

SECTION 1 GENERAL

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SECTION 1 GENERAL

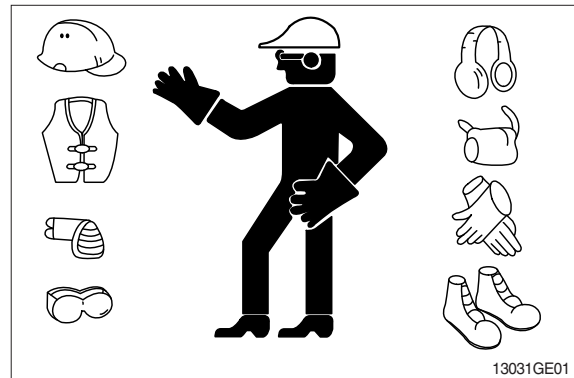
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

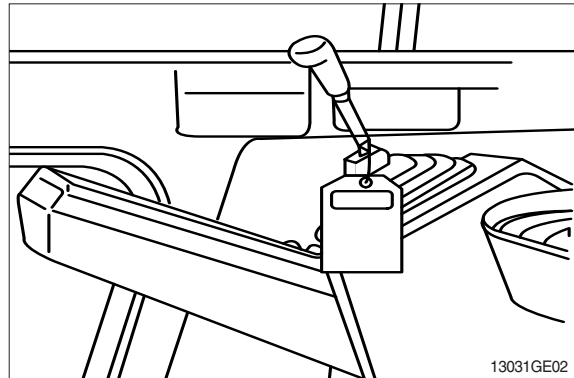
Wear close fitting clothing and safety equipment appropriate to the job.



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.



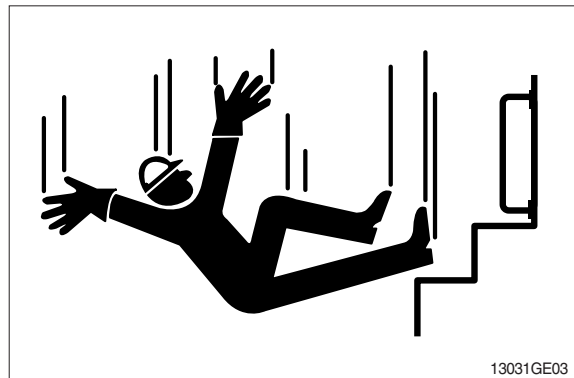
USE HANDHOLDS AND STEPS

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.

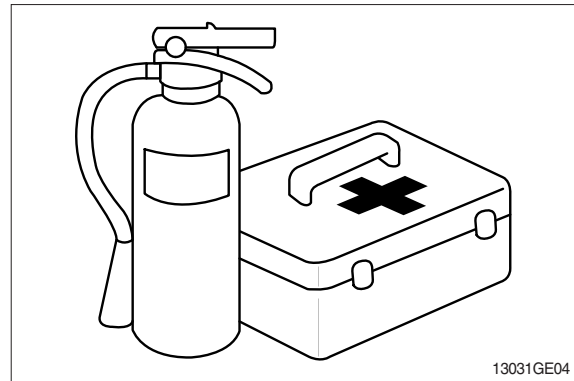


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

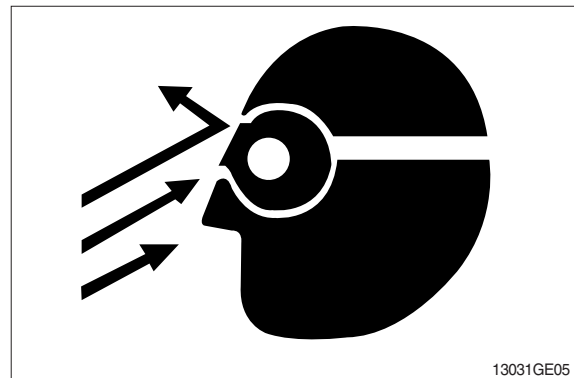
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

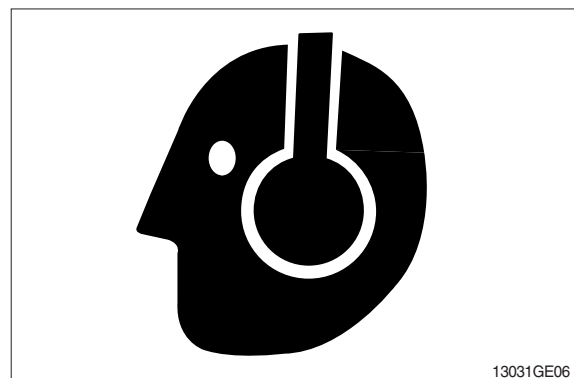
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

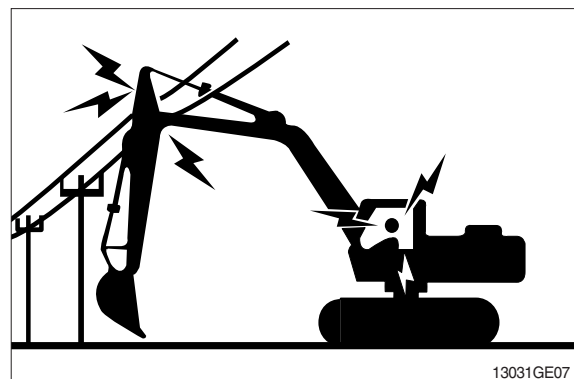
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

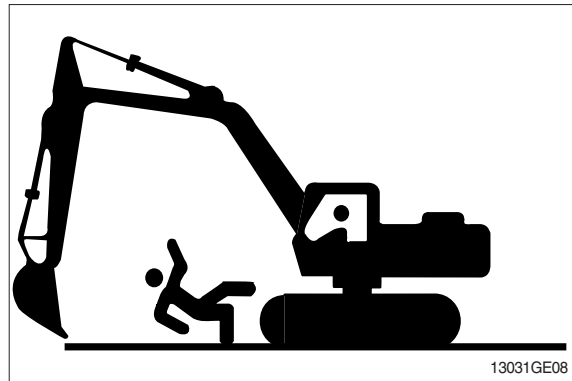
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

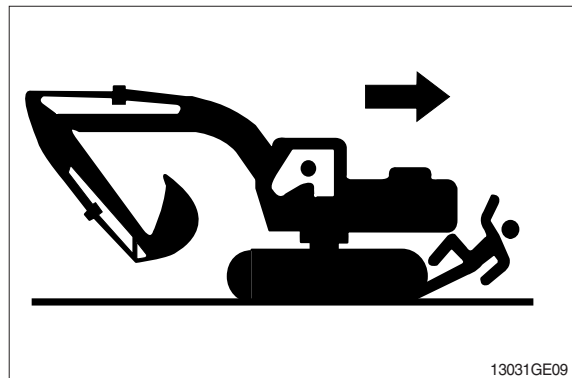


MOVE AND OPERATE MACHINE SAFELY

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:

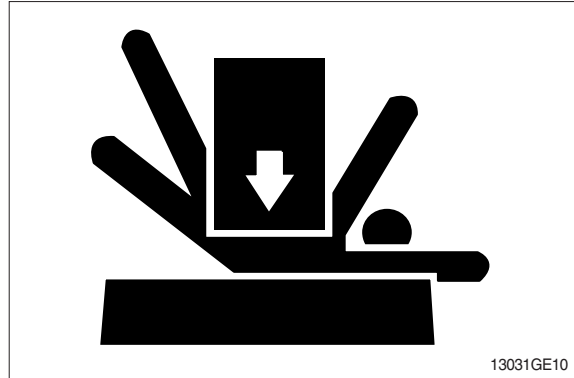
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at low idle speed without load for 5 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Place safety lever to locked position.
- Allow engine to cool.

SUPPORT MACHINE PROPERLY

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

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

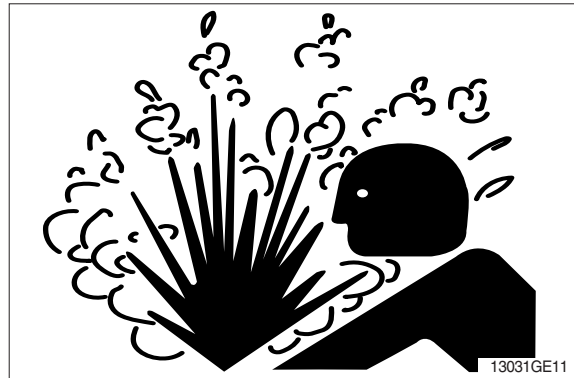
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

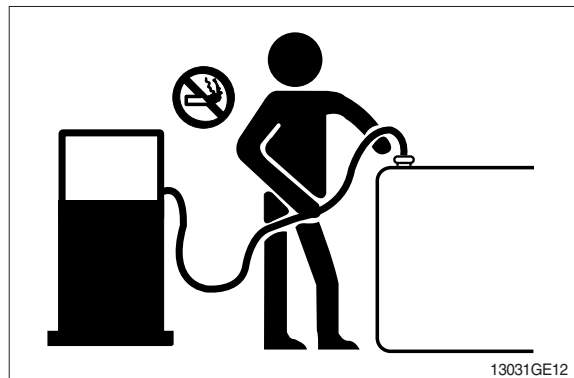
Explosive release of fluids from pressurized cooling system can cause serious burns.

