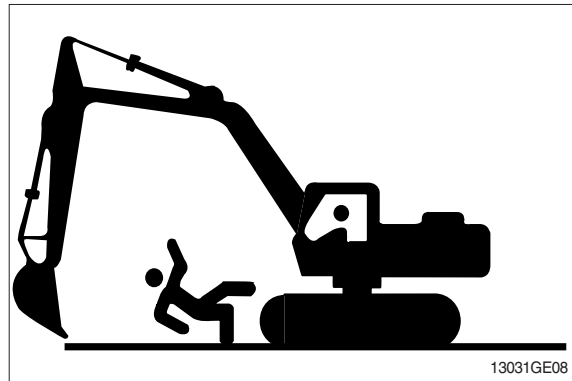
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



## 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.

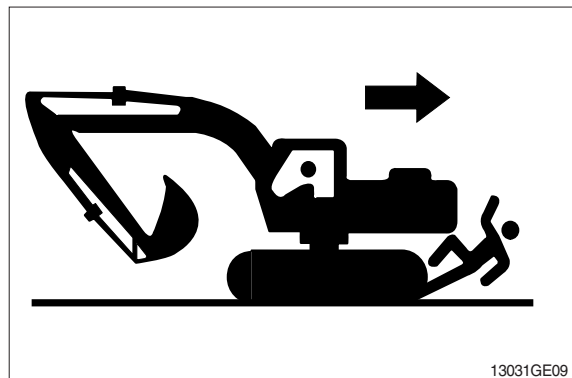


## MOVE AND OPERATE MACHINE SAFELY

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:

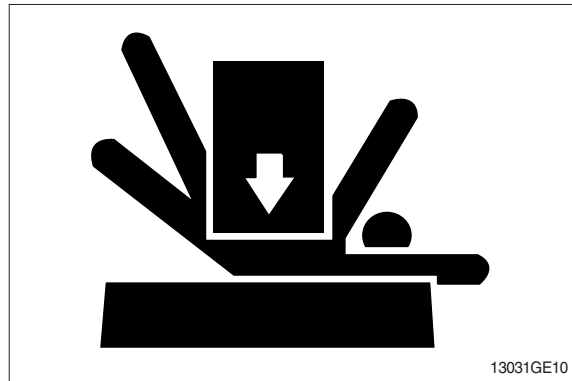
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

## 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

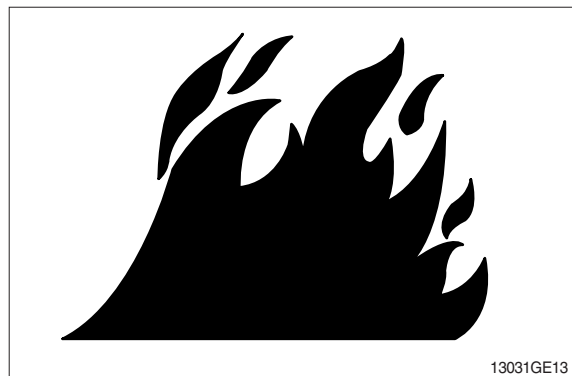
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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.

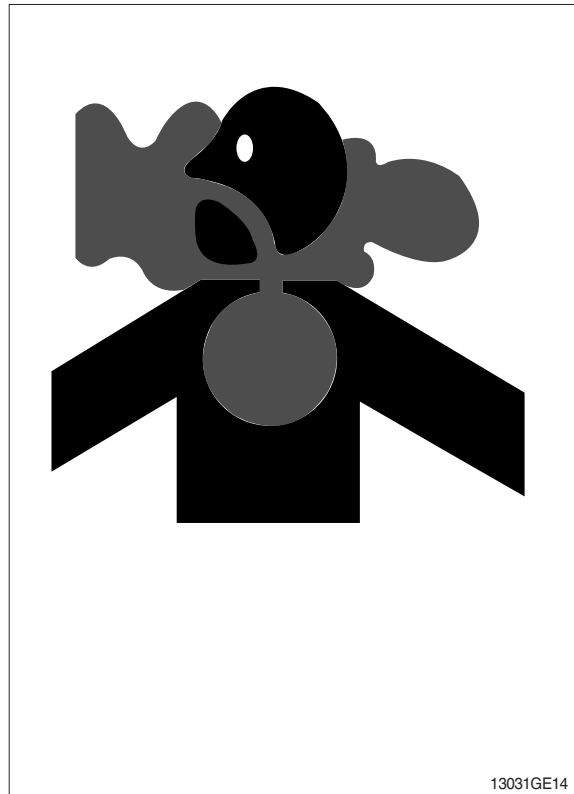
Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

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

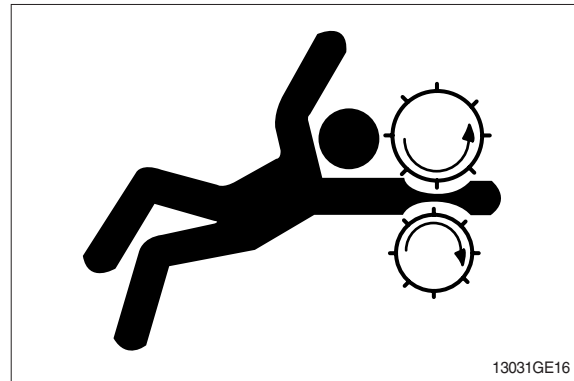
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



### 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.

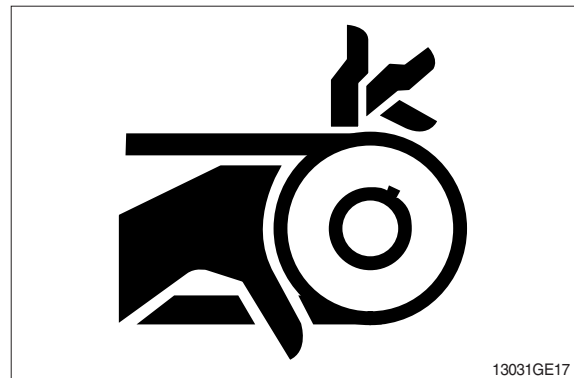
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



### STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



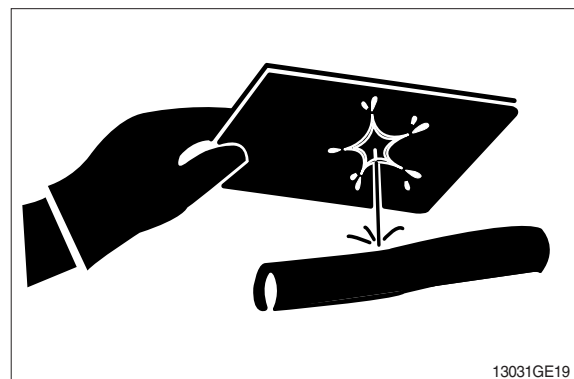
### AVOID HIGH PRESSURE FLUIDS

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:

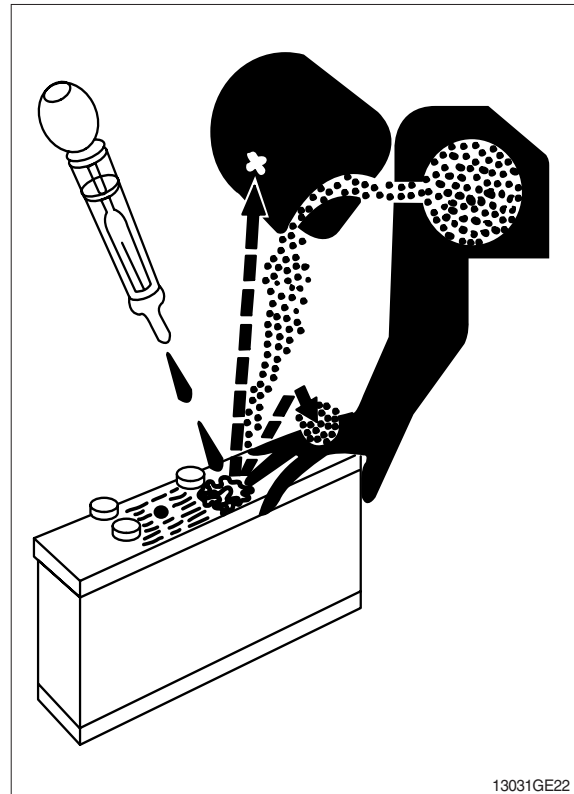
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



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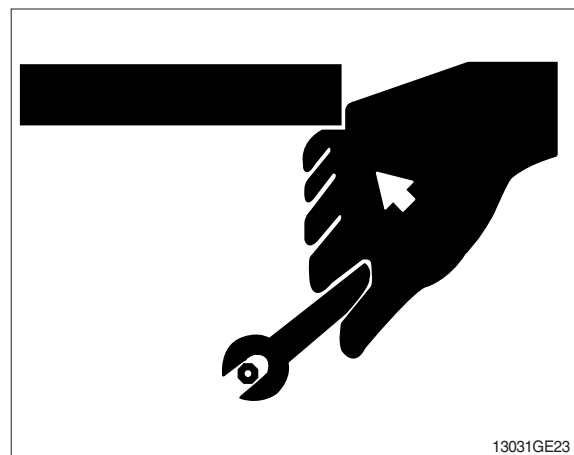
## USE TOOLS PROPERLY

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

Use power tools only to loosen threaded tools and fasteners.

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

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



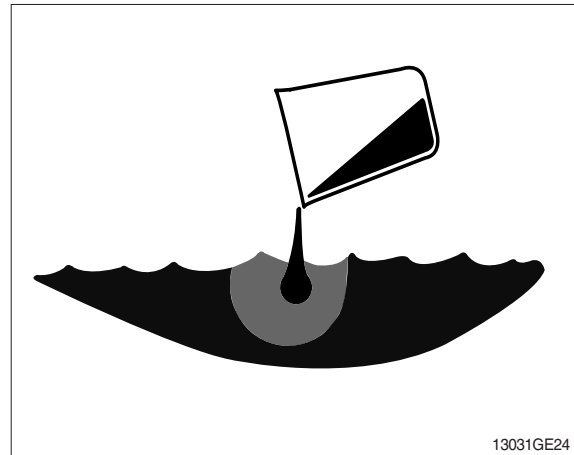
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## DISPOSE OF FLUIDS PROPERLY

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.

