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SECTION 1 GENERAL

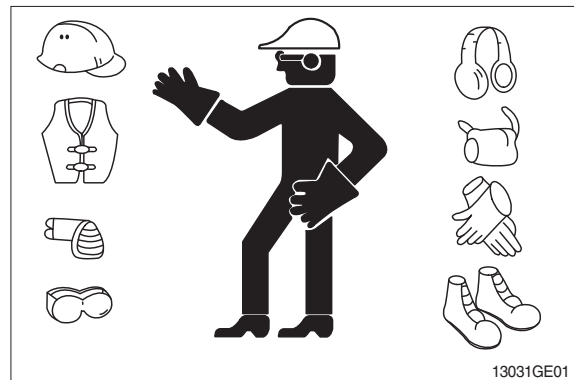
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

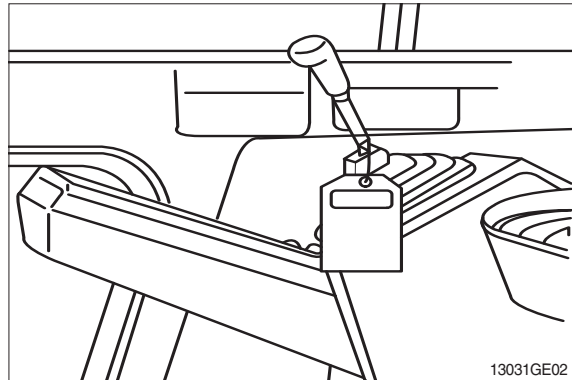
Wear close fitting clothing and safety equipment appropriate to the job.



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.



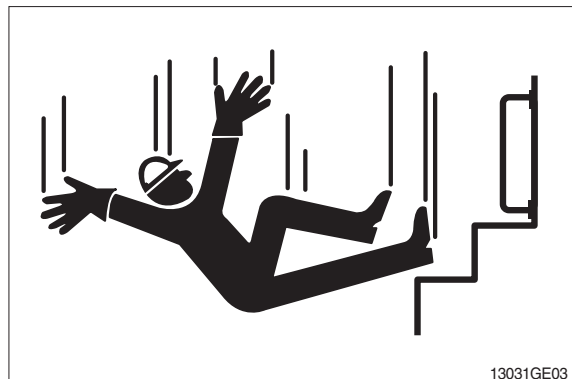
USE HANDHOLDS AND STEPS

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.

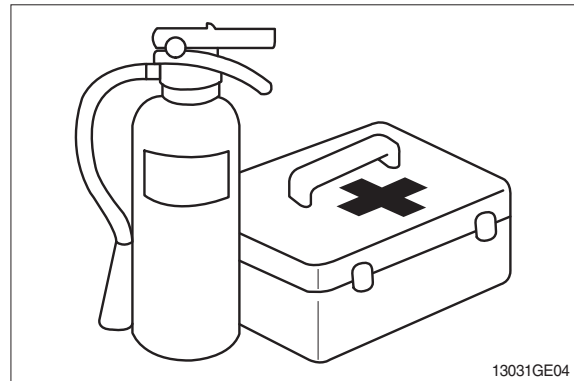


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

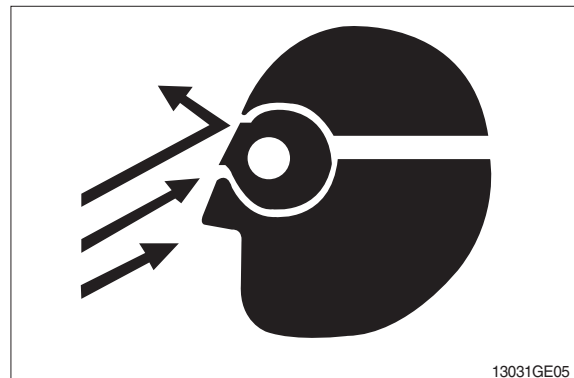
Keep a first aid kit and fire extinguisher handy.

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.

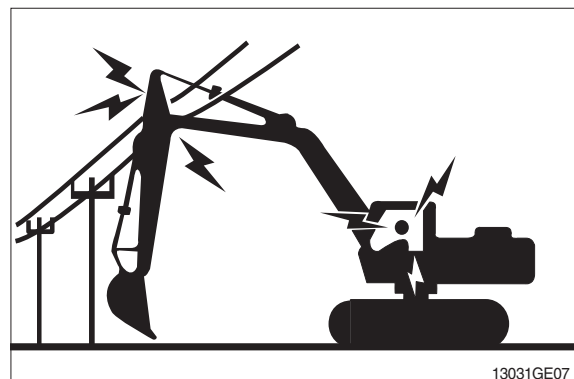
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

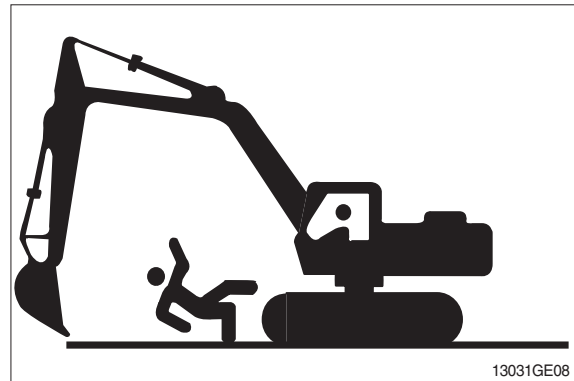
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

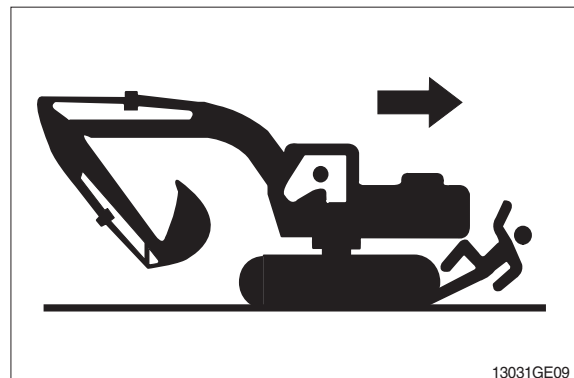


MOVE AND OPERATE MACHINE SAFELY

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:

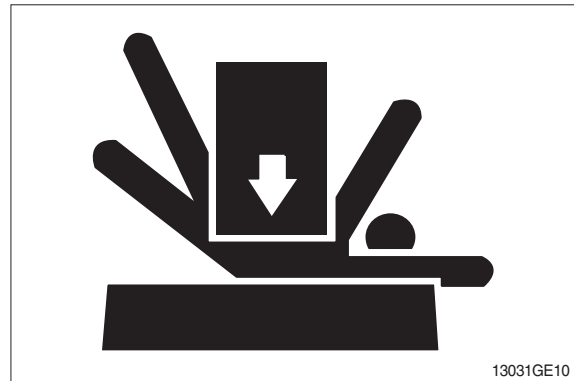
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

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

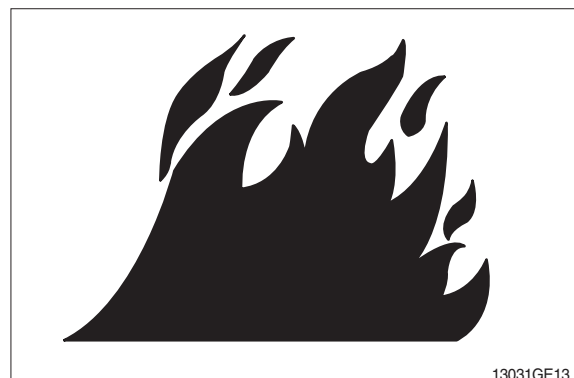
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

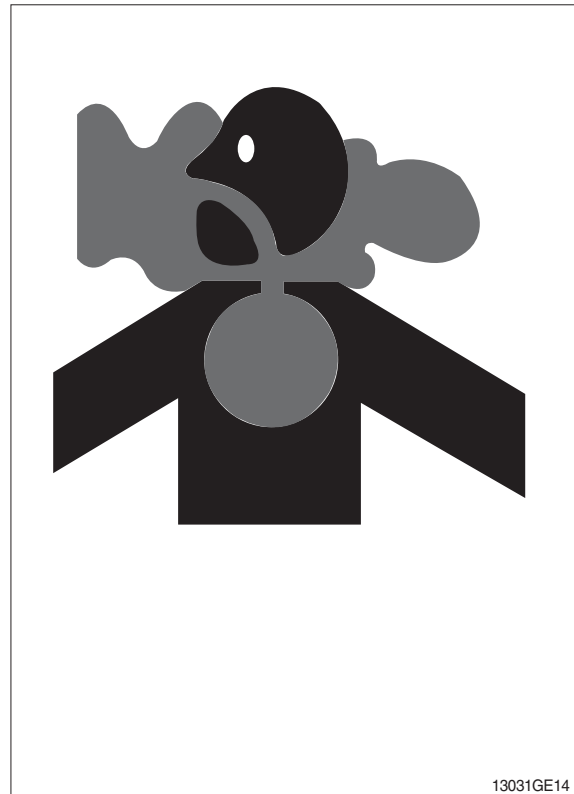
Avoid potentially toxic fumes and dust.