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



HANDLE FLUIDS SAFELY-AVOID FIRES

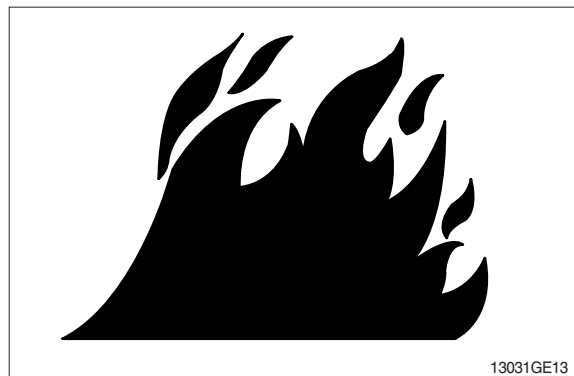
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

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

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



BEWARE OF EXHAUST FUMES

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

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

REMOVE PAINT BEFORE WELDING OR HEATING

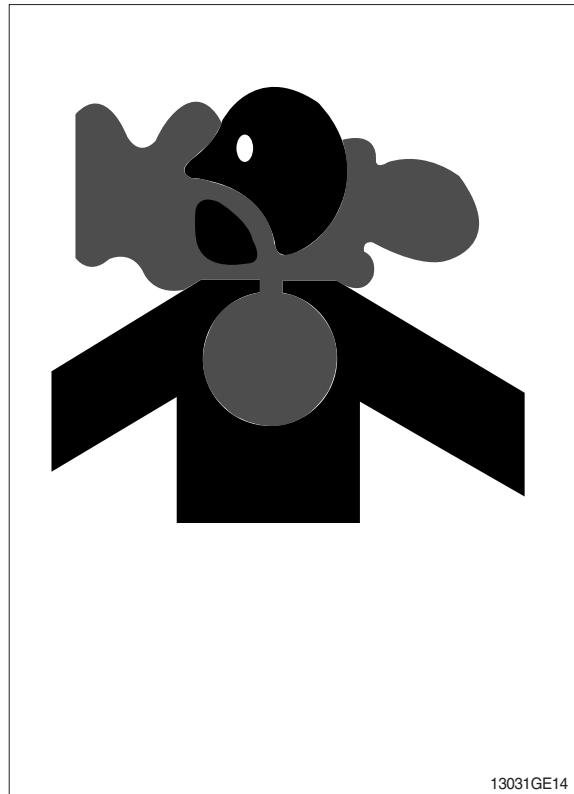
Avoid potentially toxic fumes and dust.

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

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

Remove paint before welding or heating:

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



ILLUMINATE WORK AREA SAFELY

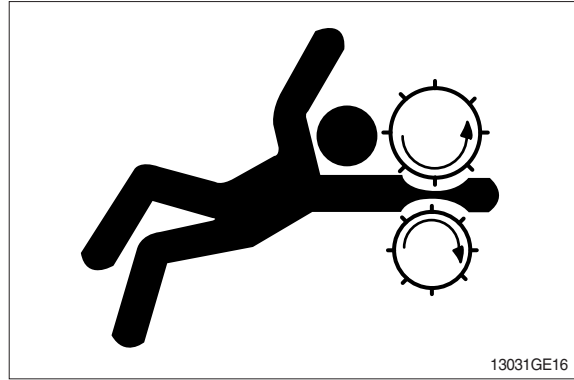
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



SERVICE MACHINE SAFELY

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

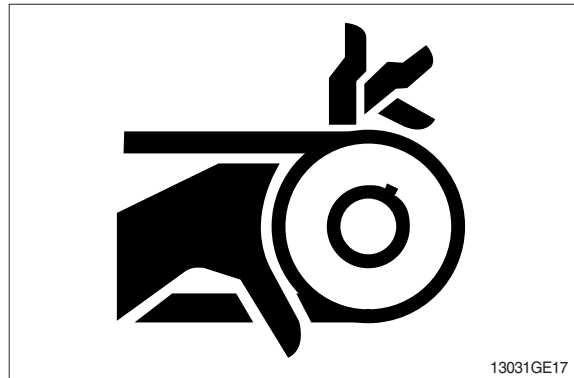
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



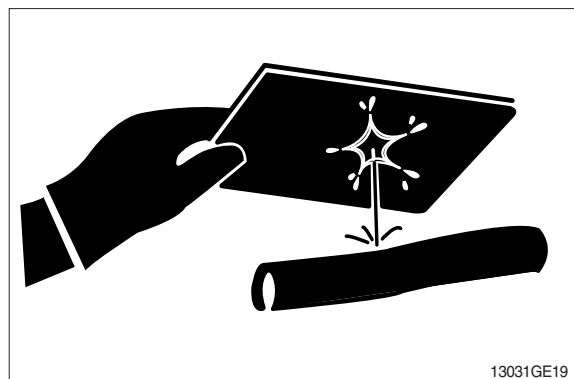
AVOID HIGH PRESSURE FLUIDS

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

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

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

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



AVOID HEATING NEAR PRESSURIZED FLUID LINES

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

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



PREVENT BATTERY EXPLOSIONS

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

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

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



PREVENT ACID BURNS

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

Avoid the hazard by:

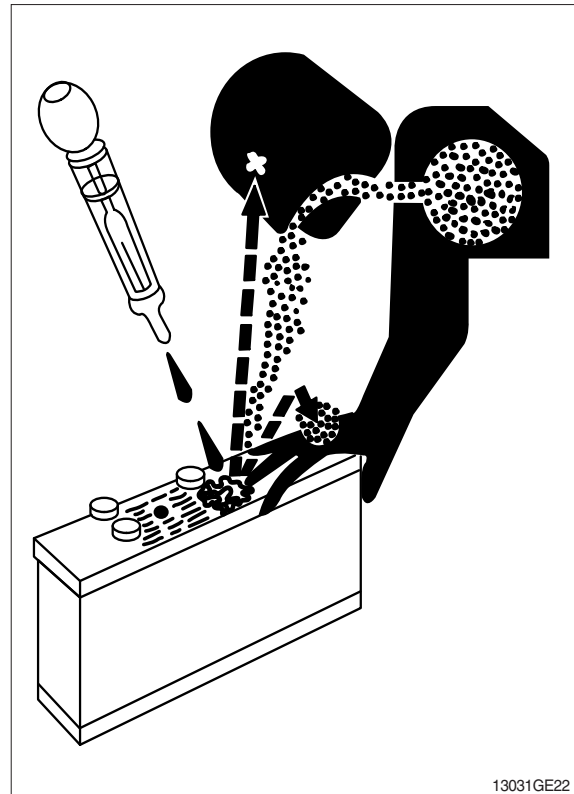
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

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

If acid is swallowed:

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



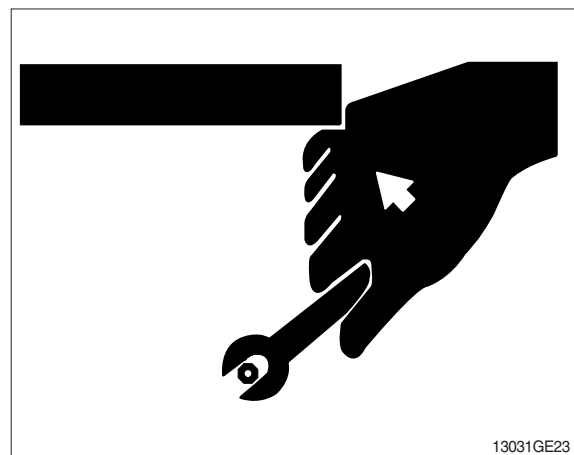
USE TOOLS PROPERLY

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

Use power tools only to loosen threaded tools and fasteners.