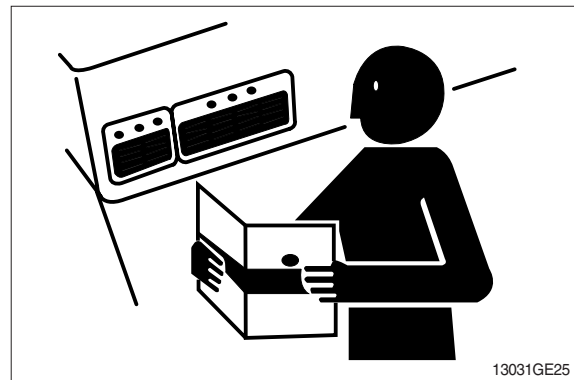
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

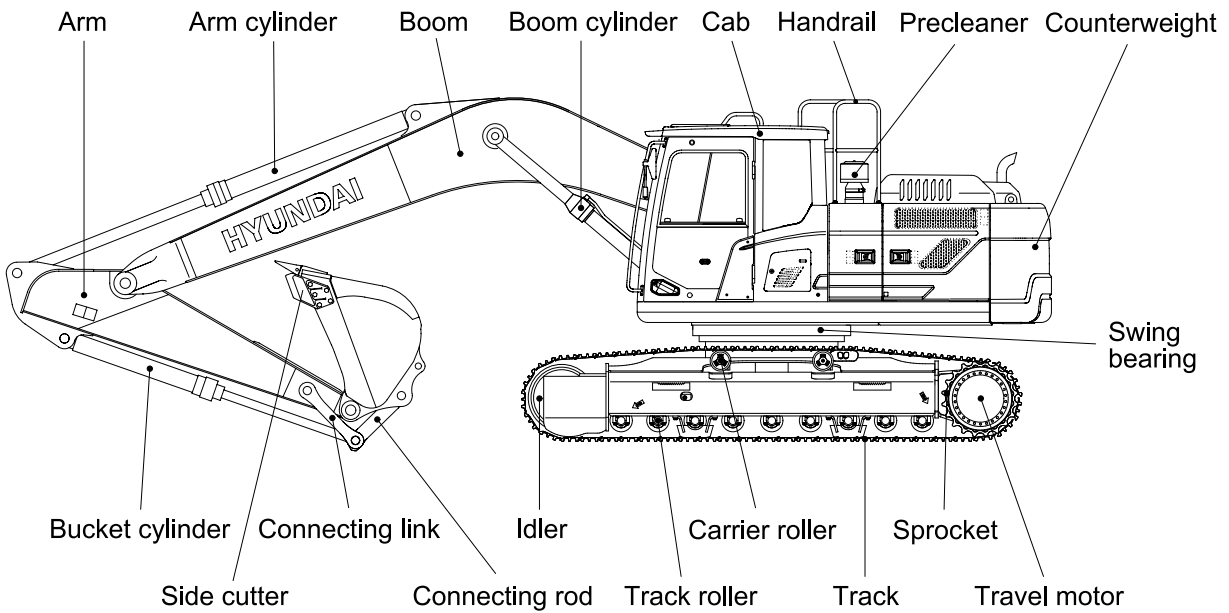
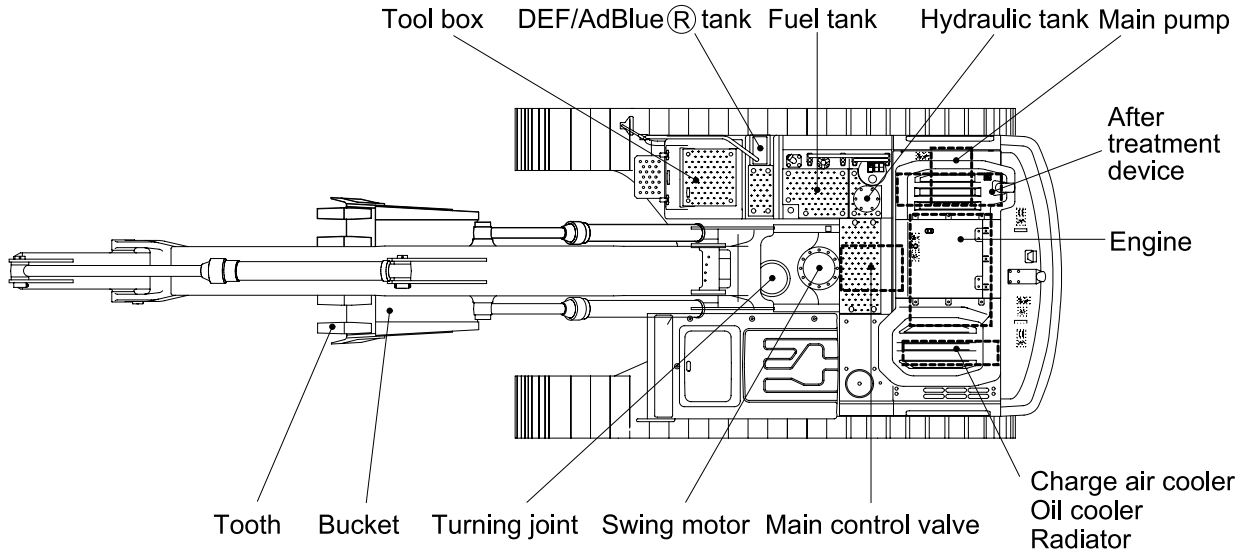


## LIVE WITH SAFETY

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

# GROUP 2 SPECIFICATIONS

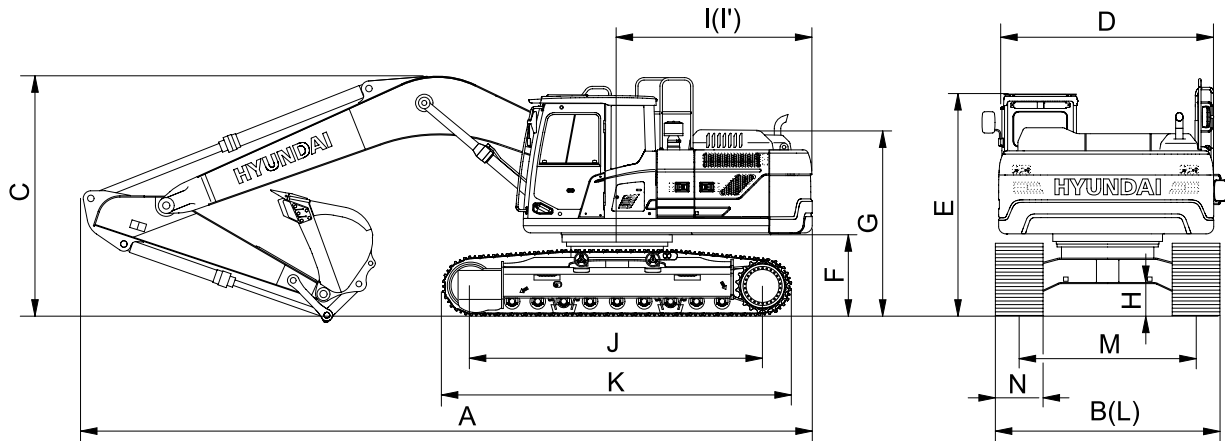
## 1. MAJOR COMPONENT



220A2SP01

## 2. SPECIFICATIONS

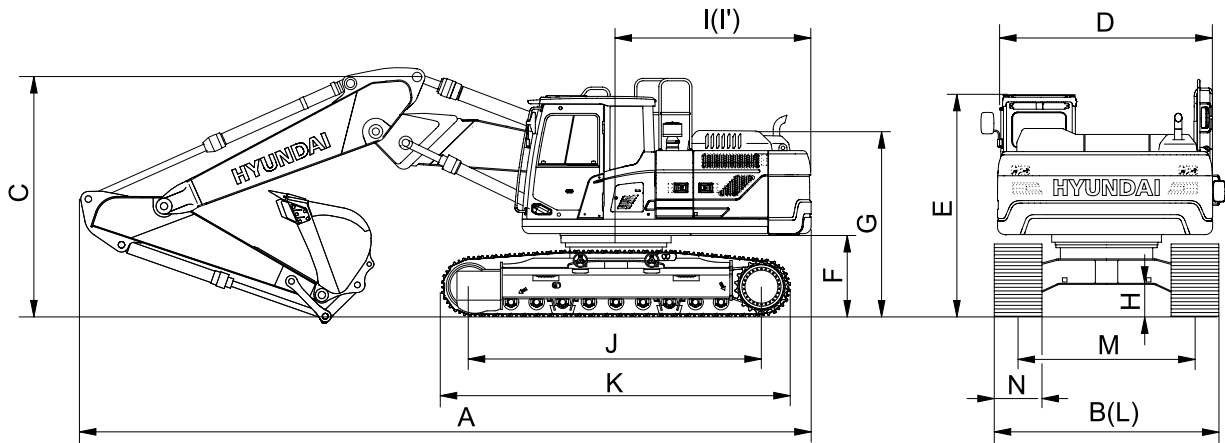
### 1) HX220A L, MONO BOOM



220A2SP02

Description	Unit		Specification			
	m (ft-in)	Boom	5.68 (18' 8")			
		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)	22280 (49120)	22130 (48790)	22190 (48920)	22510 (49630)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	
Overall length	A	9530 (31' 3")	9650 (31' 8")	9570 (31' 5")	9520 (31' 3")	
Overall width	B	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Overall height of boom	C	3030 (9' 11")	3200 (10' 6")	3110 (10' 2")	3480 (11' 5")	
Superstructure width	D	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	
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'	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	4404 (14' 5")	4404 (14' 5")	4404 (14' 5")	4404 (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)	3.5/5.4 (2.2/3.4)	3.5/5.4 (2.2/3.4)	3.5/5.4 (2.2/3.4)	3.5/5.4 (2.2/3.4)	
Swing speed	rpm	11.4	11.4	11.4	11.4	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.48 (6.76)	0.47 (6.72)	0.47 (6.74)	0.48 (6.83)	
Max traction force	kg (lb)	20830 (45922)	20830 (45922)	20830 (45922)	20830 (45922)	