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

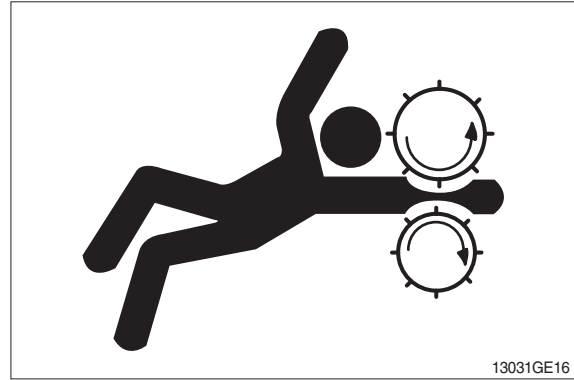
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



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.

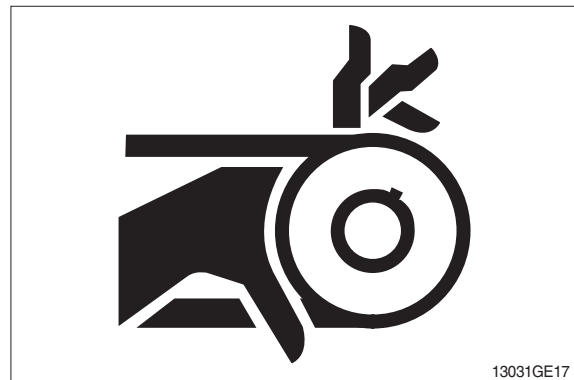
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



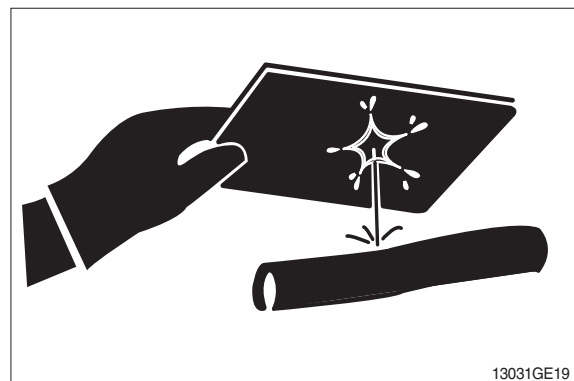
AVOID HIGH PRESSURE FLUIDS

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.

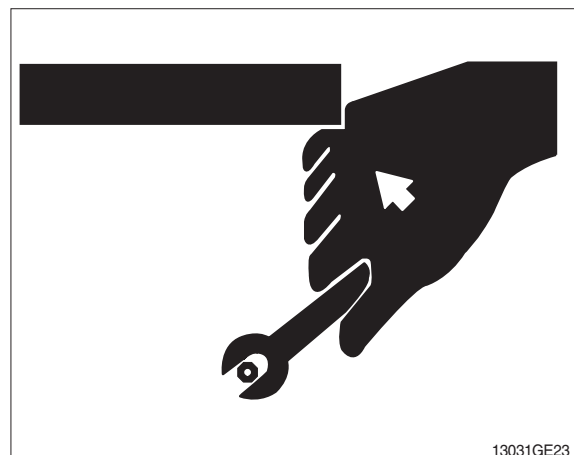
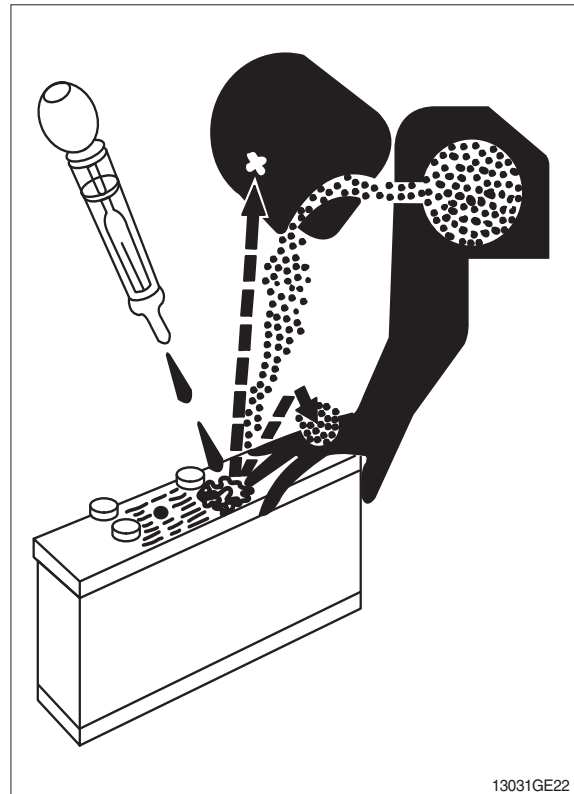
USE TOOLS PROPERLY

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.)

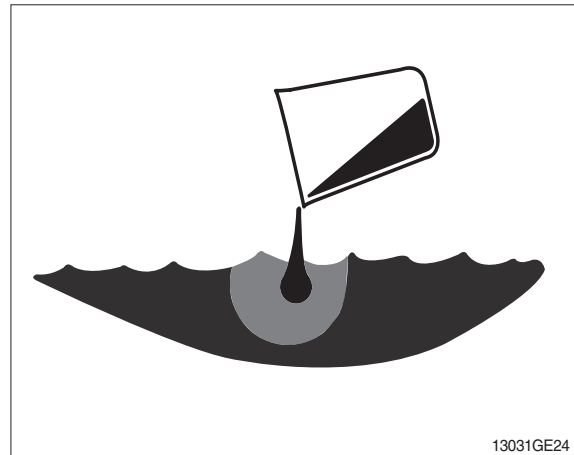


DISPOSE OF FLUIDS PROPERLY

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.