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

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

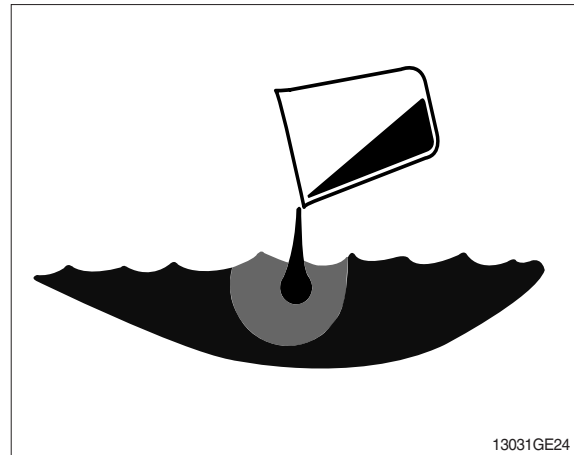


DISPOSE OF FLUIDS PROPERLY

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

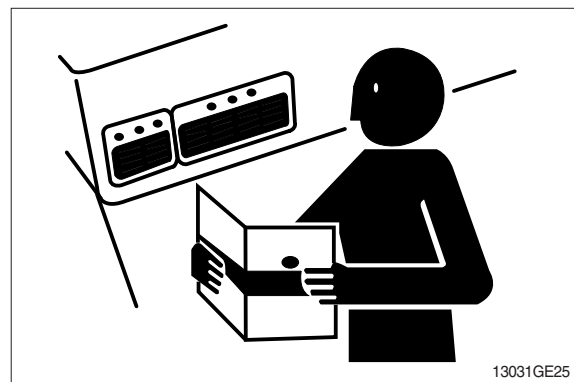
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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



REPLACE SAFETY LABELS

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

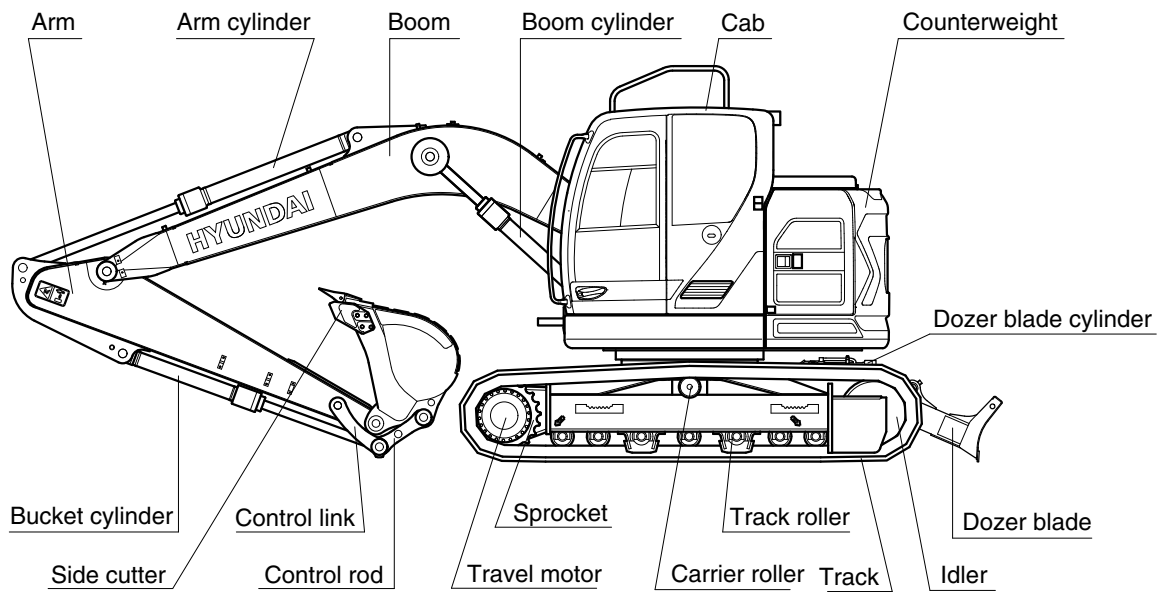
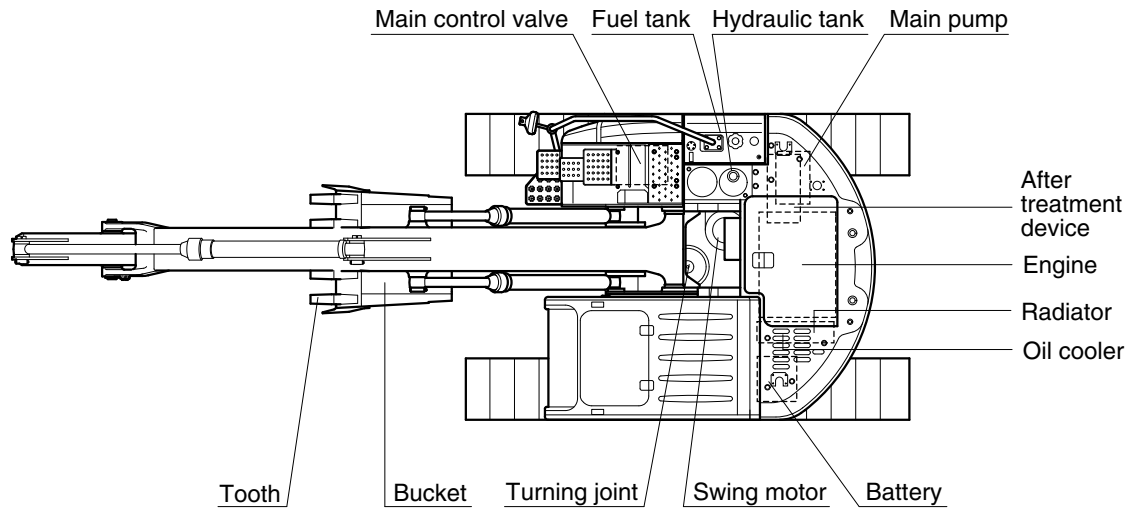


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

1. MAJOR COMPONENT

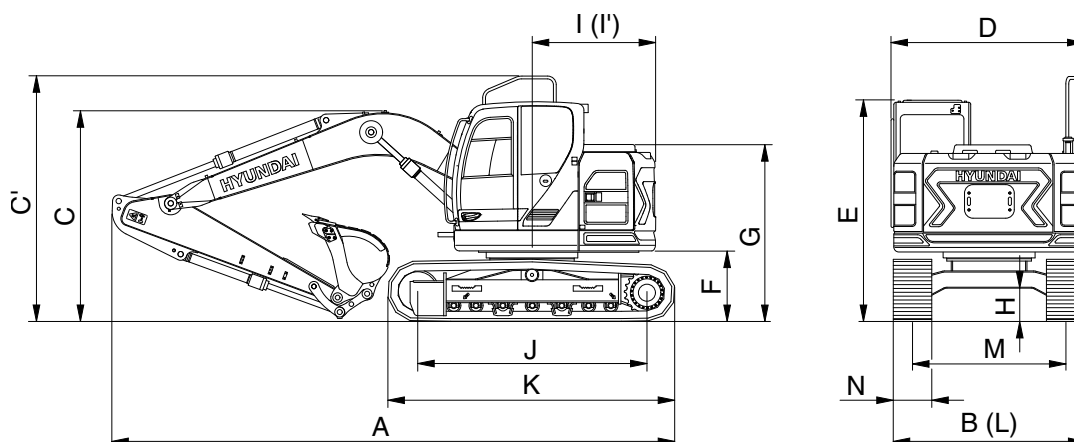


130ZF2SP01

2. SPECIFICATIONS

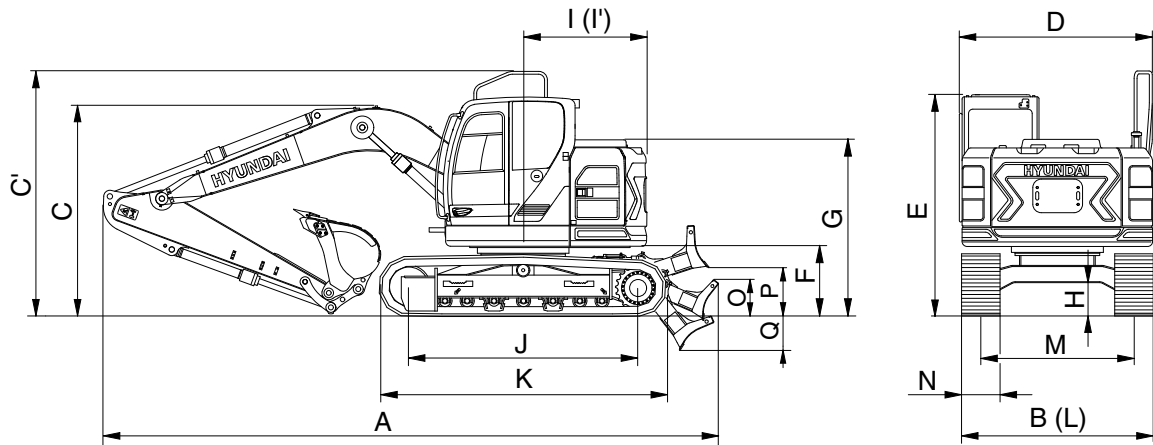
1) HX130LCR

· 4.30 m (14' 1") BOOM and 2.26 m (7' 5") ARM



Description		Unit	Specification
Operating weight		kg (lb)	12700 (28000)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.40 (0.52)
Overall length	A	mm (ft-in)	6860 (22' 6")
Overall width, with 500 mm shoe	B		2490 (8' 2")
Overall height of boom	C		2750 (9' 0")
Overall height of guardrail	C'		3165 (10' 5")
Superstructure width	D		2500 (8' 2")
Overall height of cab	E		2900 (9' 6")
Ground clearance of counterweight	F		900 (2' 11")
Engine cover height	G		2215 (7' 3")
Minimum ground clearance	H		440 (1' 5")
Rear-end distance	I		1500 (4' 11")
Rear-end swing radius	I'		1500 (4' 11")
Distance between tumblers	J		2780 (9' 1")
Undercarriage length	K		3490 (11' 5")
Undercarriage width	L		2500 (8' 2")
Track gauge	M		1990 (6' 6")
Track shoe width, standard	N		500 (20")
Travel speed (low/high)		km/hr (mph)	3.3/5.5 (2.1/3.4)
Swing speed		rpm	12.6
Gradeability		Degree (%)	35 (70)
Ground pressure (500 mm shoe)		kgf/cm ² (psi)	0.42 (5.95)
Max traction force		kg (lb)	11400 (25100)