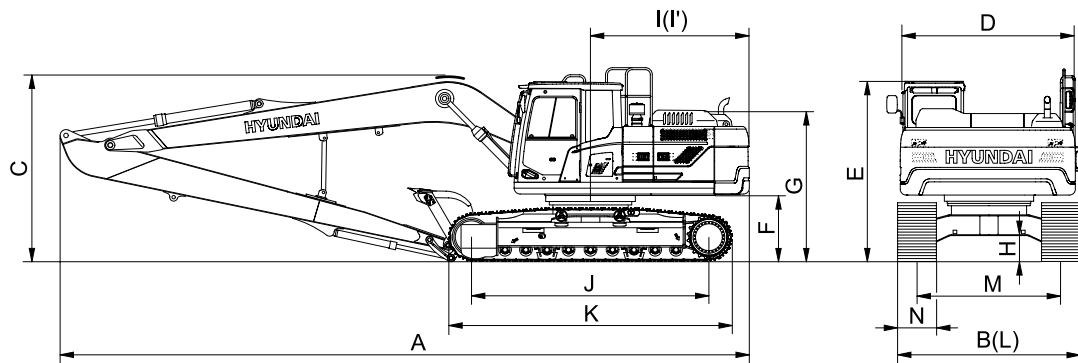
## 2) HX220A L, 2-PIECE BOOM



220A2SP08

Description		Unit		Specification
		m (ft-in)	Boom	5.65 (18' 7")
			Arm	2.92 (9' 7")
		mm (in)	Shoe	600 (24)
Operating weight		kg (lb)		22990 (50680)
Bucket capacity (SAE heaped), standard		m <sup>3</sup> (yd <sup>3</sup> )		0.92 (1.2)
Overall length	A	mm (ft-in)		9530 (31' 3")
Overall width	B			2990 (9' 10")
Overall height of boom	C			3030 (9' 11")
Superstructure width	D			2740 (9' 0")
Overall height of cab	E			3000 (9' 10")
Ground clearance of counterweight	F			1060 (3' 6")
Overall height of engine hood	G			2520 (8' 3")
Overall height of handrail	G'			3210 (10' 6")
Minimum ground clearance	H			470 (1' 7")
Rear-end distance	I			2770 (9' 1")
Rear-end swing radius	I'			2890 (9' 6")
Distance between tumbler rollers	J			3650 (12' 0")
Undercarriage length	K			4404 (14' 5")
Undercarriage width	L			2990 (9' 10")
Track gauge	M			2390 (7' 10")
Track shoe width, standard	N			600 (24")
Travel speed (low/high)		km/hr (mph)		3.5/5.4 (2.2/3.4)
Swing speed		rpm		11.2
Gradeability		Degree (%)		35 (70)
Ground pressure		kgf/cm <sup>2</sup> (psi)		0.49 (6.98)
Max traction force		kg (lb)		20830 (45922)

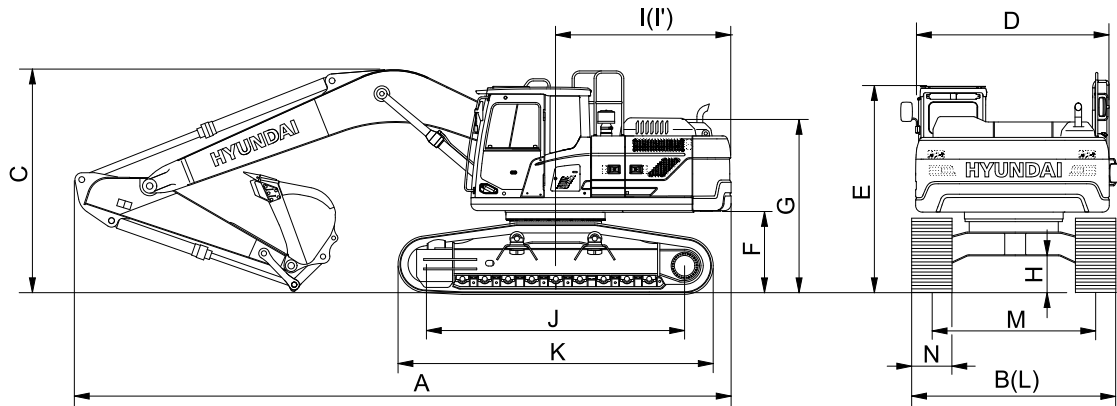
### 3) HX220A LR



220A2SP03

Description		Unit		Specification		
		m (ft-in)	Boom	8.2 (26' 11")		
			Arm	6.30 (20' 8")		
mm (in)	Shoe	800 (32)				
Operating weight		kg (lb)		25420 (56040)		
Bucket capacity (SAE heaped), standard		m <sup>3</sup> (yd <sup>3</sup> )		0.92 (1.2)		
Overall length	A	mm (ft-in)		12030 (39' 6")		
Overall width	B			3190 (10' 6")		
Overall height of boom	C			3280 (10' 9")		
Superstructure width	D			2740 (9' 0")		
Overall height of cab	E			3000 (9' 10")		
Ground clearance of counterweight	F			1060 (3' 6")		
Overall height of engine hood	G			2520 (8' 3")		
Overall height of handrail	G'			3210 (10' 6")		
Minimum ground clearance	H			470 (1' 7")		
Rear-end distance	I			2770 (9' 1")		
Rear-end swing radius	I'			2890 (9' 6")		
Distance between tumbler rollers	J			3650 (12' 0")		
Undercarriage length	K			4404 (14' 5")		
Undercarriage width	L			3190 (10' 6")		
Track gauge	M			2390 (7' 10")		
Track shoe width, standard	N			800 (32")		
Travel speed (low/high)				km/hr (mph)		3.5/5.4 (2.2/3.4)
Swing speed				rpm		11.4
Gradeability				Degree (%)		35 (70)
Ground pressure		kgf/cm <sup>2</sup> (psi)		0.41 (5.79)		
Max traction force		kg (lb)		20830 (45922)		

#### 4) HX220A HW, MONO BOOM

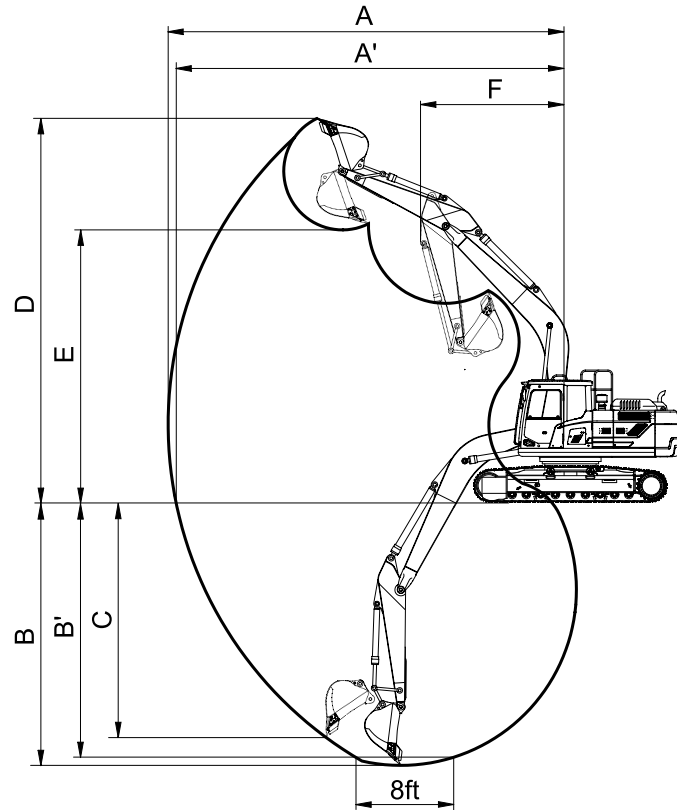


220A2SP04

Description	Unit		Specification			
	m (ft-in)	Boom	5.68 (20' 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)	24410 (53820)	24250 (53460)	24320 (53610)	24640 (54320)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	0.92 (1.2)	
Overall length	A	9470 (31' 1")	9650 (31' 8")	9550 (31' 4")	9560 (31' 4")	
Overall width	B	3395 (11' 2")	3395 (11' 2")	3395 (11' 2")	3395 (11' 2")	
Overall height of boom	C	3060 (10' 0")	3290 (10' 10")	3170 (10' 5")	3450 (11' 4")	
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	2720 (8' 11")	2720 (8' 11")	2720 (8' 11")	2720 (8' 11")	
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	4404 (14' 5")	4404 (14' 5")	4404 (14' 5")	4404 (14' 5")	
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 (24")	600 (24")	600 (24")	600 (24")	
Travel speed (low/high)	km/hr (mph)	2.9 (5.1)	2.9 (5.1)	2.9 (5.1)	2.9 (5.1)	
Swing speed	rpm	11.4	11.4	11.4	11.4	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.50 (7.15)	0.50 (7.11)	0.50 (7.13)	0.51 (7.22)	
Max traction force	kg (lb)	22190 (48921)	22190 (48921)	22190 (48921)	22190 (48921)	

### 3. WORKING RANGE

#### 1) HX220A L, MONO BOOM



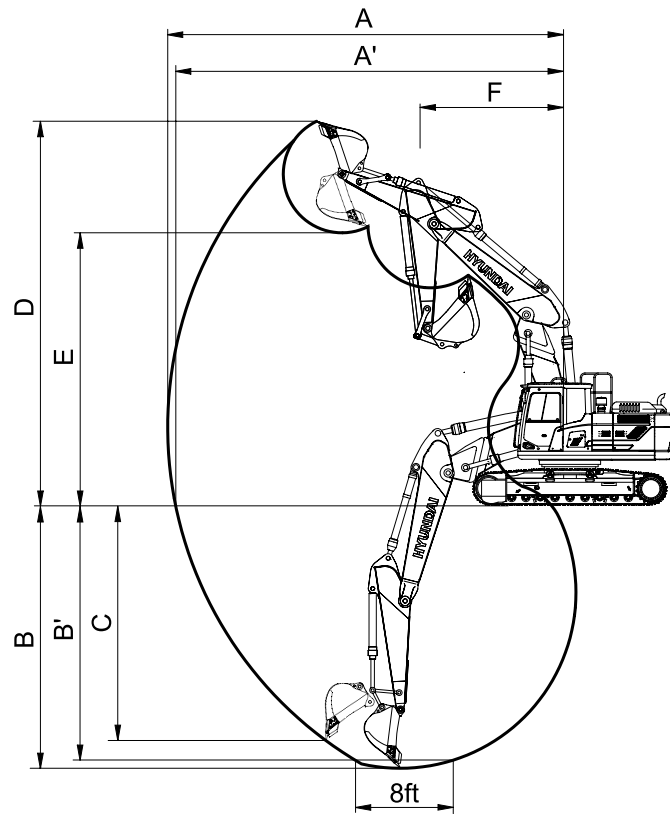
220A2SP05

Description	m (ft-in)	Boom	5.68 (18' 8")			
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	3.90 (12' 10")
Max digging reach	mm (ft-in)	A	9980 (32' 9")	9140 (30' 0")	9500 (31' 2")	10910 (35' 10")
Max digging reach on ground		A'	9820 (32' 3")	8960 (29' 5")	9330 (30' 7")	10770 (35' 4")
Max digging depth		B	6730 (22' 1")	5820 (19' 1")	6220 (20' 5")	7720 (25' 4")
Max digging depth (8 ft level)		B'	6560 (21' 6")	5580 (18' 4")	6010 (19' 9")	7580 (24' 10")
Max vertical wall digging depth		C	6280 (20' 7")	5280 (17' 4")	5720 (18' 9")	7240 (23' 9")
Max digging height		D	9600 (31' 6")	9140 (30' 0")	9340 (30' 8")	10110 (33' 2")
Max dumping height		E	6780 (22' 3")	6330 (20' 9")	6520 (21' 5")	7290 (23' 11")
Min swing radius		F	3670 (12' 0")	3750 (12' 4")	3740 (12' 3")	3700 (12' 2")
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]	106.9 [116.0]	87.3 [94.7]
	kgf		10900 [11830]	15400 [16720]	10900 [11830]	8900 [9660]
	lbf		24030 [26080]	33950 [36860]	24030 [26080]	19620 [21300]