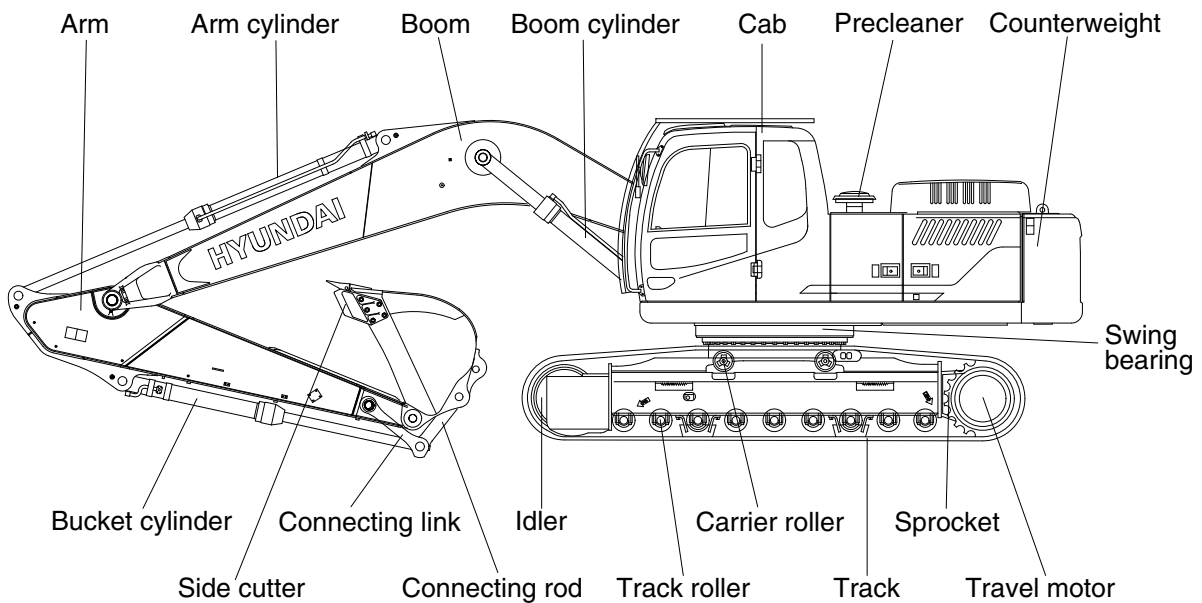
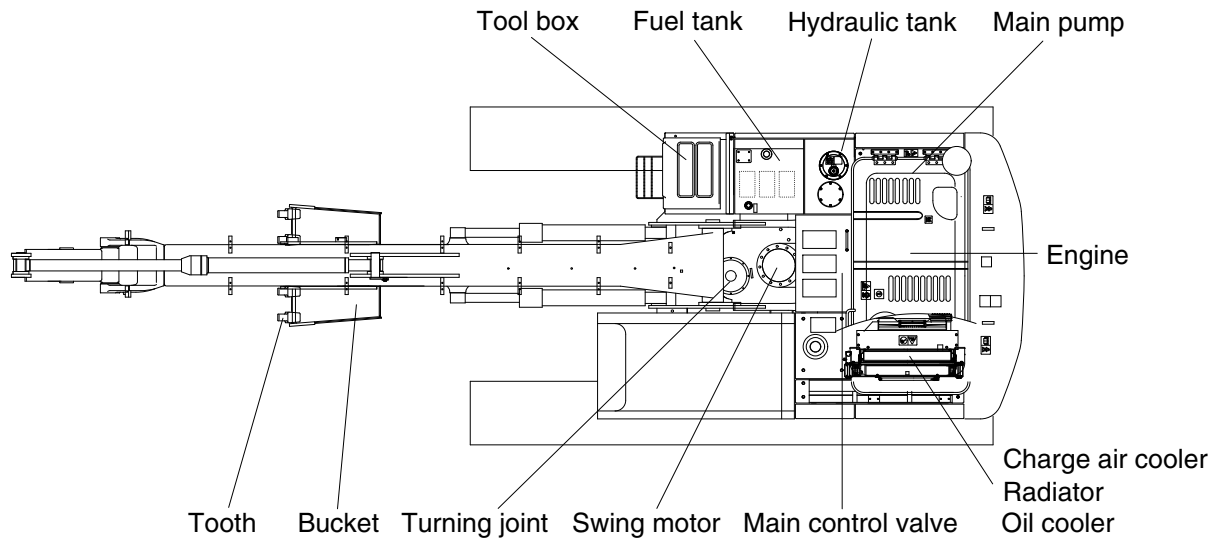
LIVE WITH SAFETY

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

SPECIFICATIONS

GROUP 2 SPECIFICATIONS

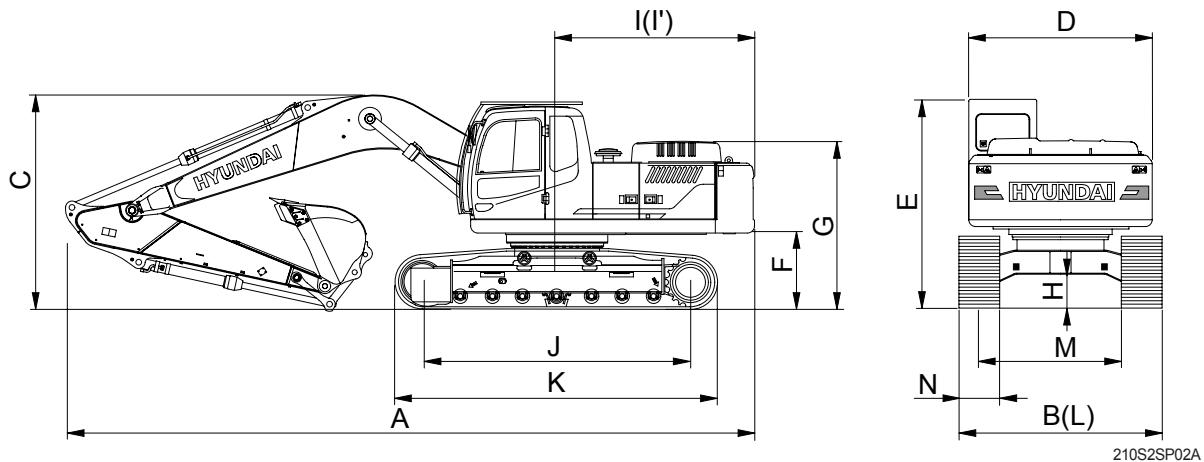
1. MAJOR COMPONENT



210S2SP01A

2. SPECIFICATIONS

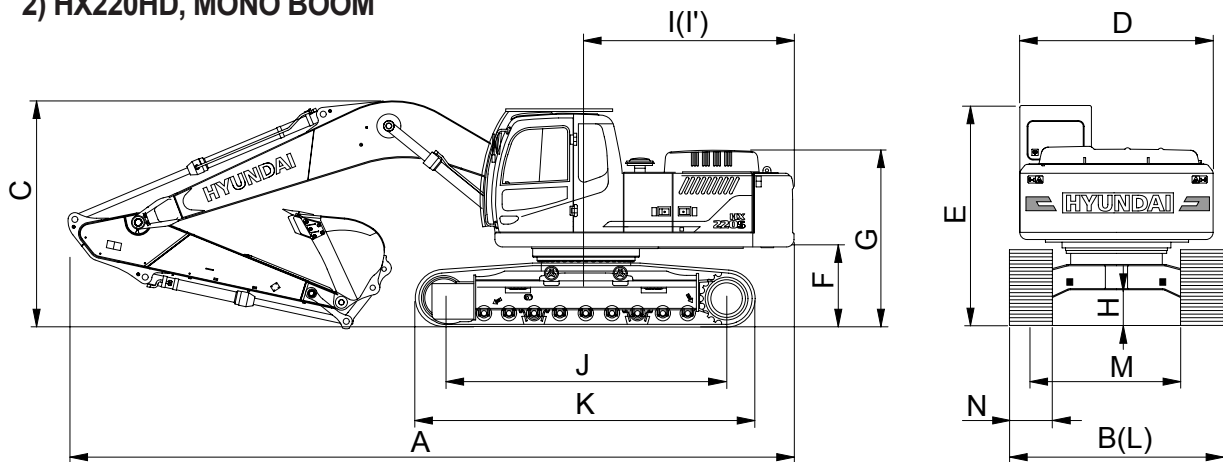
1) HX210HD MONO BOOM



210S2SP02A

Description	Unit		Specification		
	m (ft-in)	Boom	5.68 (18' 8")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)	20990 (46270)	20790 (45830)	20860 (45990)	
Bucket capacity (SAE heaped), standard	m ³ (yd ³)	0.92 (1.20)	0.92 (1.20)	0.92 (1.20)	
Overall length	A	9530 (31' 3")	9650 (31' 8")	9570 (31' 5")	
Overall width	B	2800 (9' 2")	2800 (9' 2")	2800 (9' 2")	
Overall height of boom	C	3030 (9' 11")	3200 (10' 6")	3110 (10' 2")	
Superstructure width	D	2700 (8' 10")	2700 (8' 10")	2700 (8' 10")	
Overall height of cab	E	3000 (9' 10")	3000 (9' 10")	3000 (9' 10")	
Ground clearance of counterweight	F	1060 (3' 6")	1060 (3' 6")	1060 (3' 6")	
Overall height of engine hood	G	2380 (7' 10")	2380 (7' 10")	2380 (7' 10")	
Overall height of handrail	G'	2970 (9' 9")	2970 (9' 9")	2970 (9' 9")	
Minimum ground clearance	H	470 (1' 7")	470 (1' 7")	470 (1' 7")	
Rear-end distance	I	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	
Rear-end swing radius	I'	2845 (9' 4")	2845 (9' 4")	2845 (9' 4")	
Distance between tumbler	J	3360 (11' 0")	3360 (11' 0")	3360 (11' 0")	
Undercarriage length	K	4170 (13' 8")	4170 (13' 8")	4170 (13' 8")	
Undercarriage width	L	2800 (9' 2")	2800 (9' 2")	2800 (9' 2")	
Track gauge	M	2200 (7' 3")	2200 (7' 3")	2200 (7' 3")	
Track shoe width, standard	N	600 (2' 0")	600 (2' 0")	600 (2' 0")	
Travel speed (low/high)	km/hr (mph)	3.5/5.7	3.5/5.7	3.5/5.7	
Swing speed	rpm	12.2	12.2	12.2	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm ² (psi)	0.48 (6.86)	0.48 (6.80)	0.48 (6.82)	
Max traction force	kg (lb)	21100 (46517)	21100 (46517)	21100 (46517)	

