SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-10

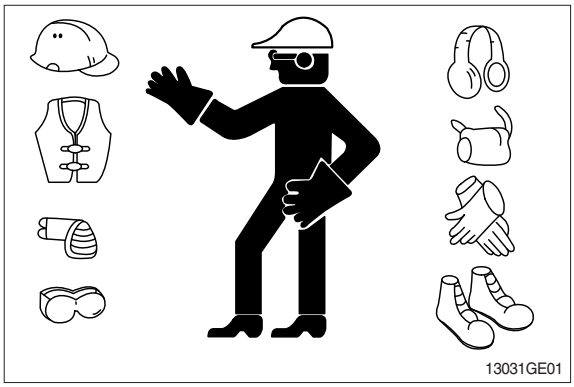
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

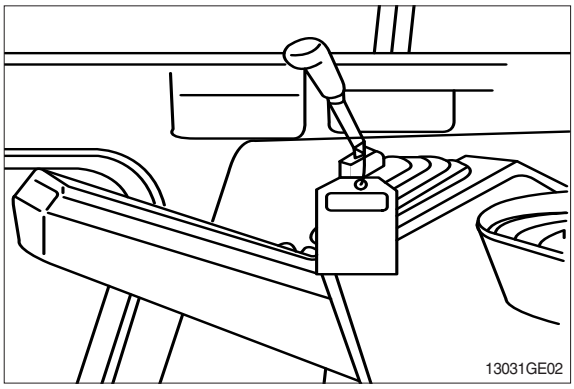
WEAR PROTECTIVE CLOTHING

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



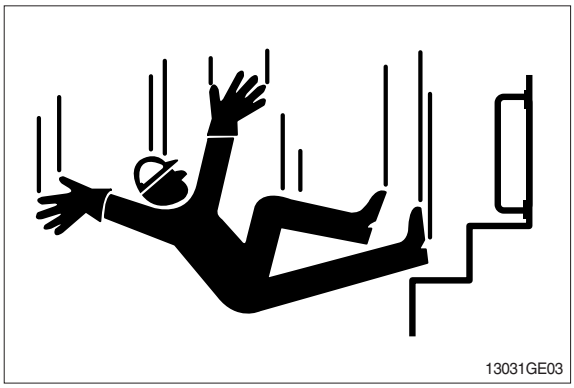
WARN OTHERS OF SERVICE WORK

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.

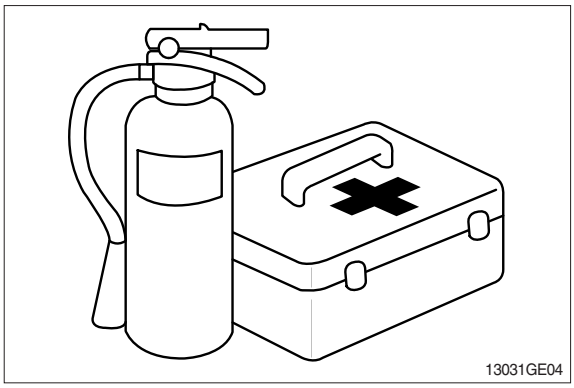


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

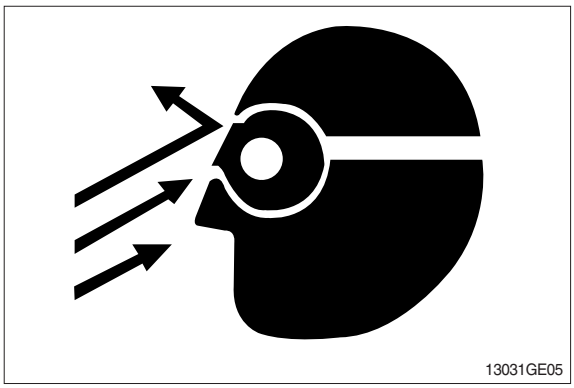
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

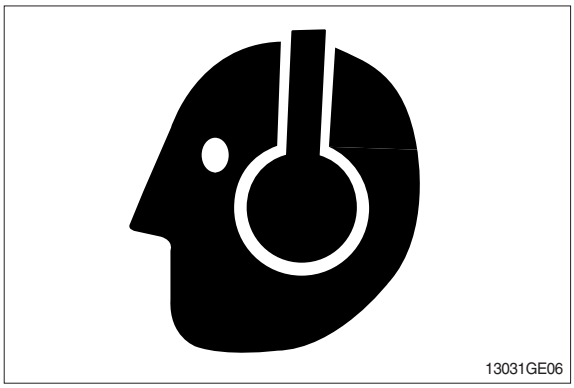
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

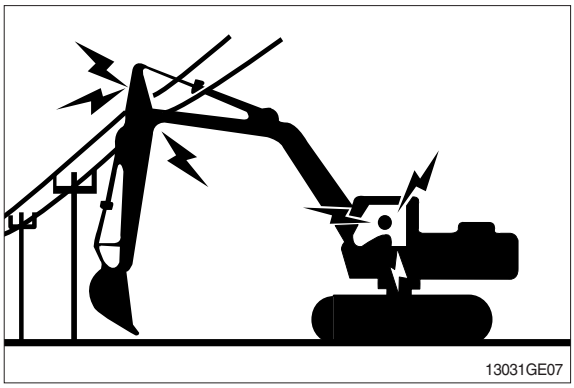
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

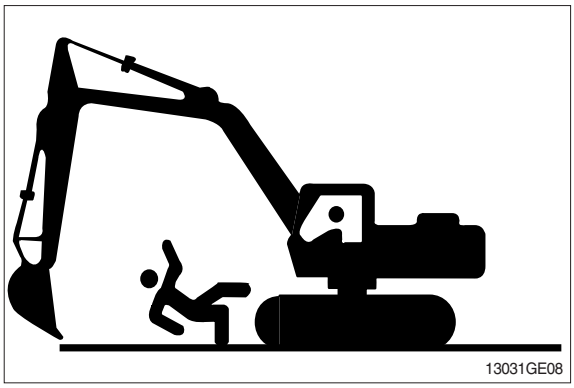
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

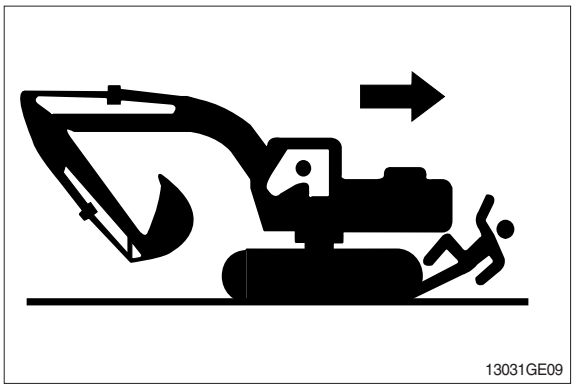

13031GE08

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.

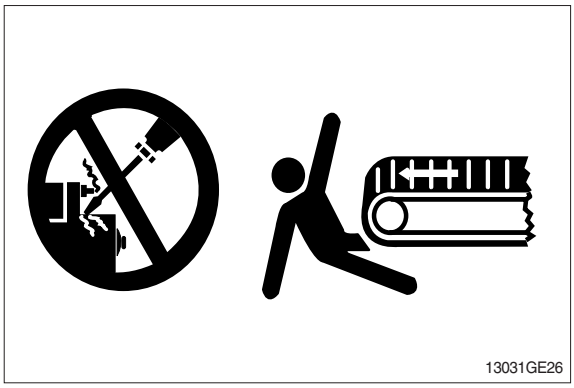
Use a signal person when moving, swinging, or operating the machine in congested areas. Coordinate hand signals before starting the excavator.


13031GE09

OPERATE ONLY FORM 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.


13031GE26

PARK MACHINE SAFELY

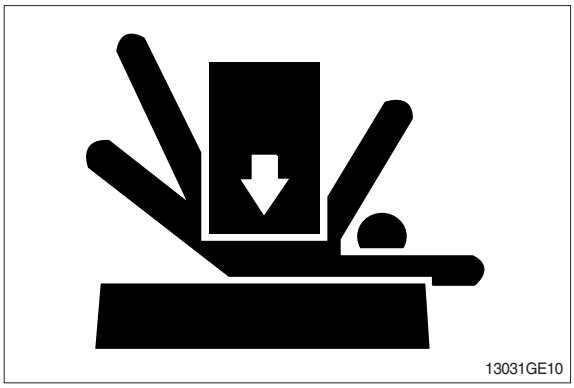
Before working on the machine:

- 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.

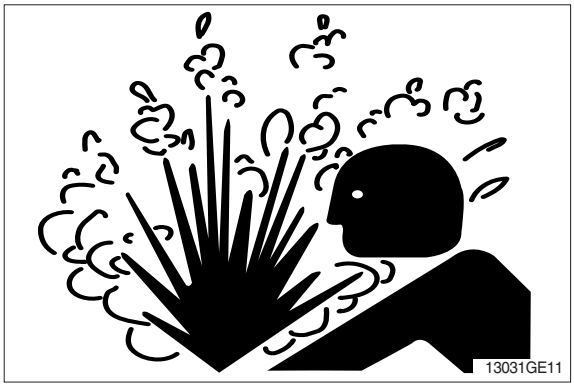
Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load.
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.


13031GE10

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.


13031GE11

HANDLE FLUIDS SAFELY-AVOID FIRES

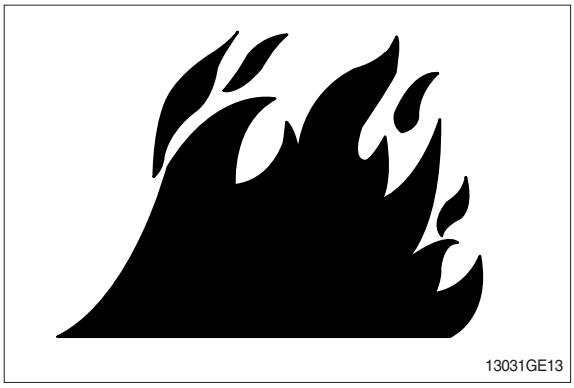
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine.
Fill fuel tank outdoors.


13031GE12

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

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

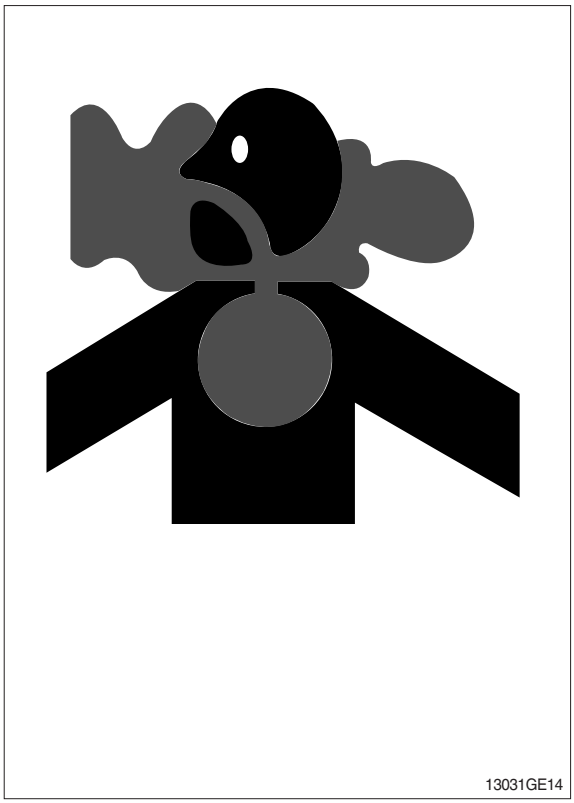
Do not store oily rags; They can ignite and burn spontaneously.