[ ] : Power boost



## 2) HX220A L, 2-PIECE BOOM

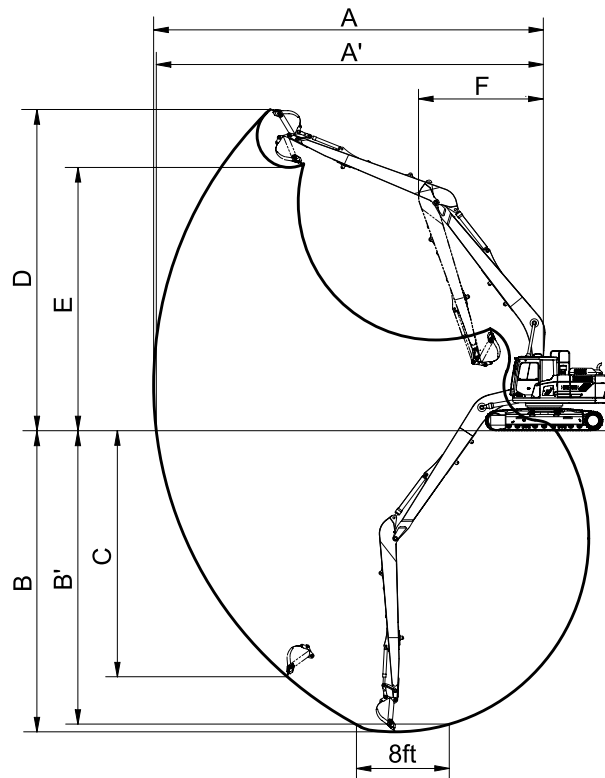


220A2SP10

Description	m (ft-in)	Boom	5.65 (18' 7")
		Arm	2.92 (9' 7")
Max digging reach	mm (ft-in)	A	10020 (32' 10")
Max digging reach on ground		A'	9860 (32' 4")
Max digging depth		B	6400 (21' 0")
Max digging depth (8 ft level)		B'	6290 (20' 8")
Max vertical wall digging depth		C	5560 (18' 3")
Max digging height		D	11090 (36' 5")
Max dumping height		E	8160 (26' 9")
Min swing radius		F	2530 (8' 4")
Bucket digging force	kN	SAE	133.4 [144.8]
	kgf		13600 [14770]
	lbf		29980 [32560]
	kN	ISO	152.0 [165.0]
	kgf		15500 [16830]
	lbf		34170 [37100]
Arm digging force	kN	SAE	102.0 [110.7]
	kgf		10400 [11290]
	lbf		22930 [24890]
	kN	ISO	106.9 [116.0]
	kgf		10900 [11830]
	lbf		24030 [26080]

[ ] : Power boost

### 3) HX220A LR

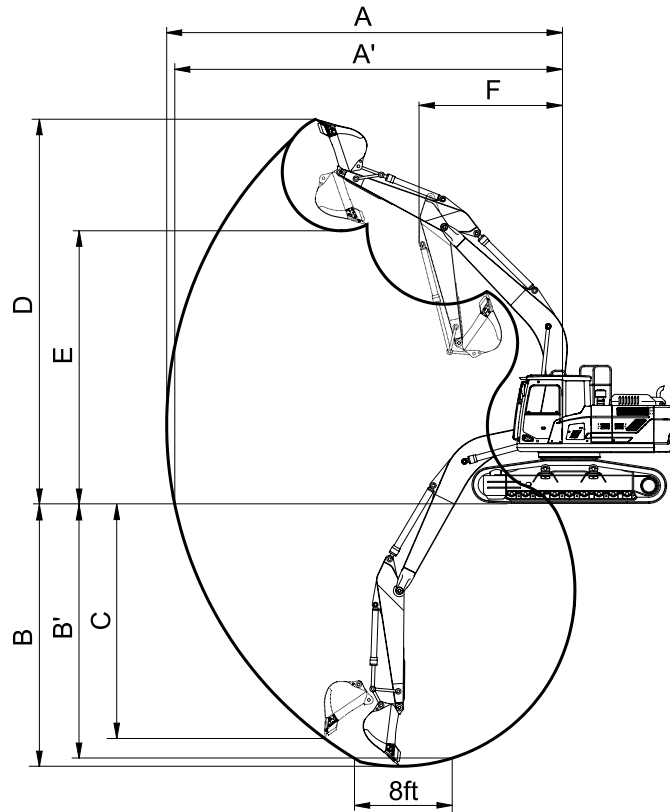


220A2SP06

Description	m (ft-in)	Boom	8.2 (26' 11")
		Arm	6.30 (20' 8")
Max digging reach	mm (ft-in)	A	15220 (49' 11")
Max digging reach on ground		A'	15120 (49' 7")
Max digging depth		B	11760 (38' 7")
Max digging depth (8 ft level)		B'	11650 (38' 3")
Max vertical wall digging depth		C	9610 (31' 6")
Max digging height		D	12550 (41' 2")
Max dumping height		E	10280 (33' 9")
Min swing radius		F	4870 (16' 0")
Bucket digging force	kN	SAE	72.7 [72.7]
	kgf		7410 [7410]
	lbf		16340 [16340]
	kN	ISO	85.0 [85.0]
	kgf		8670 [8670]
	lbf		19110 [19110]
Arm digging force	kN	SAE	48.9 [48.9]
	kgf		4990 [4990]
	lbf		11000 [11000]
	kN	ISO	49.9 [49.9]
	kgf		5090 [5090]
	lbf		11220 [11220]

[ ] : Power boost

#### 4) HX220A HW



220A2SP07

Description	m (ft-in)	Boom	5.68 (20' 6")			
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	3.90 (12' 10")
Max digging reach		A	9980 (32' 9")	9140 (30' 0")	9500 (31' 2")	10910 (35' 10")
Max digging reach on ground		A'	9820 (32' 3")	8920 (29' 3")	9290 (30' 6")	10730 (35' 2")
Max digging depth		B	6550 (21' 6")	5630 (18' 6")	6010 (19' 9")	7530 (24' 8")
Max digging depth (8 ft level)	mm (ft-in)	B'	6380 (20' 11")	5390 (17' 8")	5820 (19' 1")	7390 (24' 3")
Max vertical wall digging depth		C	6100 (20' 0")	5090 (16' 8")	5630 (18' 6")	7050 (23' 2")
Max digging height		D	9780 (32' 1")	9330 (30' 7")	9530 (31' 3")	10300 (33' 10")
Max dumping height		E	6960 (22' 10")	6520 (21' 5")	6710 (22' 0")	7480 (24' 6")
Min swing radius		F	3670 (12' 0")	3750 (12' 4")	3740 (12' 3")	3700 (12' 2")
Bucket digging force	kN		133.4 [144.8]	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]
	kgf	SAE	13600 [14770]	13600 [14770]	13600 [14770]	13600 [14770]
	lbf		29980 [32560]	29980 [32560]	29980 [32560]	29980 [32560]
	kN		152.0 [165.0]	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]
	kgf	ISO	15500 [16830]	15500 [16830]	15500 [16830]	15500 [16830]
	lbf		34170 [37100]	34170 [37100]	34170 [37100]	34170 [37100]
Arm digging force	kN		102.0 [110.7]	144.2 [156.5]	119.6 [129.9]	84.3 [91.6]
	kgf	SAE	10400 [11290]	14700 [15960]	12200 [13250]	8600 [9340]
	lbf		22930 [24890]	32410 [35190]	26900 [29210]	18960 [20590]
	kN		106.9 [116.0]	151.0 [164.0]	106.9 [116.0]	87.3 [94.7]
	kgf	ISO	10900 [11830]	15400 [16720]	10900 [11830]	8900 [9660]
	lbf		24030 [26080]	33950 [36860]	24030 [26080]	19620 [21300]

[ ] : Power boost

#### 4. WEIGHT

Item	HX220A L		HX220A LR		HX220A HW	
	kg	lb	kg	lb	kg	lb
Upperstructure assembly						
· Main frame weld assembly	1,890	4,170	1,890	4,170	1,930	4,260
· Engine assembly	583	1,285	583	1,285	583	1,285
· Aftertreatment assembly	74	162	74	162	74	162
· Main pump assembly	140	309	140	309	140	309
· Main control valve assembly	220	485	220	485	220	485
· Swing motor assembly	240	529	240	529	240	529
· Hydraulic oil tank WA	220	485	220	485	220	485
· Fuel tank WA	210	463	210	463	210	463
· Counterweight	3,800	8,380	5,300	11,680	3,800	8,380
· Cab assembly	490	1,080	490	1,080	490	1,080
Lower chassis assembly						
· Track frame weld assembly	2,530	5,580	2,530	5,580	3,605	7,950
· Swing bearing	280	620	280	620	299	660
· Travel motor assembly (2EA)	609	1,340	609	1,340	609	1,340
· Turning joint	57	130	57	130	57	130
· Sprocket (2EA)	112	247	112	247	103	227
· Track recoil spring (2EA)	279	615	279	615	326	719
· Idler (2EA)	301	664	301	664	301	664
· Carrier roller (2EA)	93	205	93	205	177	390
· Track roller (18EA)	797	1,757	797	1,757	797	1,757
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	2,712	5,979	-	-	-	-
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	-	-	-	-	2,902	6,398
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	3,184	7,020	-	-	3,184	7,020
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	3,468	7,646	3,468	7,646	3,468	7,646
· Track-chain assembly (900 mm triple grouser shoe) (2EA)	3,750	8,267	-	-	3,750	8,267
· Track-chain assembly (700 mm double grouser shoe) (2EA)	3,458	7,624	-	-	3,458	7,624
Front attachment assembly						
· 5.68 m boom assembly	1,520	3,351	-	-	1,520	3,351
· 2.92 m arm assembly	760	1,676	-	-	760	1,676
· 0.92 m <sup>3</sup> SAE heaped bucket	820	1,808	-	-	820	1,808
· 8.2 m boom assembly	-	-	2,110	4,652	-	-
· 6.3 m arm assembly	-	-	1,100	2,425	-	-
· 0.52 m <sup>3</sup> SAE heaped bucket	-	-	470	1,036	-	-
· Boom cylinder assembly (2EA)	180	397	180	397	180	397
· Arm cylinder assembly	280	617	270	595	280	617
· Bucket cylinder assembly	170	375	100	220	170	375
· Bucket control linkage total	200	441	170	375	200	441

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

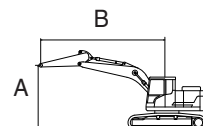
※ Refer to Transportation for actual weight information and Specifications for operating weight.