2) HX130LCRD

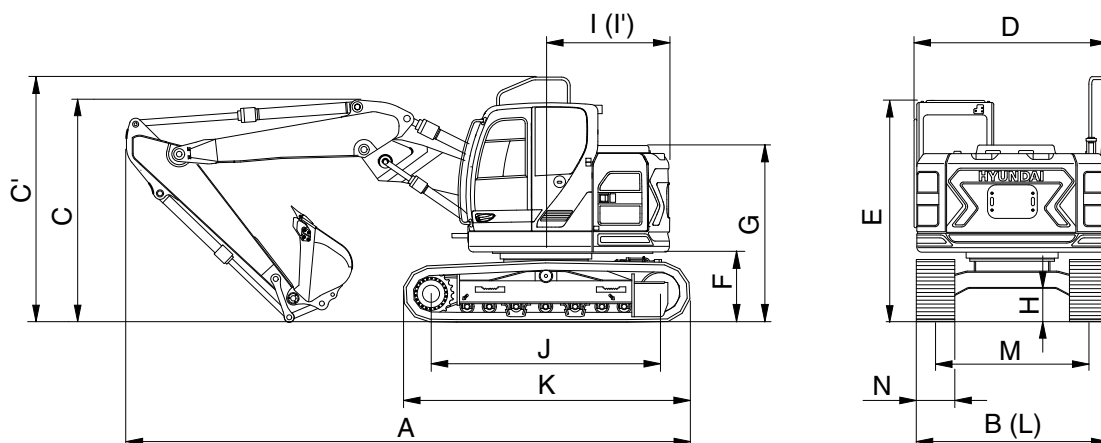


130ZF2SP03

Description		Unit	Specification
Operating weight		kg (lb)	13400 (29500)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.40 (0.52)
Overall length	A	mm (ft-in)	7600 (24' 11")
Overall width, with 500 mm shoe	B		2490 (8' 2")
Overall height	C		2750 (9' 0")
Overall height of guardrail	C'		3165 (10' 5")
Superstructure width	D		2500 (8' 2")
Overall height of cab	E		2900 (9' 6")
Ground clearance of counterweight	F		900 (2' 11")
Engine cover height	G		2215 (7' 3")
Minimum ground clearance	H		440 (1' 5")
Rear-end distance	I		1500 (4' 11")
Rear-end swing radius	I'		1500 (4' 11")
Distance between tumblers	J		2780 (9' 1")
Undercarriage length	K		3490 (11' 5")
Undercarriage width	L		2500 (8' 2")
Track gauge	M		1990 (6' 6")
Track shoe width, standard	N		500 (20")
Height of blade	O		580 (1' 11")
Ground clearance of blade up	P		545 (1' 9")
Depth of blade down	Q		515 (1' 8")
Travel speed (low/high)		km/hr (mph)	3.3/5.5 (2.1/3.4)
Swing speed		rpm	12.6
Gradeability		Degree (%)	35 (70)
Ground pressure (500 mm shoe)		kgf/cm ² (psi)	0.44 (6.26)
Max traction force		kg (lb)	11400 (25100)

3) HX130LCR 2-PIECE BOOM

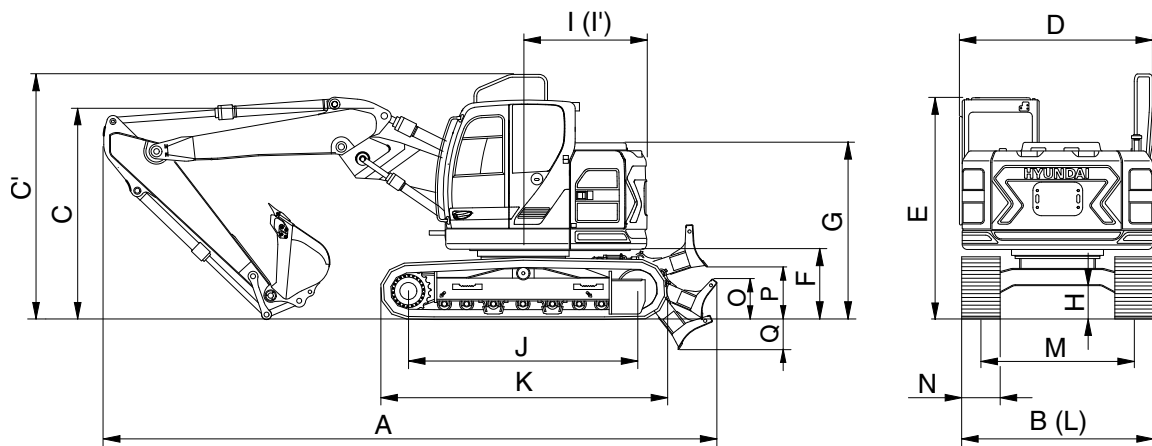
(1) Without dozer



130ZF2SP06

Description		Unit	Specification	
			1.96 m (6' 5") Arm	2.26 m (7' 5") Arm
Operating weight		kg (lb)	13060 (28790)	13090 (28860)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.40 (0.52)	←
Overall length	A	mm (ft-in)	7100 (23' 3")	7090 (23' 2")
Overall width, with 500 mm shoe	B		2490 (8' 2")	←
Overall height	C		2455 (5' 0")	2615 (8' 7")
Overall height of guardrail	C'		3165 (10' 5")	←
Superstructure width	D		2500 (8' 2")	←
Overall height of cab	E		2900 (9' 6")	←
Ground clearance of counterweight	F		900 (2' 11")	←
Engine cover height	G		2215 (7' 3")	←
Minimum ground clearance	H		440 (1' 5")	←
Rear-end distance	I		1500 (4' 11")	←
Rear-end swing radius	I'		1500 (4' 11")	←
Distance between tumblers	J		2610 (8' 6")	←
Undercarriage length	K		3300 (10' 8")	←
Undercarriage width	L		2500 (8' 2")	←
Track gauge	M		1990 (6' 6")	←
Track shoe width, standard	N		500 (20")	←
Travel speed (low/high)		km/hr (mph)	3.3/5.5 (2.1/3.4)	←
Swing speed		rpm	12.6	←
Gradeability		Degree (%)	35 (70)	←
Ground pressure (500 mm shoe)		kgf/cm ² (psi)	0.46 (6.52)	0.46 (6.54)
Max traction force		kg (lb)	11400 (25100)	←

(2) With dozer

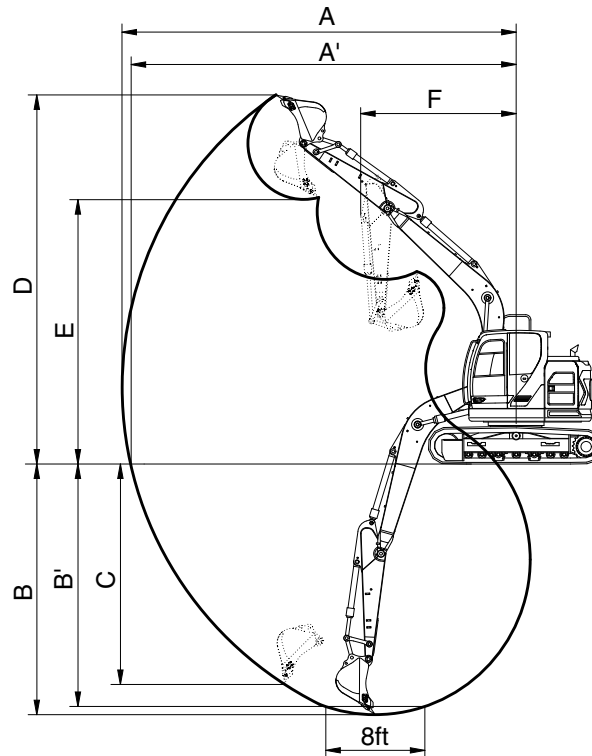


130ZF2SP07

Description		Unit	Specification	
			1.96 m (6' 5") Arm	2.26 m (7' 5") Arm
Operating weight		kg (lb)	13220 (29150)	13250 (29110)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.40 (0.52)	←
Overall length	A	mm (ft-in)	7840 (25' 9")	7830 (25' 8")
Overall width, with 500 mm shoe	B		2490 (8' 2")	←
Overall height	C		2455 (8' 1")	2615 (8' 7")
Overall height of guardrail	C'		3165 (10' 5")	←
Superstructure width	D		2500 (8' 2")	←
Overall height of cab	E		2900 (9' 6")	←
Ground clearance of counterweight	F		900 (2' 11")	←
Engine cover height	G		2215 (7' 3")	←
Minimum ground clearance	H		440 (1' 5")	←
Rear-end distance	I		1500 (4' 11")	←
Rear-end swing radius	I'		1500 (4' 11")	←
Distance between tumblers	J		2780 (9' 1")	←
Undercarriage length	K		3490 (11' 5")	←
Undercarriage width	L		2500 (8' 2")	←
Track gauge	M		1990 (6' 6")	←
Track shoe width, standard	N		500 (20")	←
Height of blade	O		580 (1' 11")	←
Ground clearance of blade up	P		545 (1' 9")	←
Depth of blade down	Q		515 (1' 8")	←
Travel speed (low/high)		km/hr (mph)	3.3/5.5 (2.1/3.4)	←
Swing speed		rpm	12.6	←
Gradeability		Degree (%)	35 (70)	←
Ground pressure (500 mm shoe)		kgf/cm ² (psi)	0.44 (6.27)	0.44 (6.28)
Max traction force		kg (lb)	11400 (25100)	←

