

# SECTION 1 GENERAL

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# SECTION 1 GENERAL

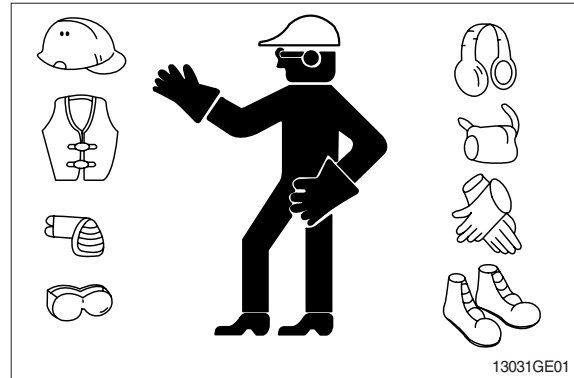
## GROUP 1 SAFETY

### FOLLOW SAFE PROCEDURE

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

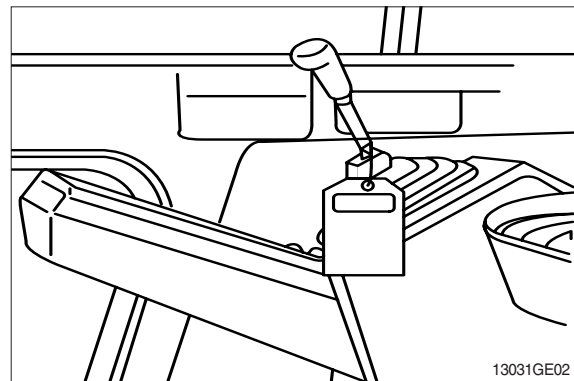
### WEAR PROTECTIVE CLOTHING

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



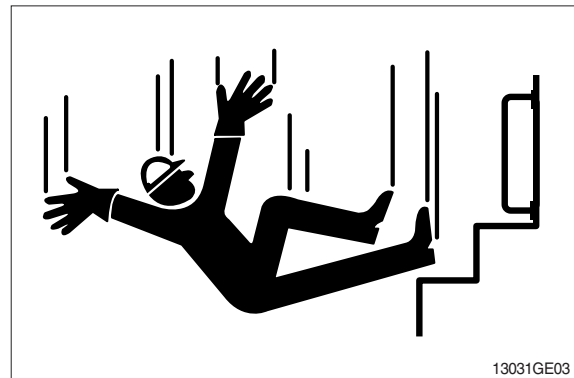
### WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury. Before performing any work on the excavator, attach a 「Do Not Operate」 tag on the right side control lever.



### USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury. When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds. Never jump on or off the machine. Never mount or dismount a moving machine. Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.

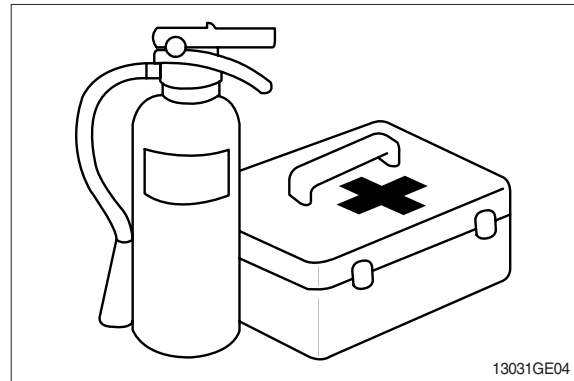


## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

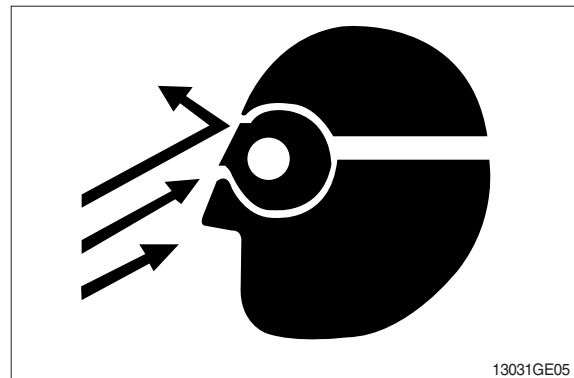
Keep a first aid kit and fire extinguisher handy.

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



## PROTECT AGAINST FLYING DEBRIS

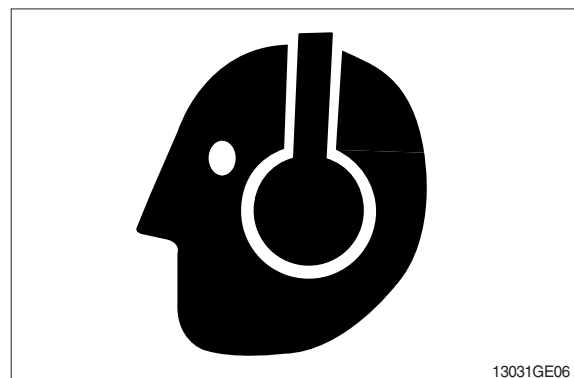
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



## PROTECT AGAINST NOISE

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

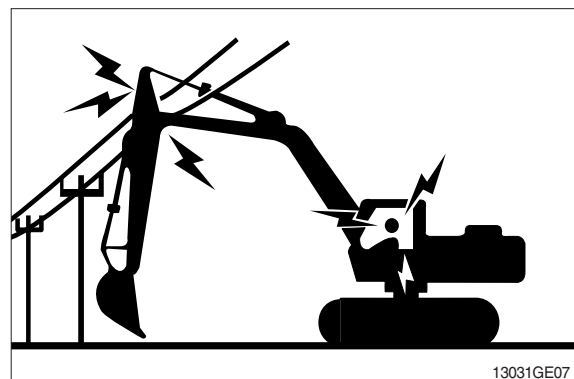
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



## AVOID POWER LINES

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

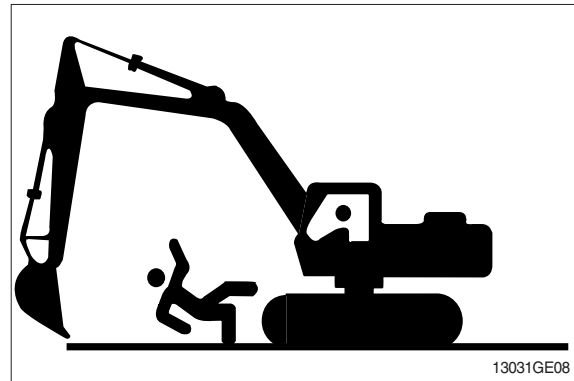
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



## KEEP RIDERS OFF EXCAVATOR

Only allow the operator on the excavator. Keep riders off.

Riders on excavator are subject to injury such as being struck by foreign objects and being thrown off the excavator. Riders also obstruct the operator's view resulting in the excavator being operated in an unsafe manner.

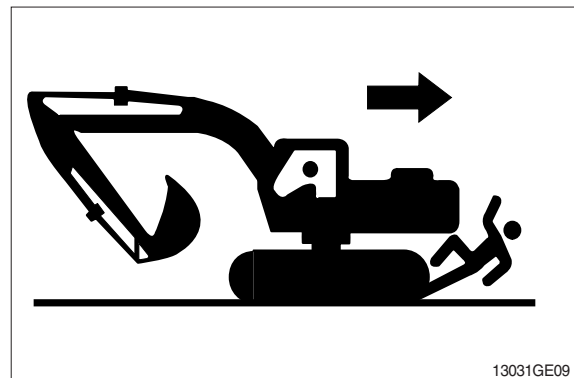


## MOVE AND OPERATE MACHINE SAFELY

Bystanders can be run over. Know the location of bystanders before moving, swinging, or operating the machine.

Always keep the travel alarm in working condition. It warns people when the excavator starts to move.

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



## OPERATE ONLY FROM OPERATOR'S SEAT

Avoid possible injury machine damage. Do not start engine by shorting across starter terminals.

NEVER start engine while standing on ground. Start engine only from operator's seat.



## PARK MACHINE SAFELY

Before working on the machine:

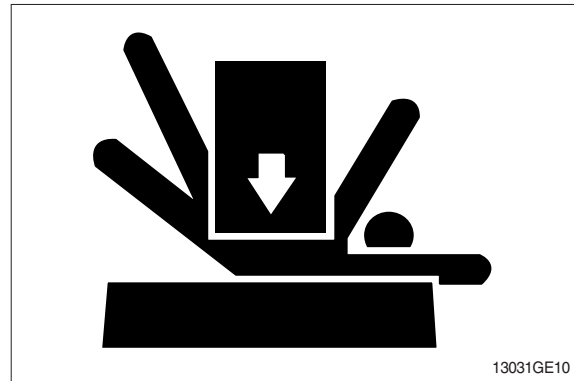
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

## SUPPORT MACHINE PROPERLY

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

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

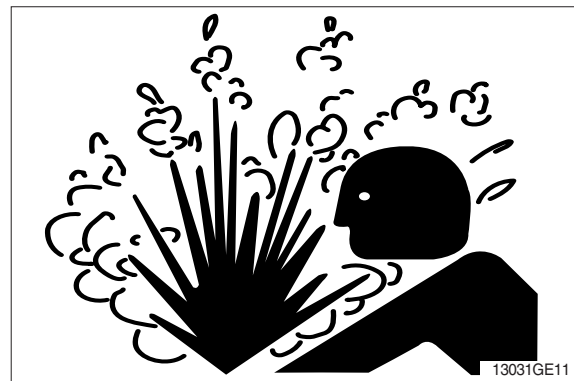
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



## SERVICE COOLING SYSTEM SAFELY

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

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



## HANDLE FLUIDS SAFELY-AVOID FIRES

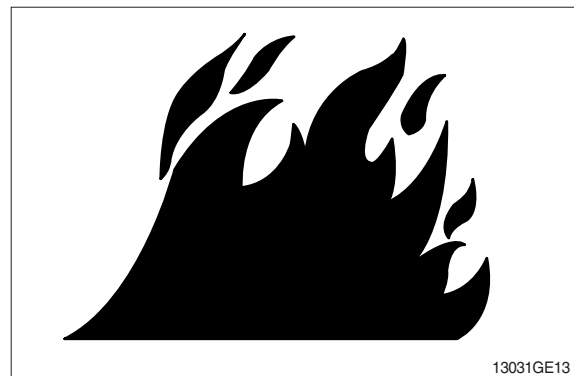
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

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

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



## BEWARE OF EXHAUST FUMES

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

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

## REMOVE PAINT BEFORE WELDING OR HEATING

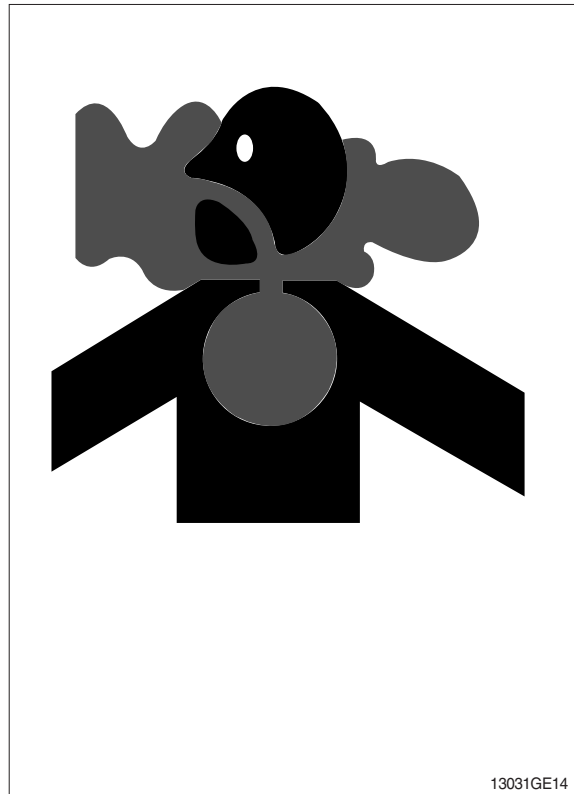
Avoid potentially toxic fumes and dust.

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

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

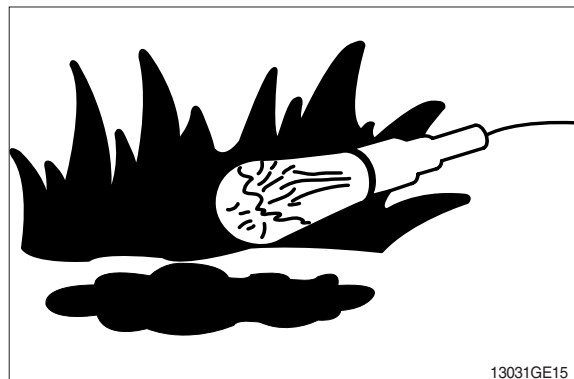
Remove paint before welding or heating:

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



## ILLUMINATE WORK AREA SAFELY

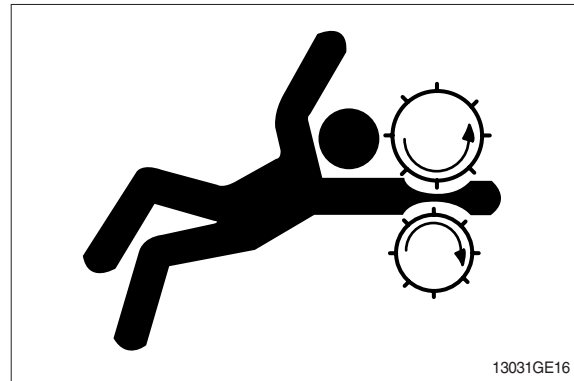
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



## SERVICE MACHINE SAFELY

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

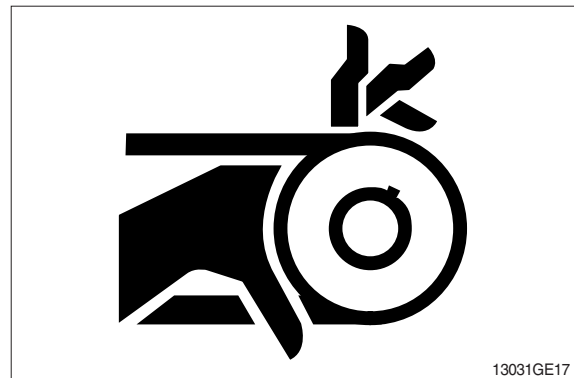
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



## STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



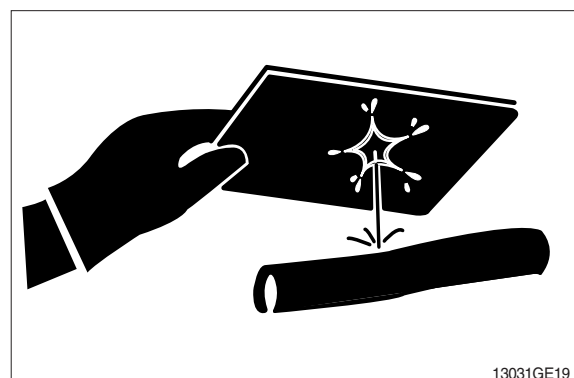
## AVOID HIGH PRESSURE FLUIDS

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

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

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

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



## AVOID HEATING NEAR PRESSURIZED FLUID LINES

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

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



## PREVENT BATTERY EXPLOSIONS

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

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

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





## PREVENT ACID BURNS

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

Avoid the hazard by:

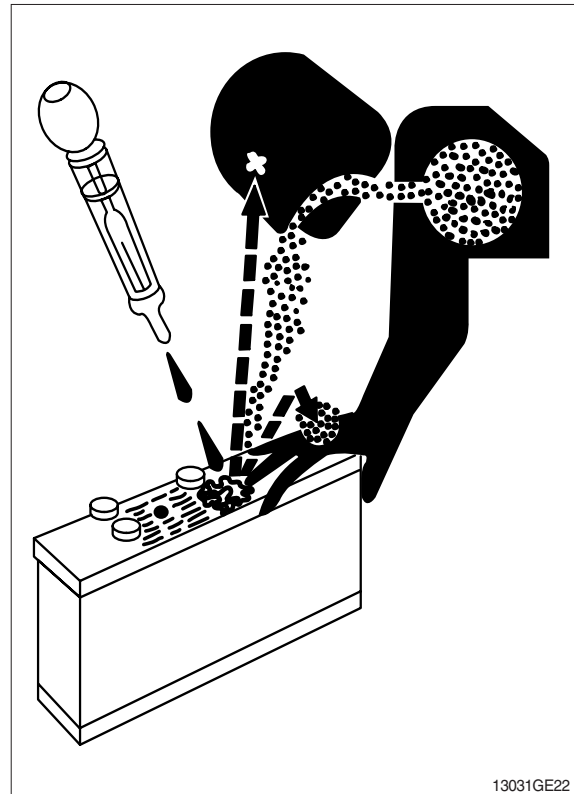
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

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

If acid is swallowed:

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



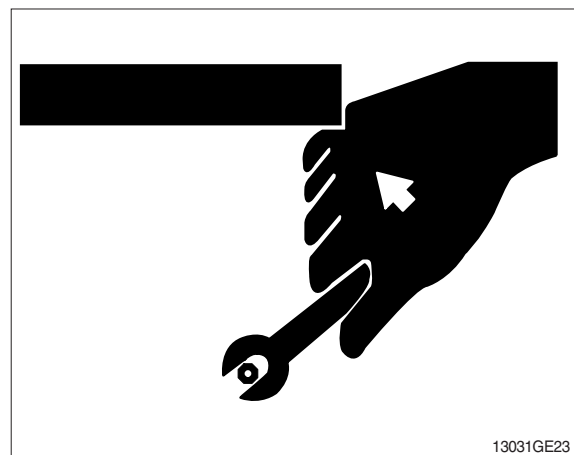
## USE TOOLS PROPERLY

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

Use power tools only to loosen threaded tools and fasteners.

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

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

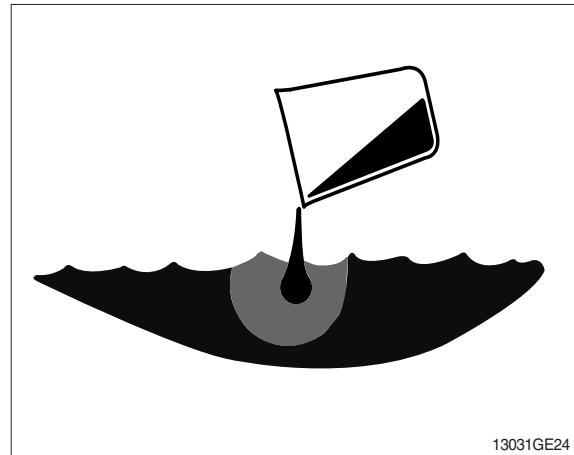


## DISPOSE OF FLUIDS PROPERLY

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.

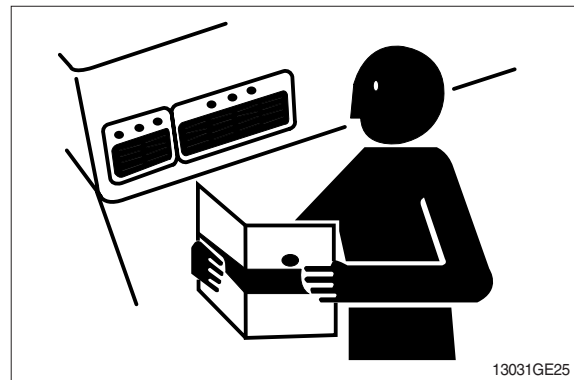
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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 SIGNS

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

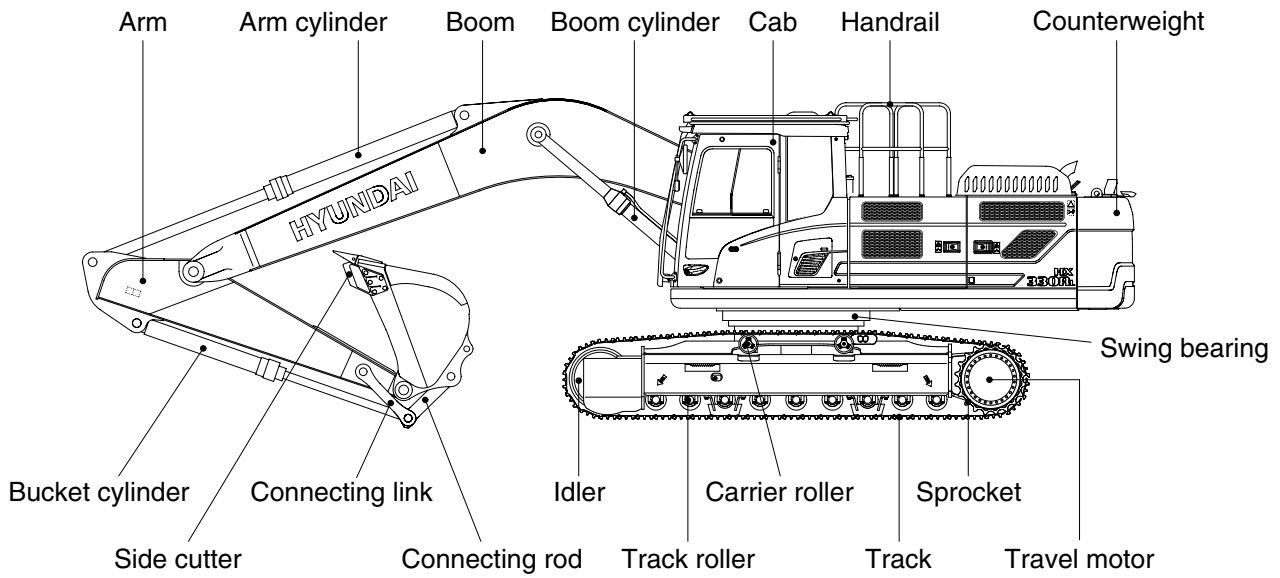
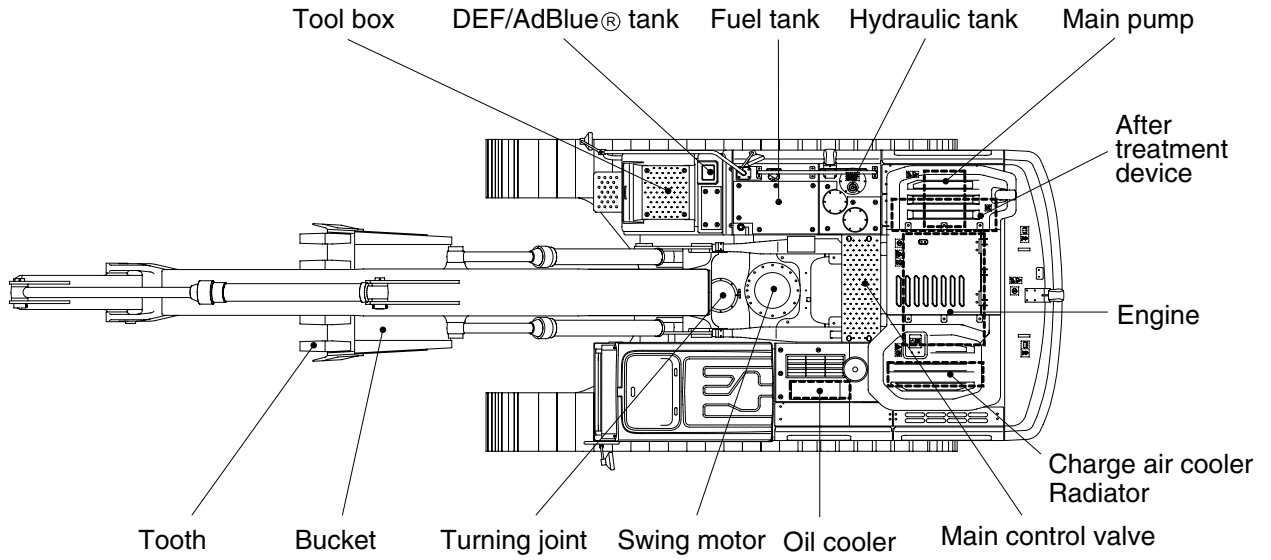


## LIVE WITH SAFETY

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

# GROUP 2 SPECIFICATIONS

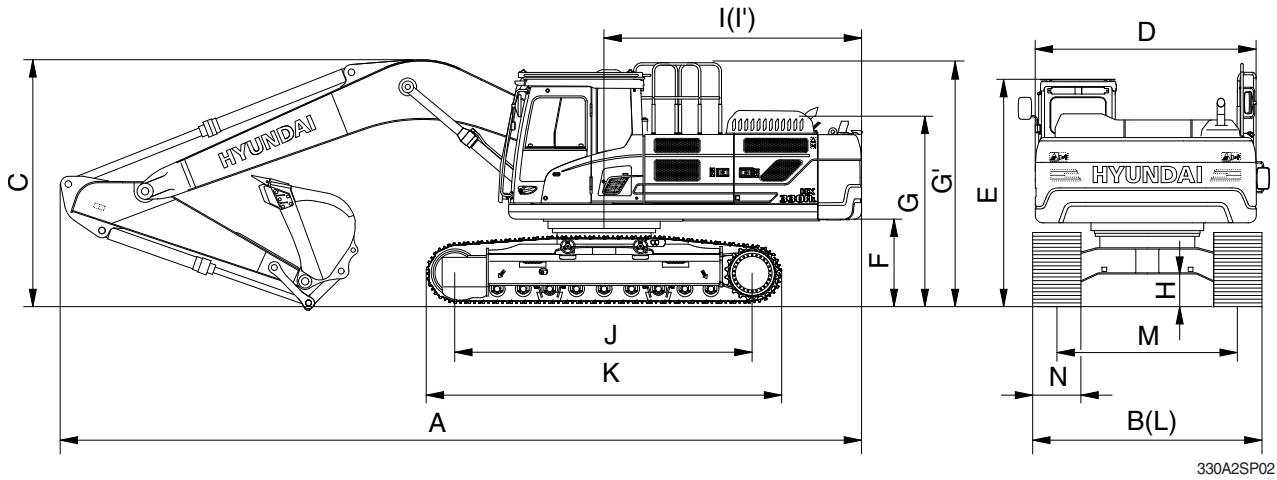
## 1. MAJOR COMPONENT



330A2SP01

## 2. SPECIFICATIONS

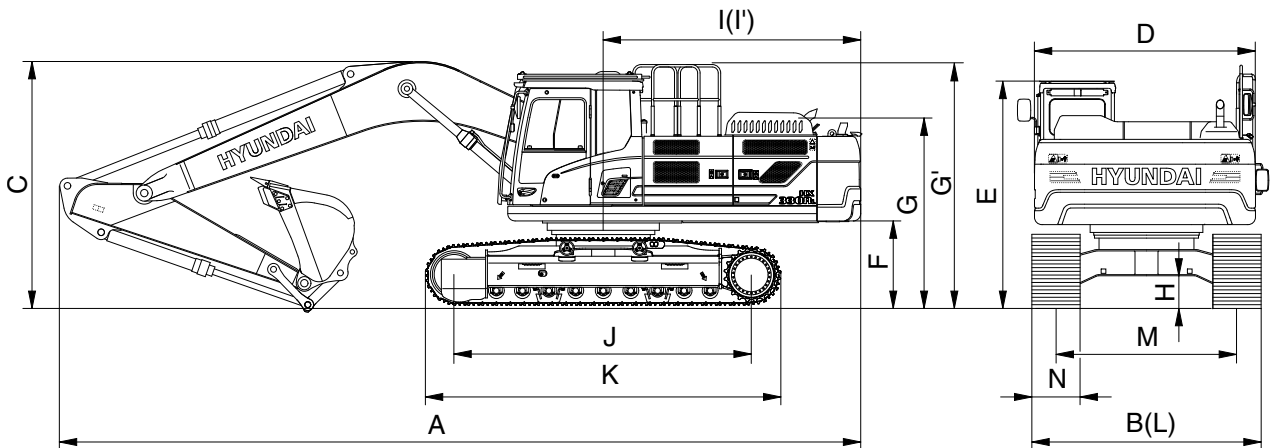
### 1) HX330A L / HX350A L, BOOM



330A2SP02

Description	Unit		Specification			
	m (ft-in)	Boom	6.45 (21' 2")			
		Arm	3.20 (10' 6")	2.20 (7' 3")	2.50 (8' 2")	4.05 (13' 3")
mm (in)	Shoe	600 (24)				
Operating weight	kg (lb)	33680 (74096)	33460 (73612)	33570 (73854)	33900 (74580)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	
Overall length	A	11220 (36' 10")	11460 (37' 7")	11340 (37' 2")	11200 (36' 9")	
Overall width	B	3280 (10' 9")	3280 (10' 9")	3280 (10' 9")	3280 (10' 9")	
Overall height of boom	C	3360 (11' 0")	3630 (11' 11")	3540 (11' 7")	3880 (12' 9")	
Superstructure width	D	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E	3145 (10' 4")	3145 (10' 4")	3145 (10' 4")	3145 (10' 4")	
Ground clearance of counterweight	F	1200 (3' 11")	1200 (3' 11")	1200 (3' 11")	1200 (3' 11")	
Overall height of engine hood	G	2610 (8' 7")	2610 (8' 7")	2610 (8' 7")	2610 (8' 7")	
Overall height of handrail	G'	3350 (11' 0")	3350 (11' 0")	3350 (11' 0")	3350 (11' 0")	
Minimum ground clearance	H	500 (1' 8")	500 (1' 8")	500 (1' 8")	500 (1' 8")	
Rear-end distance	I	3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	
Rear-end swing radius	I'	3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	
Distance between tumblers	J	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	
Undercarriage length	K	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	
Undercarriage width	L	3280 (10' 9")	3280 (10' 9")	3280 (10' 9")	3280 (10' 9")	
Track gauge	M	2680 (8' 10")	2680 (8' 10")	2680 (8' 10")	2680 (8' 10")	
Track shoe width, standard	N	600 (24")	600 (24")	600 (24")	600 (24")	
Travel speed (low/high)	km/hr (mph)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	
Swing speed	rpm	10.2	10.2	10.2	10.2	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	35 (70)	
Ground pressure	kg/cm <sup>2</sup> (psi)	0.65 (9.22)	0.64 (9.16)	0.65 (9.19)	0.65 (9.28)	
Max traction force	kg (lb)	27404 (60415)	27404 (60415)	27404 (60415)	27404 (60415)	