2) HX220HD, MONO BOOM



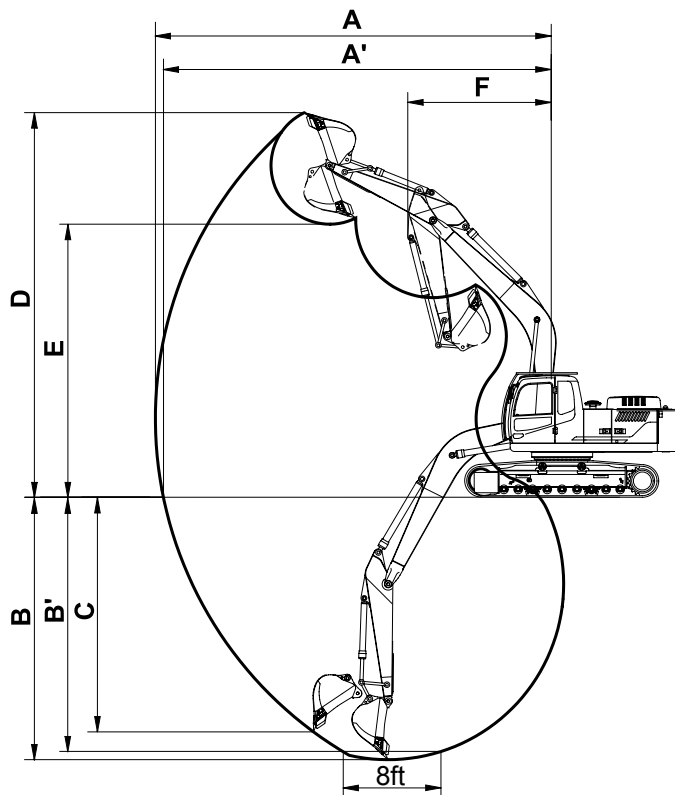
210S2SP03

Description	Unit		Specification			
	m (ft-in)	Boom	5.68 (20' 6")			
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")	
	mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)		21420(47220)	21220 (46780)	21280 (46910)	
Bucket capacity (SAE heaped), standard	m ³ (yd ³)		0.92 (1.20)	0.92 (1.20)	0.92 (1.20)	
Overall length	A	mm (ft-in)	9530 (31' 3")	9650 (31' 8")	9570 (31' 5")	
Overall width	B		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Overall height of boom	C		3030 (9' 11")	3200 (10' 6")	3110 (10' 2")	
Superstructure width	D		2700 (8' 10")	2700 (8' 10")	2700 (8' 10")	
Overall height of cab	E		3000 (9' 10")	3000 (9' 10")	3000 (9' 10")	
Ground clearance of counterweight	F		1060 (3' 6")	1060 (3' 6")	1060 (3' 6")	
Overall height of engine hood	G		2380 (7' 10")	2380 (7' 10")	2380 (7' 10")	
Overall height of handrail	G'		2970 (9' 9")	2970 (9' 9")	2970 (9' 9")	
Minimum ground clearance	H		470 (1' 7")	470 (1' 7")	470 (1' 7")	
Rear-end distance	I		2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	
Rear-end swing radius	I'		2845 (9' 4")	2845 (9' 4")	2845 (9' 4")	
Distance between tumblers	J		3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	
Undercarriage length	K		4440 (14' 7")	4440 (14' 7")	4440 (14' 7")	
Undercarriage width	L		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Track gauge	M		2390 (7' 10")	2390 (7' 10")	2390 (7' 10")	
Track shoe width, standard	N		600 (2' 0")	600 (2' 0")	600 (2' 0")	
Travel speed (low/high)	km/hr (mph)		3.5/5.7	3.5/5.7	3.5/5.7	
Swing speed	rpm		12.2	12.2	12.2	
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm ² (psi)		0.45 (6.50)	0.45 (6.45)	0.45 (6.46)	
Max traction force	kg (lb)		21100 (46517)	21100 (46517)	21100 (46517)	

3. WORKING RANGE AND DIGGING FORCE

1) HX210HD, MONO BOOM

HX220HD, MONO BOOM



210S2SP04A

Description	m (ft-in)	Boom	5.68 (18' 8")		
		Arm	2.92 (9' 7")	2.00 (6' 7")	2.40 (7' 10")
Max digging reach	mm (ft-in)	A	9,980 (32' 9")	9,140 (30' 0")	9,500 (31' 2")
Max digging reach on ground		A'	9,820 (32' 3")	8,960 (29' 5")	9,330 (30' 7")
Max digging depth		B	6,730 (22' 1")	5,820 (19' 1")	6,220 (20' 5")
Max digging depth (8 ft level)		B'	6,560 (21' 6")	5,580 (18' 4")	6,010 (19' 9")
Max vertical wall digging depth		C	6,280 (20' 7")	5,280 (17' 4")	5,720 (18' 9")
Max digging height		D	9,600 (31' 6")	9,140 (30' 0")	9,340 (30' 8")
Max dumping height		E	6,780 (22' 3")	6,330 (20' 9")	6,520 (21' 5")
Min swing radius		F	3,670 (12' 0")	3,750 (12' 4")	3,740 (12' 3")
Bucket digging force	kN	SAE	133.4	133.4	133.4
	kgf		13600	13600	13600
	lbf		29980	29980	29980
	kN	ISO	152.0	152.0	152.0
	kgf		15500	15500	15500
	lbf		34170	34170	34170
Arm digging force	kN	SAE	102.0	144.2	119.6
	kgf		10400	14700	12200
	lbf		22930	32410	26900
	kN	ISO	106.9	151.0	125.5
	kgf		10900	15400	12800
	lbf		24030	33950	28220


4. WEIGHT

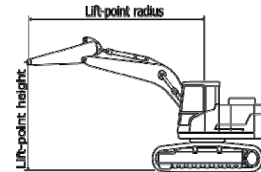
Item	HX210HD		HX220HD	
	kg	lb	kg	lb
Upperstructure assembly	8950	19730	←	
Main frame weld assembly	2600	5730	←	
Engine assembly	437	963	←	
Main pump assembly	120	265	←	
Main control valve assembly	200	440	←	
Swing motor assembly	190	420	←	
Hydraulic oil tank assembly	240	530	←	
Fuel tank assembly	195	430	←	
Counterweight	3600	7940	←	
Cab assembly	310	680	←	
Lower chassis assembly	8060	17770	8700	19180
Track frame weld assembly	2545	5611	2720	6000
Swing bearing	290	639	←	
Travel motor assembly	305	670	←	
Turning joint	55	120	←	
Track recoil spring	140	309	←	
Idler	151	333	←	
Carrier roller	21	46	←	
Track roller	48	106	←	
Track-chain assembly (600 mm standard triple grouser shoe)	1353	2983	1356	2989
Front attachment assembly (5.68 m boom, 2.92 m arm, 0.87 m ³ SAE heaped bucket)	4030	8880	←	
5.68 m boom assembly	1640	3620	←	
2.92 m arm assembly	750	1650	←	
0.92 m ³ SAE heaped bucket	765	1690	←	
Boom cylinder assembly	180	400	←	
Arm cylinder assembly	290	640	←	
Bucket cylinder assembly	175	390	←	
Bucket control link assembly	170	370	←	