3. WORKING RANGE

1) 4.30 m (14' 1") MONO BOOM



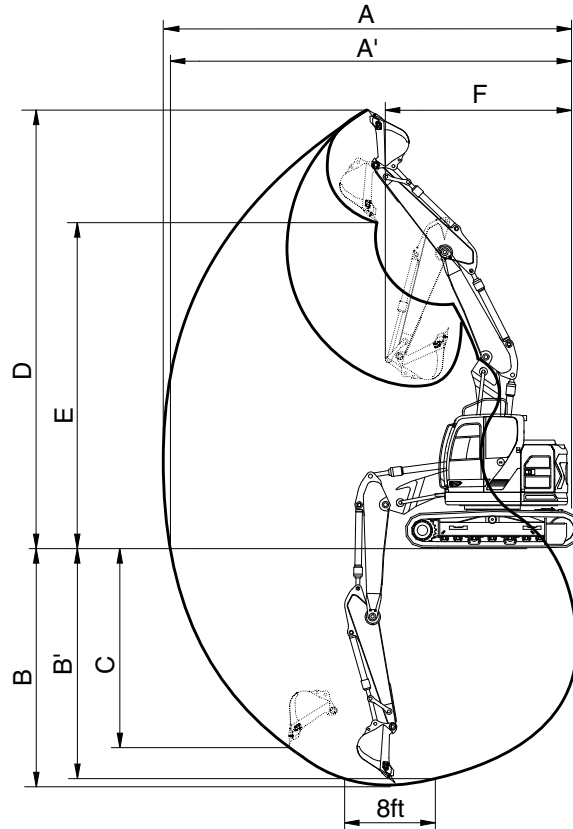
130ZF2SP04

Description		1.96 m (6' 5") Arm	※2.26 m (7' 5") Arm	2.81 (9' 3") Arm
Max digging reach	A	7410 mm (24' 4")	7690 mm (25' 3")	8220 mm (27' 0")
Max digging reach on ground	A'	7250 mm (23' 9")	7540 mm (24' 9")	8080 mm (26' 6")
Max digging depth	B	4720 mm (15' 6")	5020 mm (16' 6")	5570 mm (18' 3")
Max digging depth (8ft level)	B'	4460 mm (14' 8")	4790 mm (15' 9")	5380 mm (17' 8")
Max vertical wall digging depth	C	3960 mm (13' 0")	4290 mm (14' 1")	4830 mm (15' 10")
Max digging height	D	7920 mm (26' 0")	8110 mm (26' 7")	8480 mm (27' 10")
Max dumping height	E	5620 mm (18' 5")	5800 mm (19' 0")	6170 mm (20' 3")
Min swing radius	F	2310 mm (7' 6")	2340 mm (7' 8")	2470 mm (8' 1")
Bucket digging force	SAE	87.8 [95.8] kN	87.8 [95.8] kN	87.8 [95.8] kN
		8954 [9768] kgf	8954 [9768] kgf	8954 [9768] kgf
		19740 [21534] lbf	19740 [21534] lbf	19740 [21534] lbf
	ISO	101.7 [111.0] kN	101.7 [111.0] kN	101.7 [111.0] kN
		10369 [11312] kgf	10369 [11312] kgf	10369 [11312] kgf
		22860 [24938] lbf	22860 [24938] lbf	22860 [24938] lbf
Arm crowd force	SAE	60.6 [66.1] kN	56.1 [61.2] kN	48.3 [52.7] kN
		6178 [6739] kgf	5716 [6236] kgf	4928 [5376] kgf
		13619 [14857] lbf	12602 [13747] lbf	10865 [11852] lbf
	ISO	63.2 [68.9] kN	58.3 [63.6] kN	50.0 [54.5] kN
		6443 [7029] kgf	5943 [6484] kgf	5093 [5556] kgf
		14204 [15495] lbf	13103 [14294] lbf	12228 [12249] lbf

※ : STD

[] : Power boost

2) 4.556 m (14' 11") 2-PIECE BOOM



130ZF2SP08

Description		1.96 m (6' 5") Arm	2.26 m (7' 5") Arm
Max digging reach	A	7715 mm (25' 4")	8000 mm (26' 3")
Max digging reach on ground	A'	7570 mm (24' 10")	7860 mm (25' 9")
Max digging depth	B	4920 mm (16' 2")	5215 mm (17' 1")
Max digging depth (8ft level)	B'	4790 mm (15' 9")	5095 mm (16' 9")
Max vertical wall digging depth	C	4070 mm (13' 4")	4380 mm (14' 4")
Max digging height	D	8600 mm (28' 3")	8825 mm (28' 11")
Max dumping height	E	6230 mm (20' 5")	6455 mm (21' 2")
Min swing radius	F	2220 mm (7' 3")	2430 mm (8' 0")
Bucket digging force	SAE	87.8 [95.8] kN	87.8 [95.8] kN
		8954 [9768] kgf	8954 [9768] kgf
		19740 [21534] lbf	19740 [21534] lbf
	ISO	101.7 [111.0] kN	101.7 [111.0] kN
		10369 [11312] kgf	10369 [11312] kgf
		22860 [24938] lbf	22860 [24938] lbf
Arm crowd force	SAE	60.6 [66.1] kN	56.1 [61.2] kN
		6178 [6739] kgf	5716 [6236] kgf
		13619 [14857] lbf	12602 [13747] lbf
	ISO	63.2 [68.9] kN	58.3 [63.6] kN
		6443 [7029] kgf	5943 [6484] kgf
		14204 [15495] lbf	13103 [14294] lbf

[] : Power boost

4. WEIGHT

Item	HX130LCR		HX130LCRD	
	kg	lb	kg	lb
Upper structure assembly				
· Main frame weld assembly	1231	2710	←	
· Engine assembly	341	750	←	
· Main pump assembly	90	200	←	
· Main control valve assembly	140	310	←	
· Swing motor assembly	120	260	←	
· Hydraulic oil tank assembly	150	330	←	
· Fuel tank assembly	145	320	←	
· Counterweight	2000	4410	←	
· Cab assembly	450	990	←	
Lower chassis assembly				
· Track frame weld assembly (LC type)	1285	2830	1424	3140
· Swing bearing	262	580	←	
· Travel motor assembly	140	310	←	
· Turning joint	56	120	←	
· Track recoil spring	95	210	←	
· Idler	108	240	←	
· Carrier roller	12	26	←	
· Track roller	24	53	←	
· Sprocket	40	88	←	
· Track-chain assembly (500 mm standard triple grouser shoe)	716	1580	←	
· Dozer blade assembly (500 mm shoe)	-		485	1070
Front attachment assembly				
· 4.30 m boom assembly	710	1570	←	
· 2.26 m arm assembly	360	790	←	
· 0.40 m³ SAE heaped bucket	390	860	←	
· Boom cylinder assembly	200	440	←	
· Arm cylinder assembly	120	270	←	
· Bucket cylinder assembly	80	180	←	
· Bucket control rod assembly	90	200	←	
· Dozer blade cylinder assembly	-		55	120

※ 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.

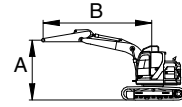
5. LIFTING CAPACITIES

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	1960	2000	500	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg									*2600	*2600	4.24
19.7ft	lb									*5730	*5730	(13.9)
4.5m	kg					*3340	*3340			*2300	*2300	5.43
14.8ft	lb					*7360	*7360			*5070	*5070	(17.8)
3.0m	kg			*5320	*5320	*3930	3220	*2480	2050	*2260	2040	6.03
9.8ft	lb			*11730	*11730	*8660	7100	*5470	4520	*4980	4500	(19.8)
1.5m	kg			*7280	5610	*4730	3050	*3780	2000	*2390	1900	6.22
4.9ft	lb			*16050	12370	*10430	6720	*8330	4410	*5270	4190	(20.4)
0.0m	kg			*7250	5430	*5280	2940	*3050	1960	*2720	1950	6.03
0.0ft	lb			*15980	11970	*11640	6480	*6720	4320	*6000	4300	(19.8)
-1.5m	kg	*5370	*5370	*7900	5440	*5250	2920			*3490	2260	5.43
-4.9ft	lb	*11840	*11840	*17420	11990	*11570	6440			*7690	4980	(17.8)
-3.0m	kg			*6460	5580					*4340	3290	4.24
-9.8ft	lb			*14240	12300					*9570	7250	(13.9)

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
2. Lifting capacity of the ROBEX 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.