13031GE13

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.


13031GE14

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.

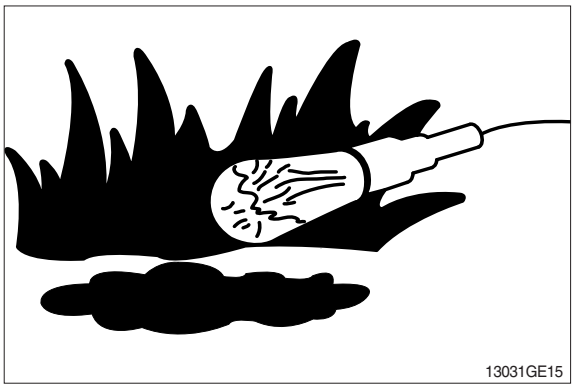
Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

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

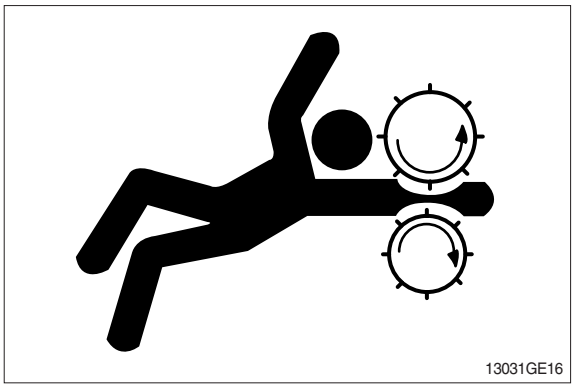
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.


13031GE15

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.

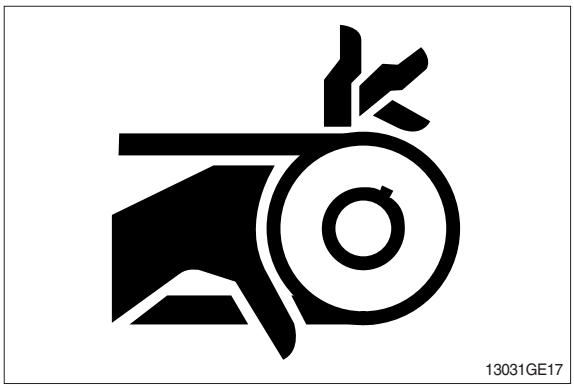
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



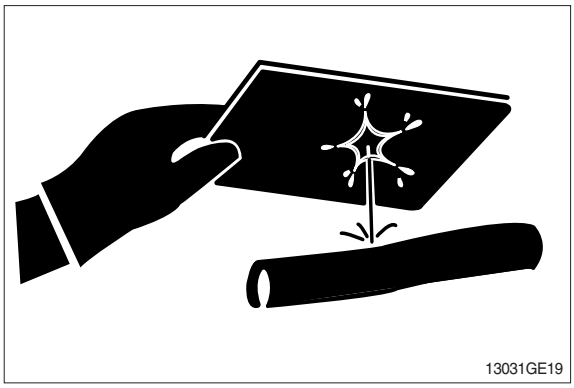
AVOID HIGH PRESSURE FLUIDS

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:

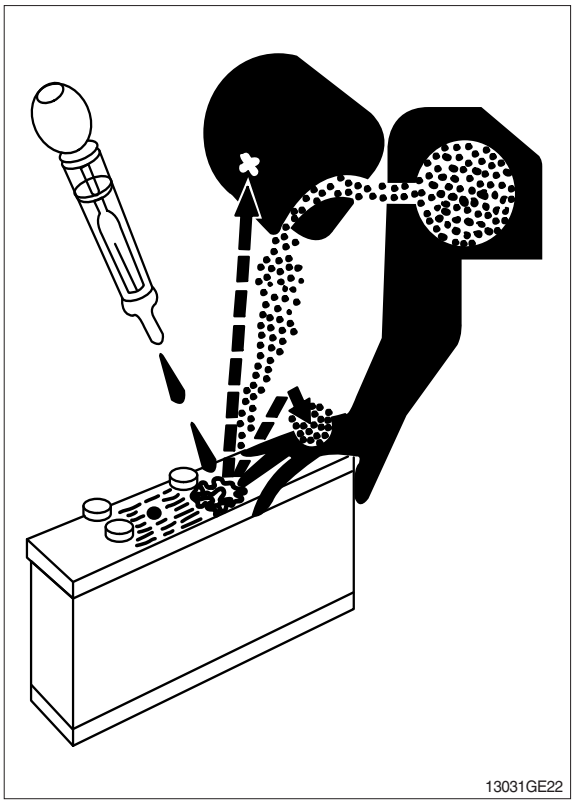
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling of dripping electrolyte.
5. Use proper jump start procedure.

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.



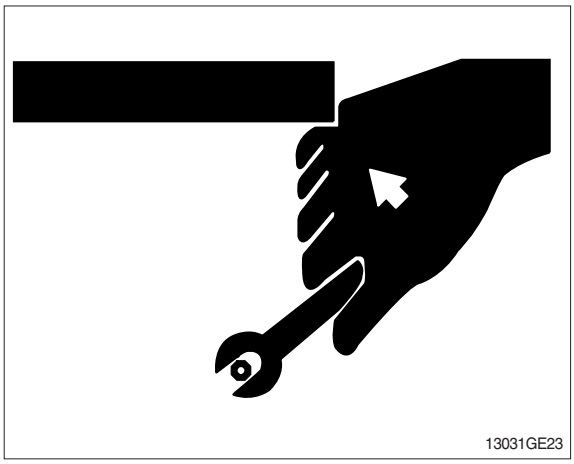
USE TOOLS PROPERLY

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.)

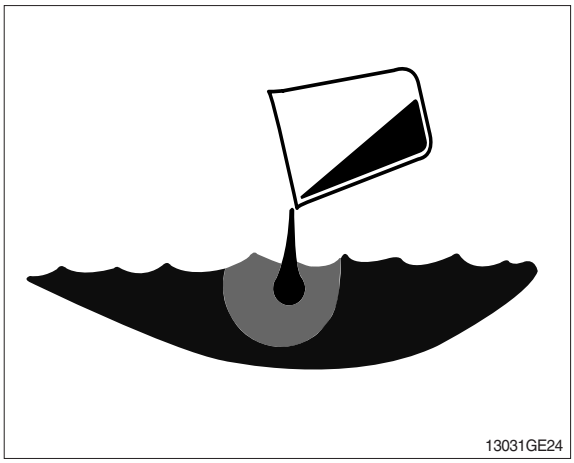


DISPOSE OF FLUIDS PROPERLY

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.

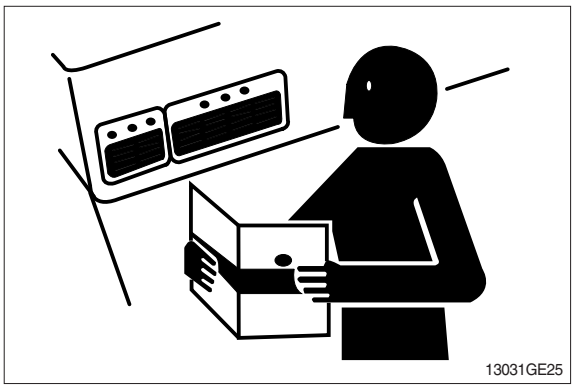
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.