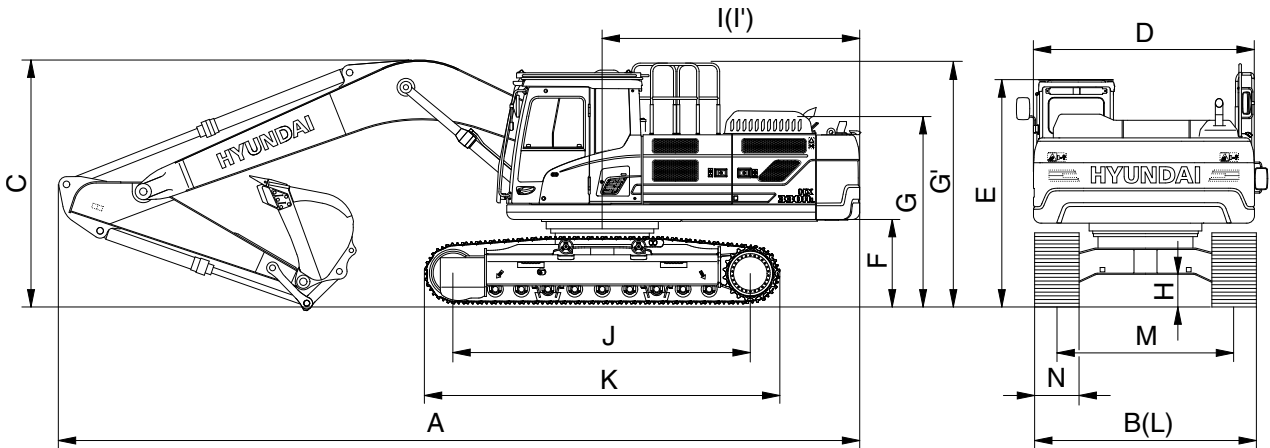
## 2) HX330A L / HX350A L, SHORT BOOM



330A2SP02

Description	Unit		Specification		
	m (ft-in)	Boom	6.15 (20' 2")		
		Arm	3.20 (10' 6")	2.20 (7' 3")	2.50 (8' 2")
mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)	33620 (73964)	33410 (73502)	33520 (73744)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	
Overall length	A	10910 (35' 10")	11600 (36' 7")	11040 (36' 3")	
Overall width	B	3280 (10' 9")	3280 (10' 9")	3280 (10' 9")	
Overall height of boom	C	3420 (11' 3")	3600 (11' 10")	3600 (11' 10")	
Superstructure width	D	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E	3145 (10' 4")	3145 (10' 4")	3145 (10' 4")	
Ground clearance of counterweight	F	1200 (3' 11")	1200 (3' 11")	1200 (3' 11")	
Overall height of engine hood	G	2610 (8' 7")	2610 (8' 7")	2610 (8' 7")	
Overall height of handrail	G'	3350 (11' 0")	3350 (11' 0")	3350 (11' 0")	
Minimum ground clearance	H	500 (1' 8")	500 (1' 8")	500 (1' 8")	
Rear-end distance	I	3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	
Rear-end swing radius	I'	3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	
Distance between tumbler	J	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	
Undercarriage length	K	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	
Undercarriage width	L	3280 (10' 9")	3280 (10' 9")	3280 (10' 9")	
Track gauge	M	2680 (8' 10")	2680 (8' 10")	2680 (8' 10")	
Track shoe width, standard	N	600 (24")	600 (24")	600 (24")	
Travel speed (low/high)	km/hr (mph)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	
Swing speed	rpm	10.2	10.2	10.2	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.65 (9.2)	0.64 (9.15)	0.65 (9.18)	
Max traction force	kg (lb)	27404 (60415)	27404 (60415)	27404 (60415)	

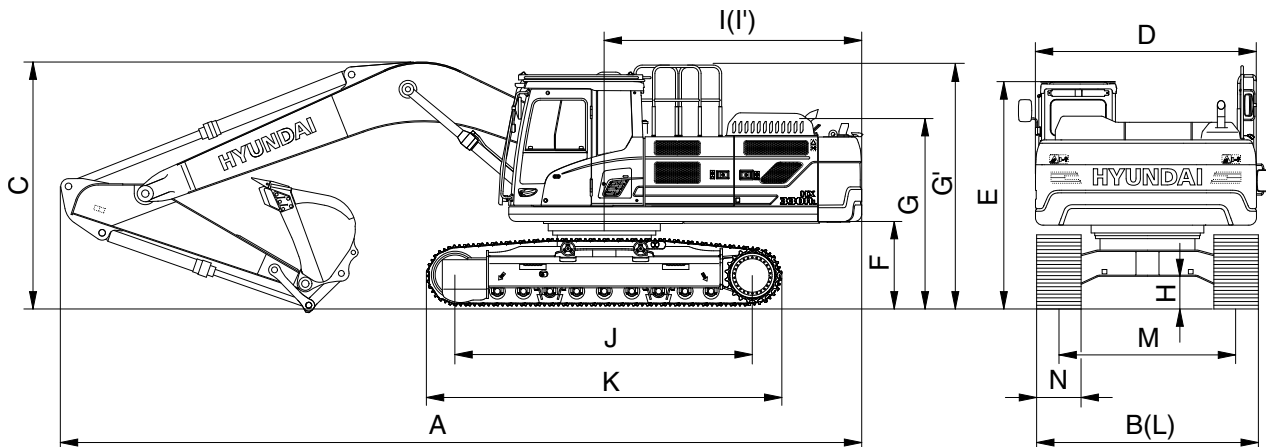
### 3) HX330A NL / HX350A NL, BOOM



330A2SP03

Description	Unit		Specification			
	m (ft-in)	Boom	6.45 (21' 2")			
		Arm	3.20 (10' 6")	2.20 (7' 3")	2.50 (8' 2")	4.05 (13' 3")
mm (in)	Shoe	600 (24)				
Operating weight	kg (lb)	33460 (73612)	33250 (73150)	33360 (73392)	33690 (74118)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	
Overall length	A	11220 (36' 10")	11460 (37' 7")	11340 (37' 2")	11200 (36' 9")	
Overall width	B	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Overall height of boom	C	3360 (11' 0")	3630 (11' 11")	3540 (11' 7")	3880 (12' 9")	
Superstructure width	D	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E	3145 (10' 4")	3145 (10' 4")	3145 (10' 4")	3145 (10' 4")	
Ground clearance of counterweight	F	1200 (3' 11")	1200 (3' 11")	1200 (3' 11")	1200 (3' 11")	
Overall height of engine hood	G	2610 (8' 7")	2610 (8' 7")	2610 (8' 7")	2610 (8' 7")	
Overall height of handrail	G'	3350 (11' 0")	3350 (11' 0")	3350 (11' 0")	3350 (11' 0")	
Minimum ground clearance	H	500 (1' 8")	500 (1' 8")	500 (1' 8")	500 (1' 8")	
Rear-end distance	I	3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	
Rear-end swing radius	I'	3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	
Distance between tumblers	J	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	
Undercarriage length	K	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	
Undercarriage width	L	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Track gauge	M	2390 (7' 10")	2390 (7' 10")	2390 (7' 10")	2390 (7' 10")	
Track shoe width, standard	N	600 (24")	600 (24")	600 (24")	600 (24")	
Travel speed (low/high)	km/hr (mph)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	
Swing speed	rpm	10.2	10.2	10.2	10.2	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.64 (9.16)	0.64 (9.1)	0.64 (9.13)	0.65 (9.22)	
Max traction force	kg (lb)	27404 (60415)	27404 (60415)	27404 (60415)	27404 (60415)	

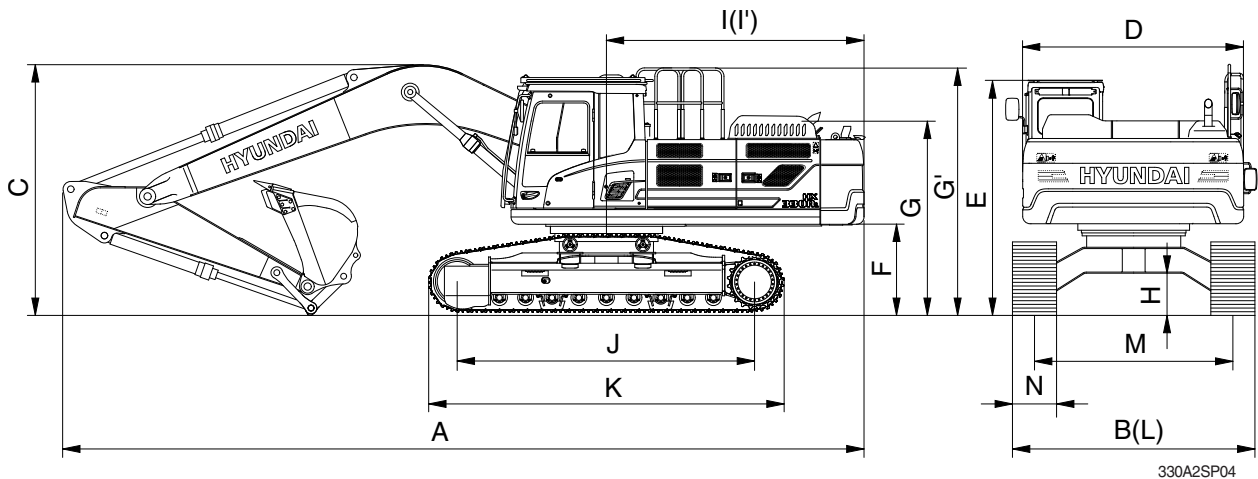
#### 4) HX330A NL / HX350A NL, SHORT BOOM



330A2SP03

Description	Unit		Specification			
	m (ft-in)	Boom	6.15 (20' 2")			
		Arm	3.20 (10' 6")	2.20 (7' 3")	2.50 (8' 2")	
	mm (in)	Shoe	600 (24)			
Operating weight	kg (lb)		33410 (73502)	33200 (73040)	33310 (73282)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )		1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	
Overall length	A	mm (ft-in)	10910 (35' 10")	11160 (36' 7")	11040 (36' 3")	
Overall width	B		2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Overall height of boom	C		3420 (11' 3")	3600 (11' 10")	3600 (11' 10")	
Superstructure width	D		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E		3145 (10' 4")	3145 (10' 4")	3145 (10' 4")	
Ground clearance of counterweight	F		1200 (3' 11")	1200 (3' 11")	1200 (3' 11")	
Overall height of engine hood	G		2610 (8' 7")	2610 (8' 7")	2610 (8' 7")	
Overall height of handrail	G'		3350 (11' 0")	3350 (11' 0")	3350 (11' 0")	
Minimum ground clearance	H		500 (1' 8")	500 (1' 8")	500 (1' 8")	
Rear-end distance	I		3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	
Rear-end swing radius	I'		3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	
Distance between tumblers	J		4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	
Undercarriage length	K		4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	
Undercarriage width	L		3280 (10' 9")	3280 (10' 9")	3280 (10' 9")	
Track gauge	M		2680 (8' 10")	2680 (8' 10")	2680 (8' 10")	
Track shoe width, standard	N		600 (24")	600 (24")	600 (24")	
Travel speed (low/high)	km/hr (mph)		3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	
Swing speed	rpm		10.2	10.2	10.2	
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)		0.64 (9.15)	0.64 (9.09)	0.64 (9.12)	
Max traction force	kg (lb)		27404 (60415)	27404 (60415)	27404 (60415)	