## 5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2000	3800	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)								At max. reach			
	3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach	
											m (ft)	
7.5 m (24.6 ft)	kg									*5720	*5720	5.00
	lb									*12610	*12610	(16.4)
6.0 m (19.7 ft)	kg				*5460	5440				*5530	4940	6.35
	lb				*12040	11990				*12190	10890	(20.8)
4.5 m (14.8 ft)	kg		*6900	*6900	*5810	5310				*5570	4040	7.14
	lb		*15210	*15210	*12810	11710				*12280	8910	(23.4)
3.0 m (9.8 ft)	kg		*8690	7640	*6540	5090	5640	3670		5580	3630	7.55
	lb		*19160	16840	*14420	11220	12430	8090		12300	8000	(24.8)
1.5 m (4.9 ft)	kg				*7270	4880	5550	3590		5400	3500	7.64
	lb				*16030	10760	12240	7910		11900	7720	(25.1)
0.0 m (0.0 ft)	kg		*10520	7090	7580	4760				5580	3590	7.43
	lb		*23190	15630	16710	10490				12300	7910	(24.4)
-1.5 m (-4.9 ft)	kg		*10220	7100	7560	4750				6230	3980	6.88
	lb		*22530	15650	16670	10470				13730	8770	(22.6)
-3.0 m (-9.8 ft)	kg	*12370	*12370	*9130	7240					*6670	4980	5.90
	lb	*27270	*27270	*20130	15960					*14700	10980	(19.4)
-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.**

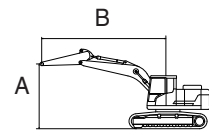
▲ **Failure to comply to the rated load can cause possible personal injury or property damage.**











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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	MONO BOOM	5680	2400	3800	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)								At max. reach			
	3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach	
											m (ft)	
7.5 m (24.6 ft)	kg									*5080	*5080	5.58
	lb									*11200	*11200	(18.3)
6.0 m (19.7 ft)	kg				*5010	*5010				*4610	4430	6.82
	lb				*11050	*11050				*10160	9770	(22.4)
4.5 m (14.8 ft)	kg		*6350	*6350	*5450	5340	*5000	3750	*4490	3700	7.55	
	lb		*14000	*14000	*12020	11770	*11020	8270	*9900	8160	(24.8)	
3.0 m (9.8 ft)	kg		*8150	7740	*6230	5110	*5420	3670	*4580	3360	7.94	
	lb		*17970	17060	*13730	11270	*11950	8090	*10100	7410	(26.1)	
1.5 m (4.9 ft)	kg		*9710	7270	*7030	4880	5530	3570	*4860	3230	8.03	
	lb		*21410	16030	*15500	10760	12190	7870	*10710	7120	(26.3)	
0.0 m (0.0 ft)	kg		*10410	7060	7550	4730	5460	3500	5140	3310	7.83	
	lb		*22950	15560	16640	10430	12040	7720	11330	7300	(25.7)	
-1.5 m (-4.9 ft)	kg	*10830	*10830	*10330	7040	7500	4690		5660	3620	7.31	
	lb	*23880	*23880	*22770	15520	16530	10340		12480	7980	(24.0)	
-3.0 m (-9.8 ft)	kg	*13260	*13260	*9490	7140	*6960	4770		*6300	4390	6.40	
	lb	*29230	*29230	*20920	15740	*15340	10520		*13890	9680	(21.0)	
-4.5 m (-14.8 ft)	kg			*7150	*7150				*6320	*6320	4.89	
	lb			*15760	*15760				*13930	*13930	(16.0)	

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.

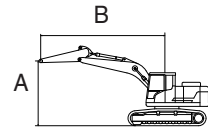
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	MONO BOOM	5680	2920	3800	600	-	-	-	-	-



: 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							*4460	*4460			*3370	*3370	6.26
	lb							*9830	*9830			*7430	*7430	(20.5)
6.0 m (19.7 ft)	kg							*4460	*4460			*3100	*3100	7.38
	lb							*9830	*9830			*6830	*6830	(24.2)
4.5 m (14.8 ft)	kg							*4970	*4970	*4710	3780	*3020	*3020	8.07
	lb							*10960	*10960	*10380	8330	*6660	*6660	(26.5)
3.0 m (9.8 ft)	kg					*7410	*7410	*5800	5140	*5070	3670	*3070	3050	8.43
	lb					*16340	*16340	*12790	11330	*11180	8090	*6770	6720	(27.7)
1.5 m (4.9 ft)	kg					*9140	7340	*6680	4890	*5520	3550	*3250	2940	8.51
	lb					*20150	16180	*14730	10780	*12170	7830	*7170	6480	(27.9)
0.0 m (0.0 ft)	kg			*5930	*5930	*10140	7040	*7330	4700	5410	3450	*3590	2990	8.32
	lb			*13070	*13070	*22350	15520	*16160	10360	11930	7610	*7910	6590	(27.3)
-1.5 m (-4.9 ft)	kg	*6500	*6500	*10400	*10400	*10350	6950	7440	4620	5380	3420	*4200	3230	7.84
	lb	*14330	*14330	*22930	*22930	*22820	15320	16400	10190	11860	7540	*9260	7120	(25.7)
-3.0 m (-9.8 ft)	kg	*11120	*11120	*14180	13660	*9820	7010	*7250	4650			*5420	3800	7.00
	lb	*24520	*24520	*31260	30120	*21650	15450	*15980	10250			*11950	8380	(23.0)
-4.5 m (-14.8 ft)	kg			*11610	*11610	*8190	7220					*6080	5250	5.65
	lb			*25600	*25600	*18060	15920					*13400	11570	(18.5)

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.

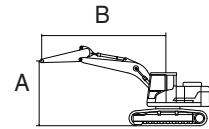
Failure to comply to the rated load can cause possible personal injury or property damage.















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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	MONO BOOM	5680	2920	3800	800	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach				
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach		
																m (ft)
7.5 m (24.6 ft)	kg							*4460	*4460					*3370	*3370	6.26
	lb							*9830	*9830					*7430	*7430	(20.5)
6.0 m (19.7 ft)	kg							*4460	*4460					*3100	*3100	7.38
	lb							*9830	*9830					*6830	*6830	(24.2)
4.5 m (14.8 ft)	kg							*4970	*4970	*4710	3900	*3020	*3020	8.07		
	lb							*10960	*10960	*10380	8600	*6660	*6660	(26.5)		
3.0 m (9.8 ft)	kg					*7410	*7410	*5800	5300	*5070	3790	*3070	*3070	8.43		
	lb					*16340	*16340	*12790	11680	*11180	8360	*6770	*6770	(27.7)		
1.5 m (4.9 ft)	kg					*9140	7570	*6680	5040	*5520	3670	*3250	3040	8.51		
	lb					*20150	16690	*14730	11110	*12170	8090	*7170	6700	(27.9)		
0.0 m (0.0 ft)	kg			*5930	*5930	*10140	7270	*7330	4860	5600	3570	*3590	3090	8.32		
	lb			*13070	*13070	*22350	16030	*16160	10710	12350	7870	*7910	6810	(27.3)		
-1.5 m (-4.9 ft)	kg	*6500	*6500	*10400	*10400	*10350	7180	*7590	4780	5560	3540	*4200	3350	7.84		
	lb	*14330	*14330	*22930	*22930	*22820	15830	*16730	10540	12260	7800	*9260	7390	(25.7)		
-3.0 m (-9.8 ft)	kg	*11120	*11120	*14180	14090	*9820	7240	*7250	4810			*5420	3940	7.00		
	lb	*24520	*24520	*31260	31060	*21650	15960	*15980	10600			*11950	8690	(23.0)		
-4.5 m (-14.8 ft)	kg			*11610	*11610	*8190	7450					*6080	5420	5.65		
	lb			*25600	*25600	*18060	16420					*13400	11950	(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.

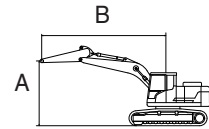
Make adjustments to the rated load as necessary for non-standard configurations.















Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	MONO BOOM	5680	2920	4500	700	-	-	-	-	-

·  : 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							*4460	*4460			*3370	*3370	6.26
	lb							*9830	*9830			*7430	*7430	(20.5)
6.0 m (19.7 ft)	kg							*4460	*4460			*3100	*3100	7.38
	lb							*9830	*9830			*6830	*6830	(24.2)
4.5 m (14.8 ft)	kg							*4970	*4970	*4710	4190	*3020	*3020	8.07
	lb							*10960	*10960	*10380	9240	*6660	*6660	(26.5)
3.0 m (9.8 ft)	kg				*7410	*7410	*5800	5670	*5070	4080	*3070	*3070	8.43	
	lb				*16340	*16340	*12790	12500	*11180	8990	*6770	*6770	(27.7)	
1.5 m (4.9 ft)	kg				*9140	8120	*6680	5420	*5520	3950	*3250	*3250	8.51	
	lb				*20150	17900	*14730	11950	*12170	8710	*7170	*7170	(27.9)	
0.0 m (0.0 ft)	kg		*5930	*5930	*10140	7820	*7330	5240	*5860	3860	*3590	3350	8.32	
	lb		*13070	*13070	*22350	17240	*16160	11550	*12920	8510	*7910	7390	(27.3)	
-1.5 m (-4.9 ft)	kg	*6500	*6500	*10400	*10400	*10350	7730	*7590	5160	5910	3830	*4200	3620	7.84
	lb	*14330	*14330	*22930	*22930	*22820	17040	*16730	11380	13030	8440	*9260	7980	(25.7)
-3.0 m (-9.8 ft)	kg	*11120	*11120	*14180	*14180	*9820	7790	*7250	5180			*5420	4250	7.00
	lb	*24520	*24520	*31260	*31260	*21650	17170	*15980	11420			*11950	9370	(23.0)
-4.5 m (-14.8 ft)	kg		*11610	*11610	*8190	8000						*6080	5830	5.65
	lb		*25600	*25600	*18060	17640						*13400	12850	(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.