13031GE24

REPLACE SAFETY SIGNS

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

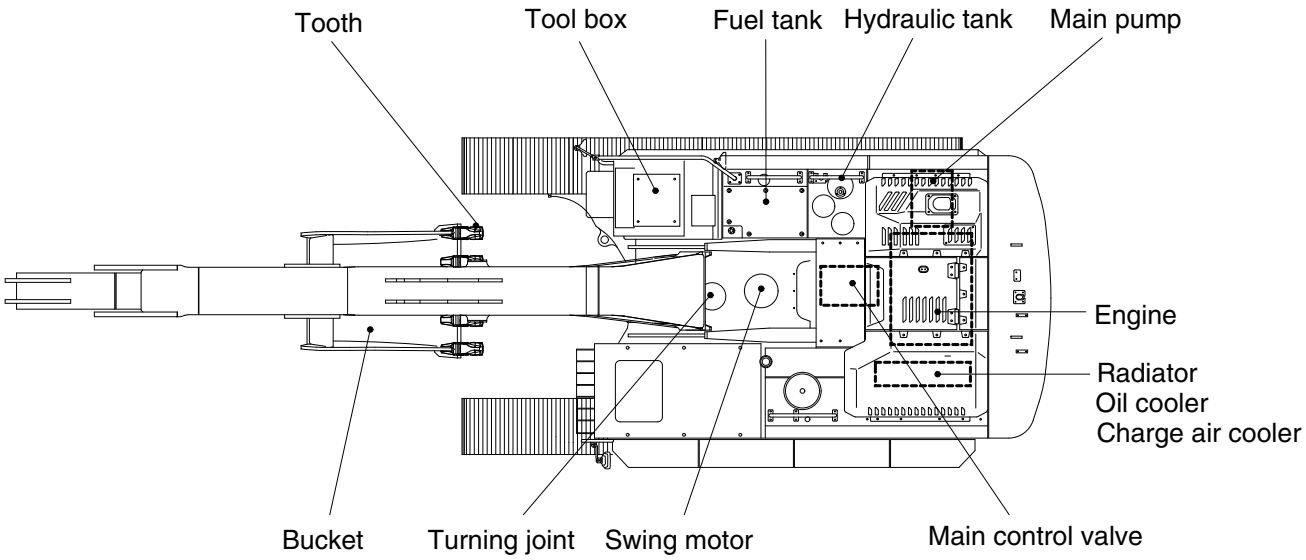

13031GE25

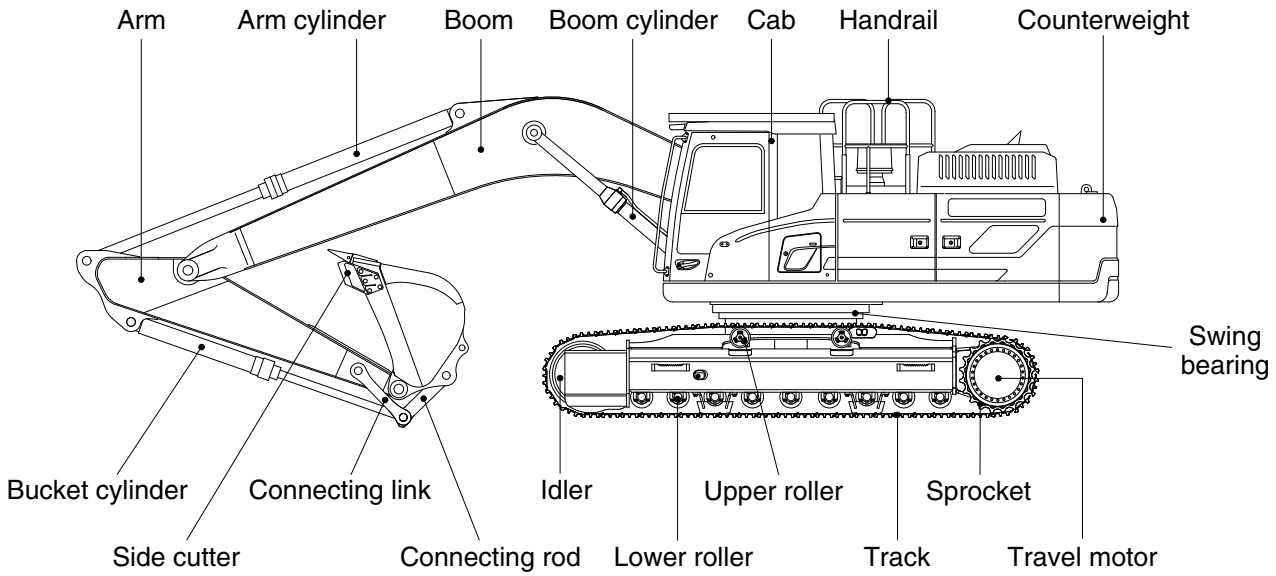
LIVE WITH SAFETY

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

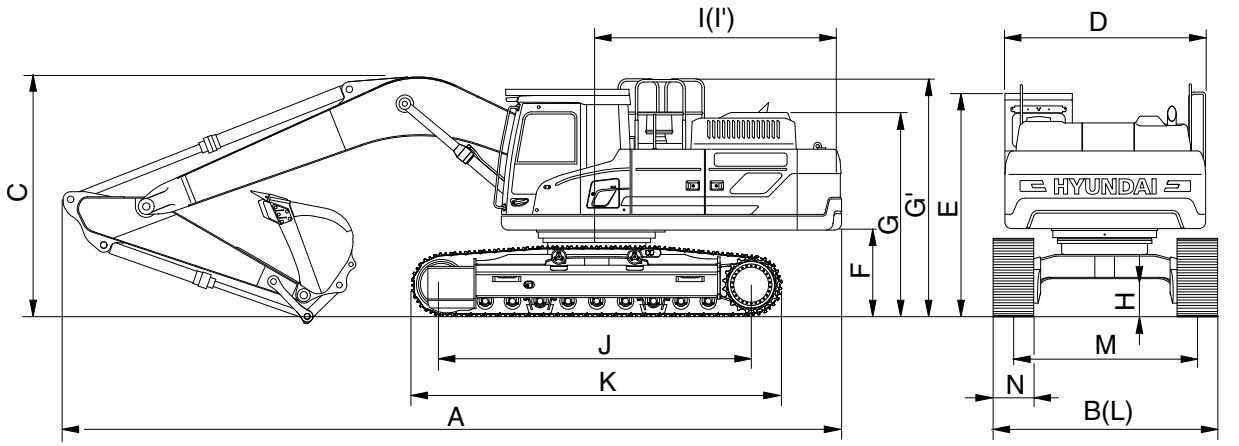




400SA2SP01

2. SPECIFICATIONS

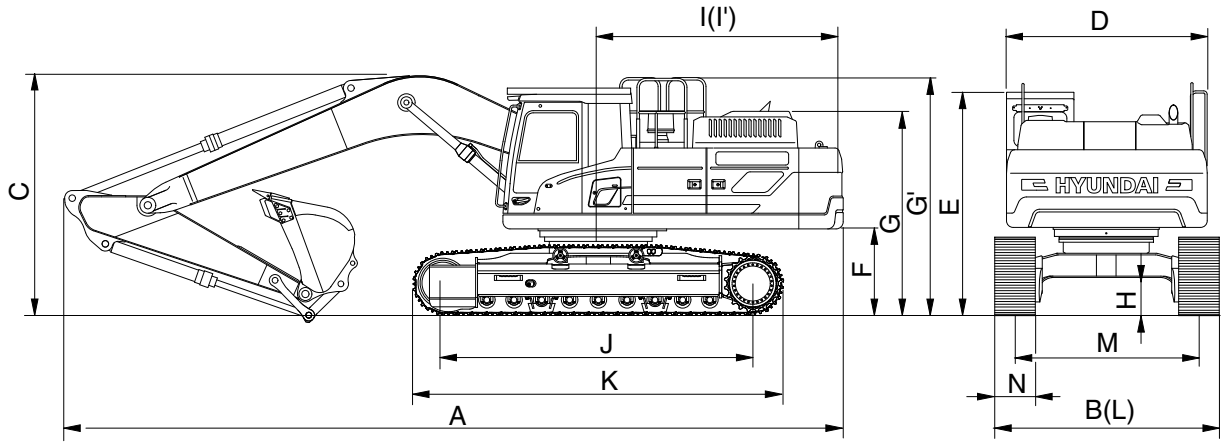
1) HX400 LT3 (1/2)



400SA2SP02

Description		Unit		Specification			
		m (ft-in)	Boom	6.50 (21' 4")			
			Arm	2.55 (8' 4")	2.80 (9' 2")	3.20 (10' 6")	3.90 (12' 10")
		mm (in)	Shoe	600 (24)			
Operating weight		kg (lb)		38300 (84440)	38340 (84530)	38420 (84700)	38510 (84900)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		1.62 (2.12)	1.62 (2.12)	1.62 (2.12)	1.62 (2.12)
Overall length	A	mm (ft-in)		11430 (37' 6")	11430 (37' 6")	11410 (37' 5")	11400 (37' 5")
Overall width	B			3380 (11' 1")	3380 (11' 1")	3380 (11' 1")	3380 (11' 1")
Overall width with additional footboard	B'			3565 (11' 8")	3565 (11' 8")	3565 (11' 8")	3565 (11' 8")
Overall height of boom	C			3670 (12' 0")	3690 (12' 1")	3560 (11' 8")	3690 (12' 1")
Superstructure width (with catwalk)	D			3300 (10' 10")	3300 (10' 10")	3300 (10' 10")	3300 (10' 10")
Superstructure width (with protector)	D			3110 (10' 2")	3110 (10' 2")	3110 (10' 2")	3110 (10' 2")
Overall height of cab	E			3240 (10' 8")	3240 (10' 8")	3240 (10' 8")	3240 (10' 8")
Ground clearance of counterweight	F			1295 (4' 3")	1295 (4' 3")	1295 (4' 3")	1295 (4' 3")
Overall height of engine hood	G			2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Overall height of handrail	G'			3440 (11' 3")	3440 (11' 3")	3440 (11' 3")	3440 (11' 3")
Minimum ground clearance	H			555 (1' 10")	555 (1' 10")	555 (1' 10")	555 (1' 10")
Rear-end distance	I			3555 (11' 8")	3555 (11' 8")	3555 (11' 8")	3555 (11' 8")
Rear-end swing radius	I'			3620 (11' 11")	3620 (11' 11")	3620 (11' 11")	3620 (11' 11")
Distance between tumblers	J			4340 (14' 3")	4340 (14' 3")	4340 (14' 3")	4340 (14' 3")
Undercarriage length (without grouser)	K			5217 (17' 1")	5217 (17' 1")	5217 (17' 1")	5217 (17' 1")
Undercarriage length (with grouser)	K			5289 (17' 4")	5289 (17' 4")	5289 (17' 4")	5289 (17' 4")
Undercarriage width	L			3380 (11' 1")	3380 (11' 1")	3380 (11' 1")	3380 (11' 1")
Undercarriage width with additional footboard	L'			3565 (11' 8")	3565 (11' 8")	3565 (11' 8")	3565 (11' 8")
Track gauge	M			2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")
Track shoe width, standard	N			600 (2' 0")	600 (2' 0")	600 (2' 0")	600 (2' 0")
Travel speed (low/high)		km/hr (mph)		3.2/5.3 (2.0/3.3)	3.2/5.3 (2.0/3.3)	3.2/5.3 (2.0/3.3)	3.2/5.3 (2.0/3.3)
Swing speed		rpm		9.1	9.1	9.1	9.1
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.69 (9.77)	0.69 (9.79)	0.69 (9.80)	0.69 (9.83)
Max traction force		kg (lb)		31613 (69694)	31613 (69694)	31613 (69694)	31613 (69694)

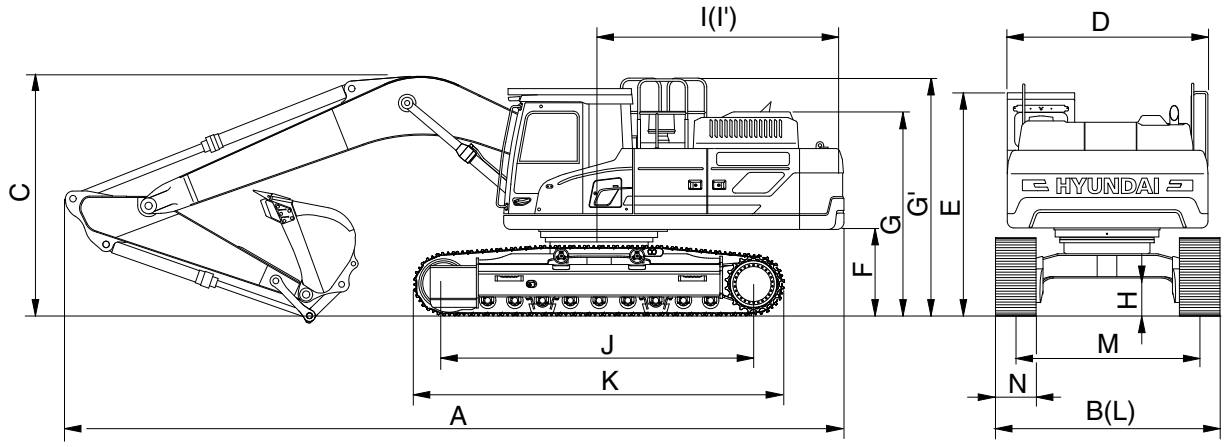
2) HX400 LT3 (2/2)