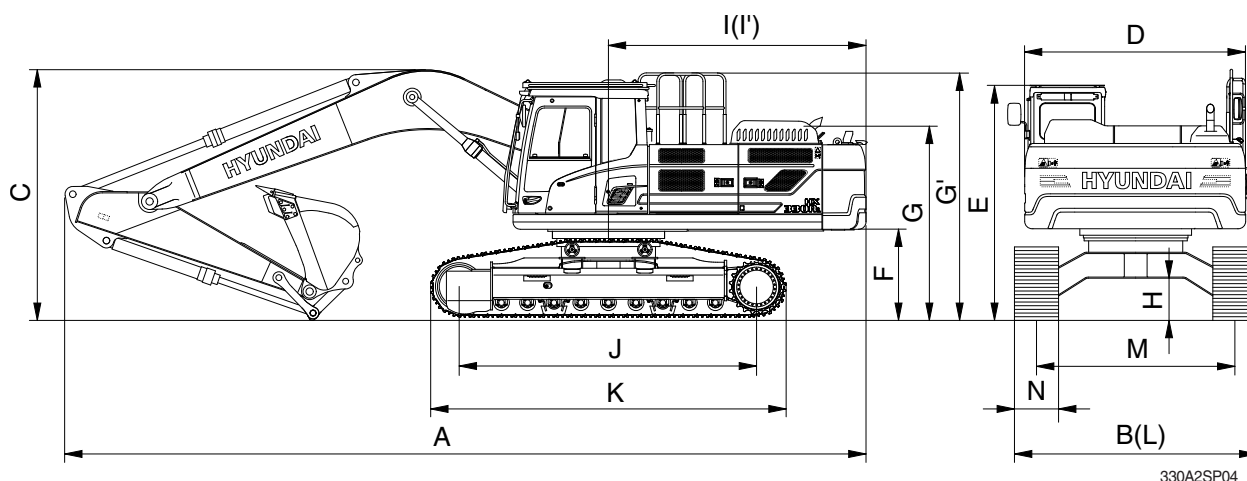
### 5) HX330A HW / HX350A HW, BOOM



Description	Unit		Specification			
	m (ft-in)	Boom	6.45 (21' 2")			
		Arm	3.20 (10' 6")	2.20 (7' 3")	2.50 (8' 2")	4.05 (13' 3")
mm (in)	Shoe	700 (28)				
Operating weight	kg (lb)	37100 (81620)	36890 (81158)	37000 (81400)	37330 (82126)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	
Overall length	A	11150 (36' 7")	11460 (37' 7")	11340 (37' 2")	11240 (36' 11")	
Overall width	B	3570 (11' 9")	3570 (11' 9")	3570 (11' 9")	3570 (11' 9")	
Overall height of boom	C	3360 (11' 0")	3740 (12' 4")	3760 (12' 4")	3810 (12' 6")	
Superstructure width	D	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E	3480 (11' 0")	3480 (11' 0")	3480 (11' 0")	3480 (11' 0")	
Ground clearance of counterweight	F	1535 (5' 0")	1535 (5' 0")	1535 (5' 0")	1535 (5' 0")	
Overall height of engine hood	G	2910 (9' 7")	2910 (9' 7")	2910 (9' 7")	2910 (9' 7")	
Overall height of handrail	G'	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	
Minimum ground clearance	H	800 (2' 7")	800 (2' 7")	800 (2' 7")	800 (2' 7")	
Rear-end distance	I	3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	
Rear-end swing radius	I'	3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	
Distance between tumbler	J	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	
Undercarriage length	K	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	
Undercarriage width	L	3570 (11' 9")	3570 (11' 9")	3570 (11' 9")	3570 (11' 9")	
Track gauge	M	2870 (9' 5")	2870 (9' 5")	2870 (9' 5")	2870 (9' 5")	
Track shoe width, standard	N	700 (28")	700 (28")	700 (28")	700 (28")	
Travel speed (low/high)	km/hr (mph)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	
Swing speed	rpm	10.2	10.2	10.2	10.2	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.61 (8.69)	0.61 (8.64)	0.61 (8.66)	0.62 (8.86)	
Max traction force	kg (lb)	27404 (60415)	27404 (60415)	27404 (60415)	27404 (60415)	



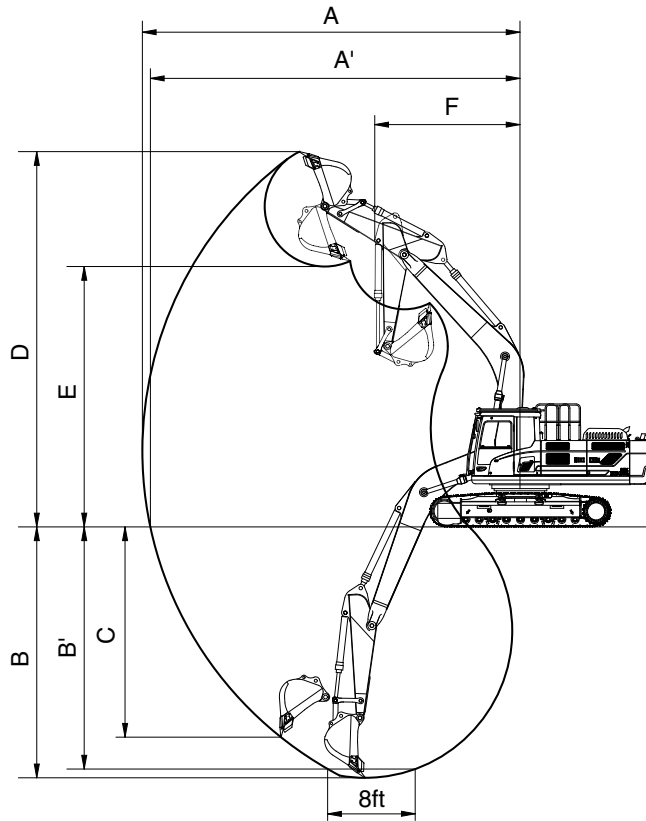
## 6) HX330A HW / HX350A HW, SHORT BOOM



Description	Unit		Specification		
	m (ft-in)	Boom	6.15 (20' 2")		
		Arm	3.20 (10' 6")	2.20 (7' 3")	2.50 (8' 2")
	mm (in)	Shoe	700 (28)		
Operating weight	kg (lb)	37050 (81510)	36840 (81048)	36950 (81290)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	1.44 (1.88)	1.44 (1.88)	1.44 (1.88)	
Overall length	A	10810 (35' 6")	11150 (36' 7")	11000 (36' 1")	
Overall width	B	3280 (10' 9")	3280 (10' 9")	3280 (10' 9")	
Overall height of boom	C	3440 (11' 3")	3810 (12' 6")	3690 (12' 1")	
Superstructure width	D	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	
Overall height of cab	E	3480 (11' 0")	3480 (11' 0")	3480 (11' 0")	
Ground clearance of counterweight	F	1535 (5' 0")	1535 (5' 0")	1535 (5' 0")	
Overall height of engine hood	G	2610 (8' 7")	2610 (8' 7")	2610 (8' 7")	
Overall height of handrail	G'	3650 (12' 0")	3650 (12' 0")	3650 (12' 0")	
Minimum ground clearance	H	800 (2' 7")	800 (2' 7")	800 (2' 7")	
Rear-end distance	I	3505 (11' 5")	3505 (11' 5")	3505 (11' 5")	
Rear-end swing radius	I'	3570 (11' 7")	3570 (11' 7")	3570 (11' 7")	
Distance between tumblers	J	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	
Undercarriage length	K	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	
Undercarriage width	L	3570 (11' 9")	3570 (11' 9")	3570 (11' 9")	
Track gauge	M	2870 (9' 5")	2870 (9' 5")	2870 (9' 5")	
Track shoe width, standard	N	700 (28")	700 (28")	700 (28")	
Travel speed (low/high)	km/hr (mph)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	3.5/6.4 (2.2/4.0)	
Swing speed	rpm	10.2	10.2	10.2	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.61 (8.67)	0.61 (8.62)	0.61 (8.65)	
Max traction force	kg (lb)	27404 (60415)	27404 (60415)	27404 (60415)	

### 3. WORKING RANGE AND DIGGING FORCE

#### 1) HX330A L,NL / HX350A L,NL, BOOM

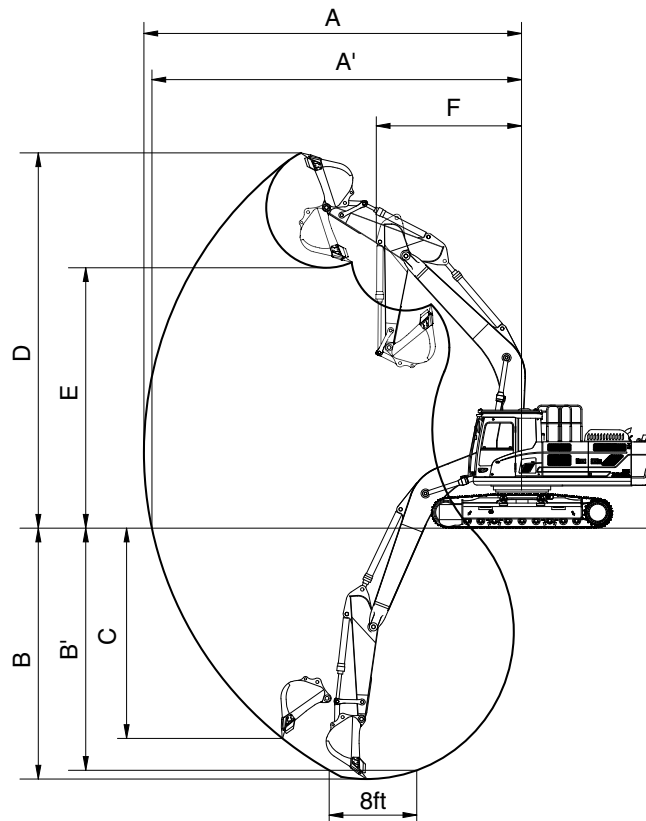


330A2SP05

Description	m (ft-in)	Boom	6.45 (21' 2")			
		Arm	3.20 (10' 6")	2.20 (7' 3")	2.50 (8' 2")	4.05 (13' 3")
Max digging reach	mm (ft-in)	A	11150 (36' 7")	10330 (33' 11")	10500 (34' 5")	11950 (39' 2")
Max digging reach on ground		A'	10950 (35' 11")	10120 (33' 2")	10290 (33' 9")	11770 (38' 7")
Max digging depth		B	7360 (24' 2")	6360 (20' 10")	6660 (21' 10")	8210 (26' 11")
Max digging depth (8 ft level)		B'	7200 (23' 7")	6170 (20' 3")	6450 (21' 2")	8080 (26' 6")
Max vertical wall digging depth		C	6330 (20' 9")	5970 (19' 7")	5660 (18' 7")	7240 (23' 9")
Max digging height		D	10360 (34' 0")	10260 (33' 8")	10050 (33' 0")	10780 (35' 4")
Max dumping height		E	7260 (23' 10")	7060 (23' 2")	6950 (22' 10")	7670 (25' 2")
Min swing radius		F	4360 (14' 4")	4630 (15' 2")	4440 (14' 7")	4290 (14' 1")
Bucket digging force	kN	SAE	188.3 [205.5]	186.3 [203.3]	187.3 [204.4]	189.3 [206.4]
	kgf		19200 [20950]	19000 [20730]	19100 [20840]	19300 [21050]
	lbf		42330 [46190]	41890 [45700]	42110 [45940]	42550 [46410]
	kN	ISO	216.7 [230.4]	214.8 [234.3]	215.7 [235.4]	217.7 [237.5]
	kgf		22100 [24110]	21900 [23890]	22000 [24000]	22200 [24220]
	lbf		48720 [53150]	48280 [52670]	48500 [52910]	48940 [53400]
Arm digging force	kN	SAE	140.2 [153.0]	195.2 [212.9]	175.5 [191.5]	118.7 [129.4]
	kgf		14300 [15600]	19900 [21710]	17900 [19530]	12100 [13200]
	lbf		31530 [34390]	43870 [47860]	39460 [43060]	26680 [29100]
	kN	ISO	145.1 [158.4]	205.0 [223.6]	184.4 [201.1]	123.6 [134.8]
	kgf		14800 [16150]	20900 [22800]	18800 [20510]	12600 [13750]
	lbf		32630 [35600]	46080 [50270]	41450 [45220]	27780 [30310]

[ ] : Power boost

## 2) HX330A L,NL / HX350A L,NL, SHORT BOOM

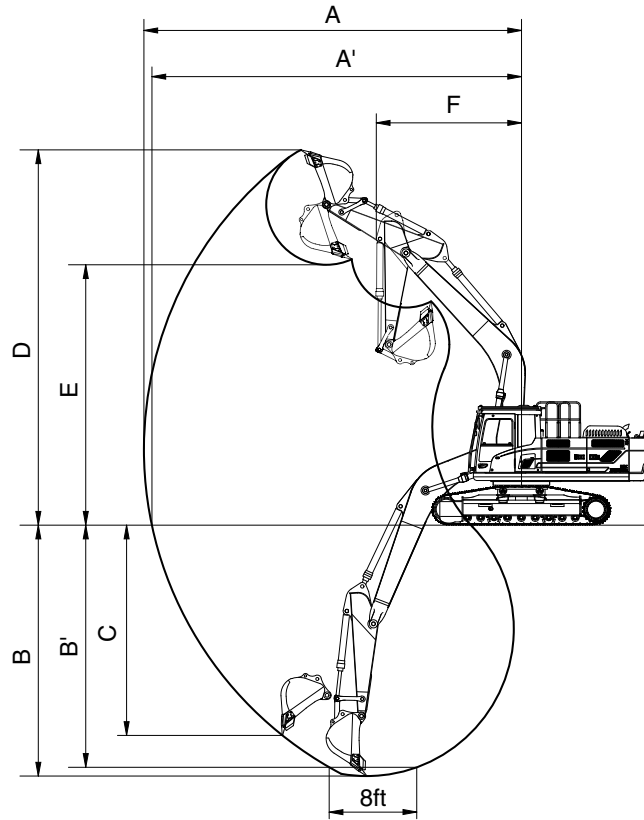


330A2SP05

Description	m (ft-in)	Boom	6.15 (20' 2")		
		Arm	2.20 (7' 3")	2.50 (8' 2")	3.20 (10' 6")
Max digging reach	mm (ft-in)	A	10020 (32' 10")	10190 (33' 5")	10840 (35' 7")
Max digging reach on ground		A'	9810 (32' 2")	9980 (32' 9")	10640 (34' 11")
Max digging depth		B	6150 (20' 2")	6450 (21' 2")	7150 (23' 5")
Max digging depth (8 ft level)		B'	5950 (19' 6")	6230 (20' 5")	6980 (22' 11")
Max vertical wall digging depth		C	5700 (18' 8")	5420 (17' 9")	6100 (20' 0")
Max digging height		D	9980 (32' 9")	9760 (32' 0")	11080 (33' 1")
Max dumping height		E	6790 (22' 3")	6670 (21' 11")	6980 (22' 11")
Min swing radius		F	4450 (14' 7")	4290 (14' 1")	4200 (13' 9")
Bucket digging force	kN	SAE	186.3 [203.3]	187.3 [204.4]	188.3 [205.5]
	kgf		19000 [20730]	19100 [20840]	19200 [20950]
	lbf		41890 [45700]	42110 [45940]	42330 [46190]
	kN	ISO	214.8 [234.3]	217.7 [237.5]	216.7 [236.4]
	kgf		21900 [23890]	22200 [24220]	22100 [24110]
	lbf		48280 [52670]	48940 [53400]	48720 [53150]
Arm digging force	kN	SAE	195.2 [212.9]	175.5 [191.5]	140.2 [153.0]
	kgf		19900 [21710]	17900 [19530]	14300 [15600]
	lbf		43870 [47860]	39460 [43060]	31530 [34390]
	kN	ISO	205.0 [223.6]	184.4 [201.1]	145.1 [158.4]
	kgf		20900 [22800]	18800 [20510]	14800 [16150]
	lbf		46080 [50270]	41450 [45220]	32630 [35600]