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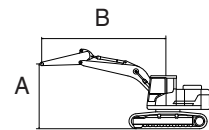
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▲ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	MONO BOOM	5680	2920	5300	700	-	-	-	-	-

·  : 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							*4460	*4460			*3370	*3370	6.26
	lb							*9830	*9830			*7430	*7430	(20.5)
6.0 m (19.7 ft)	kg							*4460	*4460			*3100	*3100	7.38
	lb							*9830	*9830			*6830	*6830	(24.2)
4.5 m (14.8 ft)	kg							*4970	*4970	*4710	4550	*3020	*3020	8.07
	lb							*10960	*10960	*10380	10030	*6660	*6660	(26.5)
3.0 m (9.8 ft)	kg				*7410	*7410	*5800	*5800	*5070	4440	*3070	*3070	8.43	
	lb				*16340	*16340	*12790	*12790	*11180	9790	*6770	*6770	(27.7)	
1.5 m (4.9 ft)	kg				*9140	8820	*6680	5900	*5520	4320	*3250	*3250	8.51	
	lb				*20150	19440	*14730	13010	*12170	9520	*7170	*7170	(27.9)	
0.0 m (0.0 ft)	kg		*5930	*5930	*10140	8520	*7330	5710	*5860	4220	*3590	*3590	8.32	
	lb		*13070	*13070	*22350	18780	*16160	12590	*12920	9300	*7910	*7910	(27.3)	
-1.5 m (-4.9 ft)	kg	*6500	*6500	*10400	*10400	*10350	8430	*7590	5630	*5920	4190	*4200	3960	7.84
	lb	*14330	*14330	*22930	*22930	*22820	18580	*16730	12410	*13050	9240	*9260	8730	(25.7)
-3.0 m (-9.8 ft)	kg	*11120	*11120	*14180	*14180	*9820	8490	*7250	5660			*5420	4640	7.00
	lb	*24520	*24520	*31260	*31260	*21650	18720	*15980	12480			*11950	10230	(23.0)
-4.5 m (-14.8 ft)	kg		*11610	*11610	*8190	*8190						*6080	*6080	5.65
	lb		*25600	*25600	*18060	*18060						*13400	*13400	(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).

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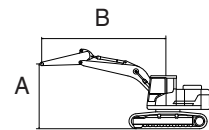
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.















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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	MONO BOOM	5680	3900	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)		9.0 m (29.5 ft)		Capacity		Reach					
															m (ft)					
7.5 m (24.6 ft)	kg																	*2330	*2330	7.49
	lb																	*5140	*5140	(24.6)
6.0 m (19.7 ft)	kg								*3680	*3680								*2170	*2170	8.44
	lb								*8110	*8110								*4780	*4780	(27.7)
4.5 m (14.8 ft)	kg								*3920	3820	*2330	*2330	*2120	*2120	*2120	*2120	*2120	*2120	*2120	9.05
	lb								*8640	8420	*5140	*5140	*4670	*4670	*4670	*4670	*4670	*4670	*4670	(29.7)
3.0 m (9.8 ft)	kg					*5890	*5890	*4880	*4880	*4370	3680	*3530	2710	*2150	*2150	*2150	*2150	*2150	*2150	9.37
	lb					*12990	*12990	*10760	*10760	*9630	8110	*7780	5970	*4740	*4740	*4740	*4740	*4740	*4740	(30.7)
1.5 m (4.9 ft)	kg			*8630	*8630	*7850	7470	*5870	4900	*4920	3510	*4080	2630	*2250	*2250	*2250	*2250	*2250	*2250	9.45
	lb			*19030	*19030	*17310	16470	*12940	10800	*10850	7740	*8990	5800	*4960	*4960	*4960	*4960	*4960	*4960	(31.0)
0.0 m (0.0 ft)	kg			*7210	*7210	*9310	7000	*6730	4640	5330	3370	*3890	2570	*2440	*2440	*2440	*2440	*2440	*2440	9.28
	lb			*15900	*15900	*20530	15430	*14840	10230	11750	7430	*8580	5670	*5380	*5380	*5380	*5380	*5380	*5380	(30.4)
-1.5 m (-4.9 ft)	kg	*5430	*5430	*9370	*9370	*10030	6770	*7260	4480	5240	3280						*2780	2610	8.85	
	lb	*11970	*11970	*20660	*20660	*22110	14930	*16010	9880	11550	7230						*6130	5750	(29.0)	
-3.0 m (-9.8 ft)	kg	*8510	*8510	*13040	*13040	*10030	6730	7250	4440	5220	3270						*3380	2950	8.12	
	lb	*18760	*18760	*28750	*28750	*22110	14840	15980	9790	11510	7210						*7450	6500	(26.6)	
-4.5 m (-14.8 ft)	kg	*12380	*12380	*13530	13400	*9220	6840	*6720	4520								*4660	3700	6.99	
	lb	*27290	*27290	*29830	29540	*20330	15080	*14820	9960								*10270	8160	(22.9)	
-6.0 m (-19.7 ft)	kg			*10120	*10120	*6860	*6860										*5510	*5510	5.21	
	lb			*22310	*22310	*15120	*15120										*12150	*12150	(17.1)	

Note 1. Lifting capacity are based on ISO 10567.

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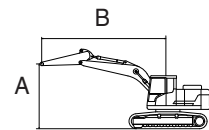
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












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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	MONO BOOM	5680	3900	5300	700	-	-	-	-	-

•  : 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)		9.0 m (29.5 ft)		Capacity		Reach					
															m (ft)					
7.5 m (24.6 ft)	kg																	*2330	*2330	7.49
	lb																	*5140	*5140	(24.6)
6.0 m (19.7 ft)	kg								*3680	*3680								*2170	*2170	8.44
	lb								*8110	*8110								*4780	*4780	(27.7)
4.5 m (14.8 ft)	kg								*3920	*3920	*2330	*2330	*2120	*2120				*2120	*2120	9.05
	lb								*8640	*8640	*5140	*5140	*4670	*4670				*4670	*4670	(29.7)
3.0 m (9.8 ft)	kg				*5890	*5890	*4880	*4880	*4370	*4370	*3530	3330	*2150	*2150				*2150	*2150	9.37
	lb				*12990	*12990	*10760	*10760	*9630	*9630	*7780	7340	*4740	*4740				*4740	*4740	(30.7)
1.5 m (4.9 ft)	kg		*8630	*8630	*7850	*7850	*5870	*5870	*4920	4280	*4080	3250	*2250	*2250				*2250	*2250	9.45
	lb		*19030	*19030	*17310	*17310	*12940	*12940	*10850	9440	*8990	7170	*4960	*4960				*4960	*4960	(31.0)
0.0 m (0.0 ft)	kg		*7210	*7210	*9310	8480	*6730	5650	*5410	4130	*3890	3190	*2440	*2440				*2440	*2440	9.28
	lb		*15900	*15900	*20530	18700	*14840	12460	*11930	9110	*8580	7030	*5380	*5380				*5380	*5380	(30.4)
-1.5 m (-4.9 ft)	kg	*5430	*5430	*9370	*9370	*10030	8250	*7260	5490	*5720	4040							*2780	*2780	8.85
	lb	*11970	*11970	*20660	*20660	*22110	18190	*16010	12100	*12610	8910							*6130	*6130	(29.0)
-3.0 m (-9.8 ft)	kg	*8510	*8510	*13040	*13040	*10030	8210	*7340	5450	*5660	4030							*3380	*3380	8.12
	lb	*18760	*18760	*28750	*28750	*22110	18100	*16180	12020	*12480	8880							*7450	*7450	(26.6)
-4.5 m (-14.8 ft)	kg	*12380	*12380	*13530	*13530	*9220	8320	*6720	5530									*4660	4540	6.99
	lb	*27290	*27290	*29830	*29830	*20330	18340	*14820	12190									*10270	10010	(22.9)
-6.0 m (-19.7 ft)	kg		*10120	*10120	*6860	*6860												*5510	*5510	5.21
	lb		*22310	*22310	*15120	*15120												*12150	*12150	(17.1)

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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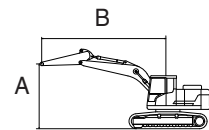
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	2-PIECE BOOM	5650	2920	3800	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)								At max. reach			
	3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach	
											m (ft)	
9.0 m (29.5 ft)	kg									*4550	*4550	4.46
	lb									*10030	*10030	(14.6)
7.5 m (24.6 ft)	kg		*6200	*6200	*5300	*5300				*3630	*3630	6.32
	lb		*13670	*13670	*11680	*11680				*8000	*8000	(20.7)
6.0 m (19.7 ft)	kg		*6430	*6430	*5760	5560				*3300	*3300	7.43
	lb		*14180	*14180	*12700	12260				*7280	*7280	(24.4)
4.5 m (14.8 ft)	kg	*10530	*10530	*8050	*8050	*6090	5370	*4920	3730	*3180	*3180	8.11
	lb	*23210	*23210	*17750	*17750	*13430	11840	*10850	8220	*7010	*7010	(26.6)
3.0 m (9.8 ft)	kg		*10100	7820	*6730	5080	*5130	3610	*3200	2950	8.47	
	lb		*22270	17240	*14840	11200	*11310	7960	*7050	6500	(27.8)	
1.5 m (4.9 ft)	kg		*11830	7210	*7620	4800	*5440	3470	*3350	2840	8.55	
	lb		*26080	15900	*16800	10580	*11990	7650	*7390	6260	(28.1)	
0.0 m (0.0 ft)	kg		11830	6880	7480	4590	5370	3370	*3640	2890	8.36	
	lb		26080	15170	16490	10120	11840	7430	*8020	6370	(27.4)	
-1.5 m (-4.9 ft)	kg	*11710	*11710	*10960	6790	7380	4510	5340	3340	*4180	3140	7.88
	lb	*25820	*25820	*24160	14970	16270	9940	11770	7360	*9220	6920	(25.9)
-3.0 m (-9.8 ft)	kg	*11250	*11250	*8920	6870	*6680	4560			*4770	3710	7.05
	lb	*24800	*24800	*19670	15150	*14730	10050			*10520	8180	(23.1)

Note 1. Lifting capacity are based on ISO 10567.

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

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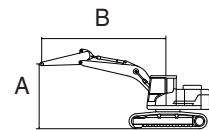
Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A L	2-PIECE BOOM	5650	2920	5300	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)								At max. reach			
	3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach	
											m (ft)	
9.0 m (29.5 ft)	kg									*3940	*3940	4.46
	lb									*8690	*8690	(14.6)
7.5 m (24.6 ft)	kg		*6020	*6020	*4590	*4590				*3130	*3130	6.32
	lb		*13270	*13270	*10120	*10120				*6900	*6900	(20.7)
6.0 m (19.7 ft)	kg		*6170	*6170	*4950	*4950				*2830	*2830	7.43
	lb		*13600	*13600	*10910	*10910				*6240	*6240	(24.4)
4.5 m (14.8 ft)	kg	*9140	*9140	*6930	*6930	*5220	*5220	*4200	*4200	*2730	*2730	8.11
	lb	*20150	*20150	*15280	*15280	*11510	*11510	*9260	*9260	*6020	*6020	(26.6)
3.0 m (9.8 ft)	kg			*8690	*8690	*5770	*5770	*4380	4290	*2750	*2750	8.47
	lb			*19160	*19160	*12720	*12720	*9660	9460	*6060	*6060	(27.8)
1.5 m (4.9 ft)	kg			*10100	8540	*6520	5700	*4640	4160	*2870	*2870	8.55
	lb			*22270	18830	*14370	12570	*10230	9170	*6330	*6330	(28.1)
0.0 m (0.0 ft)	kg			*10150	8220	*7260	5500	*4890	4060	*3130	*3130	8.36
	lb			*22380	18120	*16010	12130	*10780	8950	*6900	*6900	(27.4)
-1.5 m (-4.9 ft)	kg	*10190	*10190	*9300	8130	*6970	5420	*5040	4030	*3600	*3600	7.88
	lb	*22470	*22470	*20500	17920	*15370	11950	*11110	8880	*7940	*7940	(25.9)
-3.0 m (-9.8 ft)	kg	*9460	*9460	*7530	*7530	*5620	5470			*3990	*3990	7.05
	lb	*20860	*20860	*16600	*16600	*12390	12060			*8800	*8800	(23.1)

Note 1. Lifting capacity are based on ISO 10567.