Unit : mm

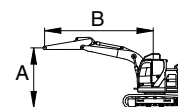
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	1960	2000	500	Up	-	-	-



: Rating over-front



: Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg									*2600	*2600	4.24
19.7ft	lb									*5730	*5730	(13.9)
4.5m	kg					*3340	3110			*2300	2270	5.43
14.8ft	lb					*7360	6860			*5070	5000	(17.8)
3.0m	kg			*5320	*5320	*3930	2980	*2480	1900	*2260	1880	6.03
9.8ft	lb			*11730	*11730	*8660	6570	*5470	4190	*4980	4140	(19.8)
1.5m	kg			*7280	5100	3910	2810	2520	1850	2380	1750	6.22
4.9ft	lb			*16050	11240	8620	6190	5560	4080	5250	3860	(20.4)
0.0m	kg			*7250	4920	3780	2700	2480	1810	2460	1800	6.03
0.0ft	lb			*15980	10850	8330	5950	5470	3990	5420	3970	(19.8)
-1.5m	kg	*5370	*5370	7480	4930	3760	2680			2860	2080	5.43
-4.9ft	lb	*11840	*11840	16490	10870	8290	5910			6310	4590	(17.8)
-3.0m	kg			*6460	5060					4240	3020	4.24
-9.8ft	lb			*14240	11160					9350	6660	(13.9)

Unit : mm

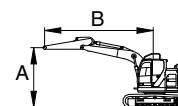
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	1960	2000	500	-	-	-	-



: Rating over-front



: Rating over-side or 360 degree



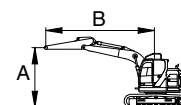
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg									*2600	*2600	4.24
19.7ft	lb									*5730	*5730	(13.9)
4.5m	kg					*3340	2940			*2300	2140	5.43
14.8ft	lb					*7360	6480			*5070	4720	(17.8)
3.0m	kg			*5320	5300	*3930	2810	*2480	1780	*2260	1760	6.03
9.8ft	lb			*11730	11680	*8660	6190	*5470	3920	*4980	3880	(19.8)
1.5m	kg			*7280	4790	3920	2640	2520	1730	*2390	1640	6.22
4.9ft	lb			*16050	10560	8640	5820	5560	3810	*5270	3620	(20.4)
0.0m	kg			*7250	4620	3790	2530	2480	1690	2470	1680	6.03
0.0ft	lb			*15980	10190	8360	5580	5470	3730	5450	3700	(19.8)
-1.5m	kg	*5370	*5370	7500	4620	3770	2510			2870	1940	5.43
-4.9ft	lb	*11840	*11840	16530	10190	8310	5530			6330	4280	(17.8)
-3.0m	kg			*6460	4760					4260	2840	4.24
-9.8ft	lb			*14240	10490					9390	6260	(13.9)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	2260	2000	500	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



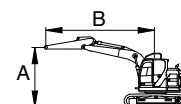
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*2780	*2780			*2340	*2340	4.64
19.7ft	lb					*6130	*6130			*5160	*5160	(15.2)
4.5m	kg					*3070	*3070			*2100	*2100	5.75
14.8ft	lb					*6770	*6770			*4630	*4630	(18.9)
3.0m	kg			*4800	*4800	*3690	3250	*3300	2070	*2060	1900	6.32
9.8ft	lb			*10580	*10580	*8140	7170	*7280	4560	*4540	4190	(20.7)
1.5m	kg			*7130	5680	*4550	3070	*3650	2000	*2170	1770	6.50
4.9ft	lb			*15720	12520	*10030	6770	*8050	4410	*4780	3900	(21.3)
0.0m	kg			*7520	5430	*5180	2940	*3900	1950	*2460	1820	6.32
0.0ft	lb			*16580	11970	*11420	6480	*8600	4300	*5420	4010	(20.7)
-1.5m	kg	*4880	*4880	*8050	5400	*5290	2890			*3080	2070	5.75
-4.9ft	lb	*10760	*10760	*17750	11900	*11660	6370			*6790	4560	(18.9)
-3.0m	kg	*9320	*9320	*6880	5510	*4410	2970			*4170	2850	4.64
-9.8ft	lb	*20550	*20550	*15170	12150	*9720	6550			*9190	6280	(15.2)

Unit : mm

Mode	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	2260	2000	500	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



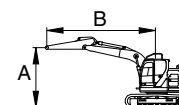
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*2780	*2780			*2340	*2340	4.64
19.7ft	lb					*6130	*6130			*5160	*5160	(15.2)
4.5m	kg					*3070	*3070			*2100	2090	5.75
14.8ft	lb					*6770	*6770			*4630	4610	(18.9)
3.0m	kg			*4800	*4800	*3690	3000	2590	1910	*2060	1750	6.32
9.8ft	lb			*10580	*10580	*8140	6610	5710	4210	*4540	3860	(20.7)
1.5m	kg			*7130	5160	3920	2830	2520	1850	*2170	1640	6.50
4.9ft	lb			*15720	11380	8640	6240	5560	4080	*4780	3620	(21.3)
0.0m	kg			7470	4920	3780	2700	2460	1800	2290	1670	6.32
0.0ft	lb			16470	10850	8330	5950	5420	3970	5050	3680	(20.7)
-1.5m	kg	*4880	*4880	7440	4890	3740	2660			2620	1900	5.75
-4.9ft	lb	*10760	*10760	16400	10780	8250	5860			5780	4190	(18.9)
-3.0m	kg	*9320	*9320	*6880	5000	3810	2730			3650	2620	4.64
-9.8ft	lb	*20550	*20550	*15170	11020	8400	6020			8050	5780	(15.2)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	2260	2000	500	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



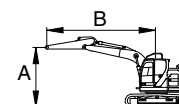
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*2780	*2780			*2340	*2340	4.64
19.7ft	lb					*6130	*6130			*5160	*5160	(15.2)
4.5m	kg					*3070	2970			*2100	1960	5.75
14.8ft	lb					*6770	6550			*4630	4320	(18.9)
3.0m	kg			*4800	*4800	*3690	2830	2590	1790	*2060	1640	6.32
9.8ft	lb			*10580	*10580	*8140	6240	5710	3950	*4540	3620	(20.7)
1.5m	kg			*7130	4860	3930	2650	2530	1730	*2170	1530	6.50
4.9ft	lb			*15720	10710	8660	5840	5580	3810	*4780	3370	(21.3)
0.0m	kg			7490	4610	3790	2520	2470	1680	2290	1560	6.32
0.0ft	lb			16510	10160	8360	5560	5450	3700	5050	3440	(20.7)
-1.5m	kg	*4880	*4880	7460	4590	3750	2480			2620	1780	5.75
-4.9ft	lb	*10760	*10760	16450	10120	8270	5470			5780	3920	(18.9)
-3.0m	kg	*9320	*9320	*6880	4690	3820	2550			3660	2450	4.64
-9.8ft	lb	*20550	*20550	*15170	10340	8420	5620			8070	5400	(15.2)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	2810	2000	500	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



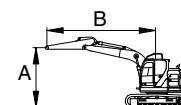
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		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*2460	*2460			*1760	*1760	5.36
19.7ft	lb					*5420	*5420			*3880	*3880	(17.6)
4.5m	kg					*2550	*2550	*2380	2120	*1600	*1600	6.34
14.8ft	lb					*5620	*5620	*5250	4670	*3530	*3530	(20.8)
3.0m	kg			*3820	*3820	*3210	*3210	*2980	2080	*1570	*1570	6.86
9.8ft	lb			*8420	*8420	*7080	*7080	*6570	4590	*3460	*3460	(22.5)
1.5m	kg			*6270	5810	*4150	3090	*3380	2000	*1650	1550	7.03
4.9ft	lb			*13820	12810	*9150	6810	*7450	4410	*3640	3420	(23.1)
0.0m	kg			*7830	5420	*4940	2920	*3740	1920	*1830	1580	6.86
0.0ft	lb			*17260	11950	*10890	6440	*8250	4230	*4030	3480	(22.5)
-1.5m	kg	*4170	*4170	*8140	5320	*5260	2840	*3830	1890	*2210	1760	6.34
-4.9ft	lb	*9190	*9190	*17950	11730	*11600	6260	*8440	4170	*4870	3880	(20.8)
-3.0m	kg	*7330	*7330	*7430	5380	*4880	2870			*3140	2260	5.36
-9.8ft	lb	*16160	*16160	*16380	11860	*10760	6330			*6920	4980	(17.6)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	2810	2000	500	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



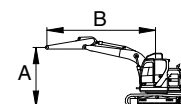
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*2460	*2460			*1760	*1760	5.36
19.7ft	lb					*5420	*5420			*3880	*3880	(17.6)
4.5m	kg					*2550	*2550	*2380	1970	*1600	*1600	6.34
14.8ft	lb					*5620	*5620	*5250	4340	*3530	*3530	(20.8)
3.0m	kg			*3820	*3820	*3210	3040	2600	1920	*1570	1520	6.86
9.8ft	lb			*8420	*8420	*7080	6700	5730	4230	*3460	3350	(22.5)
1.5m	kg			*6270	5280	3950	2840	2510	1840	*1650	1430	7.03
4.9ft	lb			*13820	11640	8710	6260	5530	4060	*3640	3150	(23.1)
0.0m	kg			7480	4910	3770	2680	2440	1770	*1830	1450	6.86
0.0ft	lb			16490	10820	8310	5910	5380	3900	*4030	3200	(22.5)
-1.5m	kg	*4170	*4170	7360	4810	3690	2610	2400	1740	*2210	1610	6.34
-4.9ft	lb	*9190	*9190	16230	10600	8140	5750	5290	3840	*4870	3550	(20.8)
-3.0m	kg	*7330	*7330	7430	4870	3710	2630			2880	2070	5.36
-9.8ft	lb	*16160	*16160	16380	10740	8180	5800			6350	4560	(17.6)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	Mono	4300	2810	2000	500	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