5. LIFTING CAPACITIES

Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa. [m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outrigger [F]	Outrigger [R]	Cabin type
HX210HD	OPT	MONO	GP	5680	GP	2000	GP	0.92	NO	NO	3600	600	NONE	NONE	CABIN

☞  : Rating over-front

☞  : Rating over- side or 360 degree



Lift-point height (m/ft)	Lift-point radius								At max. reach			
	3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach	
											m(ft)	
7.5m 24.6ft	kg lb									*5700 *12570	*5700 *12570	5.00 (16.4)
6.0m 19.7ft	kg lb					*5440 *11990	4320 9520			*5500 *12130	3910 8620	6.35 (20.8)
4.5m 14.8ft	kg lb			*6870 *15150	6500 14330	*5780 *12740	4190 9240			4890 10780	3160 6970	7.14 (23.4)
3.0m 9.8ft	kg lb			*8650 *19070	5950 13120	6250 13780	3970 8750	4430 9770	2840 6260	4390 9680	2810 6190	7.55 (24.8)
1.5m 4.9ft	kg lb					6020 13270	3770 8310	4350 9590	2760 6080	4230 9330	2690 5930	7.64 (25.1)
0.0m 0.0ft	kg lb			9160 20190	5420 11950	5890 12990	3650 8050			4360 9610	2760 6080	7.43 (24.4)
-1.5m -4.9ft	kg lb			9180 20240	5430 11970	5880 12960	3640 8020			4870 10740	3060 6750	6.88 (22.6)
-3.0m -9.8ft	kg lb	*12330 *27180	10710 23610	*9100 *20060	5570 12280					6170 13600	3860 8510	5.90 (19.4)
-4.5m -14.8ft	kg lb											

Note 1. Lifting capacity are based on ISO 10567.

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

※ Lifting capacities are based upon a standard machine conditions.

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

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

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

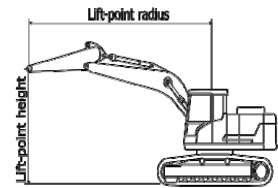
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








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Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa. [m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outrigger [F]	Outrigger [R]	Cabin type
HX220HD	OPT	MONO	GP	5680	GP	2000	GP	0.92	NO	NO	3600	600	NONE	NONE	CABIN

·  : Rating over-front

·  : Rating over-side or 360 degree




Lift-point height (m/ft)		Lift-point radius								At max. reach			
		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach	
												kg	lb
7.5m	kg										*5700	*5700	5.00
24.6ft	lb										*12570	*12570	(16.4)
6.0m	kg					*5440	4810				*5500	4360	6.35
19.7ft	lb					*11990	10600				*12130	9610	(20.8)
4.5m	kg			*6870	*6870	*5780	4680				5510	3540	7.14
14.8ft	lb			*15150	*15150	*12740	10320				12150	7800	(23.4)
3.0m	kg			*8650	6710	*6510	4450	5000	3190		4950	3160	7.55
9.8ft	lb			*19070	14790	*14350	9810	11020	7030		10910	6970	(24.8)
1.5m	kg					6850	4250	4920	3110		4780	3030	7.64
4.9ft	lb					15100	9370	10850	6860		10540	6680	(25.1)
0.0m	kg			*10480	6160	6710	4130				4940	3110	7.43
0.0ft	lb			*23100	13580	14790	9110				10890	6860	(24.4)
-1.5m	kg			*10180	6180	6700	4120				5520	3450	6.88
-4.9ft	lb			*22440	13620	14770	9080				12170	7610	(22.6)
-3.0m	kg	*12330	*12330	*9100	6320						*6650	4340	5.91
-9.8ft	lb	*27180	*27180	*20060	13930						*14660	9570	(19.4)
-4.5m	kg												
-14.8ft	lb												

- Note
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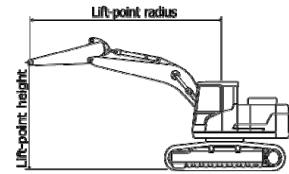
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


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Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa.[m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outrigger [F]	Outrigger [R]	Cabin type
HX210HD	OPT	MONO	GP	5680	GP	2000	GP	0.92	NO	NO	4200	600	NONE	NONE	CABIN

•  : Rating over-front

•  : Rating over-side or 360 degree



Lift-point height (m/ft)	Lift-point radius								At max. reach			
	3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach	
												m(ft)
7.5m 24.6ft	kg lb									*5700 *12570	*5700 *12570	5.00 (16.4)
6.0m 19.7ft	kg lb					*5440 *11990	4660 10270			*5500 *12130	4220 9300	6.35 (20.8)
4.5m 14.8ft	kg lb			*6870 *15150	*6870 *15150	*5780 *12740	4530 9990			5220 11510	3430 7560	7.14 (23.4)
3.0m 9.8ft	kg lb			*8650 *19070	6430 14180	*6510 *14350	4310 9500	4750 10470	3100 6830	4700 10360	3060 6750	7.55 (24.8)
1.5m 4.9ft	kg lb					6450 14220	4100 9040	4660 10270	3020 6660	4540 10010	2940 6480	7.64 (25.1)
0.0m 0.0ft	kg lb			9810 21630	5900 13010	6320 13930	3990 8800			4680 10320	3010 6640	7.43 (24.4)
-1.5m -4.9ft	kg lb			9830 21670	5920 13050	6300 13890	3970 8750			5220 11510	3340 7360	6.88 (22.6)
-3.0m -9.8ft	kg lb	*12330 *27180	11600 25570	*9100 *20060	6060 13360					6600 14550	4200 9260	5.90 (19.4)
-4.5m -14.8ft	kg lb											

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

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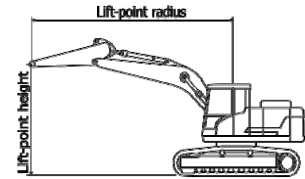
Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa. [m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outtriger [F]	Outtriger [R]	Cabin type
HX220HD	OPT	MONO	GP	5680	GP	2000	GP	0.92	NO	NO	4200	600	NONE	NONE	CABIN



: Rating over-front



: Rating over-side or 360 degree



Lift-point height (m/ft)		Lift-point radius								At max. reach		
		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach
												m(ft)
7.5m	kg									*5700	*5700	5.00
24.6ft	lb									*12570	*12570	(16.4)
6.0m	kg					*5440	5160			*5500	4680	6.35
19.7ft	lb					*11990	11380			*12130	10320	(20.8)
4.5m	kg			*6870	*6870	*5780	5030			*5540	3820	7.14
14.8ft	lb			*15150	*15150	*12740	11090			*12210	8420	(23.4)
3.0m	kg			*8650	7220	*6510	4800	5340	3450	5280	3420	7.55
9.8ft	lb			*19070	15920	*14350	10580	11770	7610	11640	7540	(24.8)
1.5m	kg					*7230	4600	5250	3370	5110	3290	7.64
4.9ft	lb					*15940	10140	11570	7430	11270	7250	(25.1)
0.0m	kg			*10480	6680	7170	4480			5270	3370	7.43
0.0ft	lb			*23100	14730	15810	9880			11620	7430	(24.4)
-1.5m	kg			*10180	6690	7150	4460			5890	3750	6.88
-4.9ft	lb			*22440	14750	15760	9830			12990	8270	(22.6)
-3.0m	kg	*12330	*12330	*9100	6840					*6650	4700	5.91
-9.8ft	lb	*27180	*27180	*20060	15080					*14660	10360	(19.4)
-4.5m	kg											
-14.8ft	lb											

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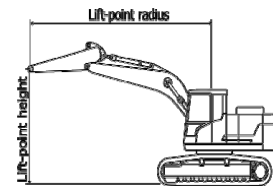
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Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa.[m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outrigger[F]	Outrigger[R]	Cabin type
HX210HD	OPT	MONO	GP	5680	GP	2400	GP	0.92	NO	NO	3600	600	NONE	NONE	CABIN