[ ] : Power boost

### 3) HX330A HW / HX350A HW, BOOM

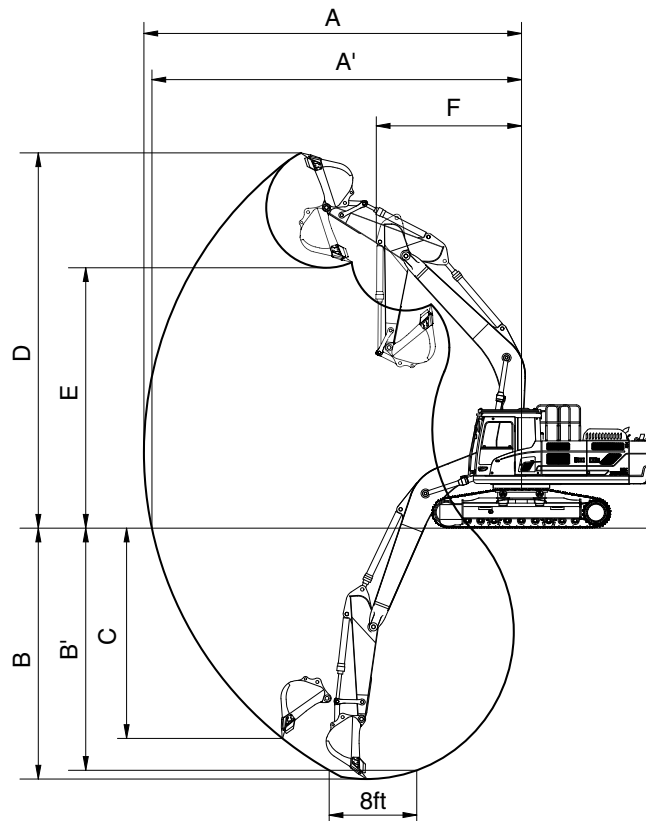


330A2SP06

Description	m (ft-in)	Boom	6.45 (21' 2")			
		Arm	3.20 (10' 6")	2.20 (7' 3")	2.50 (8' 2")	4.05 (13' 3")
Max digging reach	mm (ft-in)	A	11150 (36' 7")	10330 (33' 11")	10500 (34' 5")	11950 (39' 2")
Max digging reach on ground		A'	10950 (35' 11")	10120 (33' 2")	10290 (33' 9")	11770 (38' 7")
Max digging depth		B	7060 (23' 2")	6060 (19' 11")	6360 (20' 10")	7910 (25' 11")
Max digging depth (8 ft level)		B'	6890 (22' 7")	5860 (19' 3")	6140 (20' 2")	7780 (25' 6")
Max vertical wall digging depth		C	6030 (19' 9")	5670 (18' 7")	5360 (17' 7")	6940 (22' 9")
Max digging height		D	10670 (35' 0")	10560 (34' 8")	10350 (33' 11")	11080 (36' 4")
Max dumping height		E	7570 (24' 10")	7370 (24' 2")	7250 (23' 9")	7970 (26' 2")
Min swing radius		F	4360 (14' 4")	4630 (15' 2")	4440 (14' 7")	4290 (14' 1")
Bucket digging force	kN		188.3 [205.5]	186.3 [203.3]	187.3 [204.4]	189.3 [206.4]
	kgf	SAE	19200 [20950]	19000 [20730]	19100 [20840]	19300 [21050]
	lbf		42330 [46190]	41890 [45700]	42110 [45940]	42550 [46410]
	kN	ISO	216.7 [230.4]	214.8 [234.3]	215.7 [235.4]	217.7 [237.5]
	kgf		22100 [24110]	21900 [23890]	22000 [24000]	22200 [24220]
	lbf		48720 [53150]	48280 [52670]	48500 [52910]	48940 [53400]
Arm digging force	kN	SAE	140.2 [153.0]	195.2 [212.9]	175.5 [191.5]	118.7 [129.4]
	kgf		14300 [15600]	19900 [21710]	17900 [19530]	12100 [13200]
	lbf		31530 [34390]	43870 [47860]	39460 [43060]	26680 [29100]
	kN	ISO	145.1 [158.4]	205.0 [223.6]	184.4 [201.1]	123.6 [134.8]
	kgf		14800 [16150]	20900 [22800]	18800 [20510]	12600 [13750]
	lbf		32630 [35600]	46080 [50270]	41450 [45220]	27780 [30310]

[ ] : Power boost

#### 4) HX330A HW / HX350A HW, SHORT BOOM



330A2SP06

Description	m (ft-in)	Boom			
		Arm	6.15 (20' 2")		
Max digging reach		A	10020 (32' 10")	10190 (33' 5")	10840 (35' 7")
Max digging reach on ground		A'	9810 (32' 2")	9910 (32' 6")	10580 (34' 9")
Max digging depth		B	5850 (19' 2")	6150 (20' 2")	6850 (22' 6")
Max digging depth (8 ft level)		B'	5650 (18' 6")	5920 (19' 5")	6670 (21' 11")
Max vertical wall digging depth		C	5400 (17' 9")	5110 (16' 9")	5790 (19' 0")
Max digging height		D	10280 (33' 9")	10070 (33' 0")	10380 (34' 1")
Max dumping height		E	7100 (23' 4")	6980 (22' 11")	7290 (23' 11")
Min swing radius		F	4450 (14' 7")	4290 (14' 1")	4200 (13' 9")
Bucket digging force	kN	SAE	186.3 [203.3]	187.3 [204.4]	188.3 [205.5]
	kgf		19000 [20730]	19100 [20840]	19200 [20950]
	lbf		41890 [45700]	42110 [45940]	42330 [46190]
	kN	ISO	214.8 [234.3]	217.7 [237.5]	216.7 [236.4]
	kgf		21900 [23890]	22200 [24220]	22100 [24110]
	lbf		48280 [52670]	48940 [53400]	48720 [53150]
Arm digging force	kN	SAE	195.2 [212.9]	175.5 [191.5]	140.2 [153.0]
	kgf		19900 [21710]	17900 [19530]	14300 [15600]
	lbf		43870 [47860]	39460 [43060]	31530 [34390]
	kN	ISO	205.0 [223.6]	184.4 [201.1]	145.1 [158.4]
	kgf		20900 [22800]	18800 [20510]	14800 [16150]
	lbf		46080 [50270]	41450 [45220]	32630 [35600]

[ ] : Power boost

## 4. WEIGHT

Item	HX330A L HX350A L		HX330A NL HX350A NL		HX330A HW HX350A HW	
	kg	lb	kg	lb	kg	lb
<b>Upperstructure assembly</b>						
· Main frame weld assembly	2,839	6,259	2,853	6,290	2,839	6,259
· Engine assembly	590	1,301	590	1,301	590	1,301
· Aftertreatment assembly	40	88	40	88	40	88
· Main pump assembly	181	399	181	399	181	399
· Main control valve assembly	220	485	220	485	220	485
· Swing motor assembly	345	761	345	761	345	761
· Hydraulic oil tank WA	205	451	205	451	205	451
· Fuel tank WA	235	518	235	518	235	518
· Counterweight	5,100	11,244	5,100	11,244	7,000	15,432
· Cab assembly	570	1,257	570	1,257	570	1,257
<b>Lower chassis assembly</b>						
· Track frame weld assembly	3,875	8,543	3,875	8,543	6,600	14,551
· Swing bearing	500	1,102	500	1,102	500	1,102
· Travel motor assembly (2EA)	886	1,954	886	1,954	886	1,954
· Turning joint	54	117	54	117	54	117
· Sprocket (2EA)	170	375	180	397	170	375
· Track recoil spring (2EA)	450	992	450	992	450	992
· Idler (2EA)	500	1,102	500	1,102	500	1,102
· Upper roller (2EA)	140	309	140	309	240	529
· Lower roller (18EA)	1,070	2,359	1,070	2,359	1,070	2,359
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	3,759	8,287	3,759	8,287	-	-
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	4,327	9539	-	-	-	-
· Track-chain assembly (700 mm double grouser shoe) (2EA)	-	-	-	-	5,237	11,546
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	4,706	10,375	-	-	-	-
· Track-chain assembly (900 mm standard triple grouser shoe) (2EA)	5,085	11,211	-	-	-	-
<b>Front attachment assembly</b>						
· 6.45 m boom assembly	2,400	5,291	2,400	5,291	2,400	5,291
· 6.15 m boom assembly	3,150	6,944	3,150	6,944	3,150	6,944
· 3.20 m arm assembly	1,070	2,359	1,070	2,359	1,070	2,359
· 1.44 m³ SAE heaped bucket	1,130	2,491	1,130	2,491	1,130	2,491
· Boom cylinder assembly (2EA)	540	1,190	540	1,190	540	1,190
· Arm cylinder assembly	360	793	360	793	360	793
· Bucket cylinder assembly	220	485	220	485	140	308
· Bucket control linkage total	280	617	280	617	130	287

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

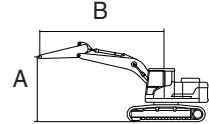
※ Refer to Transportation for actual weight information and Specifications for operating weight.













## 5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A L HX350A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6450	3200	6000	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)
7.5 m (24.6 ft)	kg lb							*6830 *15060	*6830 *15060			*5610 *12370	*5610 *12370	7.74 (25.4)
6.0 m (19.7 ft)	kg lb							*7900 *17420	7050 15540			*5430 *11970	*5430 *11970	8.62 (28.3)
4.5 m (14.8 ft)	kg lb			*12020 *26500	*12020 *26500	*9700 21300	9660	*8550 *18850	6840 15080	*6670 *14700	5090 11220	*5450 *12020	4930 10870	9.17 (30.1)
3.0 m (9.8 ft)	kg lb			*15600 *34390	13920 30690	*11400 *25130	9130 20130	*9430 *20790	6580 14510	7430 16380	4980 10980	*5650 *12460	4610 10160	9.44 (31.0)
1.5 m (4.9 ft)	kg lb			*17450 *38470	13070 28810	*12910 *28460	8680 19140	9590 21140	6330 13960	7290 16070	4850 10690	*6050 *13340	4500 9920	9.47 (31.1)
0.0 m (0.0 ft)	kg lb			*17260 *38050	12710 28020	13180 29060	8390 18500	9390 20700	6150 13560	7200 15870	4770 10520	*6720 *14820	4590 10120	9.25 (30.4)
-1.5 m (-4.9 ft)	kg lb	*10800 *23810	*10800 *23810	*18990 *41870	12660 27910	13040 28750	8270 18230	9300 20500	6070 13380			7450 16420	4920 10850	8.77 (28.8)
-3.0 m (-9.8 ft)	kg lb	*17470 *38510	*17470 *38510	*17780 *39200	12780 28180	13090 28860	8310 18320	9360 20640	6120 13490			8590 18940	5660 12480	7.98 (26.2)
-4.5 m (-14.8 ft)	kg lb	*20720 *45680	*20720 *45680	*15280 *33690	13080 28840	*11480 *25310	8530 18810					*9660 *21300	7280 16050	6.76 (22.2)

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.

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

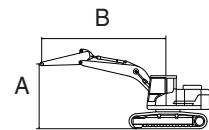
Make adjustments to the rated load as necessary for non-standard configurations.
















Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A L		6450	3200	6000	800	-	-	-	-	-

·  : 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
														
7.5 m (24.6 ft)	kg							*6830	*6830			*5610	*5610	7.74
	lb							*15060	*15060			*12370	*12370	(25.4)
6.0 m (19.7 ft)	kg							*7900	7220			*5430	*5430	8.62
	lb							*17420	15920			*11970	*11970	(28.3)
4.5 m (14.8 ft)	kg			*12020	*12020	*9700	*9700	*8550	7020	*6670	5230	*5450	5070	9.17
	lb			*26500	*26500	*21380	*21380	*18850	15480	*14700	11530	*12020	11180	(30.1)
3.0 m (9.8 ft)	kg			*15600	14270	*11400	9360	*9430	6750	7640	5120	*5650	4740	9.44
	lb			*34390	31460	*25130	20640	*20790	14880	16840	11290	*12460	10450	(31.0)
1.5 m (4.9 ft)	kg			*17450	13410	*12910	8910	9860	6500	7500	4990	*6050	4630	9.47
	lb			*38470	29560	*28460	19640	21740	14330	16530	11000	*13340	10210	(31.1)
0.0 m (0.0 ft)	kg			*17260	13060	13540	8620	9660	6320	7410	4900	*6720	4720	9.25
	lb			*38050	28790	29850	19000	21300	13930	16340	10800	*14820	10410	(30.4)
-1.5 m (-4.9 ft)	kg	*10800	*10800	*18990	13000	13410	8500	9570	6240			7670	5070	8.77
	lb	*23810	*23810	*41870	28660	29560	18740	21100	13760			16910	11180	(28.8)
-3.0 m (-9.8 ft)	kg	*17470	*17470	*17780	13120	*13420	8540	9630	6290			8840	5820	7.98
	lb	*38510	*38510	*39200	28920	*29590	18830	21230	13870			19490	12830	(26.2)
-4.5 m (-14.8 ft)	kg	*20720	*20720	*15280	13430	*11480	8760					*9660	7470	6.76
	lb	*45680	*45680	*33690	29610	*25310	19310					*21300	16470	(22.2)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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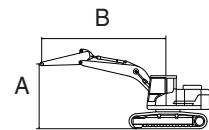
Make adjustments to the rated load as necessary for non-standard configurations.













Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A L HX350A L	MONO BOOM	6150	2200	6000	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					*9780	*9780			*9930	9210	6.31
	lb					*21560	*21560			*21890	20300	(20.7)
6.0 m (19.7 ft)	kg					*9980	9930			*9710	7120	7.36
	lb					*22000	21890			*21410	15700	(24.2)
4.5 m (14.8 ft)	kg					*11160	9570	*9860	6820	9100	6150	8.00
	lb					*24600	21100	*21740	15040	20060	13560	(26.2)
3.0 m (9.8 ft)	kg					*12670	9130	9900	6630	8450	5680	8.31
	lb					*27930	20130	21830	14620	18630	12520	(27.3)
1.5 m (4.9 ft)	kg					13600	8790	9710	6450	8300	5560	8.34
	lb					29980	19380	21410	14220	18300	12260	(27.4)
0.0 m (0.0 ft)	kg					13400	8610	9600	6350	8610	5750	8.10
	lb					29540	18980	21160	14000	18980	12680	(26.6)
-1.5 m (-4.9 ft)	kg			*18560	13130	13380	8590	9630	6390	9570	6350	7.54
	lb			*40920	28950	29500	18940	21230	14090	21100	14000	(24.7)
-3.0 m (-9.8 ft)	kg	*21300	*21300	*16420	13350	*12400	8760			*10710	7750	6.60
	lb	*46960	*46960	*36200	29430	*27340	19310			*23610	17090	(21.6)

Note 1. Lifting capacity are based on ISO 10567.