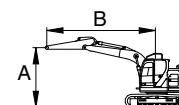
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*2460	*2460			*1760	*1760	5.36
19.7ft	lb					*5420	*5420			*3880	*3880	(17.6)
4.5m	kg					*2550	*2550	*2380	1850	*1600	*1600	6.34
14.8ft	lb					*5620	*5620	*5250	4080	*3530	*3530	(20.8)
3.0m	kg			*3820	*3820	*3210	2870	2610	1800	*1570	1420	6.86
9.8ft	lb			*8420	*8420	*7080	6330	5750	3970	*3460	3130	(22.5)
1.5m	kg			*6270	4980	3960	2670	2520	1720	*1650	1330	7.03
4.9ft	lb			*13820	10980	8730	5890	5560	3790	*3640	2930	(23.1)
0.0m	kg			7500	4610	3780	2510	2440	1650	*1830	1350	6.86
0.0ft	lb			16530	10160	8330	5530	5380	3640	*4030	2980	(22.5)
-1.5m	kg	*4170	*4170	7380	4510	3700	2430	2410	1620	*2210	1500	6.34
-4.9ft	lb	*9190	*9190	16270	9940	8160	5360	5310	3570	*4870	3310	(20.8)
-3.0m	kg	*7330	*7330	*7430	4560	3720	2450			2880	1940	5.36
-9.8ft	lb	*16160	*16160	*16380	10050	8200	5400			6350	4280	(17.6)

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	2PCS	4556	1960	2350	500	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



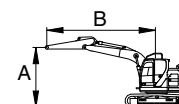
Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*3290	*3290			*2660	*2660	4.68
19.7ft	lb					*7250	*7250			*5860	*5860	(15.4)
4.5m	kg			*3660	*3660	*3290	*3290			*2350	2340	5.78
14.8ft	lb			*8070	*8070	*7250	*7250			*5180	5160	(19.0)
3.0m	kg			*5610	*5610	*3910	3390	*3360	2170	*2290	1970	6.35
9.8ft	lb			*12370	*12370	*8620	7470	*7410	4780	*5050	4340	(20.8)
1.5m	kg					*4670	3180	*3630	2090	*2380	1840	6.53
4.9ft	lb					*10300	7010	*8000	4610	*5250	4060	(21.4)
0.0m	kg			*4620	*4620	*5130	3040	*3800	2040	*2640	1880	6.35
0.0ft	lb			*10190	*10190	*11310	6700	*8380	4500	*5820	4140	(20.8)
-1.5m	kg			*7520	5630	*5070	3010			*3230	2150	5.78
-4.9ft	lb			*16580	12410	*11180	6640			*7120	4740	(19.0)
-3.0m	kg			*6200	5780	*4050	3120					
-9.8ft	lb			*13670	12740	*8930	6880					

Unit : mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	2PCS	4556	1960	2350	500	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*3290	*3290			*2660	*2660	4.68
19.7ft	lb					*7250	*7250			*5860	*5860	(15.4)
4.5m	kg			*3660	*3660	*3290	*3290			*2350	2170	5.78
14.8ft	lb			*8070	*8070	*7250	*7250			*5180	4780	(19.0)
3.0m	kg			*5610	*5610	*3910	3130	2730	2000	*2290	1820	6.35
9.8ft	lb			*12370	*12370	*8620	6900	6020	4410	*5050	4010	(20.8)
1.5m	kg					4090	2920	2650	1930	2320	1700	6.53
4.9ft	lb					9020	6440	5840	4250	5110	3750	(21.4)
0.0m	kg			*4620	*4620	3950	2790	2590	1870	2390	1730	6.35
0.0ft	lb			*10190	*10190	8710	6150	5710	4120	5270	3810	(20.8)
-1.5m	kg			*7520	5100	3920	2760			2740	1980	5.78
-4.9ft	lb			*16580	11240	8640	6080			6040	4370	(19.0)
-3.0m	kg			*6200	5240	4030	2860					
-9.8ft	lb			*13670	11550	8880	6310					

Unit : mm

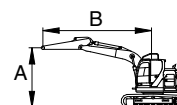
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	2PCS	4556	1960	2350	500	-	-	-	-



: 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)		Capacity	Reach
6.0m	kg					*3290	3160			*2660	*2660
19.7ft	lb					*7250	6970			*5860	*5860
4.5m	kg			*3660	*3660	*3290	3140			*2350	2040
14.8ft	lb			*8070	*8070	*7250	6920			*5180	4500
3.0m	kg			*5610	5540	*3910	2960	2730	1880	*2290	1710
9.8ft	lb			*12370	12210	*8620	6530	6020	4140	*5050	3770
1.5m	kg					4100	2750	2650	1810	2330	1590
4.9ft	lb					9040	6060	5840	3990	5140	3510
0.0m	kg			*4620	*4620	3960	2620	2590	1750	2390	1620
0.0ft	lb			*10190	*10190	8730	5780	5710	3860	5270	3570
-1.5m	kg			*7520	4790	3930	2590			2740	1850
-4.9ft	lb			*16580	10560	8660	5710			6040	4080
-3.0m	kg			*6200	4930	4040	2690				
-9.8ft	lb			*13670	10870	8910	5930				

Unit : mm

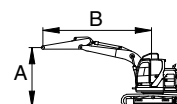
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	2PCS	4556	2260	2350	500	Down	-	-	-



: Rating over-front



: Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach	
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity	Reach
7.5m	kg			*3530	*3530					*3290	*3290
24.6ft	lb			*7780	*7780					*7250	*7250
6.0m	kg					*2940	*2940			*2380	*2380
19.7ft	lb					*6480	*6480			*5250	*5250
4.5m	kg					*3050	*3050	*2620	2230	*2140	*2140
14.8ft	lb					*6720	*6720	*5780	4920	*4720	*4720
3.0m	kg			*5110	*5110	*3700	3420	*3200	2180	*2090	1840
9.8ft	lb			*11270	*11270	*8160	7540	*7050	4810	*4610	4060
1.5m	kg					*4510	3200	*3520	2100	*2160	1720
4.9ft	lb					*9940	7050	*7760	4630	*4760	3790
0.0m	kg			*4950	*4950	*5060	3040	*3760	2030	*2390	1760
0.0ft	lb			*10910	*10910	*11160	6700	*8290	4480	*5270	3880
-1.5m	kg			*7690	5590	*5110	2990	*3630	2020	*2870	1980
-4.9ft	lb			*16950	12320	*11270	6590	*8000	4450	*6330	4370
-3.0m	kg			*6580	5710	*4400	3060			*3610	2610
-9.8ft	lb			*14510	12590	*9700	6750			*7960	5750

Unit : mm

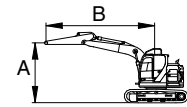
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	2PCS	4556	2260	2350	500	Up	-	-	-



: Rating over-front



: Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach	
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity	Reach
7.5m	kg			*3530	*3530					*3290	*3290
24.6ft	lb			*7780	*7780					*7250	*7250
6.0m	kg					*2940	*2940			*2380	*2380
19.7ft	lb					*6480	*6480			*5250	*5250
4.5m	kg					*3050	*3050	*2620	2060	*2140	1990
14.8ft	lb					*6720	*6720	*5780	4540	*4720	4390
3.0m	kg			*5110	*5110	*3700	3160	2740	2020	*2090	1700
9.8ft	lb			*11270	*11270	*8160	6970	6040	4450	*4610	3750
1.5m	kg					4120	2940	2650	1930	*2160	1590
4.9ft	lb					9080	6480	5840	4250	*4760	3510
0.0m	kg			*4950	*4950	3950	2790	2580	1860	2230	1610
0.0ft	lb			*10910	*10910	8710	6150	5690	4100	4920	3550
-1.5m	kg			*7690	5050	3890	2740	2570	1850	2510	1820
-4.9ft	lb			*16950	11130	8580	6040	5670	4080	5530	4010
-3.0m	kg			*6580	5170	3960	2800			3340	2400
-9.8ft	lb			*14510	11400	8730	6170			7360	5290

Unit : mm

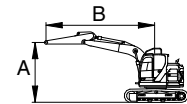
Model	Boom	Boom	Arm	Counterweight	Shoe	Dozer		Outrigger	
	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX130LCR	2PCS	4556	2260	2350	500	-	-	-	-



: Rating over-front



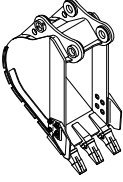
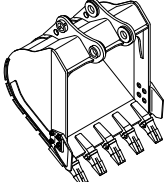
: Rating over-side or 360 degree