400SA2SP02

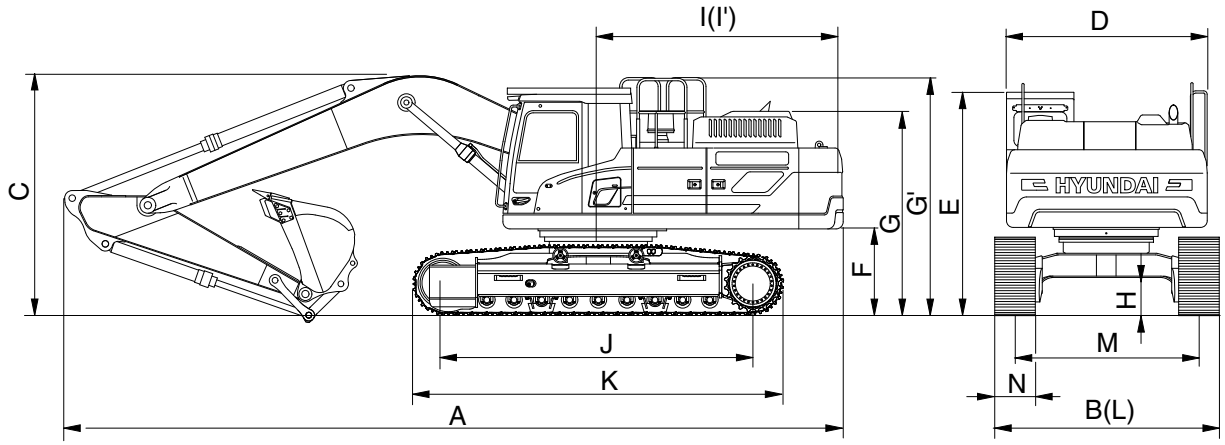
Description		Unit		Specification	
		m (ft-in)	Boom	6.15 (20' 2")	
			Arm	2.55 (8' 4")	2.80 (9' 2")
		mm (in)	Shoe	600 (24)	
Operating weight		kg (lb)		37500 (82670)	37540 (82760)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		1.62 (2.12)	1.62 (2.12)
Overall length	A	mm (ft-in)		11070 (36' 4")	11070 (36' 4")
Overall width	B			3380 (11' 1")	3380 (11' 1")
Overall width with additional footboard	B'			3565 (11' 8")	3565 (11' 8")
Overall height of boom	C			3710 (12' 2")	3720 (12' 2")
Superstructure width (with catwalk)	D			3300 (10' 10")	3300 (10' 10")
Superstructure width (with protector)	D			3110 (10' 2")	3110 (10' 2")
Overall height of cab	E			3240 (10' 8")	3240 (10' 8")
Ground clearance of counterweight	F			1295 (4' 3")	1295 (4' 3")
Overall height of engine hood	G			2770 (9' 1")	2770 (9' 1")
Overall height of handrail	G'			3440 (11' 3")	3440 (11' 3")
Minimum ground clearance	H			555 (1' 10")	555 (1' 10")
Rear-end distance	I			3555 (11' 8")	3555 (11' 8")
Rear-end swing radius	I'			3620 (11' 11")	3620 (11' 11")
Distance between tumblers	J			4340 (14' 3")	4340 (14' 3")
Undercarriage length (without grouser)	K			5217 (17' 1")	5217 (17' 1")
Undercarriage length (with grouser)	K			5289 (17' 4")	5289 (17' 4")
Undercarriage width	L			3380 (11' 1")	3380 (11' 1")
Undercarriage width with additional footboard	L'			3565 (11' 8")	3565 (11' 8")
Track gauge	M			2740 (9' 0")	2740 (9' 0")
Track shoe width, standard	N			600 (2' 0")	600 (2' 0")
Travel speed (low/high)		km/hr (mph)		3.2/5.3 (2.0/3.3)	3.2/5.3 (2.0/3.3)
Swing speed		rpm		9.1	9.1
Gradeability		Degree (%)		35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.67 (9.56)	0.67 (9.57)
Max traction force		kg (lb)		31613 (69694)	31613 (69694)

3) HX400 NLT3 (1/2)



Description		Unit		Specification			
		m (ft-in)	Boom	6.50 (21' 4")			
			Arm	2.55 (8' 4")	2.80 (9' 2")	3.20 (10' 6")	3.90 (12' 10")
		mm (in)	Shoe	600 (24)			
Operating weight		kg (lb)		38890 (85740)	38930 (85830)	39010 (86000)	39100 (86200)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		1.62 (2.12)	1.62 (2.12)	1.62 (2.12)	1.62 (2.12)
Overall length	A	mm (ft-in)		11430 (37' 6")	11430 (37' 6")	11410 (37' 5")	11400 (37' 5")
Overall width (with catwalk)	B			3300 (10' 10")	3300 (10' 10")	3300 (10' 10")	3300 (10' 10")
Overall width (with protector)	B'			3110 (10' 2")	3110 (10' 2")	3110 (10' 2")	3110 (10' 2")
Overall height of boom	C			3670 (12' 0")	3690 (12' 1")	3560 (11' 8")	3690 (12' 1")
Superstructure width (with catwalk)	D			3300 (10' 10")	3300 (10' 10")	3300 (10' 10")	3300 (10' 10")
Superstructure width (with protector)	D			3110 (10' 2")	3110 (10' 2")	3110 (10' 2")	3110 (10' 2")
Overall height of cab	E			3240 (10' 8")	3240 (10' 8")	3240 (10' 8")	3240 (10' 8")
Ground clearance of counterweight	F			1295 (4' 3")	1295 (4' 3")	1295 (4' 3")	1295 (4' 3")
Overall height of engine hood	G			2770 (9' 1")	2770 (9' 1")	2770 (9' 1")	2770 (9' 1")
Overall height of handrail	G'			3440 (11' 3")	3440 (11' 3")	3440 (11' 3")	3440 (11' 3")
Minimum ground clearance	H			555 (1' 10")	555 (1' 10")	555 (1' 10")	555 (1' 10")
Rear-end distance	I			3555 (11' 8")	3555 (11' 8")	3555 (11' 8")	3555 (11' 8")
Rear-end swing radius	I'			3620 (11' 11")	3620 (11' 11")	3620 (11' 11")	3620 (11' 11")
Distance between tumblers	J			4340 (14' 3")	4340 (14' 3")	4340 (14' 3")	4340 (14' 3")
Undercarriage length (without grouser)	K			5217 (17' 1")	5217 (17' 1")	5217 (17' 1")	5217 (17' 1")
Undercarriage length (with grouser)	K			5289 (17' 4")	5289 (17' 4")	5289 (17' 4")	5289 (17' 4")
Undercarriage width	L			3030 (9' 11")	3030 (9' 11")	3030 (9' 11")	3030 (9' 11")
Undercarriage width with additional footboard	L'			3030 (9' 11")	3030 (9' 11")	3030 (9' 11")	3030 (9' 11")
Track gauge	M			2390 (7' 10")	2390 (7' 10")	2390 (7' 10")	2390 (7' 10")
Track shoe width, standard	N			600 (2' 0")	600 (2' 0")	600 (2' 0")	600 (2' 0")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.6	8.6	8.6	8.6
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.70 (9.91)	0.70 (9.93)	0.70 (9.96)	0.70 (9.97)
Max traction force		kg (lb)		34100 (75180)	34100 (75180)	34100 (75180)	34100 (75180)

4) HX400 NLT3 (2/2)

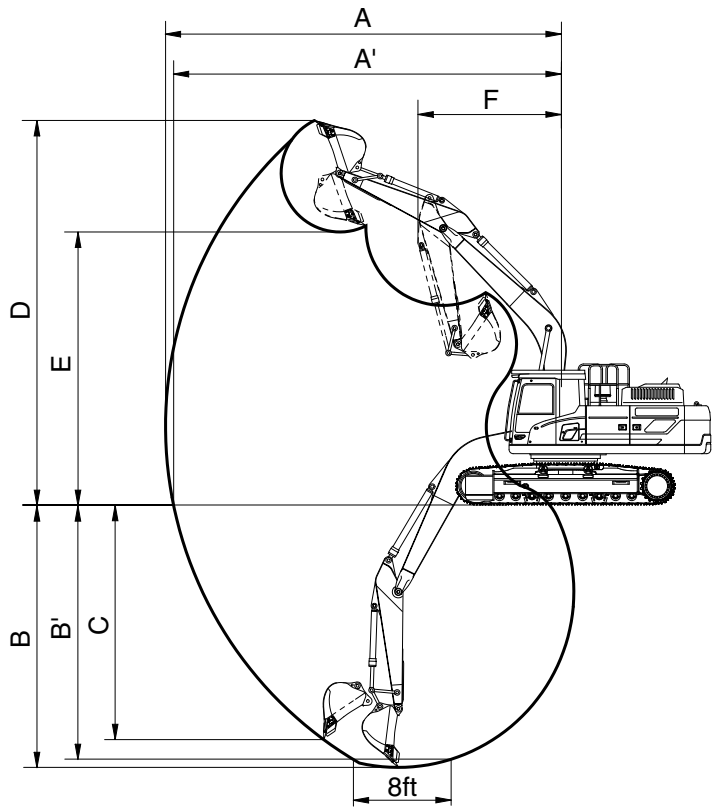


400SA2SP02

Description		Unit		Specification	
		m (ft-in)	Boom	6.15 (20' 2")	
			Arm	2.55 (8' 4")	2.80 (9' 2")
		mm (in)	Shoe	600 (24)	
Operating weight		kg (lb)		38940 (85850)	38980 (85940)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		1.62 (2.12)	1.62 (2.12)
Overall length	A	mm (ft-in)		11070 (36' 4")	11070 (36' 4")
Overall width (with catwalk)	B			3300 (10' 10")	3300 (10' 10")
Overall width (with protector)	B'			3110 (10' 2")	3110 (10' 2")
Overall height of boom	C			3710 (12' 2")	3720 (12' 2")
Superstructure width (with catwalk)	D			3300 (10' 10")	3300 (10' 10")
Superstructure width (with protector)	D			3110 (10' 2")	3110 (10' 2")
Overall height of cab	E			3240 (10' 8")	3240 (10' 8")
Ground clearance of counterweight	F			1295 (4' 3")	1295 (4' 3")
Overall height of engine hood	G			2770 (9' 1")	2770 (9' 1")
Overall height of handrail	G'			3440 (11' 3")	3440 (11' 3")
Minimum ground clearance	H			555 (1' 10")	555 (1' 10")
Rear-end distance	I			3555 (11' 8")	3555 (11' 8")
Rear-end swing radius	I'			3620 (11' 11")	3620 (11' 11")
Distance between tumblers	J			4340 (14' 3")	4340 (14' 3")
Undercarriage length (without grouser)	K			5217 (17' 1")	5217 (17' 1")
Undercarriage length (with grouser)	K			5289 (17' 4")	5289 (17' 4")
Undercarriage width	L			3030 (9' 11")	3030 (9' 11")
Undercarriage width with additional footboard	L'			3030 (9' 11")	3030 (9' 11")
Track gauge	M			2390 (7' 10")	2390 (7' 10")
Track shoe width, standard	N			600 (2' 0")	600 (2' 0")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.6	8.6
Gradeability		Degree (%)		35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.70 (9.93)	0.70 (9.94)
Max traction force		kg (lb)		34100 (75180)	34100 (75180)