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

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

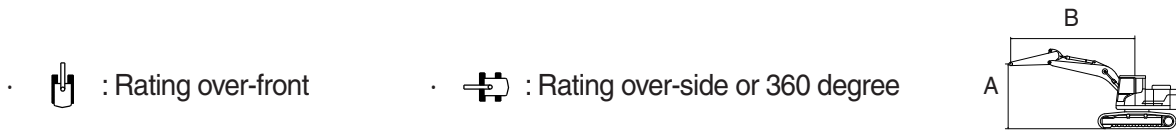
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Failure to comply to the rated load can cause possible personal injury or property damage.

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A L	LONG REACH	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		8200	6300	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)			
10.5m 34.4ft	kg lb													*1180 *2600	*1180 *2600					*870 *1920	*870 *1920	10.88 (35.7)			
9.0m 29.5ft	kg lb																			*820 *1810	*820 *1810	11.94 (39.2)			
7.5m 24.6ft	kg lb													*1870 *4120	*1870 *4120	*1410 *3110	*1410 *3110			*790 *1740	*790 *1740	12.74 (41.8)			
6.0m 19.7ft	kg lb													*1990 *4390	*1990 *4390	*1780 *3920	*1780 *3920			*790 *1740	*790 *1740	13.31 (43.7)			
4.5m 14.8ft	kg lb													*2290 *5050	*2290 *5050	*2170 *4780	*2170 *4780	*2080 *4590	*2080 *4590	*1050 *2310	*1050 *2310	*800 *1760	*800 *1760	13.70 (45.0)	
3.0m 9.8ft	kg lb													*2980 *6570	*2980 *6570	*2630 *5800	*2630 *5800	*2400 *5290	*2400 *5290	2000 4410	*1340 *2950	*1340 *2950	*830 *1830	*830 *1830	13.92 (45.7)
1.5m 4.9ft	kg lb			*2800 *6170	*2800 *6170	*6330 *13960	*6330 *13960	*4470 *9850	*4470 *9850	*3530 *7780	*3530 *7780	*2990 *6590	*2990 *6590	*2640 *5820	2400 5290	*2410 *5310	1910 4210	*1490 *3280	*1490 *3280	*880 *1940	*880 *1940	13.97 (45.8)			
0.0m 0.0ft	kg lb			*2410 *5310	*2410 *5310	*6270 *13820	*6270 *13820	*5260 *11600	5020 11070	*4050 *8930	3710 8180	*3340 *7360	2870 6330	*2880 *6350	2270 5000	*2580 *5690	1830 4030	*1470 *3240	*1470 *3240	*950 *2090	*950 *2090	13.85 (45.4)			
-1.5m -4.9ft	kg lb	*1990 *4390	*1990 *4390	*2980 *6570	*2980 *6570	*5610 *12370	*5610 *12370	*5830 *12850	4690 10340	*4460 *9830	3480 7670	*3630 *8000	2710 5970	*3090 *6810	2160 4760	*2720 *6000	1760 3880	*1170 *2580	*1170 *2580	*1040 *2290	*1040 *2290	13.57 (44.5)			
-3.0m -9.8ft	kg lb	*2870 *6330	*2870 *6330	*3800 *8380	*3800 *8380	*6050 *13340	*6050 *13340	*6170 *13600	4510 9940	*4750 *10470	3330 7340	*3850 *8490	2600 5730	*3250 *7170	2090 4610	*2810 *6190	1710 3770			*1180 *2600	*1180 *2600	13.11 (43.0)			
-4.5m -14.8ft	kg lb	*3790 *8360	*3790 *8360	*4800 *10580	*4800 *10580	*7020 *15480	6750 14880	*6290 *13870	4450 9810	*4880 *10760	3270 7210	*3960 *8730	2540 5600	*3320 *7320	2050 4520	*2380 *5250	1700 3750			*1390 *3060	*1390 *3060	12.45 (40.9)			
-6.0m -19.7ft	kg lb	*4800 *10580	*4800 *10580	*5970 *13160	*5970 *13160	*8340 *18390	6840 15080	*6190 *13650	4470 9850	*4850 *10690	3270 7210	*3930 *8660	2550 5620	*3250 *7170	2070 4560					*1720 *3790	*1720 *3790	11.56 (37.9)			
-7.5m -24.6ft	kg lb	*5950 *13120	*5950 *13120	*7410 *16340	*7410 *16340	*7740 *17060	7040 15520	*5830 *12850	4590 10120	*4600 *10140	3350 7390	*3700 *8160	2620 5780							*2300 *5070	2190 4830	10.37 (34.0)			
-9.0m -29.5ft	kg lb			*9290 *20480	*9290 *20480	*6700 *14770	*6700 *14770	*5100 *11240	4790 10560	*3980 *8770	3520 7760									*3160 *6970	2880 6350	8.77 (28.8)			
-10.5m -34.4ft	kg lb																								

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).

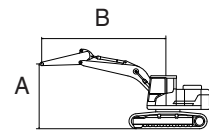
4. \*Indicates load limited by hydraulic capacity.











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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX220A HW	MONO BOOM	5680	2000	3800	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)								At max. reach			
	3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach	
											m (ft)	
7.5 m (24.6 ft)	kg									*5670	*5670	5.23
	lb									*12500	*12500	(17.1)
6.0 m (19.7 ft)	kg				*5470	*5470				*5530	5060	6.48
	lb				*12060	*12060				*12190	11160	(21.3)
4.5 m (14.8 ft)	kg		*7120	*7120	*5900	5600				*5580	4220	7.21
	lb		*15700	*15700	*13010	12350				*12300	9300	(23.7)
3.0 m (9.8 ft)	kg		*8930	8030	*6650	5370	*5740	3900		*5720	3840	7.58
	lb		*19690	17700	*14660	11840	*12650	8600		*12610	8470	(24.9)
1.5 m (4.9 ft)	kg				*7340	5170	5910	3820		5760	3730	7.63
	lb				*16180	11400	13030	8420		12700	8220	(25.0)
0.0 m (0.0 ft)	kg		*10520	7550	*7710	5070				6010	3870	7.37
	lb		*23190	16640	*17000	11180				13250	8530	(24.2)
-1.5 m (-4.9 ft)	kg	*12400	*12400	*10130	7580	*7550	5070			*6470	4340	6.78
	lb	*27340	*27340	*22330	16710	*16640	11180			*14260	9570	(22.2)
-3.0 m (-9.8 ft)	kg	*12040	*12040	*8890	7730					*6690	5540	5.73
	lb	*26540	*26540	*19600	17040					*14750	12210	(18.8)
-4.5 m (-14.8 ft)	kg											
	lb											

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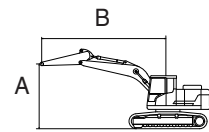
Make adjustments to the rated load as necessary for non-standard configurations.













Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2400	3800	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)								At max. reach			
	3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach	
											m (ft)	
7.5 m (24.6 ft)	kg									*4990	*4990	5.79
	lb									*11000	*11000	(19.0)
6.0 m (19.7 ft)	kg				*5040	*5040				*4580	4560	6.94
	lb				*11110	*11110				*10100	10050	(22.8)
4.5 m (14.8 ft)	kg		*6570	*6570	*5540	*5540	*5190	3980	*4490	3870	7.62	
	lb		*14480	*14480	*12210	*12210	*11440	8770	*9900	8530	(25.0)	
3.0 m (9.8 ft)	kg		*8390	8120	*6350	5390	*5470	3900	*4600	3550	7.97	
	lb		*18500	17900	*14000	11880	*12060	8600	*10140	7830	(26.1)	
1.5 m (4.9 ft)	kg		*9850	7690	*7120	5170	*5830	3800	*4920	3450	8.02	
	lb		*21720	16950	*15700	11400	*12850	8380	*10850	7610	(26.3)	
0.0 m (0.0 ft)	kg		*10440	7510	*7600	5040	5820	3730	*5520	3560	7.78	
	lb		*23020	16560	*16760	11110	12830	8220	*12170	7850	(25.5)	
-1.5 m (-4.9 ft)	kg	*11820	*11820	*10270	7500	*7600	5010		*6070	3940	7.22	
	lb	*26060	*26060	*22640	16530	*16760	11050		*13380	8690	(23.7)	
-3.0 m (-9.8 ft)	kg	*12960	*12960	*9300	7620	*6760	5110		*6330	4860	6.25	
	lb	*28570	*28570	*20500	16800	*14900	11270		*13960	10710	(20.5)	
-4.5 m (-14.8 ft)	kg											
	lb											

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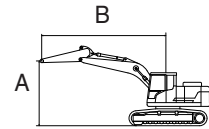
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










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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	2920	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							*4490	*4490			*3320	*3320	6.44
	lb							*9900	*9900			*7320	*7320	(21.1)
6.0 m (19.7 ft)	kg							*4500	*4500			*3080	*3080	7.49
	lb							*9920	*9920			*6790	*6790	(24.6)
4.5 m (14.8 ft)	kg							*5070	*5070	*4750	4010	*3020	*3020	8.13
	lb							*11180	*11180	*10470	8840	*6660	*6660	(26.7)
3.0 m (9.8 ft)	kg				*7670	*7670	*5920	5420	*5130	3900	*3090	*3090	8.46	
	lb				*16910	*16910	*13050	11950	*11310	8600	*6810	*6810	(27.7)	
1.5 m (4.9 ft)	kg				*9330	7740	*6780	5170	*5570	3770	*3290	3140	8.50	
	lb				*20570	17060	*14950	11400	*12280	8310	*7250	6920	(27.9)	
0.0 m (0.0 ft)	kg		*6460	*6460	*10210	7480	*7390	5000	5770	3680	*3650	3220	8.28	
	lb		*14240	*14240	*22510	16490	*16290	11020	12720	8110	*8050	7100	(27.2)	
-1.5 m (-4.9 ft)	kg	*7100	*7100	*11080	*11080	*10330	7410	*7580	4930	5750	3660	*4320	3510	7.75
	lb	*15650	*15650	*24430	*24430	*22770	16340	*16710	10870	12680	8070	*9520	7740	(25.4)
-3.0 m (-9.8 ft)	kg	*11800	*11800	*13920	*13920	*9690	7480	*7130	4980			*5670	4190	6.86
	lb	*26010	*26010	*30690	*30690	*21360	16490	*15720	10980			*12500	9240	(22.5)
-4.5 m (-14.8 ft)	kg		*11110	*11110	*7820	7730						*6090	5970	5.42
	lb		*24490	*24490	*17240	17040						*13430	13160	(17.8)