•  : Rating over-front

•  : Rating over-side or 360 degree



Lift-point height (m/ft)		Lift-point radius								At max. reach				
		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach		
												m(ft)		
7.5m 24.6ft	kg lb											*5080 *11200	4910 10820	5.58 (18.3)
6.0m 19.7ft	kg lb					*4980 *10980	4380 9660					*4620 *10190	3490 7690	6.82 (22.4)
4.5m 14.8ft	kg lb			*6320 *13930	*6320 *13930	*5430 *11970	4230 9330	4520 9960	2920 6440			4470 9850	2880 6350	7.55 (24.8)
3.0m 9.8ft	kg lb			*8110 *17880	6050 13340	*6200 *13670	3990 8800	4440 9790	2840 6260			4050 8930	2590 5710	7.94 (26.1)
1.5m 4.9ft	kg lb			9370 20660	5590 12320	6030 13290	3770 8310	4330 9550	2740 6040			3910 8620	2480 5470	8.03 (26.3)
0.0m 0.0ft	kg lb			9130 20130	5390 11880	5870 12940	3630 8000	4260 9390	2680 5910			4010 8840	2530 5580	7.83 (25.7)
-1.5m -4.9ft	kg lb	*10830 *23880	10320 22750	9110 20080	5370 11840	5820 12830	3590 7910					4420 9740	2770 6110	7.31 (24.0)
-3.0m -9.8ft	kg lb	*13210 *29120	10520 23190	9230 20350	5470 12060	5910 13030	3670 8090					5410 11930	3390 7470	6.40 (21.0)
-4.5m -14.8ft	kg lb			*7130 *15720	5770 12720							*6300 *13890	5160 11380	4.89 (16.0)

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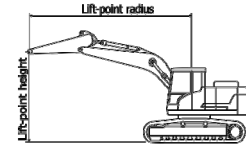
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




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Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa. [m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outtriger[F]	Outtriger[R]	Cabin type
HX220HD	OPT	MONO	GP	5680	GP	2400	GP	0.92	NO	NO	3600	600	NONE	NONE	CABIN

·  : Rating over-front

·  : Rating over-side or 360 degree





Lift-point height (m/ft)		Lift-point radius								At max. reach				
		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach		
												m(ft)		
7.5m 24.6ft	kg lb											*5080 *11200	*5080 *11200	5.58 (18.3)
6.0m 19.7ft	kg lb					*4980 *10980	4870 10740					*4620 *10190	3900 8600	6.81 (22.4)
4.5m 14.8ft	kg lb			*6320 *13930	*6320 *13930	*5430 *11970	4710 10380	*4990 *11000	3270 7210			*4490 *9900	3230 7120	7.55 (24.8)
3.0m 9.8ft	kg lb			*8110 *17880	6810 15010	*6200 *13670	4480 9880	5010 11050	3190 7030			4570 10080	2910 6420	7.94 (26.1)
1.5m 4.9ft	kg lb			*9660 *21300	6340 13980	4250 15120	4900 9370	3090 10800	4420 6810			4420 9740	2790 6150	8.03 (26.3)
0.0m 0.0ft	kg lb			*10360 *22840	6140 13540	6690 14750	4100 9040	4820 10630	3020 6660			4540 10010	2850 6280	7.83 (25.7)
-1.5m -4.9ft	kg lb	*10820 *23850	*10820 *23850	*10290 *22690	6110 13470	6640 14640	4060 8950					5010 11050	3130 6900	7.31 (24.0)
-3.0m -9.8ft	kg lb	*13210 *29120	12210 26920	*9460 *20860	6220 13710	6740 14860	4140 9130					6140 13540	3820 8420	6.41 (21.0)
-4.5m -14.8ft	kg lb			*7130 *15720	6530 14400							*6300 *13890	5820 12830	4.89 (16.0)

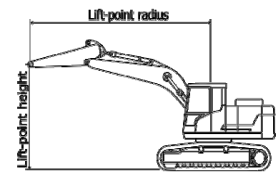
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






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Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa. [m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outtriger[F]	Outtriger[R]	Cabin type
HX210HD	OPT	MONO	GP	5680	GP	2400	GP	0.92	NO	NO	4200	600	NONE	NONE	CABIN

-  : Rating over-front
-  : Rating over-side or 360 degree



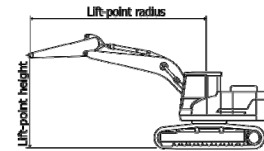
Lift-point height (m/ft)		Lift-point radius								At max. reach			
		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach	
												kg	lb
7.5m 24.6ft	kg										*5080	*5080	5.58
	lb										*11200	*11200	(18.3)
6.0m 19.7ft	kg					*4980	4710				*4620	3780	6.82
	lb					*10980	10380				*10190	8330	(22.4)
4.5m 14.8ft	kg			*6320	*6320	*5430	4560	4840	3180	*4490	3130	7.55	
	lb			*13930	*13930	*11970	10050	10670	7010	*9900	6900	(24.8)	
3.0m 9.8ft	kg			*8110	6530	*6200	4330	4750	3100	4340	2820	7.94	
	lb			*17880	14400	*13670	9550	10470	6830	9570	6220	(26.1)	
1.5m 4.9ft	kg			*9670	6070	6450	4100	4640	3000	4200	2710	8.03	
	lb			*21320	13380	14220	9040	10230	6610	9260	5970	(26.3)	
0.0m 0.0ft	kg			9780	5870	6290	3960	4570	2930	4310	2770	7.83	
	lb			21560	12940	13870	8730	10080	6460	9500	6110	(25.7)	
-1.5m -4.9ft	kg	*10830	*10830	9760	5850	6240	3920			4740	3030	7.31	
	lb	*23880	*23880	21520	12900	13760	8640			10450	6680	(24.0)	
-3.0m -9.8ft	kg	*13210	11400	*9460	5950	6330	4000			5800	3690	6.40	
	lb	*29120	25130	*20860	13120	13960	8820			12790	8140	(21.0)	
-4.5m -14.8ft	kg			*7130	6250					*6300	5590	4.89	
	lb			*15720	13780					*13890	12320	(16.0)	

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Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa. [m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outrigger [F]	Outrigger [R]	Cabin type
HX220HD	OPT	MONO	GP	5680	GP	2400	GP	0.92	NO	NO	4200	600	NONE	NONE	CABIN



: Rating over-front



: Rating over-side or 360 degree

Lift-point height (m/ft)		Lift-point radius								At max. reach		
		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach m(ft)
7.5m 24.6ft	kg lb									*5080 *11200	*5080 *11200	5.58 (18.3)
6.0m 19.7ft	kg lb					*4980 *10980	*4980 *10980			*4620 *10190	4190 9240	6.81 (22.4)
4.5m 14.8ft	kg lb			*6320 *13930	*6320 *13930	*5430 *11970	5060 11160	*4990 *11000	3540 7800	*4490 *9900	3490 7690	7.55 (24.8)
3.0m 9.8ft	kg lb			*8110 *17880	7330 16160	*6200 *13670	4820 10630	5340 11770	3460 7630	*4580 *10100	3150 6940	7.94 (26.1)
1.5m 4.9ft	kg lb			*9660 *21300	6860 15120	*7000 *15430	4600 10140	5230 11530	3350 7390	4730 10430	3040 6700	8.03 (26.3)
0.0m 0.0ft	kg lb			*10360 *22840	6650 14660	7140 15740	4450 9810	5160 11380	3290 7250	4860 10710	3100 6830	7.83 (25.7)
-1.5m -4.9ft	kg lb	*10820 *23850	*10820 *23850	*10290 *22690	6620 14590	7090 15630	4410 9720			5350 11790	3400 7500	7.31 (24.0)
-3.0m -9.8ft	kg lb	*13210 *29120	13160 29010	*9460 *20860	6730 14840	*6940 *15300	4490 9900			*6280 *13850	4140 9130	6.41 (21.0)
-4.5m -14.8ft	kg lb			*7130 *15720	7040 15520					*6300 *13890	6270 13820	4.89 (16.0)

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

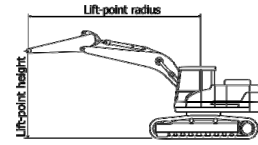
Consult your Hyundai dealer regarding the lifting capacities for specific work tools and attachments.