3. WORKING RANGE AND DIGGING FORCE

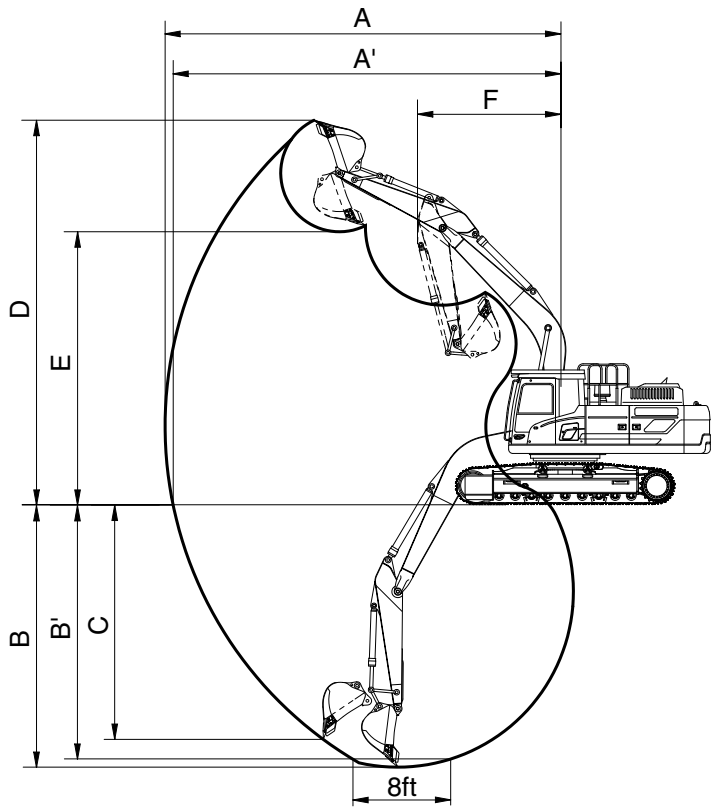
1) HX400 LT3/NLT3 (1/2)



400SA2SP10

Description	m (ft-in)	Boom	6.50 (21' 4")			
		Arm	2.55 (8' 4")	2.80 (9' 2")	3.20 (10' 6")	3.90 (12' 10")
Max digging reach	mm (ft-in)	A	10800 (35' 5")	11040 (36' 3")	11270 (37' 0")	11920 (39' 1")
Max digging reach on ground		A'	10580 (34' 9")	10820 (35' 6")	11050 (36' 3")	11710 (38' 5")
Max digging depth		B	6710 (22' 0")	6960 (22' 10")	7360 (24' 2")	8060 (26' 5")
Max digging depth (8 ft level)		B'	6530 (21' 5")	6780 (22' 3")	7180 (23' 7")	7880 (25' 10")
Max vertical wall digging depth		C	5020 (16' 6")	5230 (17' 2")	4870 (16' 0")	6010 (19' 9")
Max digging height		D	10800 (35' 5")	10940 (35' 11")	10680 (35' 0")	11080 (36' 4")
Max dumping height		E	7480 (24' 6")	7620 (25' 0")	7480 (24' 6")	7810 (25' 7")
Min swing radius		F	4250 (13' 11")	4280 (14' 1")	4310 (14' 2")	4070 (13' 4")
Bucket digging force	kN	SAE	211.8	211.8	211.8	211.8
	kgf		21600	21600	21600	21600
	lbf		47620	47620	47620	47620
	kN	ISO	242.2	242.2	242.2	242.2
	kgf		24700	24700	24700	24700
	lbf		54454	54454	54454	54454
Arm digging force	kN	SAE	197.1	186.3	170.6	146.1
	kgf		20100	19000	17400	14900
	lbf		44313	41888	38360	32849
	kN	ISO	205.0	193.2	176.5	150.0
	kgf		20900	19700	18000	15300
	lbf		46077	43431	39683	33731

2) HX400 LT3/NLT3 (2/2)



400SA2SP10

Description	m (ft-in)	Boom	6.15 (20' 2")	
		Arm	2.55 (8' 4")	2.80 (9' 2")
Max digging reach	mm (ft-in)	A	10430 (34' 3")	10660 (35' 0")
Max digging reach on ground		A'	10190 (33' 5")	10430 (34' 3")
Max digging depth		B	6460 (21' 2")	6710 (22' 0")
Max digging depth (8 ft level)		B'	6290 (20' 8")	6550 (21' 6")
Max vertical wall digging depth		C	4650 (15' 3")	4860 (15' 11")
Max digging height		D	10390 (34' 1")	10510 (34' 6")
Max dumping height		E	7100 (23' 4")	7230 (23' 9")
Min swing radius		F	4100 (13' 5")	4120 (13' 6")
Bucket digging force	kN	SAE	211.8	211.8
	kgf		21600	21600
	lbf		47620	47620
	kN	ISO	242.2	242.2
	kgf		24700	24700
	lbf		54454	54454
Arm digging force	kN	SAE	197.1	186.3
	kgf		20100	19000
	lbf		44313	41888
	kN	ISO	205.0	193.2
	kgf		20900	19700
	lbf		46077	43431

4. WEIGHT

Item	HX400 LT3	
	kg	lb
Upperstructure assembly		
· Main frame weld assembly	3191	7035
· Engine assembly	738	1627
· Main pump assembly	193	425
· Main control valve assembly	380	838
· Swing motor assembly	443	977
· Hydraulic oil tank WA	415	914
· Fuel tank WA	349	769
· Counterweight	6200	13669
· Cab assembly	495	1092
Lower chassis assembly		
· Track frame weld assembly	5236	11543
· Swing bearing	547	1206
· Travel motor assembly	380	838
· Turning joint	37	82
· Sprocket (2EA)	170	375
· Track recoil spring (2EA)	455	1003
· Idler (2EA)	522	1151
· Upper roller (4EA)	80	176
· Lower roller (18EA)	1431	3155
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	5111	11268
· Track-chain assembly (600 mm double grouser shoe) (2EA)	4666	10287
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	5116	11279
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	5564	12266
· Track-chain assembly (900 mm triple grouser shoe) (2EA)	6014	13258
Front attachment assembly		
· 6.50 m boom assembly	3750	8267
· 3.20 m arm assembly	2080	4586
· 1.62 m^3 SAE heaped bucket	1500	3307
· Boom cylinder assembly (2EA)	357	787
· Arm cylinder assembly	447	985
· Bucket cylinder assembly	309	681
· Bucket control linkage total	280	617

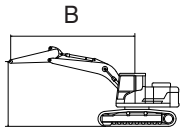
※ This information is different with operating and transportation weight because it is not including harness, pipe, oil, fuel so on.

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

5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6150	2550	6200	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg					*10350	*10350			*10350	8950	6.77
	lb					*22820	*22820			*22820	19730	(22.2)
6.0 m (19.7 ft)	kg					*10870	10850	*10290	7480	*9880	7060	7.74
	lb					*23960	23920	*22690	16490	*21780	15560	(25.4)
4.5 m (14.8 ft)	kg			*15550	*15550	*12260	10350	*10730	7300	*9870	6130	8.32
	lb			*34280	*34280	*27030	22820	*23660	16090	*21760	13510	(27.3)
3.0 m (9.8 ft)	kg			*19270	14810	*13940	9760	*11500	7020	9350	5680	8.60
	lb			*42480	32650	*30730	21520	*25350	15480	20610	12520	(28.2)
1.5 m (4.9 ft)	kg			*17690	14000	*15310	9280	11340	6770	9200	5550	8.61
	lb			*39000	30860	*33750	20460	25000	14930	20280	12240	(28.2)
0.0 m (0.0 ft)	kg			*21680	13760	15800	9020	11170	6620	9560	5730	8.34
	lb			*47800	30340	34830	19890	24630	14590	21080	12630	(27.4)
-1.5 m (-4.9 ft)	kg	*14680	*14680	*20660	13800	*15560	8980	11170	6620	10610	6330	7.78
	lb	*32360	*32360	*45550	30420	*34300	19800	24630	14590	23390	13960	(25.5)
-3.0 m (-9.8 ft)	kg	*24210	*24210	*18310	14070	*13840	9150			*11480	7700	6.83
	lb	*53370	*53370	*40370	31020	*30510	20170			*25310	16980	(22.4)
-4.5 m (-14.8 ft)	kg			*13400	*13400					*10800	*10800	5.31
	lb			*29540	*29540					*23810	*23810	(17.4)

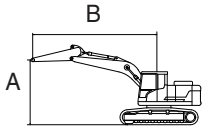
Note 1. Lifting capacity are based on ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.
Lifting capacities will vary with different work tools, ground conditions and attachments.
The difference between the weight of a work tool attachment must be subtracted.
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	2550	6200	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg									*10560	*10560	5.83
	lb									*23280	*23280	(19.1)
7.5 m (24.6 ft)	kg					*9940	*9940			*9950	7930	7.25
	lb					*21910	*21910			*21940	17480	(23.8)
6.0 m (19.7 ft)	kg					*10710	*10710	*9850	7440	*9780	6400	8.16
	lb					*23610	*23610	*21720	16400	*21560	14110	(26.8)
4.5 m (14.8 ft)	kg			*16000	15740	*12200	10160	*10450	7200	9220	5610	8.71
	lb			*35270	34700	*26900	22400	*23040	15870	20330	12370	(28.6)
3.0 m (9.8 ft)	kg					*13890	9520	*11280	6890	8640	5220	8.98
	lb					*30620	20990	*24870	15190	19050	11510	(29.5)
1.5 m (4.9 ft)	kg					*15180	9040	11180	6620	8510	5100	8.99
	lb					*33470	19930	24650	14590	18760	11240	(29.5)
0.0 m (0.0 ft)	kg			*14960	13450	15550	8800	11000	6460	8810	5260	8.73
	lb			*32980	29650	34280	19400	24250	14240	19420	11600	(28.7)
-1.5 m (-4.9 ft)	kg			*20160	13530	*15340	8760	10980	6440	9690	5750	8.2
	lb			*44450	29830	*33820	19310	24210	14200	21360	12680	(26.9)
-3.0 m (-9.8 ft)	kg	*22990	*22990	*18020	13790	*13890	8920			*10660	6860	7.31
	lb	*50680	*50680	*39730	30400	*30620	19670			*23500	15120	(24.0)
-4.5 m (-14.8 ft)	kg			*13990	*13990					*10120	9610	5.92
	lb			*30840	*30840					*22310	21190	(19.4)

Note 1. Lifting capacity are based on ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *Indicates load limited by hydraulic capacity.