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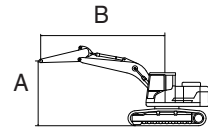
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5680	3900	3800	600	-	-	-	-	-



: 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)		9.0 m (29.5 ft)		Capacity	Reach		
															m (ft)	
7.5 m (24.6 ft)	kg									*2760	*2760			*2300	*2300	7.64
	lb									*6080	*6080			*5070	*5070	(25.1)
6.0 m (19.7 ft)	kg									*3690	*3690			*2160	*2160	8.54
	lb									*8140	*8140			*4760	*4760	(28.0)
4.5 m (14.8 ft)	kg						*4100	*4100	*3970	*3970	*2560	*2560	*2120	*2120	9.11	
	lb						*9040	*9040	*8750	*8750	*5640	*5640	*4670	*4670	(29.9)	
3.0 m (9.8 ft)	kg		*9120	*9120	*6160	*6160	*5010	*5010	*4440	3890	*3630	2900	*2150	*2150	9.40	
	lb		*20110	*20110	*13580	*13580	*11050	*11050	*9790	8580	*8000	6390	*4740	*4740	(30.8)	
1.5 m (4.9 ft)	kg		*7910	*7910	*8080	7850	*6000	5170	*4990	3730	*4110	2820	*2270	*2270	9.44	
	lb		*17440	*17440	*17810	17310	*13230	11400	*11000	8220	*9060	6220	*5000	*5000	(31.0)	
0.0 m (0.0 ft)	kg		*7390	*7390	*9450	7410	*6820	4920	*5470	3590	*3760	2750	*2480	*2480	9.23	
	lb		*16290	*16290	*20830	16340	*15040	10850	*12060	7910	*8290	6060	*5470	*5470	(30.3)	
-1.5 m (-4.9 ft)	kg	*5820	*5820	*9770	*9770	*10070	7210	*7300	4780	5590	3510			*2840	2840	8.77
	lb	*12830	*12830	*21540	*21540	*22200	15900	*16090	10540	12320	7740			*6260	6260	(28.8)
-3.0 m (-9.8 ft)	kg	*8970	*8970	*13670	*13670	*9970	7190	*7310	4750	5600	3510			*3500	3240	7.99
	lb	*19780	*19780	*30140	*30140	*21980	15850	*16120	10470	12350	7740			*7720	7140	(26.2)
-4.5 m (-14.8 ft)	kg	*13000	*13000	*13200	*13200	*9020	7330	*6540	4860					*4940	4130	6.80
	lb	*28660	*28660	*29100	*29100	*19890	16160	*14420	10710					*10890	9110	(22.3)
-6.0 m (-19.7 ft)	kg					*6270	*6270									
	lb					*13820	*13820									

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.

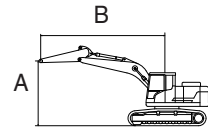
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX220A HW	LONG	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	REACH	8200	6300	5300	800	-	-	-	-	-



: Rating over-front



: Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)																		At max. reach				
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		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			
																						kg	lb	m (ft)
10.5m	kg																							
34.4ft	lb																							
9.0m	kg																							
29.5ft	lb																							
7.5m	kg																							
24.6ft	lb																							
6.0m	kg																							
19.7ft	lb																							
4.5m	kg																							
14.8ft	lb																							
3.0m	kg																							
9.8ft	lb																							
1.5m	kg																							
4.9ft	lb																							
0.0m	kg																							
0.0ft	lb																							
-1.5m	kg																							
-4.9ft	lb																							
-3.0m	kg																							
-9.8ft	lb																							
-4.5m	kg																							
-14.8ft	lb																							
-6.0m	kg																							
-19.7ft	lb																							
-7.5m	kg																							
-24.6ft	lb																							
-9.0m	kg																							
-29.5ft	lb																							
-10.5m	kg																							
-34.4ft	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.

## 6. BUCKET SELECTION GUIDE

### 1) BUCKET SELECTION



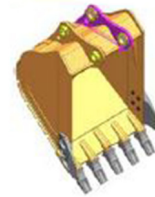
General bucket



Heavy duty  
(without side cutter)



Rock heavy duty



Long reach

Type	Capacity		Width	Weight	Tooth	MONO				2-PIECE			L/Reach
	SAE Heaped	CECE heaped	Without side cutter			Recommendation mm (ft-in)							
	m <sup>3</sup> (yd <sup>3</sup> )	m <sup>3</sup> (yd <sup>3</sup> )	mm (in)	kg (lb)	EA	5.68 m (18' 8") Boom				5.65 m (18' 6") Boom			8.2 m (26' 11") Boom
						2.0 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	6.3 m (20' 8") Arm
General bucket	0.80 (1.05)	0.70 (0.92)	1,070 (42.1")	770 (1,700)	5	●	●	●	◐	●	●	●	X
	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
	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	●	●	●	■	●	●	●	X
	1.05 (1.37)	0.92 (1.20)	1,355 (53.3")	940 (2,070)	5	●	●	◐	▲	●	●	◐	X
Rock heavy duty	0.87 (1.14)	0.77 (1.01)	1,195 (47.0")	940 (2,070)	5	●	●	●	-	●	●	●	X
	1.20 (1.57)	1.05 (1.37)	1,520 (59.8")	1,120 (2,470)	6	◐	◐	■	-	◐	■	■	X
LR	0.52 (0.68)	0.45 (0.59)	945 (37.2")	460 (1,010)	5	X	X	X	X	X	X	X	◐

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

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

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

Consult 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
HX220A L	Operating weight	kg	(lb)	22280	49120	22760	50180	23040	50790	23320	51410	23040	50790
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.48	6.76	0.42	5.92	0.37	5.25	0.33	4.72	0.42	5.99
	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	
HX220A LR	Operating weight	kg	(lb)	-	-	-	-	25460	56130	-	-	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	-	-	-	-	0.41	5.8	-	-	-	-
	Overall width	mm	(ft-in)	-	-	-	-	3190	10'6"	-	-	-	-
	Link quantity	EA		-		-		49		-		-	
HX220A HW	Operating weight	kg	(lb)	23650	52140	24120	53180	24400	53790	24690	54430	24410	53810
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.5	7.18	0.44	6.28	0.39	5.55	0.35	5	0.45	6.35
	Overall width	mm	(ft-in)	3395	11'2"	3495	11'6"	3595	11'10"	3695	12'2"	3495	11'6"
	Link quantity	EA		49		49		49		49		49	

### 2) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

#### Method of selecting shoes

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

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

**Table 1**

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

## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Maker / Model	CUMMINS / B6.7
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.21" × 4.88")
Displacement	6.7 ℓ (408 cu in)
Compression ratio	17.3 : 1
Gross power	173 Hp (129 kW) at 2200 rpm
Net power	170 Hp (127 kW) at 2200 rpm
Max. power	195 Hp (145 kW) at 2000 rpm
Peak Torque	881 N · m (650 lb · ft) at 1,300 rpm
Engine oil quantity	23.1 ℓ (6.1 U.S. gal)
Wet weight or Dry weight	583 kg (1,285 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 <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Rated oil flow	2 × 221 ℓ/min (58.4 U.S. gpm / 48.6 U.K. gpm)
Rated speed	1700 rpm

[ ]: Power boost



### 3) GEAR PUMP

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

### 4) MAIN CONTROL VALVE

Item	Specification	
Type	9 spools two-block	
Operating method	Hydraulic pilot system	
Main relief valve pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)] *1 350 kgf/cm <sup>2</sup> (4980 psi) [Not applied power boost]	
Port relief valve pressure	Boom	400 kgf/cm <sup>2</sup> (5690 psi)
	Arm	400 kgf/cm <sup>2</sup> (5690 psi), *1 300 kgf/cm <sup>2</sup> (4270 psi)
	Bucket	400 kgf/cm <sup>2</sup> (5690 psi), *1 280 kgf/cm <sup>2</sup> (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 <sup>2</sup> (3770 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	1183 kgf · m (8560 lbf · ft) over
Brake release pressure	20.9 kgf/cm <sup>2</sup> (297 psi) over
Reduction gear type	2 - stage planetary

### 6) TRAVEL MOTOR

Item	Specification	
	HX220A L/LR	HX220A HW
Type	Variable displacement axial piston motor	
Capacity	182.4/105.4 cc/rev	
Relief pressure	350 kgf/cm <sup>2</sup> (4980 psi)	
Braking system	Automatic, spring applied hydraulic released	
Braking torque	1380 kgf · m (9980 lbf · ft)	
Brake release pressure	14.2 kgf/cm <sup>2</sup> (202 psi)	
Reduction gear type	2-stage planetary	

## 7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø120 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø140 × 1510 mm
	Cushion	Extend and retract
Arm cylinder (2-piece boom)	Bore dia × Stroke	Ø140 × 1510 mm
	Cushion	Extend and retract
Adjust cylinder (2-piece boom)	Bore dia × Stroke	Ø160 × 1060 mm
	Cushion	NA
Bucket cylinder	Bore dia × Stroke	Ø120 × 1055 mm
	Cushion	Extend only
Bucket cylinder (Long reach)	Bore dia × Stroke	Ø100 × 870 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-40							
			SAE 5W-40							
			SAE 15W-40							
DEF/ AdBlue® tank	Mixture of urea and deionized water	48 (12.6)	ISO 22241, High-purity urea + deionized water (32.5:67.5)							
Swing drive	Gear oil	6.2 (1.6)	★SAE 75W-90							
Final drive		4.5×2 (1.2×2)	SAE 80W-90							
Hydraulic tank	Hydraulic oil	Tank 160 (42.3)	★ISO VG 15							
			ISO VG 32							
		System 275 (72.6)	ISO VG 46, HBHO VG 46★ <sup>3</sup>							
			ISO VG 68							
Fuel tank	Diesel fuel★ <sup>1</sup>	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★ <sup>2</sup>	40 (10.6)	Ethylene glycol base permanent type (50 : 50)							
			★Ethylene glycol base permanent type (60 : 40)							

**SAE** : Society of Automotive Engineers

**API** : American Petroleum Institute

**ISO** : International Organization for Standardization

**NLGI** : National Lubricating Grease Institute

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

**DEF** : Diesel Exhaust Fluid, DEF compatible with AdBlue®

★ : Cold region (Russia, CIS, Mongolia)

★<sup>1</sup> : Ultra low sulfur diesel  
- sulfur content ≤ 15 ppm

★<sup>2</sup> : Soft water  
City water or distilled water

★<sup>3</sup> : 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.