▲ 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	Boom type	Length[m m]	Arm type	Length [mm]	BK type	Capa.[m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outtriger [F]	Outtriger[R]	Cabin type
HX210HD	OPT	MONO	GP	5680	GP	2920	GP	0.92	NO	NO	3600	600	NONE	NONE	CABIN

•  : Rating over-front

•  : Rating over-side or 360 degree



Lift-point height (m/ft)		Lift-point radius										At max. reach			
		1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach	
														kg	lb
7.5m 24.6ft	kg							*4440	4430				*3360	*3360	6.26
	lb							*9790	9770				*7410	*7410	(20.5)
6.0m 19.7ft	kg							*4410	*4410				*3090	3050	7.38
	lb							*9720	*9720				*6810	6720	(24.2)
4.5m 14.8ft	kg							*4920	4260	4540	2930		*3010	2560	8.07
	lb							*10850	9390	10010	6460		*6640	5640	(26.5)
3.0m 9.8ft	kg					*7340	6150	*5740	4000	4420	2820		*3060	2310	8.43
	lb					*16180	13560	*12650	8820	9740	6220		*6750	5090	(27.7)
1.5m 4.9ft	kg					*9060	5610	6010	3740	4290	2700		*3240	2210	8.51
	lb					*19970	12370	13250	8250	9460	5950		*7140	4870	(27.9)
0.0m 0.0ft	kg			*5920	*5920	9070	5320	5810	3560	4180	2600		*3580	2240	8.32
	lb			*13050	*13050	20000	11730	12810	7850	9220	5730		*7890	4940	(27.3)
-1.5m -4.9ft	kg	*6490	*6490	*10390	10020	8970	5240	5720	3480	4150	2570		3910	2430	7.84
	lb	*14310	*14310	*22910	22090	19780	11550	12610	7670	9150	5670		8620	5360	(25.7)
-3.0m -9.8ft	kg	*11110	*11110	*14070	10210	9050	5300	5760	3520				4640	2880	7.00
	lb	*24490	*24490	*31020	22510	19950	11680	12700	7760				10230	6350	(23.0)
-4.5m -14.8ft	kg			*11520	10600	*8120	5520						*6030	4030	5.65
	lb			*25400	23370	*17900	12170						*13290	8880	(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 Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

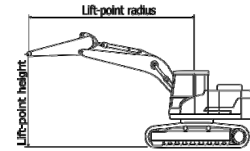
▲ Failure to comply to the rated load can cause possible personal injury or property damage.














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

Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa.[m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outrigger [F]	Outrigger [R]	Cabin type
HX220HD	OPT	MONO	GP	5680	GP	2920	GP	0.92	NO	NO	3600	600	NONE	NONE	CABIN

•  : Rating over-front

•  : Rating over-side or 360 degree



Lift-point height (m/ft)		Lift-point radius										At max. reach		
		1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach
														
7.5m 24.6ft	kg lb							*4440 *9790	*4440 *9790			*3360 *7410	*3360 *7410	6.26 (20.5)
6.0m 19.7ft	kg lb							*4410 *9720	*4410 *9720			*3090 *6810	*3090 *6810	7.38 (24.2)
4.5m 14.8ft	kg lb							*4920 *10850	4750 10470	*4660 *10270	3280 7230	*3010 *6640	2870 6330	8.07 (26.5)
3.0m 9.8ft	kg lb					*7340 *16180	6920 15260	*5740 *12650	4480 9880	5000 11020	3170 6990	*3060 *6750	2600 5730	8.43 (27.7)
1.5m 4.9ft	kg lb					*9060 *19970	6370 14040	*6610 *14570	4220 9300	4860 10710	3040 6700	*3240 *7140	2500 5510	8.51 (27.9)
0.0m 0.0ft	kg lb			*5910 *13030	*5910 *13030	*10050 *22160	6070 13380	6630 14620	4040 8910	4750 10470	2950 6500	*3580 *7890	2540 5600	8.32 (27.3)
-1.5m -4.9ft	kg lb	*6490 *14310	*6490 *14310	*10380 *22880	*10380 *22880	*10260 *22620	5980 13180	6540 14420	3960 8730	4720 10410	2920 6440	*4190 *9240	2750 6060	7.84 (25.7)
-3.0m -9.8ft	kg lb	*11110 *24490	*11110 *24490	*14070 *31020	11880 26190	*9740 *21470	6050 13340	6580 14510	3990 8800			5270 11620	3260 7190	7.00 (23.0)
-4.5m -14.8ft	kg lb			*11530 *25420	*11530 *25420	*8130 *17920	6270 13820					*6030 *13290	4560 10050	5.66 (18.6)

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.

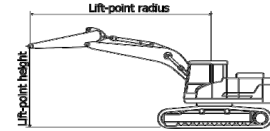
The difference between the weight of a work tool attachment must be subtracted.

Consult your Hyundai 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	Boom type	Length[m m]	Arm type	Length [mm]	BK type	Capa.[m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outtrigger[F]	Outtrigger[R]	Cabin type
HX210HD	OPT	MONO	GP	5680	GP	2920	GP	0.92	NO	NO	4200	600	NONE	NONE	CABIN



: Rating over-front



: Rating over-side or 360 degree

Lift-point height (m/ft)		Lift-point radius										At max. reach		
		1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach
7.5m	kg							*4440	*4440			*3360	*3360	6.26
24.6ft	lb							*9790	*9790			*7410	*7410	(20.5)
6.0m	kg							*4410	*4410			*3090	*3090	7.38
19.7ft	lb							*9720	*9720			*6810	*6810	(24.2)
4.5m	kg							*4920	4590	*4660	3180	*3010	2790	8.07
14.8ft	lb							*10850	10120	*10270	7010	*6640	6150	(26.5)
3.0m	kg					*7340	6630	*5740	4330	4740	3070	*3060	2530	8.43
9.8ft	lb					*16180	14620	*12650	9550	10450	6770	*6750	5580	(27.7)
1.5m	kg					*9060	6090	6430	4080	4600	2950	*3240	2430	8.51
4.9ft	lb					*19970	13430	14180	8990	10140	6500	*7140	5360	(27.9)
0.0m	kg			*5920	*5920	9720	5800	6230	3890	4500	2850	*3580	2460	8.32
0.0ft	lb			*13050	*13050	21430	12790	13730	8580	9920	6280	*7890	5420	(27.3)
-1.5m	kg	*6490	*6490	*10390	*10390	9620	5720	6140	3820	4460	2820	*4190	2670	7.84
-4.9ft	lb	*14310	*14310	*22910	*22910	21210	12610	13540	8420	9830	6220	*9240	5890	(25.7)
-3.0m	kg	*11110	*11110	*14070	11090	9690	5780	6180	3850			4980	3160	7.00
-9.8ft	lb	*24490	*24490	*31020	24450	21360	12740	13620	8490			10980	6970	(23.0)
-4.5m	kg			*11520	11480	*8120	6000					*6030	4390	5.65
-14.8ft	lb			*25400	25310	*17900	13230					*13290	9680	(18.5)

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).