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)		Capacity	Reach
7.5m	kg			*3530	*3530					*3290	*3290
24.6ft	lb			*7780	*7780					*7250	*7250
6.0m	kg					*2940	*2940			*2380	*2380
19.7ft	lb					*6480	*6480			*5250	*5250
4.5m	kg					*3050	*3050	*2620	1940	*2140	1880
14.8ft	lb					*6720	*6720	*5780	4280	*4720	4140
3.0m	kg			*5110	*5110	*3700	2990	2750	1900	*2090	1590
9.8ft	lb			*11270	*11270	*8160	6590	6060	4190	*4610	3510
1.5m	kg					4130	2770	2660	1810	*2160	1480
4.9ft	lb					9110	6110	5860	3990	*4760	3260
0.0m	kg			*4950	4750	3960	2620	2580	1740	2230	1510
0.0ft	lb			*10910	10470	8730	5780	5690	3840	4920	3330
-1.5m	kg			*7690	4740	3900	2570	2570	1730	2520	1700
-4.9ft	lb			*16950	10450	8600	5670	5670	3810	5560	3750
-3.0m	kg			*6580	4860	3970	2630			3350	2250
-9.8ft	lb			*14510	10710	8750	5800			7390	4960

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET

		
0.30 m³ SAE heaped bucket	※ 0.40, 0.45, 0.50 m³ SAE heaped bucket	0.59 m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation				
					4.3 m (14' 1") Mono boom			4.556 m (14' 11") 2-piece boom	
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.96m arm (6' 5")	2.26m arm (7' 5")	2.81m arm (9' 3")	1.96m arm (6' 5")	2.26m arm (7' 5")
0.30 m³ (0.39 yd³)	0.27 m³ (0.35 yd³)	610 mm (24.0")	700 mm (27.6")	332 kg (730 lb)	●	●	●	●	●
※ 0.40 m³ (0.52 yd³)	0.35 m³ (0.46 yd³)	760 mm (29.9")	850 mm (33.5")	383 kg (840 lb)	●	●	●	●	●
0.45 m³ (0.59 yd³)	0.40 m³ (0.52 yd³)	830 mm (32.7")	920 mm (36.2")	401 kg (880 lb)	●	●	◐	●	●
0.50 m³ (0.65 yd³)	0.45 m³ (0.59 yd³)	900 mm (35.4")	990 mm (39.0")	419 kg (920 lb)	●	●	◐	●	◐
0.59 m³ (0.77 yd³)	0.52 m³ (0.68 yd³)	1030 mm (40.6")	1120 mm (44.1")	463 kg (1020 lb)	◐	■	▲	◐	■

※ : Standard bucket

- Applicable for materials with density of 2100 kg/m³ (3540 lb/yd³) or less
- ◐ Applicable for materials with density of 1800 kg/m³ (3030 lb/yd³) or less
- Applicable for materials with density of 1500 kg/m³ (2530 lb/yd³) or less
- ▲ Applicable for materials with density of 1200 kg/m³ (2020 lb/yd³) or less

※ 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.

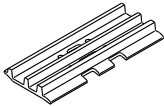
Consult your HD Hyundai Construction Equipment dealer for information on selecting the correct boom-arm-bucket combination.

7. UNDERCARRIAGE

1) 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		
					
HX130LCR	Shoe width	mm (in)	※ 500 (20)	600 (24)	700 (28)
	Operating weight	kg (lb)	12700 (28000)	12850 (28330)	13000 (28660)
	Ground pressure	kgf/cm ² (psi)	0.42 (5.95)	0.35 (5.02)	0.31 (4.35)
	Overall width	mm (ft-in)	2500 (8' 2")	2600 (8' 6")	2700 (8' 10")
HX130LCRD	Shoe width	mm (in)	※ 500 (20)	600 (24)	-
	Operating weight	kg (lb)	13400 (29540)	13560 (29890)	-
	Ground pressure	kgf/cm ² (psi)	0.44 (6.28)	0.37 (5.30)	-
	Overall width	mm (ft-in)	2500 (8' 2")	2600 (8' 6")	-
	Dozer width	mm (ft-in)	2500 (8' 2")	2600 (8' 6")	-

※ Standard

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
	HX130LCR/HX130LCRD
Carrier rollers	1 EA
Track rollers	7 EA
Track shoes	45 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
500 mm triple grouser	Standard	A
600 mm triple grouser	Option	A
700 mm triple grouser	Option	B

※ **Table 2**

Category	Applications	Applications
A	Rocky ground, river beds, normal soil	· Travel at low speed on rough ground with large obstacles such as boulders or fallen trees
B	Normal soil, soft ground	· 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	Perkins 854F
Type	4-cycle turbocharged charge air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	99 × 110 mm (3.89" × 4.33")
Piston displacement	3400 cc (207 cu in)
Compression ratio	17 : 1
Rated gross horse power (SAE J1995)	73.6 Hp (55 kW) at 2200 rpm
Maximum torque	43.2 kgf · m (313 lbf · ft) at 1200 rpm
Engine oil quantity	8.0 ℓ (2.1 U.S. gal)
Dry weight	341 kg (752 lb)
High idling speed	2310 ± 50 rpm
Low idling speed	800 ± 100 rpm
Rated fuel consumption	160 g/Hp · hr at 1900 rpm
Starting motor	24 V-4.5 kW
Alternator	24 V-65 A
Battery	2 × 12 V × 100 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 63 cc/rev
Maximum pressure	330 kgf/cm ² (4690 psi) [360 kgf/cm ² (5120 psi)]
Rated oil flow	2 × 126 ℓ /min (33.3 U.S. gpm / 27.7 U.K. gpm)
Rated speed	2000 rpm

[] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	40 kgf/cm ² (570 psi)
Rated oil flow	30 ℓ /min (7.9 U.S. gpm / 6.6 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	11 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	330 kgf/cm ² (4690 psi) [360 kgf/cm ² (5120 psi)]
Overload relief valve pressure	380 kgf/cm ² (5400 psi)

[]: Power boost

5) SWING MOTOR

Item	Specification	
	Type 1	Type 2
Type	Fixed displacement axial piston motor	
Capacity	72 cc/rev	71 cc/rev
Relief pressure	285 kgf/cm ² (4050 psi)	
Braking system	Automatic, spring applied hydraulic released	
Braking torque	Min 30 kgf · m (217 lbf · ft)	31.4 kgf · m (227 lbf · ft)
Brake release pressure	15~50 kgf/cm ² (273~711 psi)	19.2~50 kgf/cm ² (273~711 psi)
Reduction gear type	2 - stage planetary	

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	330 kgf/cm ² (4690 psi)
Capacity (max / min)	77.0/44.5 cc/rev
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	12.5 kgf/cm ² (178 psi)
Braking torque	33 kgf · m (239 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø 100 × 975 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø 110 × 1070 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	Ø 100 × 855 mm
	Cushion	Extend only
Dozer cylinder (option)	Bore dia × Stroke	Ø 100 × 240 mm
	Cushion	-
Adjust cylinder (opt)	Bore dia × Stroke	Ø 145 × 613 mm
	Cushion	-
Adjust boom cylinder (opt)	Bore dia × Stroke	Ø 100 × 975 mm
	Cushion	-

※ 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.

8) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
HX130LCR	Standard	500 mm (20")	0.42 kgf/cm ² (5.95 psi)	43	2500 mm (8' 2")
	Option	600 mm (24")	0.35 kgf/cm ² (5.02 psi)	43	2600 mm (8' 6")
		700 mm (28")	0.31 kgf/cm ² (4.35 psi)	43	2700 mm (8' 10")
HX130LCRD	Standard	500 mm (20")	0.44 kgf/cm ² (6.28 psi)	43	2500 mm (8' 2")
	Option	600 mm (24")	0.37 kgf/cm ² (5.30 psi)	43	2600 mm (8' 6")

9. RECOMMENDED OILS

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

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

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)									
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)	
Engine oil pan	Engine oil	8.0 (2.1)		★SAE 0W-40								
				★SAE 5W-40								
				SAE 10W-30								
				SAE 10W-40								
				SAE 15W-40								
Swing drive	Gear oil	Type1 : 3.5 (0.9)	★SAE 75W-90									
Final drive		Type2 : 2.5 (0.7)										
		2.3×2 (0.6×2)	SAE 80W-90									
Hydraulic tank	Hydraulic oil	Tank: 96 (25.4)	★ISO VG 15									
			ISO VG 32									
		System: 160 (42.3)	ISO VG 46, HBHO VG 46★ ³									
			ISO VG 68									
Fuel tank	Diesel fuel★ ¹	240 (63.4)	★ASTM D975 NO.1									
			ASTM D975 NO.2									
Fitting (Grease nipple)	Grease	As required	★NLGI NO.1									
			NLGI NO.2									
Radiator (Reservoir tank)	Mixture of antifreeze and soft water★ ²	20 (5.3)	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

★¹ : Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

★² : Soft water

City water or distilled water

★³ : HD Hyundai Construction Equipment

Bio Hydraulic Oil

★ : Cold region (Russia, CIS, Mongolia)

※ 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.