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Lifting capacities will vary with different work tools, ground conditions and attachments.
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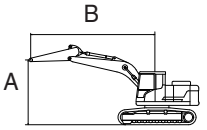
⚠ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessory for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	2800	6200	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg					*9920	*9920					*10030	*10030	6.18
	lb					*21870	*21870					*22110	*22110	(20.3)
7.5 m (24.6 ft)	kg							*9520	7560			*9240	7470	7.54
	lb							*20990	16670			*20370	16470	(24.8)
6.0 m (19.7 ft)	kg					*10320	*10320	*9520	7500			*8880	6100	8.42
	lb					*22750	*22750	*20990	16530			*19580	13450	(27.6)
4.5 m (14.8 ft)	kg			*15300	*15300	*11830	10240	*10190	7240			8840	5380	8.96
	lb			*33730	*33730	*26080	22580	*22470	15960			19490	11860	(29.4)
3.0 m (9.8 ft)	kg					*13580	9590	*11070	6910	8630	5210	8310	5010	9.22
	lb					*29940	21140	*24410	15230	19030	11490	18320	11050	(30.2)
1.5 m (4.9 ft)	kg					*14980	9080	11200	6630	8490	5080	8180	4900	9.22
	lb					*33030	20020	24690	14620	18720	11200	18030	10800	(30.3)
0.0 m (0.0 ft)	kg			*15760	13420	15550	8790	10990	6440			8450	5040	8.98
	lb			*34740	29590	34280	19380	24230	14200			18630	11110	(29.4)
-1.5 m (-4.9 ft)	kg	*10800	*10800	*20480	13460	*15440	8720	10930	6400			9220	5480	8.45
	lb	*23810	*23810	*45150	29670	*34040	19220	24100	14110			20330	12080	(27.7)
-3.0 m (-9.8 ft)	kg	*21330	*21330	*18540	13690	*14200	8850	*10690	6550			*10420	6450	7.6
	lb	*47020	*47020	*40870	30180	*31310	19510	*23570	14440			*22970	14220	(24.9)
-4.5 m (-14.8 ft)	kg			*14890	14170	*10950	9250					*10090	8740	6.27
	lb			*32830	31240	*24140	20390					*22240	19270	(20.6)

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.

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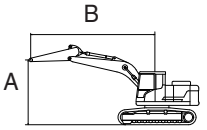
⚠ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessory for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	3200	6200	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*8330	*8330	6.52
	lb											*18360	*18360	(21.4)
7.5 m (24.6 ft)	kg							*8790	7710			*7740	7130	7.82
	lb							*19380	17000			*17060	15720	(25.7)
6.0 m (19.7 ft)	kg					*9680	*9680	*9010	7590			*7570	5870	8.67
	lb					*21340	*21340	*19860	16730			*16690	12940	(28.4)
4.5 m (14.8 ft)	kg			*14200	*14200	*11230	10380	*9750	7310	8830	5390	*7670	5190	9.19
	lb			*31310	*31310	*24760	22880	*21500	16120	19470	11880	*16910	11440	(30.2)
3.0 m (9.8 ft)	kg			*18040	14800	*13050	9710	*10700	6960	8660	5230	8010	4830	9.44
	lb			*39770	32630	*28770	21410	*23590	15340	19090	11530	17660	10650	(31.0)
1.5 m (4.9 ft)	kg			*18170	13780	*14600	9140	11220	6650	8480	5070	7870	4710	9.45
	lb			*40060	30380	*32190	20150	24740	14660	18700	11180	17350	10380	(31.0)
0.0 m (0.0 ft)	kg			*19360	13400	*15470	8790	10970	6430	8370	4970	8090	4810	9.21
	lb			*42680	29540	*34110	19380	24180	14180	18450	10960	17840	10600	(30.2)
-1.5 m (-4.9 ft)	kg	*12640	*12640	*20840	13360	15410	8670	10870	6340			8770	5190	8.70
	lb	*27870	*27870	*45940	29450	33970	19110	23960	13980			19330	11440	(28.5)
-3.0 m (-9.8 ft)	kg	*20920	*20920	*19230	13530	*14600	8740	10960	6410			10230	6030	7.87
	lb	*46120	*46120	*42390	29830	*32190	19270	24160	14130			22550	13290	(25.8)
-4.5 m (-14.8 ft)	kg	*21490	*21490	*16120	13950	*12130	9040					*10550	7940	6.60
	lb	*47380	*47380	*35540	30750	*26740	19930					*23260	17500	(21.7)

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.

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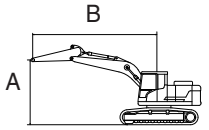
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	3900	6200	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
9.0 m (29.5 ft)	kg													*6170	*6170	7.44
	lb													*13600	*13600	(24.4)
7.5 m (24.6 ft)	kg									*7750	*7750			*5790	*5790	8.60
	lb									*17090	*17090			*12760	*12760	(28.2)
6.0 m (19.7 ft)	kg									*8140	7780	*7110	5640	*5670	5210	9.38
	lb									*17950	17150	*15670	12430	*12500	11490	(30.8)
4.5 m (14.8 ft)	kg							*10130	*10130	*8980	7470	*8340	5500	*5740	4660	9.86
	lb							*22330	*22330	*19800	16470	*18390	12130	*12650	10270	(32.4)
3.0 m (9.8 ft)	kg					*16220	15440	*12080	9970	*10040	7090	8750	5310	*5970	4360	10.10
	lb					*35760	34040	*26630	21980	*22130	15630	19290	11710	*13160	9610	(33.1)
1.5 m (4.9 ft)	kg					*19460	14160	*13870	9320	*11070	6730	8530	5110	*6390	4250	10.10
	lb					*42900	31220	*30580	20550	*24410	14840	18810	11270	*14090	9370	(33.1)
0.0 m (0.0 ft)	kg			*7130	*7130	*20850	13500	*15090	8870	11010	6450	8350	4950	*7080	4310	9.88
	lb			*15720	*15720	*45970	29760	*33270	19550	24270	14220	18410	10910	*15610	9500	(32.4)
-1.5 m (-4.9 ft)	kg	*7910	*7910	*11810	*11810	*21200	13280	15400	8640	10840	6300	8270	4880	7770	4590	9.41
	lb	*17440	*17440	*26040	*26040	*46740	29280	33950	19050	23900	13890	18230	10760	17130	10120	(30.9)
-3.0 m (-9.8 ft)	kg	*12870	*12870	*17720	*17720	*20200	13340	*15100	8620	10830	6290			8810	5200	8.65
	lb	*28370	*28370	*39070	*39070	*44530	29410	*33290	19000	23880	13870			19420	11460	(28.4)
-4.5 m (-14.8 ft)	kg			*24910	*24910	*17880	13640	*13490	8800	*10030	6480			*9990	6470	7.52
	lb			*54920	*54920	*39420	30070	*29740	19400	*22110	14290			*22020	14260	(24.7)
-6.0 m (-19.7 ft)	kg					*13310	*13310							*9880	9810	5.78
	lb					*29340	*29340							*21780	21630	(19.0)

Note 1. Lifting capacity are based on ISO 10567.

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4. *Indicates load limited by hydraulic capacity.

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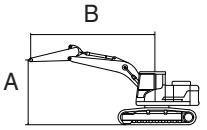
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400 NLT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6150	2550	7000	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg					*10350	10180			*10350	8230	6.77
	lb					*22820	22440			*22820	18140	(22.2)
6.0 m (19.7 ft)	kg					*10870	9940	*10290	6880	*9880	6500	7.74
	lb					*23960	21910	*22690	15170	*21780	14330	(25.4)
4.5 m (14.8 ft)	kg			*15550	14560	*12260	9460	*10730	6710	*9870	5640	8.32
	lb			*34280	32100	*27030	20860	*23660	14790	*21760	12430	(27.3)
3.0 m (9.8 ft)	kg			*19270	13260	*13940	8890	*11500	6440	9780	5220	8.60
	lb			*42480	29230	*30730	19600	*25350	14200	21560	11510	(28.2)
1.5 m (4.9 ft)	kg			*17690	12490	*15310	8430	11870	6200	9640	5090	8.61
	lb			*39000	27540	*33750	18580	26170	13670	21250	11220	(28.2)
0.0 m (0.0 ft)	kg			*21680	12260	*15910	8180	11700	6050	10020	5250	8.34
	lb			*47800	27030	*35080	18030	25790	13340	22090	11570	(27.4)
-1.5 m (-4.9 ft)	kg	*14680	*14680	*20660	12310	*15560	8140	11700	6050	11120	5790	7.78
	lb	*32360	*32360	*45550	27140	*34300	17950	25790	13340	24520	12760	(25.5)
-3.0 m (-9.8 ft)	kg	*24210	*24210	*18310	12560	*13840	8300			*11480	7030	6.83
	lb	*53370	*53370	*40370	27690	*30510	18300			*25310	15500	(22.4)
-4.5 m (-14.8 ft)	kg			*13400	13120					*10800	10390	5.31
	lb			*29540	28920					*23810	22910	(17.4)

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400 NLT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	2550	7000	600	-	-	-	-	-

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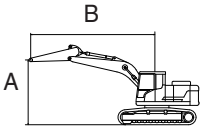

Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
9.0 m (29.5 ft)	kg									*10560	10560	5.83
	lb									*23280	23280	(19.1)
7.5 m (24.6 ft)	kg					*9940	*9940			*9950	7300	7.25
	lb					*21910	*21910			*21940	16090	(23.8)
6.0 m (19.7 ft)	kg					*10710	9830	*9850	6850	*9780	5890	8.16
	lb					*23610	21670	*21720	15100	*21560	12990	(26.8)
4.5 m (14.8 ft)	kg			*16000	14130	*12200	9270	*10450	6610	9650	5160	8.71
	lb			*35270	31150	*26900	20440	*23040	14570	21270	11380	(28.6)
3.0 m (9.8 ft)	kg					*13890	8660	*11280	6310	9060	4790	8.98
	lb					*30620	19090	*24870	13910	19970	10560	(29.5)
1.5 m (4.9 ft)	kg					*15180	8200	11710	6050	8930	4680	8.99
	lb					*33470	18080	25820	13340	19690	10320	(29.5)
0.0 m (0.0 ft)	kg			*14960	11970	*15700	7960	11530	5890	9240	4810	8.73
	lb			*32980	26390	*34610	17550	25420	12990	20370	10600	(28.7)
-1.5 m (-4.9 ft)	kg			*20160	12040	*15340	7930	11510	5870	10150	5260	8.20
	lb			*44450	26540	*33820	17480	25380	12940	22380	11600	(26.9)
-3.0 m (-9.8 ft)	kg	*22990	*22990	*18020	12290	*13890	8080			*10660	6260	7.31
	lb	*50680	*50680	*39730	27090	*30620	17810			*23500	13800	(24.0)
-4.5 m (-14.8 ft)	kg			*13990	12800					*10120	8720	5.92
	lb			*30840	28220					*22310	19220	(19.4)