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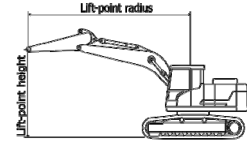
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








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

Model	Type	Boom	Boom type	Length [mm]	Arm type	Length [mm]	BK type	Capa.[m ³]	QC	Swing Post	CWT[kg]	Shoe (wheel) [mm]	Outrigger[F]	Outrigger [R]	Cabin type
HX220HD	OPT	MONO	GP	5680	GP	2920	GP	0.92	NO	NO	4200	600	NONE	NONE	CABIN

●  : Rating over-front

●  : Rating over-side or 360 degree



Lift-point height (m/ft)		Lift-point radius										At max. reach					
		1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Capacity		Reach			
														kg	lb	m(ft)	
7.5m	kg																
24.6ft	lb																
6.0m	kg																
19.7ft	lb																
4.5m	kg																
14.8ft	lb																
3.0m	kg					*7340	*7340										
9.8ft	lb					*16180	*16180										
1.5m	kg					*9060	6880	*6610	4570	5190	3310	*3240	2730	8.51			
4.9ft	lb					*19970	15170	*14570	10080	11440	7300	*7140	6020	(27.9)			
0.0m	kg			*5910	*5910	*10050	6580	7080	4390	5080	3210	*3580	2770	8.32			
0.0ft	lb			*13030	*13030	*22160	14510	15610	9680	11200	7080	*7890	6110	(27.3)			
-1.5m	kg	*6490	*6490	*10380	*10380	*10260	6490	6990	4310	5050	3180	*4190	3000	7.84			
-4.9ft	lb	*14310	*14310	*22880	*22880	*22620	14310	15410	9500	11130	7010	*9240	6610	(25.7)			
-3.0m	kg	*11110	*11110	*14070	12840	*9740	6560	7030	4340			*5400	3550	7.00			
-9.8ft	lb	*24490	*24490	*31020	28310	*21470	14460	15500	9570			*11900	7830	(23.0)			
-4.5m	kg			*11530	*11530	*8130	6780					*6030	4930	5.66			
-14.8ft	lb			*25420	*25420	*17920	14950					*13290	10870	(18.6)			

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 Hyundai 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)HX210HD/ HX220HD COUNTERWEIGHT:

All Buckets are welded with high-strength steel.



0.92 (1.20)



1.20 (1.57)



● 0.87 (1.14)
● 1.20 (1.57)

SAE Heaped m3 (yd3)

Capacity m3(yd2)			Width mm(in)	Weight Kg (lb)	Tooth EA	Recommendation mm (ft-in)					
						5.680					
Type	SAE Heaped	CECE Heaped				3.6 ton CWT			4.2 ton CWT		
			2000 (6'7") Arm	2400 (7'10") Arm	2920 (9'7") Arm	2000 (6'7") Arm	2400 (7'10") Arm	2920 (9'7") Arm			
HX210HD	0.92 (1.20)	0.80 (1.05)	1,080 (42.5")	765 (1,690)	5	●	○		●	●	○
	1.20 (1.57)	1.00 (1.31)	1,330 (52.4")	810 (1,790)	5	■	▲	▲	○	■	▲
	● 0.87 (1.14)	0.75 (0.98)	1,140 (44.9")	900 (1,980)	5	●	○	■	●	●	○
	● 1.20 (1.57)	1.00 (1.31)	1,410 (55.5")	1,030 (2,270)	5	■	▲	X	■	■	▲
HX220HD	0.92 (1.20)	0.80 (1.05)	1,080 (42.5")	765 (1,690)	5	●	●	○	●	●	●
	1.20 (1.57)	1.00 (1.31)	1,330 (52.4")	810 (1,790)	5	○	■	▲	○	○	■
	● 0.87 (1.14)	0.75 (0.98)	1,140 (44.9")	900 (1,980)	5	●	●	○	●	●	●
	● 1.20 (1.57)	1.00 (1.31)	1,410 (55.5")	1,030 (2,270)	5	■	■	▲	○	■	■

● Rock- Heavy duty bucket

●	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.

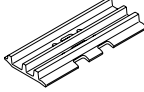
Consult your Hyundai dealer for information on selecting the correct boom–arm–bucket combination.

7. UNDERCARRIAGE

1) TRACKS

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

2) TYPES OF SHOES

Model	Shapes		Triple grouser			
						
HX210HD	Shoe width	mm (in)	600 (24)	-	-	800 (32)
	Operating weight	kg (lb)	20990 (46270)	-	-	21540 (47490)
	Ground pressure	kgf/cm ² (psi)	0.48 (6.86)	-	-	0.42 (6.03)
	Overall width	mm (ft-in)	2800 (9' 2")	-	-	3000 (9' 10")
HX220HD	Shoe width	mm (in)	600 (24)	-	-	800 (32)
	Operating weight	kg (lb)	21420 (47220)	-	-	22200 (48940)
	Ground pressure	kgf/cm ² (psi)	0.45 (6.50)	-	-	0.35 (5.06)
	Overall width	mm (ft-in)	2990 (9' 10")	-	-	3190 (10' 6")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item		Quantity
Carrier rollers		2 EA
Track rollers	HX210HD	7 EA
	HX220HD	9 EA
Track shoes	HX210HD	46 EA
	HX220HD	49 EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

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

Select the narrowest shoe possible to meet the required flotation and ground pressure.

Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

※ Table 1

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
800 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
Model	HYUNDAI 6BTAA-5.9 (HM5.9)
Type	4-cycle, turbocharged, charge air cooled, mechanical 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	102 × 120 mm (4.02 " × 4.72 ")
Piston displacement	5900 cc (360 cu in)
Compression ratio	17.3 : 1
Rated gross horse power (SAE J1995)	148 Hp at 2000rpm (110 kW at 2000 rpm)
Rated net horse power (SAE J1349)	145 Hp at 2000 rpm (108 kW at 2000 rpm)
Maximum torque at 1300 rpm	64 kgf · m (463 lbf · ft)
Engine oil quantity	14 ℓ (3.8 U.S. gal) : #1161 20 ℓ (5.3 U.S. gal) : #1162-
Dry weight	437 kg (963 lb)
High idling speed	2250 + 50 rpm
Low idling speed	800 ± 100 rpm
Rated fuel consumption	95 g/Hp · hr at 1200 rpm
Starting motor	Lucas 24V
Alternator	Lucas 24V-75A
Battery	2 × 12V × 100Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 117 cc/rev
Maximum pressure	350 kgf/cm ² (4978 psi)
Rated oil flow	2 × 234 ℓ /min (61.8 U.S. gpm/ 51.4 U.K. gpm)
Rated speed	2000 rpm

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm ² (568 psi)
Rated oil flow	30.0 ℓ /min (7.9 U.S. gpm/6.7 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools mono-block
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm ² (4978 psi)
Overload relief valve pressure	400 kgf/cm ² (5689 psi)

5) SWING MOTOR

Item	Specification
Type	Two fixed displacement axial piston motor
Capacity	142.8 cc/rev
Relief pressure	265 kgf/cm ² (3894 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	63.3 kgf/cm ² (470.8 lbf · ft)
Brake release pressure	20.9~35.5 kgf/cm ² (297~505 psi)
Reduction gear type	2 - stage planetary
Swing speed	12.2rpm

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	350 kgf/cm ² (4978 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	13 kgf/cm ² (182 psi)
Braking torque	65.1 kgf · m (470 lbf · ft)

7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	Minimum	6.5 kgf/cm ² (92 psi)
	Maximum	26 kgf/cm ² (370 psi)
Single operation stroke	Lever	61 mm (2.4 in)
	Pedal	123 mm (4.84 in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅120 × ∅85 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅140 × ∅100 × 1510 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅120 × ∅85 × 1055 mm
	Cushion	Extend only

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

9) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
HX210HD	Standard	600 mm (24")	0.48 kgf/cm ² (6.86 psi)	46	2800 mm (9' 2")
	Option	800 mm (32")	0.42 kgf/cm ² (6.03 psi)	46	3000 mm (9' 10")
HX220HD	Standard	600 mm (24")	0.45 kgf/cm ² (6.50 psi)	49	2990 mm (9' 10")
	Option	800 mm (32")	0.35 kgf/cm ² (5.06 psi)	49	3190 mm (10' 6")

10) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
HX210HD	STD	0.92 m ³ (1.20 yd ³)	0.80 m ³ (1.05 yd ³)	5	1080 mm (42.5")	1250 mm (49.2")
	HX220HD	OPT	1.20 m ³ (1.57 yd ³)	1.00 m ³ (1.31 yd ³)	5	1330 mm (52.4")
◆		0.87 m ³ (1.14 yd ³)	0.75 m ³ (0.98 yd ³)	5	1140 mm (44.9")	—
◆		1.20 m ³ (1.57 yd ³)	1.00 m ³ (1.31 yd ³)	5	1410 mm (55.5")	—

◆ : Heavy duty bucket

9. RECOMMENDED OILS

HYUNDAI 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 HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C(°F)						
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)
Engine oil pan	Engine oil *2		★SAE 0W-40						
			★SAE 0W-30						
			SAE 5W-30						
			SAE 10W-30						
			SAE 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	340 (89.8)	★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

*2 : Meets or exceeds

API CI-4 grade

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

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

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