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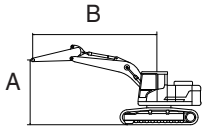
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400 NLT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	2800	7000	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg					*9920	*9920					*10030	9630	6.18
	lb					*21870	*21870					*22110	21230	(20.3)
7.5 m (24.6 ft)	kg							*9520	6960			*9240	6880	7.54
	lb							*20990	15340			*20370	15170	(24.8)
6.0 m (19.7 ft)	kg					*10320	9910	*9520	6900			*8880	5620	8.42
	lb					*22750	21850	*20990	15210			*19580	12390	(27.6)
4.5 m (14.8 ft)	kg			*15300	14350	*11830	9350	*10190	6650			*8860	4940	8.96
	lb			*33730	31640	*26080	20610	*22470	14660			*19530	10890	(29.4)
3.0 m (9.8 ft)	kg					*13580	8720	*11070	6330	9040	4780	8710	4600	9.22
	lb					*29940	19220	*24410	13960	19930	10540	19200	10140	(30.2)
1.5 m (4.9 ft)	kg					*14980	8230	11720	6050	8900	4660	8580	4490	9.22
	lb					*33030	18140	25840	13340	19620	10270	18920	9900	(30.3)
0.0 m (0.0 ft)	kg			*15760	11940	*15630	7960	11520	5870			8860	4610	8.98
	lb			*34740	26320	*34460	17550	25400	12940			19530	10160	(29.4)
-1.5 m (-4.9 ft)	kg	*10800	*10800	*20480	11980	*15440	7890	11460	5830			9670	5010	8.45
	lb	*23810	*23810	*45150	26410	*34040	17390	25260	12850			21320	11050	(27.7)
-3.0 m (-9.8 ft)	kg	*21330	*21330	*18540	12190	*14200	8010	*10690	5980			*10420	5890	7.60
	lb	*47020	*47020	*40870	26870	*31310	17660	*23570	13180			*22970	12990	(24.9)
-4.5 m (-14.8 ft)	kg			*14890	12650	*10950	8400					*10090	7950	6.27
	lb			*32830	27890	*24140	18520					*22240	17530	(20.6)

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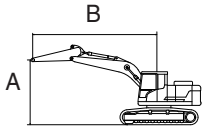
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400 NLT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	3200	7000	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*8330	*8330	6.52
	lb											*18360	*18360	(21.4)
7.5 m (24.6 ft)	kg							*8790	7100			*7740	6570	7.82
	lb							*19380	15650			*17060	14480	(25.7)
6.0 m (19.7 ft)	kg					*9680	*9680	*9010	6990			*7570	5410	8.67
	lb					*21340	*21340	*19860	15410			*16690	11930	(28.4)
4.5 m (14.8 ft)	kg			*14200	*14200	*11230	9480	*9750	6710	*8980	4950	*7670	4770	9.19
	lb			*31310	*31310	*24760	20900	*21500	14790	*19800	10910	*16910	10520	(30.2)
3.0 m (9.8 ft)	kg			*18040	13240	*13050	8830	*10700	6380	9070	4800	*8020	4430	9.44
	lb			*39770	29190	*28770	19470	*23590	14070	20000	10580	*17680	9770	(31.0)
1.5 m (4.9 ft)	kg			*18170	12280	*14600	8280	*11580	6070	8900	4650	8260	4310	9.45
	lb			*40060	27070	*32190	18250	*25530	13380	19620	10250	18210	9500	(31.0)
0.0 m (0.0 ft)	kg			*19360	11910	*15470	7950	11500	5860	8780	4540	8490	4400	9.21
	lb			*42680	26260	*34110	17530	25350	12920	19360	10010	18720	9700	(30.2)
-1.5 m (-4.9 ft)	kg	*12640	*12640	*20840	11870	*15510	7830	11400	5770			9200	4740	8.70
	lb	*27870	*27870	*45940	26170	*34190	17260	25130	12720			20280	10450	(28.5)
-3.0 m (-9.8 ft)	kg	*20920	*20920	*19230	12040	*14600	7900	*11250	5840			*10440	5500	7.87
	lb	*46120	*46120	*42390	26540	*32190	17420	*24800	12870			*23020	12130	(25.8)
-4.5 m (-14.8 ft)	kg	*21490	*21490	*16120	12430	*12130	8190					*10550	7230	6.60
	lb	*47380	*47380	*35540	27400	*26740	18060					*23260	15940	(21.7)

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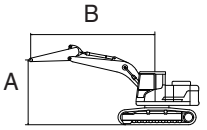
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX400 NLT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	3900	7000	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
																m (ft)
9.0 m (29.5 ft)	kg													*6170	*6170	7.44
	lb													*13600	*13600	(24.4)
7.5 m (24.6 ft)	kg									*7750	7330			*5790	5680	8.60
	lb									*17090	16160			*12760	12520	(28.2)
6.0 m (19.7 ft)	kg									*8140	7170	*7110	5190	*5670	4790	9.38
	lb									*17950	15810	*15670	11440	*12500	10560	(30.8)
4.5 m (14.8 ft)	kg							*10130	9780	*8980	6870	*8340	5060	*5740	4280	9.86
	lb							*22330	21560	*19800	15150	*18390	11160	*12650	9440	(32.4)
3.0 m (9.8 ft)	kg					*16220	13840	*12080	9090	*10040	6500	*8890	4870	*5970	4000	10.10
	lb					*35760	30510	*26630	20040	*22130	14330	*19600	10740	*13160	8820	(33.1)
1.5 m (4.9 ft)	kg					*19460	12630	*13870	8460	*11070	6150	8940	4680	*6390	3890	10.10
	lb					*42900	27840	*30580	18650	*24410	13560	19710	10320	*14090	8580	(33.1)
0.0 m (0.0 ft)	kg			*7130	*7130	*20850	12000	*15090	8020	11540	5880	8770	4520	*7080	3940	9.88
	lb			*15720	*15720	*45970	26460	*33270	17680	25440	12960	19330	9960	*15610	8690	(32.4)
-1.5 m (-4.9 ft)	kg	*7910	*7910	*11810	*11810	*21200	11800	*15530	7800	11370	5730	8690	4450	8160	4190	9.41
	lb	*17440	*17440	*26040	*26040	*46740	26010	*34240	17200	25070	12630	19160	9810	17990	9240	(30.9)
-3.0 m (-9.8 ft)	kg	*12870	*12870	*17720	*17720	*20200	11860	*15100	7780	11360	5720			9250	4740	8.65
	lb	*28370	*28370	*39070	*39070	*44530	26150	*33290	17150	25040	12610			20390	10450	(28.4)
-4.5 m (-14.8 ft)	kg			*24910	24030	*17880	12140	*13490	7960	*10030	5910			*9990	5890	7.52
	lb			*54920	52980	*39420	26760	*29740	17550	*22110	13030			*22020	12990	(24.7)
-6.0 m (-19.7 ft)	kg					*13310	12720							*9880	8890	5.78
	lb					*29340	28040							*21780	19600	(19.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.
Lifting capacities will vary with different work tools, ground conditions and attachments.
The difference between the weight of a work tool attachment must be subtracted.
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

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

6. BUCKET SELECTION GUIDE

1) HX400 LT3

(1) 6200 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				
						Recommendation mm (ft-in)				
	SAE Heaped	CECE heaped	w/o side cutter			6.15 m (20' 2")	6.50 m (21' 4")			
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4")	2.55 m (8' 4")	2.80 m (9' 2")	3.20 m (10' 6")	3.90 m (12' 10")
General bucket	1.46 (1.91)	1.28 (1.67)	1305 (51)	1400 (3,090)	4	●	●	●	●	◐
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1500 (3,310)	5	●	●	●	◐	■
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1610 (3,550)	5	●	◐	◐	■	▲
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1690 (3,730)	5	◐	■	■	■	▲
	2.32 (3.03)	2.02 (2.64)	1885 (74)	1800 (3,970)	6	■	■	▲	▲	X
Heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1560 (3,440)	4	●	●	●	●	◐
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1660 (3,660)	5	●	●	●	◐	■
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1790 (3,950)	5	●	◐	■	■	▲
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1880 (4,140)	5	◐	■	■	■	▲
	2.5 (3.27)	2.22 (2.90)	1750 (69)	2020 (4,450)	5	■	▲	▲	▲	X
Rock heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1750 (3,860)	4	●	●	●	●	–
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1850 (4,080)	5	●	●	◐	◐	–
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1990 (4,390)	5	◐	◐	■	■	–
	2.1 (2.75)	1.84 (2.41)	1735 (68)	2090 (4,610)	5	◐	■	■	▲	–

● Applicable for materials with density of 2100 kg/m^3 (3500 lb/yd^3) or less

◐ Applicable for materials with density of 1800 kg/m^3 (3000 lb/yd^3) or less

■ Applicable for materials with density of 1500 kg/m^3 (2500 lb/yd^3) or less

▲ Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less

X Not recommended

\- Not available

※ 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 with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom−arm−bucket combination.

(2) 7000 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				
						Recommendation mm (ft-in)				
	SAE Heaped	CECE heaped	w/o side cutter			6.15 m (20' 2")	6.50 m (21' 4")			
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4")	2.55 m (8' 4")	2.80 m (9' 2")	3.20 m (10' 6")	3.90 m (12' 10")
General bucket	1.46 (1.91)	1.28 (1.67)	1305 (51)	1400 (3,090)	4	●	●	●	●	●
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1500 (3,310)	5	●	●	●	●	◐
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1610 (3,550)	5	●	●	◐	◐	■
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1690 (3,730)	5	●	◐	■	■	▲
	2.32 (3.03)	2.02 (2.64)	1885 (74)	1800 (3,970)	6	◐	■	■	■	▲
Heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1560 (3,440)	4	●	●	●	●	●
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1660 (3,660)	5	●	●	●	●	◐
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1790 (3,950)	5	●	◐	◐	◐	■
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1880 (4,140)	5	◐	◐	■	■	▲
	2.5 (3.27)	2.22 (2.90)	1750 (69)	2020 (4,450)	5	■	■	▲	▲	X
Rock heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1750 (3,860)	4	●	●	●	●	–
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1850 (4,080)	5	●	●	●	●	–
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1990 (4,390)	5	●	◐	◐	■	–
	2.1 (2.75)	1.84 (2.41)	1735 (68)	2090 (4,610)	5	◐	■	■	■	–

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

※ 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 with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom−arm−bucket combination.

(3) 7500 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				
						Recommendation mm (ft-in)				
	SAE Heaped	CECE heaped	w/o side cutter			6.15 m (20' 2")	6.50 m (21' 4")			
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4")	2.55 m (8' 4")	2.80 m (9' 2")	3.20 m (10' 6")	3.90 m (12' 10")
General bucket	1.46 (1.91)	1.28 (1.67)	1305 (51)	1400 (3,090)	4	●	●	●	●	●
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1500 (3,310)	5	●	●	●	●	◐
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1610 (3,550)	5	●	●	●	◐	■
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1690 (3,730)	5	●	◐	◐	◐	■
	2.32 (3.03)	2.02 (2.64)	1885 (74)	1800 (3,970)	6	◐	■	■	■	▲
Heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1560 (3,440)	4	●	●	●	●	●
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1660 (3,660)	5	●	●	●	●	◐
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1790 (3,950)	5	●	●	◐	◐	■
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1880 (4,140)	5	●	◐	◐	■	▲
	2.5 (3.27)	2.22 (2.90)	1750 (69)	2020 (4,450)	5	■	■	▲	▲	▲
Rock heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1750 (3,860)	4	●	●	●	●	–
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1850 (4,080)	5	●	●	●	●	–
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1990 (4,390)	5	●	◐	◐	◐	–
	2.1 (2.75)	1.84 (2.41)	1735 (68)	2090 (4,610)	5	◐	◐	■	■	–

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

※ 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 with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom−arm−bucket combination.

(4) 8100 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				
						Recommendation mm (ft-in)				
	SAE Heaped	CECE heaped	w/o side cutter			6.15 m (20' 2")	6.50 m (21' 4")			
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4")	2.55 m (8' 4")	2.80 m (9' 2")	3.20 m (10' 6")	3.90 m (12' 10")
General bucket	1.46 (1.91)	1.28 (1.67)	1305 (51)	1400 (3,090)	4	●	●	●	●	●
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1500 (3,310)	5	●	●	●	●	●
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1610 (3,550)	5	●	●	●	●	◐
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1690 (3,730)	5	●	●	◐	◐	■
	2.32 (3.03)	2.02 (2.64)	1885 (74)	1800 (3,970)	6	◐	◐	■	■	▲
Heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1560 (3,440)	4	●	●	●	●	●
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1660 (3,660)	5	●	●	●	●	●
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1790 (3,950)	5	●	●	●	◐	■
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1880 (4,140)	5	●	◐	◐	◐	■
	2.5 (3.27)	2.22 (2.90)	1750 (69)	2020 (4,450)	5	◐	■	■	■	▲
Rock heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1750 (3,860)	4	●	●	●	●	–
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1850 (4,080)	5	●	●	●	●	–
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1990 (4,390)	5	●	●	●	◐	–
	2.1 (2.75)	1.84 (2.41)	1735 (68)	2090 (4,610)	5	●	◐	◐	■	–

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

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Select an optimum combination according to the working conditions and the type of work that is being done.
Consult with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom−arm−bucket combination.

2) HX400 NLT3

(1) 7000 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				
						Recommendation mm (ft-in)				
	SAE Heaped	CECE heaped	w/o side cutter			6.15 m (20' 2")	6.50 m (21' 4")			
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4")	2.55 m (8' 4")	2.80 m (9' 2")	3.20 m (10' 6")	3.90 m (12' 10")
General bucket	1.46 (1.91)	1.28 (1.67)	1305 (51)	1400 (3,090)	4	●	●	●	●	◐
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1500 (3,310)	5	●	◐	◐	◐	■
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1610 (3,550)	5	◐	■	■	■	▲
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1690 (3,730)	5	■	■	▲	▲	X
	2.32 (3.03)	2.02 (2.64)	1885 (74)	1800 (3,970)	6	■	▲	▲	▲	X
Heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1560 (3,440)	4	●	●	●	◐	■
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1660 (3,660)	5	●	◐	◐	◐	■
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1790 (3,950)	5	◐	■	■	▲	▲
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1880 (4,140)	5	■	▲	▲	▲	X
	2.5 (3.27)	2.22 (2.90)	1750 (69)	2020 (4,450)	5	▲	▲	X	X	X
Rock heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1750 (3,860)	4	●	●	◐	◐	–
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1850 (4,080)	5	●	◐	◐	■	–
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1990 (4,390)	5	◐	■	■	▲	–
	2.1 (2.75)	1.84 (2.41)	1735 (68)	2090 (4,610)	5	■	▲	▲	▲	–

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

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(2) 7500 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				
						Recommendation mm (ft-in)				
	SAE Heaped	CECE heaped	w/o side cutter			6.15 m (20' 2")	6.50 m (21' 4")			
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4")	2.55 m (8' 4")	2.80 m (9' 2")	3.20 m (10' 6")	3.90 m (12' 10")
General bucket	1.46 (1.91)	1.28 (1.67)	1305 (51)	1400 (3,090)	4	●	●	●	●	◐
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1500 (3,310)	5	●	●	◐	◐	■
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1610 (3,550)	5	◐	◐	■	■	▲
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1690 (3,730)	5	◐	■	■	▲	▲
	2.32 (3.03)	2.02 (2.64)	1885 (74)	1800 (3,970)	6	■	▲	▲	▲	X
Heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1560 (3,440)	4	●	●	●	●	◐
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1660 (3,660)	5	●	●	◐	◐	■
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1790 (3,950)	5	◐	■	■	■	▲
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1880 (4,140)	5	■	■	▲	▲	X
	2.5 (3.27)	2.22 (2.90)	1750 (69)	2020 (4,450)	5	▲	▲	▲	X	X
Rock heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1750 (3,860)	4	●	●	●	◐	–
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1850 (4,080)	5	●	◐	◐	◐	–
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1990 (4,390)	5	◐	■	■	■	–
	2.1 (2.75)	1.84 (2.41)	1735 (68)	2090 (4,610)	5	■	■	▲	▲	–

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

※ These recommendations are for general conditions and average use.
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Select an optimum combination according to the working conditions and the type of work that is being done.
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(3) 8100 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO				
						Recommendation mm (ft-in)				
	SAE Heaped	CECE heaped	w/o side cutter			6.15 m (20' 2")	6.50 m (21' 4")			
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4")	2.55 m (8' 4")	2.80 m (9' 2")	3.20 m (10' 6")	3.90 m (12' 10")
General bucket	1.46 (1.91)	1.28 (1.67)	1305 (51)	1400 (3,090)	4	●	●	●	●	◐
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1500 (3,310)	5	●	●	●	●	◐
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1610 (3,550)	5	●	◐	◐	■	■
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1690 (3,730)	5	◐	■	■	■	▲
	2.32 (3.03)	2.02 (2.64)	1885 (74)	1800 (3,970)	6	■	■	▲	▲	X
Heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1560 (3,440)	4	●	●	●	●	◐
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1660 (3,660)	5	●	●	●	◐	■
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1790 (3,950)	5	●	◐	■	■	▲
	2.1 (2.75)	1.84 (2.41)	1735 (68)	1880 (4,140)	5	◐	■	■	■	▲
	2.5 (3.27)	2.22 (2.90)	1750 (69)	2020 (4,450)	5	■	▲	▲	▲	X
Rock heavy duty	1.46 (1.91)	1.28 (1.67)	1305 (51)	1750 (3,860)	4	●	●	●	●	–
	1.62 (2.12)	1.42 (1.86)	1415 (56)	1850 (4,080)	5	●	●	◐	◐	–
	1.9 (2.49)	1.65 (2.16)	1600 (63)	1990 (4,390)	5	◐	◐	■	■	–
	2.1 (2.75)	1.84 (2.41)	1735 (68)	2090 (4,610)	5	◐	■	■	▲	–

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

※ 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 with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom−arm−bucket combination.

7. UNDERCARRIAGE

1) TYPES OF SHOES

Model	Description	Unit		Triple grouser								Double grouser	
	width	mm	(in)	600	(24)	700	(28)	800	(32)	900	(36)	700	(28)
HX400 LT3	Operating weight	kg	(lb)	38420	84700	38870	85690	39320	86690	39780	87700	38360	84570
	Ground pressure	kgf/cm²	(psi)	0.69	9.80	0.60	8.49	0.53	7.52	0.48	6.77	0.69	9.79
	Overall width	mm	(ft-in)	3180	(10' 5")	3180	(10' 5")	3180	(10' 5")	3180	(10' 5")	3180	(10' 5")
	Link quantity	EA		51		51		51		51		51	
HX400 T3	Operating weight	kg	(lb)	39510	87100							39450	86970
	Ground pressure	kgf/cm²	(psi)	0.71	10.08							0.71	10.06
	Overall width	mm	(ft-in)	3180	(10' 5")							3180	(10' 5")
	Link quantity	EA		51								51	

2) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

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

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

Table 1

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
700 mm triple grouser	Option	B
800 mm triple grouser	Option	C
900 mm triple grouser	Option	C
600 mm double grouser	Option	C

Table 2

Category	Applications	Precautions
A	Rocky ground, river beds, normal soil	· 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	· 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)	· Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B · These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees · Travel at high speed only on flat ground · Travel slowly at low speed if it is impossible to avoid going over obstacles

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Maker / Model	HD Hyundai Construction Equipment / HE8.9
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	114 × 145 mm (4.49" × 5.69")
Displacement	8.9 ℓ (543 cu in)
Compression ratio	17.8 : 1
Gross power	280 Hp (209 kW) at 2000 rpm
Net power	275 Hp (205 kW) at 2200 rpm
Max. power	310 Hp (231 kW) at 1700 rpm
Peak Torque	1451 N·m (1070 lbf·ft) at 1400 rpm
Engine oil quantity	30 ℓ (7.9 U.S. gal)
Wet weight	738 kg (1627 lb)
Starter motor	24 V-7.8 kW
Alternator	24 V-95 A

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 185 cc/rev
Maximum pressure	350 kgf/cm^2 (4980 psi)
Rated oil flow	2 × 315 ℓ/min (83.2 U.S. gpm / 69.3 U.K. gpm)

[ ] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm^2 (569 psi)
Rated oil flow	25.5 ℓ/min (6.7 U.S. gpm/5.6 U.K. gpm)

4) MAIN CONTROL VALVE

Item		Specification
Type		9 spools three-block
Operating method		Hydraulic pilot system
Main relief valve pressure		350 kgf/cm^2 (4980 psi)
Port relief valve pressure	Boom	400 kgf/cm^2 (5690 psi)
	Arm	400 kgf/cm^2 (5690 psi)
	Bucket	400 kgf/cm^2 (5690 psi)

5) SWING MOTOR

Item		Specification
Type		Two fixed displacement axial piston motor
Capacity		240 cc/rev
Relief pressure		290 kgf/cm^2 (4125 psi)
Braking system		Automatic, spring applied hydraulic released
Braking torque		137 kgf · m (991 lbf · ft) over
Brake release pressure	Cracking	9 kgf/cm^2 (128 psi)
	Full stroke	26 kgf/cm^2 (370 psi)
Reduction gear type		2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Capacity	185/114 cc/rev
Relief pressure	350 kgf/cm^2 (4980 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	57.1 kgf · m (413 lbf · ft)
Brake release pressure	10.6 kgf/cm^2 (150 psi)
Reduction gear type	2-stage planetary

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø160 × 1500 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø170 × 1750 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	Ø150 × 1285 mm
	Cushion	Extend only

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

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

9. RECOMMENDED OILS

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

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

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature ˚C(˚F) -50 (-58) -30 (-22) -20 (-4) -10 (14) 0 (32) 10 (50) 20 (68) 30 (86) 40 (104)
Engine oil pan	Engine oil	30 (7.9)	★SAE 0W-30 SAE 5W-30 SAE 10W-30 SAE 15W-40
Swing drive	Gear oil	7.4 (1.96)	★SAE 75W-90
Final drive		5.5×2 (1.45×2)	SAE 80W-90
Hydraulic tank	Hydraulic oil	Tank 210 (55.3) System 414 (109)	★ISO VG 15 ISO VG 32 ISO VG 46 ISO VG 68
Fuel tank	Diesel fuel	600 (159)	★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	33 (8.7)	Ethylene glycol base permanent type (50 : 50) ★Ethylene glycol base permanent type (60 : 40)

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

★ : Cold region (Russia, CIS, Mongolia)

★1 : Soft water
City water or distilled water

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

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

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