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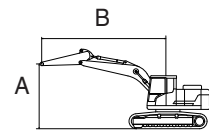
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A L HX350A L	MONO BOOM	6150	2500	6000	600	-	-	-	-	-



: 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					*9120	*9120			*9270	8780	6.53
	lb					*20110	*20110			*20440	19360	(21.4)
6.0 m (19.7 ft)	kg					*9490	*9490	*9160	6950	*9000	6860	7.55
	lb					*20920	*20920	*20190	15320	*19840	15120	(24.8)
4.5 m (14.8 ft)	kg			*13430	*13430	*10710	9600	*9490	6820	8800	5940	8.17
	lb			*29610	*29610	*23610	21160	*20920	15040	19400	13100	(26.8)
3.0 m (9.8 ft)	kg					*12270	9140	9890	6610	8180	5500	8.48
	lb					*27050	20150	21800	14570	18030	12130	(27.8)
1.5 m (4.9 ft)	kg					13580	8760	9670	6420	8020	5360	8.51
	lb					29940	19310	21320	14150	17680	11820	(27.9)
0.0 m (0.0 ft)	kg			*19530	12960	13340	8550	9540	6290	8290	5520	8.27
	lb			*43060	28570	29410	18850	21030	13870	18280	12170	(27.1)
-1.5 m (-4.9 ft)	kg	*13440	*13440	*18810	12990	13280	8500	9530	6280	9150	6050	7.72
	lb	*29630	*29630	*41470	28640	29280	18740	21010	13850	20170	13340	(25.3)
-3.0 m (-9.8 ft)	kg	*22630	*22630	*16940	13180	*12800	8620			*10800	7300	6.81
	lb	*49890	*49890	*37350	29060	*28220	19000			*23810	16090	(22.3)
-4.5 m (-14.8 ft)	kg			*12980	*12980					*10630	*10630	5.31
	lb			*28620	*28620					*23440	*23440	(17.4)

Note 1. Lifting capacity are based on ISO 10567.

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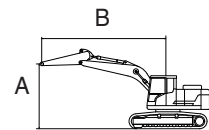
Failure to comply to the rated load can cause possible personal injury or property damage.















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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A L		6150	3200	6000	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)												At max. reach					
	1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach			
															m (ft)			
7.5 m (24.6 ft)	kg															*5600	*5600	7.36
	lb															*12350	*12350	(24.2)
6.0 m (19.7 ft)	kg								*8150	7090					*5380	*5380	8.28	
	lb								*17970	15630					*11860	*11860	(27.2)	
4.5 m (14.8 ft)	kg							*9700	*9700	*8710	6920			*5390	5270	8.85		
	lb							*21380	*21380	*19200	15260			*11880	11620	(29.0)		
3.0 m (9.8 ft)	kg				*15240	14270	*11390	9300	*9570	6670	*6760	5030	*5590	4910	9.14			
	lb				*33600	31460	*25110	20500	*21100	14700	*14900	11090	*12320	10820	(30.0)			
1.5 m (4.9 ft)	kg				*18100	13390	*12950	8850	9710	6440	7370	4930	*6000	4800	9.16			
	lb				*39900	29520	*28550	19510	21410	14200	16250	10870	*13230	10580	(30.1)			
0.0 m (0.0 ft)	kg				*19360	12980	13360	8560	9520	6270			*6690	4900	8.94			
	lb				*42680	28620	29450	18870	20990	13820			*14750	10800	(29.3)			
-1.5 m (-4.9 ft)	kg	*8600	*8600	*12710	*12710	*19280	12890	13220	8430	9430	6190			*7900	5290	8.44		
	lb	*18960	*18960	*28020	*28020	*42510	28420	29150	18580	20790	13650			*17420	11660	(27.7)		
-3.0 m (-9.8 ft)	kg	*14300	*14300	*19900	*19900	*18050	12990	13260	8470	9510	6260			9320	6150	7.61		
	lb	*31530	*31530	*43870	*43870	*39790	28640	29230	18670	20970	13800			20550	13560	(25.0)		
-4.5 m (-14.8 ft)	kg			*20930	*20930	*15230	13310	*11130	8720					*10240	8140	6.32		
	lb			*46140	*46140	*33580	29340	*24540	19220					*22580	17950	(20.7)		

Note 1. Lifting capacity are based on ISO 10567.

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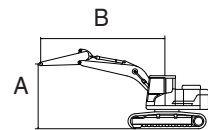
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A L	MONO BOOM	6450	2200	6000	600	-	-	-	-	-
HX350A L										



: 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					*9310	*9310			*9450	8310	6.71
	lb					*20530	*20530			*20830	18320	(22.0)
6.0 m (19.7 ft)	kg					*9810	*9810	*9220	6890	*9260	6570	7.71
	lb					*21630	*21630	*20330	15190	*20410	14480	(25.3)
4.5 m (14.8 ft)	kg					*11100	9430	*9600	6750	8490	5720	8.32
	lb					*24470	20790	*21160	14880	18720	12610	(27.3)
3.0 m (9.8 ft)	kg					*12630	8960	9800	6530	7920	5320	8.62
	lb					*27840	19750	21610	14400	17460	11730	(28.3)
1.5 m (4.9 ft)	kg					13410	8610	9590	6340	7790	5200	8.65
	lb					29560	18980	21140	13980	17170	11460	(28.4)
0.0 m (0.0 ft)	kg					13220	8440	9470	6230	8060	5360	8.41
	lb					29150	18610	20880	13730	17770	11820	(27.6)
-1.5 m (-4.9 ft)	kg			*18160	12940	13210	8430	9480	6240	8870	5880	7.88
	lb			*40040	28530	29120	18580	20900	13760	19550	12960	(25.8)
-3.0 m (-9.8 ft)	kg	*20450	*20450	*16230	13150	*12520	8580			*10140	7040	6.98
	lb	*45080	*45080	*35780	28990	*27600	18920			*22350	15520	(22.9)
-4.5 m (-14.8 ft)	kg			*12390	*12390					*9560	*9560	5.54
	lb			*27320	*27320					*21080	*21080	(18.2)

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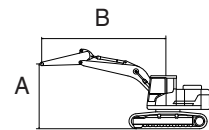
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


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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A L	MONO BOOM	6450	2500	6000	600	-	-	-	-	-
HX350A L										

·  : 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									*8850	7950	6.93
	lb									*19510	17530	(22.7)
6.0 m (19.7 ft)	kg				*9350	*9350	*8770	6930	*8770	6340	7.90	
	lb				*20610	*20610	*19330	15280	*19330	13980	(25.9)	
4.5 m (14.8 ft)	kg		*13780	*13780	*10670	9470	*9260	6750	8220	5540	8.49	
	lb		*30380	*30380	*23520	20880	*20410	14880	18120	12210	(27.9)	
3.0 m (9.8 ft)	kg				*12240	8970	9790	6520	7670	5140	8.79	
	lb				*26980	19780	21580	14370	16910	11330	(28.8)	
1.5 m (4.9 ft)	kg				13390	8580	9560	6300	7530	5010	8.82	
	lb				29520	18920	21080	13890	16600	11050	(28.9)	
0.0 m (0.0 ft)	kg		*15210	12720	13150	8380	9410	6170	7760	5150	8.58	
	lb		*33530	28040	28990	18470	20750	13600	17110	11350	(28.2)	
-1.5 m (-4.9 ft)	kg		*18440	12780	13110	8340	9390	6150	8490	5610	8.06	
	lb		*40650	28180	28900	18390	20700	13560	18720	12370	(26.4)	
-3.0 m (-9.8 ft)	kg	*21480	*21480	*16720	12980	*12820	8450		10130	6650	7.19	
	lb	*47360	*47360	*36860	28620	*28260	18630		22330	14660	(23.6)	
-4.5 m (-14.8 ft)	kg		*13360	*13360					*10080	9250	5.80	
	lb		*29450	*29450					*22220	20390	(19.0)	

Note 1. Lifting capacity are based on ISO 10567.

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- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
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Make adjustments to the rated load as necessary for non-standard configurations.

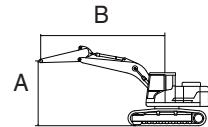
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A L HX350A L	MONO BOOM	6450	4050	6000	600	-	-	-	-	-



: 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									*4720	*4720			*4530	*4530	7.55
	lb									*10410	*10410			*9990	*9990	(24.8)
7.5 m (24.6 ft)	kg													*4200	*4200	8.72
	lb													*9260	*9260	(28.6)
6.0 m (19.7 ft)	kg									*6840	*6840	*5820	5240	*4070	*4070	9.50
	lb									*15080	*15080	*12830	11550	*8970	*8970	(31.2)
4.5 m (14.8 ft)	kg									*7580	6940	*7160	5140	*4080	*4080	10.00
	lb									*16710	15300	*15790	11330	*8990	*8990	(32.8)
3.0 m (9.8 ft)	kg				*13380	*13380	*10160	9310	*8570	6630	7440	4980	*4210	4000	10.25	
	lb				*29500	*29500	*22400	20530	*18890	14620	16400	10980	*9280	8820	(33.6)	
1.5 m (4.9 ft)	kg				*16630	13330	*11910	8760	*9580	6330	7260	4810	*4460	3900	10.28	
	lb				*36660	29390	*26260	19310	*21120	13960	16010	10600	*9830	8600	(33.7)	
0.0 m (0.0 ft)	kg		*6360	*6360	*18490	12700	13170	8360	9340	6090	7120	4680	*4880	3960	10.08	
	lb		*14020	*14020	*40760	28000	29030	18430	20590	13430	15700	10320	*10760	8730	(33.1)	
-1.5 m (-4.9 ft)	kg	*6460	*6460	*9880	*9880	*19020	12460	12920	8140	9180	5940	7040	4600	*5570	4190	9.64
	lb	*14240	*14240	*21780	*21780	*41930	27470	28480	17950	20240	13100	15520	10140	*12280	9240	(31.6)
-3.0 m (-9.8 ft)	kg	*10380	*10380	*14460	*14460	*18480	12470	12870	8100	9150	5910			*6730	4690	8.92
	lb	*22880	*22880	*31880	*31880	*40740	27490	28370	17860	20170	13030			*14840	10340	(29.3)
-4.5 m (-14.8 ft)	kg	*15030	*15030	*20820	*20820	*16810	12670	*12610	8210	9280	6030			8700	5690	7.86
	lb	*33140	*33140	*45900	*45900	*37060	27930	*27800	18100	20460	13290			19180	12540	(25.8)
-6.0 m (-19.7 ft)	kg			*18520	*18520	*13360	13110	*9600	8570					*8930	8100	6.26
	lb			*40830	*40830	*29450	28900	*21160	18890					*19690	17860	(20.5)

Note 1. Lifting capacity are based on ISO 10567.

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4. \*Indicates load limited by hydraulic capacity.

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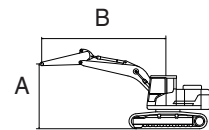
Make adjustments to the rated load as necessary for non-standard configurations.














Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A NL	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A NL	BOOM	6150	2200	6000	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
												
7.5 m (24.6 ft)	kg lb					*9770 *21540	8680 19140			*9930 *21890	7940 17500	6.32 (20.7)
6.0 m (19.7 ft)	kg lb					*9990 *22020	8570 18890			*9710 *21410	6140 13540	7.37 (24.2)
4.5 m (14.8 ft)	kg lb					*11170 *24630	8210 18100	*9870 *21760	5870 12940	9040 19930	5290 11660	8.00 (26.3)
3.0 m (9.8 ft)	kg lb					*12680 *27950	7790 17170	9840 21690	5690 12540	8390 18500	4880 10760	8.31 (27.3)
1.5 m (4.9 ft)	kg lb					13520 29810	7460 16450	9650 21270	5520 12170	8250 18190	4760 10490	8.34 (27.4)
0.0 m (0.0 ft)	kg lb					13310 29340	7290 16070	9540 21030	5420 11950	8560 18870	4920 10850	8.09 (26.6)
-1.5 m (-4.9 ft)	kg lb			*18550 *40900	10950 24140	13300 29320	7280 16050	9580 21120	5460 12040	9520 20990	5430 11970	7.54 (24.7)
-3.0 m (-9.8 ft)	kg lb	*21280 *46910	*21280 *46910	*16410 *36180	11160 24600	*12380 *27290	7440 16400			*10710 *23610	6620 14590	6.59 (21.6)
-4.5 m (-14.8 ft)	kg lb											

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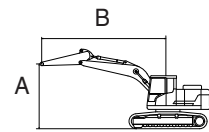
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


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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A NL	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A NL	BOOM	6150	2500	6000	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					*9120	8760			*9270	7580	6.53
	lb					*20110	19310			*20440	16710	(21.4)
6.0 m (19.7 ft)	kg					*9490	8610	*9160	5990	*9000	5920	7.56
	lb					*20920	18980	*20190	13210	*19840	13050	(24.8)
4.5 m (14.8 ft)	kg			*13450	12640	*10720	8240	*9490	5880	8740	5110	8.17
	lb			*29650	27870	*23630	18170	*20920	12960	19270	11270	(26.8)
3.0 m (9.8 ft)	kg					*12280	7800	9830	5670	8130	4710	8.48
	lb					*27070	17200	21670	12500	17920	10380	(27.8)
1.5 m (4.9 ft)	kg					13500	7440	9610	5480	7970	4580	8.51
	lb					29760	16400	21190	12080	17570	10100	(27.9)
0.0 m (0.0 ft)	kg			*19520	10790	13260	7230	9480	5360	8250	4710	8.27
	lb			*43030	23790	29230	15940	20900	11820	18190	10380	(27.1)
-1.5 m (-4.9 ft)	kg	*13500	*13500	*18800	10810	13200	7190	9470	5350	9100	5170	7.72
	lb	*29760	*29760	*41450	23830	29100	15850	20880	11790	20060	11400	(25.3)
-3.0 m (-9.8 ft)	kg	*22610	21470	*16930	11000	*12790	7310			*10800	6220	6.80
	lb	*49850	47330	*37320	24250	*28200	16120			*23810	13710	(22.3)
-4.5 m (-14.8 ft)	kg			*12950	11420					*10620	9070	5.30
	lb			*28550	25180					*23410	20000	(17.4)

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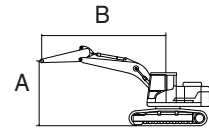
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














Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A NL	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A NL	BOOM	6150	3200	6000	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)												At max. reach				
	1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity	Reach			
															m (ft)		
7.5 m (24.6 ft)	kg														*5600	*5600	7.37
	lb														*12350	*12350	(24.2)
6.0 m (19.7 ft)	kg								*8150	6130					*5380	5150	8.29
	lb								*17970	13510					*11860	11350	(27.2)
4.5 m (14.8 ft)	kg							*9700	8420	*8720	5960			*5390	4530	8.85	
	lb							*21380	18560	*19220	13140			*11880	9990	(29.0)	
3.0 m (9.8 ft)	kg				*15260	12010	*11390	7950	*9570	5730	*6770	4310	*5590	4200	9.14		
	lb				*33640	26480	*25110	17530	*21100	12630	*14930	9500	*12320	9260	(30.0)		
1.5 m (4.9 ft)	kg				*18110	11190	*12960	7520	9650	5500	7320	4210	*6000	4090	9.16		
	lb				*39930	24670	*28570	16580	21270	12130	16140	9280	*13230	9020	(30.1)		
0.0 m (0.0 ft)	kg				*19360	10800	13280	7240	9460	5330			*6700	4180	8.94		
	lb				*42680	23810	29280	15960	20860	11750			*14770	9220	(29.3)		
-1.5 m (-4.9 ft)	kg	*8630	*8630	*12740	*12740	*19280	10710	13140	7120	9380	5260			*7900	4510	8.44	
	lb	*19030	*19030	*28090	*28090	*42510	23610	28970	15700	20680	11600			*17420	9940	(27.7)	
-3.0 m (-9.8 ft)	kg	*14330	*14330	*19940	*19940	*18040	10820	13180	7160	9450	5330			9270	5240	7.61	
	lb	*31590	*31590	*43960	*43960	*39770	23850	29060	15790	20830	11750			20440	11550	(25.0)	
-4.5 m (-14.8 ft)	kg			*20900	*20900	*15210	11110	*11110	7400					*10240	6940	6.31	
	lb			*46080	*46080	*33530	24490	*24490	16310					*22580	15300	(20.7)	

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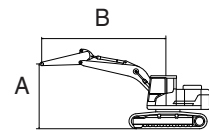
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



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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A NL	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A NL	BOOM	6450	2200	6000	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
												
7.5 m (24.6 ft)	kg					*9310	8690			*9450	7160	6.72
	lb					*20530	19160			*20830	15790	(22.0)
6.0 m (19.7 ft)	kg					*9820	8490	*9220	5940	*9260	5660	7.71
	lb					*21650	18720	*20330	13100	*20410	12480	(25.3)
4.5 m (14.8 ft)	kg					*11110	8080	*9610	5800	8440	4910	8.32
	lb					*24490	17810	*21190	12790	18610	10820	(27.3)
3.0 m (9.8 ft)	kg					*12640	7630	9740	5590	7870	4550	8.62
	lb					*27870	16820	21470	12320	17350	10030	(28.3)
1.5 m (4.9 ft)	kg					13330	7290	9530	5410	7740	4440	8.65
	lb					29390	16070	21010	11930	17060	9790	(28.4)
0.0 m (0.0 ft)	kg					13140	7130	9410	5300	8010	4570	8.41
	lb					28970	15720	20750	11680	17660	10080	(27.6)
-1.5 m (-4.9 ft)	kg			*18160	10770	13130	7130	9420	5310	8820	5010	7.87
	lb			*40040	23740	28950	15720	20770	11710	19440	11050	(25.8)
-3.0 m (-9.8 ft)	kg	*20430	*20430	*16220	10970	*12510	7270			*10140	6010	6.97
	lb	*45040	*45040	*35760	24180	*27580	16030			*22350	13250	(22.9)
-4.5 m (-14.8 ft)	kg			*12360	11400					*9550	8580	5.53
	lb			*27250	25130					*21050	18920	(18.1)

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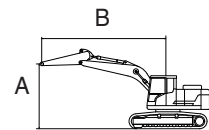
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Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A NL	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A NL		6450	2500	6000	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									*8850	6860	6.93
	lb									*19510	15120	(22.7)
6.0 m (19.7 ft)	kg				*9350	8530	*8770	5970	*8770	5460	7.90	
	lb				*20610	18810	*19330	13160	*19330	12040	(25.9)	
4.5 m (14.8 ft)	kg		*13800	12350	*10670	8110	*9270	5800	8170	4750	8.49	
	lb		*30420	27230	*23520	17880	*20440	12790	18010	10470	(27.9)	
3.0 m (9.8 ft)	kg				*12250	7640	9730	5570	7620	4390	8.79	
	lb				*27010	16840	21450	12280	16800	9680	(28.8)	
1.5 m (4.9 ft)	kg				13310	7260	9500	5370	7480	4280	8.82	
	lb				29340	16010	20940	11840	16490	9440	(28.9)	
0.0 m (0.0 ft)	kg		*15250	10560	13070	7070	9350	5240	7720	4380	8.58	
	lb		*33620	23280	28810	15590	20610	11550	17020	9660	(28.2)	
-1.5 m (-4.9 ft)	kg		*18440	10610	13030	7030	9330	5220	8450	4770	8.06	
	lb		*40650	23390	28730	15500	20570	11510	18630	10520	(26.4)	
-3.0 m (-9.8 ft)	kg	*21550	21230	*16710	10800	*12810	7140		10090	5660	7.18	
	lb	*47510	46800	*36840	23810	*28240	15740		22240	12480	(23.6)	
-4.5 m (-14.8 ft)	kg		*13340	11190					*10070	7860	5.79	
	lb		*29410	24670					*22200	17330	(19.0)	

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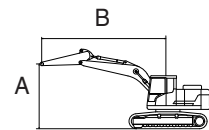
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












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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A NL	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A NL		6150	3200	6000	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)
7.5 m (24.6 ft)	kg							*6850	6150					*5610	*5610	7.75
	lb							*15100	13560					*12370	*12370	(25.4)
6.0 m (19.7 ft)	kg							*7900	6090					*5430	4770	8.62
	lb							*17420	13430					*11970	10520	(28.3)
4.5 m (14.8 ft)	kg			*12040	*12040	*9710	8290	*8550	5890	*6680	4360	*5450	4220	*12020	9300	9.17
	lb			*26540	*26540	*21410	18280	*18850	12990	*14730	9610	*12020	9300	*12020	9300	(30.1)
3.0 m (9.8 ft)	kg			*15620	11680	*11400	7790	*9440	5630	7380	4250	*5660	3930	*12480	8660	9.44
	lb			*34440	25750	*25130	17170	*20810	12410	16270	9370	*12480	8660	*12480	8660	(31.0)
1.5 m (4.9 ft)	kg			*17420	10880	*12920	7350	9530	5390	7250	4130	*6060	3820	*13360	8420	9.47
	lb			*38400	23990	*28480	16200	21010	11880	15980	9110	*13360	8420	*13360	8420	(31.1)
0.0 m (0.0 ft)	kg			*17270	10550	13090	7070	9330	5220	7150	4050	*6730	3900	*14840	8600	9.25
	lb			*38070	23260	28860	15590	20570	11510	15760	8930	*14840	8600	*14840	8600	(30.3)
-1.5 m (-4.9 ft)	kg	*10830	*10830	*18990	10490	12960	6960	9250	5140			7410	4180			8.77
	lb	*23880	*23880	*41870	23130	28570	15340	20390	11330			16340	9220			(28.8)
-3.0 m (-9.8 ft)	kg	*17510	*17510	*17780	10610	13010	7000	9300	5190			8550	4810			7.97
	lb	*38600	*38600	*39200	23390	28680	15430	20500	11440			18850	10600			(26.2)
-4.5 m (-14.8 ft)	kg	*20690	*20690	*15260	10900	*11460	7210					*9660	6190			6.75
	lb	*45610	*45610	*33640	24030	*25260	15900					*21300	13650			(22.1)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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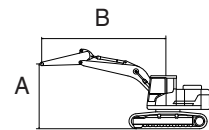
Failure to comply to the rated load can cause possible personal injury or property damage.














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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A NL	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX350A NL		6450	4050	6000	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									*4740	*4740			*4530	*4530	7.56
	lb									*10450	*10450			*9990	*9990	(24.8)
7.5 m (24.6 ft)	kg													*4190	*4190	8.72
	lb													*9240	*9240	(28.6)
6.0 m (19.7 ft)	kg									*6840	6210	*5830	4510	*4070	4050	9.51
	lb									*15080	13690	*12850	9940	*8970	8930	(31.2)
4.5 m (14.8 ft)	kg									*7590	5970	*7160	4410	*4080	3630	10.00
	lb									*16730	13160	*15790	9720	*8990	8000	(32.8)
3.0 m (9.8 ft)	kg				*13400	12150	*10170	7950	*8570	5680	7400	4250	*4210	3390	10.25	
	lb				*29540	26790	*22420	17530	*18890	12520	16310	9370	*9280	7470	(33.6)	
1.5 m (4.9 ft)	kg				*16640	11110	*11920	7420	9550	5390	7220	4090	*4460	3300	10.28	
	lb				*36680	24490	*26280	16360	21050	11880	15920	9020	*9830	7280	(33.7)	
0.0 m (0.0 ft)	kg			*6370	*6370	*18500	10520	13080	7040	9280	5150	7070	3960	*4890	3340	10.08
	lb			*14040	*14040	*40790	23190	28840	15520	20460	11350	15590	8730	*10780	7360	(33.1)
-1.5 m (-4.9 ft)	kg	*6480	*6480	*9910	*9910	*19020	10300	12840	6830	9120	5010	6990	3880	*5570	3540	9.64
	lb	*14290	*14290	*21850	*21850	*41930	22710	28310	15060	20110	11050	15410	8550	*12280	7800	(31.6)
-3.0 m (-9.8 ft)	kg	*10400	*10400	*14490	*14490	*18480	10310	12790	6790	9090	4980			*6740	3960	8.92
	lb	*22930	*22930	*31940	*31940	*40740	22730	28200	14970	20040	10980			*14860	8730	(29.3)
-4.5 m (-14.8 ft)	kg	*15060	*15060	*20860	20540	*16800	10500	*12600	6900	9230	5100			8660	4820	7.85
	lb	*33200	*33200	*45990	45280	*37040	23150	*27780	15210	20350	11240			19090	10630	(25.8)
-6.0 m (-19.7 ft)	kg			*18490	*18490	*13330	10920	*9580	7240					*8930	6880	6.24
	lb			*40760	*40760	*29390	24070	*21120	15960					*19690	15170	(20.5)

Note 1. Lifting capacity are based on ISO 10567.

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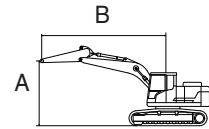
Failure to comply to the rated load can cause possible personal injury or property damage.












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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A HW HX350A HW	MONO BOOM	6150	2200	6000	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
												
7.5 m (24.6 ft)	kg lb					*9690 *21360	*9690 *21360			*9860 *21740	9720 21430	6.55 (21.5)
6.0 m (19.7 ft)	kg lb					*10160 *22400	*10160 *22400	*9690 *21360	7760 17110	*9700 *21380	7740 17060	7.51 (24.7)
4.5 m (14.8 ft)	kg lb					*11450 *25240	10700 23590	*9970 *21980	7650 16870	9410 20750	6800 14990	8.08 (26.5)
3.0 m (9.8 ft)	kg lb					*12940 *28530	10260 22620	10390 22910	7460 16450	8850 19510	6380 14070	8.34 (27.4)
1.5 m (4.9 ft)	kg lb					*14050 *30970	9940 21910	10210 22510	7290 16070	8780 19360	6310 13910	8.32 (27.3)
0.0 m (0.0 ft)	kg lb					14110 31110	9790 21580	10120 22310	7200 15870	9230 20350	6610 14570	8.02 (26.3)
-1.5 m (-4.9 ft)	kg lb			*18260 *40260	15100 33290	*13870 *30580	9800 21610			10400 22930	7410 16340	7.39 (24.3)
-3.0 m (-9.8 ft)	kg lb	*20480 *45150	*20480 *45150	*15810 *34860	15370 33890	*11780 *25970	10020 22090			*10670 *23520	9290 20480	6.36 (20.9)
-4.5 m (-14.8 ft)	kg lb											

Note 1. Lifting capacity are based on ISO 10567.

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

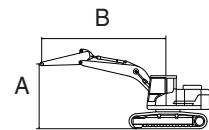
Make adjustments to the rated load as necessary for non-standard configurations.














Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A HW HX350A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6150	2500	6000	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
												
7.5 m (24.6 ft)	kg lb					*9090 *20040	*9090 *20040			*9230 *20350	*9230 *20350	6.76 (22.2)
6.0 m (19.7 ft)	kg lb					*9670 *21320	*9670 *21320	*9160 *20190	7810 17220	*8980 *19800	7470 16470	7.70 (25.3)
4.5 m (14.8 ft)	kg lb			*14100 *31090	*14100 *31090	*11000 *24250	10730 23660	*9610 *21190	7650 16870	*9080 *20020	6580 14510	8.25 (27.1)
3.0 m (9.8 ft)	kg lb					*12560 *27690	10260 22620	*10340 *22800	7440 16400	8570 18890	6170 13600	8.51 (27.9)
1.5 m (4.9 ft)	kg lb					*13780 *30380	9900 21830	10170 22420	7250 15980	8490 18720	6090 13430	8.49 (27.8)
0.0 m (0.0 ft)	kg lb			*19470 *42920	14890 32830	14050 30970	9720 21430	10060 22180	7140 15740	8880 19580	6350 14000	8.19 (26.9)
-1.5 m (-4.9 ft)	kg lb	*15450 *34060	*15450 *34060	*18550 *40900	14950 32960	*13970 *30800	9700 21380	10080 22220	7160 15790	9940 21910	7070 15590	7.58 (24.9)
-3.0 m (-9.8 ft)	kg lb	*21840 *48150	*21840 *48150	*16400 *36160	15190 33490	*12330 *27180	9870 21760			*10830 *23880	8730 19250	6.57 (21.6)
-4.5 m (-14.8 ft)	kg lb											

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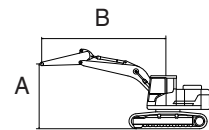
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












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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A HW HX350A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6150	3200	6000	600	-	-	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)	Lift-point radius (B)												At max. reach			
	1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity	Reach		
															m (ft)	
7.5 m (24.6 ft)	kg									*5980	*5980			*5540	*5540	7.57
	lb									*13180	*13180			*12210	*12210	(24.8)
6.0 m (19.7 ft)	kg									*8220	7940			*5370	*5370	8.42
	lb									*18120	17500			*11840	*11840	(27.6)
4.5 m (14.8 ft)	kg				*12330	*12330	*10010	*10010	*8860	7740				*5420	*5420	8.93
	lb				*27180	*27180	*22070	*22070	*19530	17060				*11950	*11950	(29.3)
3.0 m (9.8 ft)	kg				*15890	*15890	*11710	10410	*9740	7490	*7060	5680	*5650	5530	9.16	
	lb				*35030	*35030	*25820	22950	*21470	16510	*15560	12520	*12460	12190	(30.1)	
1.5 m (4.9 ft)	kg				*18470	15230	*13200	9980	10200	7260	*7580	5580	*6100	5450	9.14	
	lb				*40720	33580	*29100	22000	22490	16010	*16710	12300	*13450	12020	(30.0)	
0.0 m (0.0 ft)	kg				*7970	*7970	*19440	14890	14050	9720	10020	7100		*6880	5630	8.87
	lb				*17570	*17570	*42860	32830	30970	21430	22090	15650		*15170	12410	(29.1)
-1.5 m (-4.9 ft)	kg	*9670	*9670	*13940	*13940	*19140	14830	13950	9620	9970	7050			*8220	6150	8.31
	lb	*21320	*21320	*30730	*30730	*42200	32690	30750	21210	21980	15540			*18120	13560	(27.3)
-3.0 m (-9.8 ft)	kg			*21590	*21590	*17650	14980	*13240	9700					*10070	7280	7.41
	lb			*47600	*47600	*38910	33030	*29190	21380					*22200	16050	(24.3)
-4.5 m (-14.8 ft)	kg			*19720	*19720	*14390	*14390							*10230	10030	5.99
	lb			*43480	*43480	*31720	*31720							*22550	22110	(19.7)

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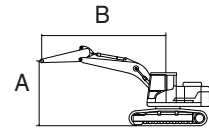
Make adjustments to the rated load as necessary for non-standard configurations.













Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A HW HX350A HW	MONO BOOM	6450	2200	6000	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									*9980	*9980	5.47
	lb									*22000	*22000	(18.0)
7.5 m (24.6 ft)	kg				*9310	*9310				*9390	8830	6.94
	lb				*20530	*20530				*20700	19470	(22.8)
6.0 m (19.7 ft)	kg				*10010	*10010	*9240	7750		*9250	7170	7.85
	lb				*22070	*22070	*20370	17090		*20390	15810	(25.8)
4.5 m (14.8 ft)	kg				*11400	10550	*9730	7580		8800	6360	8.40
	lb				*25130	23260	*21450	16710		19400	14020	(27.6)
3.0 m (9.8 ft)	kg				*12900	10080	10290	7350		8310	5980	8.65
	lb				*28440	22220	22690	16200		18320	13180	(28.4)
1.5 m (4.9 ft)	kg				*13940	9760	10090	7170		8250	5920	8.63
	lb				*30730	21520	22240	15810		18190	13050	(28.3)
0.0 m (0.0 ft)	kg				13940	9620	9990	7080		8630	6170	8.33
	lb				30730	21210	22020	15610		19030	13600	(27.3)
-1.5 m (-4.9 ft)	kg			*17880	14910	*13740	9640	10040	7120	9630	6860	7.74
	lb			*39420	32870	*30290	21250	22130	15700	21230	15120	(25.4)
-3.0 m (-9.8 ft)	kg	*19800	*19800	*15700	15160	*12050	9830			*10110	8400	6.75
	lb	*43650	*43650	*34610	33420	*26570	21670			*22290	18520	(22.2)

Note 1. Lifting capacity are based on ISO 10567.

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- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

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

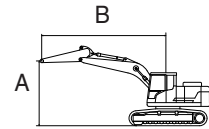
Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A HW HX350A HW	MONO BOOM	6450	2500	6000	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									*8820	8470	7.15
	lb									*19440	18670	(23.4)
6.0 m (19.7 ft)	kg				*9560	*9560	*8820	7770	*8770	6930	8.04	
	lb				*21080	*21080	*19440	17130	*19330	15280	(26.4)	
4.5 m (14.8 ft)	kg		*14480	*14480	*10970	10590	*9400	7570	8530	6150	8.57	
	lb		*31920	*31920	*24180	23350	*20720	16690	18810	13560	(28.1)	
3.0 m (9.8 ft)	kg				*12530	10090	*10170	7330	8050	5780	8.81	
	lb				*27620	22240	*22420	16160	17750	12740	(28.9)	
1.5 m (4.9 ft)	kg				*13690	9730	10050	7130	7970	5710	8.79	
	lb				*30180	21450	22160	15720	17570	12590	(28.8)	
0.0 m (0.0 ft)	kg		*16690	14660	13860	9550	9930	7020	8310	5930	8.51	
	lb		*36800	32320	30560	21050	21890	15480	18320	13070	(27.9)	
-1.5 m (-4.9 ft)	kg	*12640	*12640	*18190	14740	*13820	9540	9930	7020	9210	6540	7.92
	lb	*27870	*27870	*40100	32500	*30470	21030	21890	15480	20300	14420	(26.0)
-3.0 m (-9.8 ft)	kg	*21170	*21170	*16240	14980	*12440	9690			*10220	7920	6.97
	lb	*46670	*46670	*35800	33030	*27430	21360			*22530	17460	(22.9)
-4.5 m (-14.8 ft)	kg			*12360	*12360					*9930	*9930	5.44
	lb			*27250	*27250					*21890	*21890	(17.9)

Note 1. Lifting capacity are based on ISO 10567.

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- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
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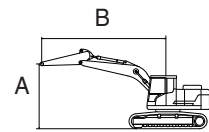
Failure to comply to the rated load can cause possible personal injury or property damage.















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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX330A HW HX350A HW	MONO BOOM	6450	3200	6000	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													*6000	*6000	6.70
	lb													*13230	*13230	(22.0)
7.5 m (24.6 ft)	kg						*7510	*7510					*5560	*5560	7.94	
	lb						*16560	*16560					*12260	*12260	(26.1)	
6.0 m (19.7 ft)	kg						*7990	7890					*5420	*5420	8.75	
	lb						*17610	17390					*11950	*11950	(28.7)	
4.5 m (14.8 ft)	kg			*12700	*12700	*10010	*10010	*8710	7660	*7170	5750	*5480	*5480	9.24		
	lb			*28000	*28000	*22070	*22070	*19200	16890	*15810	12680	*12080	*12080	(30.3)		
3.0 m (9.8 ft)	kg			*16230	15690	*11720	10240	*9600	7390	7820	5620	*5710	5200	9.47		
	lb			*35780	34590	*25840	22580	*21160	16290	17240	12390	*12590	11460	(31.1)		
1.5 m (4.9 ft)	kg			*16720	14910	*13140	9810	10080	7150	7690	5500	*6160	5120	9.45		
	lb			*36860	32870	*28970	21630	22220	15760	16950	12130	*13580	11290	(31.0)		
0.0 m (0.0 ft)	kg			*17930	14620	13870	9550	9900	6980	7610	5430	*6900	5280	9.18		
	lb			*39530	32230	30580	21050	21830	15390	16780	11970	*15210	11640	(30.1)		
-1.5 m (-4.9 ft)	kg	*11980	*11980	*18840	14600	13770	9460	9840	6920			8050	5730	8.65		
	lb	*26410	*26410	*41540	32190	30360	20860	21690	15260			17750	12630	(28.4)		
-3.0 m (-9.8 ft)	kg	*18980	*18980	*17420	14760	*13180	9530	9930	7010			9440	6690	7.78		
	lb	*41840	*41840	*38400	32540	*29060	21010	21890	15450			20810	14750	(25.5)		
-4.5 m (-14.8 ft)	kg	*19660	*19660	*14570	*14570	*10820	9810					*9650	8880	6.46		
	lb	*43340	*43340	*32120	*32120	*23850	21630					*21270	19580	(21.2)		

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

※ Lifting capacities are based upon a standard machine conditions.

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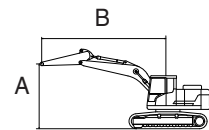
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












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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX330A HW HX350A HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6450	4050	6000	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																	
	lb																	
7.5 m (24.6 ft)	kg																	
	lb																	
6.0 m (19.7 ft)	kg																	
	lb																	
4.5 m (14.8 ft)	kg																	
	lb																	
3.0 m (9.8 ft)	kg																	
	lb																	
1.5 m (4.9 ft)	kg																	
	lb																	
0.0 m (0.0 ft)	kg																	
	lb																	
-1.5 m (-4.9 ft)	kg																	
	lb																	
-3.0 m (-9.8 ft)	kg																	
	lb																	
-4.5 m (-14.8 ft)	kg																	
	lb																	
-6.0 m (-19.7 ft)	kg																	
	lb																	

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

※ **Lifting capacities are based upon a standard machine conditions.**  
**Lifting capacities will vary with different work tools, ground conditions and attachments.**  
**The difference between the weight of a work tool attachment must be subtracted.**  
**Consult your HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.**  
**Failure to comply to the rated load can cause possible personal injury or property damage.**  
**Make adjustments to the rated load as necessary for non-standard configurations.**

## 6. BUCKET SELECTION GUIDE

### 1) BUCKET SELECTION



General bucket



Heavy duty  
(without side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
	SAE Heaped	CECE heaped				Recommendation						mm (ft-in)
						6.15 m (20' 2") Boom			6.45 m (21' 2") Boom			
	m <sup>3</sup> (yd <sup>3</sup> )	m <sup>3</sup> (yd <sup>3</sup> )				mm (in)	kg (lb)	EA	2.2 m (7' 3") Arm	2.5 m (8' 2") Arm	3.2 m (10' 6") Arm	2.2 m (7' 3") Arm
General bucket	1.44 (1.88)	1.25 (1.63)	1,380 (54.3")	1,110 (2,450)	5	●	●	●	●	●	●	●
	1.74 (2.28)	1.50 (1.96)	1,620 (63.8")	1,230 (2,710)	6	●	●	◐	●	●	◐	■
	2.10 (2.75)	1.83 (2.39)	1,910 (75.2")	1,370 (3,020)	6	◐	◐	■	◐	■	■	▲
Heavy duty	1.44 (1.88)	1.25 (1.63)	1,470 (57.9")	1,380 (3,040)	5	●	●	●	●	●	●	◐
Rock heavy duty	1.44 (1.88)	1.25 (1.63)	1,470 (57.9")	1,470 (3,240)	5	●	●	●	●	●	●	■
	1.60 (2.09)	1.39 (1.82)	1,585 (62.4")	1,650 (3,640)	5	●	●	◐	●	●	◐	■
	1.73 (2.26)	1.50 (1.96)	1,710 (67.3")	1,650 (3,640)	5	●	●	◐	◐	◐	■	▲
	1.83 (2.39)	1.59 (2.08)	1,765 (69.5")	1,845 (4,070)	5	◐	◐	■	◐	◐	■	▲

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

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

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

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

## 7. UNDERCARRIAGE

### 1) TYPES OF SHOES

Model	Description	Unit		Triple grouser								Double grouser	
		width	mm	(in)	600	(24)	700	(28)	800	(32)	900	(36)	700
HX330A L HX350A L	Operating weight	kg	(lb)	33680	74096	34260	75372	34650	76230	35040	77088	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.62	9.22	0.57	8.04	0.5	7.11	0.45	6.39	-	-
	Link quantity	EA		48		48		48		48		-	
HX330A NL HX350A NL	Operating weight	kg	(lb)	33460	73612	-	-	-	-	-	-	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.64	9.16	-	-	-	-	-	-	-	-
	Link quantity	EA		48		-		-		-		-	
HX330A HW HX350A HW	Operating weight	kg	(lb)	-	-	-	-	-	-	-	-	37100	81620
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	-	-	-	-	-	-	-	-	0.61	8.69
	Link quantity	EA		-		-		-		-		48	

### 2) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

#### Method of selecting shoes

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

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

**Table 1**

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

**Table 2**

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

## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Maker / Model	Cummins / L9
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	8.900 ℓ (543 cu in)
Compression ratio	16.72 : 1
Gross power	310 Hp (231 kW) at 2100 rpm
Net power	304 Hp (227 kW) at 2100 rpm
Max. power	325 Hp (242 kW) at 1800 rpm
Peak Torque	1526 N·m (1126 lbf·ft) at 1400 rpm
Engine oil quantity	30 ℓ (7.9 U.S. gal)
Wet weight	778 kg (1715 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 × 175 cc/rev
Rated oil flow	2 × 306.6 ℓ /min (80.9 U.S. gpm/67.4 U.K. gpm)
Rated speed	1750 rpm

[ ] : Power boost



### 3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm <sup>2</sup> (570 psi)
Rated oil flow	26.3 ℓ /min (6.9 U.S. gpm/5.8 U.K. gpm)

### 4) MAIN CONTROL VALVE

Item	Specification	
Type	10 spools	
Operating method	Hydraulic pilot system	
Main relief valve pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]	
Port relief valve pressure	Boom	400 kgf/cm <sup>2</sup> (5690 psi)
	Arm	400 kgf/cm <sup>2</sup> (5690 psi)
	Bucket	400 kgf/cm <sup>2</sup> (5690 psi)

[ ] : Power boost

### 5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	156.9 cc/rev
Relief pressure	300 kgf/cm <sup>2</sup> (4270 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	84.4 kgf · m (610 lbf · ft) over
Brake release pressure	36.5 kgf/cm <sup>2</sup> (519 psi) below
Reduction gear type	2 - stage planetary

### 6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Capacity	282.6/156.9 cc/rev
Relief pressure	350 kgf/cm <sup>2</sup> (4980 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	134 kgf · m (969 lbf · ft)
Brake release pressure	13.2~17.0 kgf/cm <sup>2</sup> (188~242 psi)
Reduction gear type	2-stage planetary

## 7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø150 × 1480 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø160 × 1685 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	Ø140 × 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-40, 0W-30										
							SAE 5W30, 5W40						
							SAE 10W-30						
							SAE 15W-40						
DEF/AdBlue® tank	Mixture of urea and deionized water	70 (18.5)	ISO 22241, High-purity urea + deionized water (32.5:67.5)										
Swing drive	Gear oil	11 (2.9)	★SAE 75W-90										
Final drive		7.8×2 (2.1×2)					SAE 80W-90						
Hydraulic tank	Hydraulic oil	Tank : 210 (55.5)  System : 414 (109)	★ISO VG 15										
							ISO VG 32						
							ISO VG 46, HBHO VG 46★ <sup>3</sup>						
							ISO VG 68						
Fuel tank	Diesel fuel★ <sup>1</sup>	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★ <sup>2</sup>	55 (14.5)	Ethylene glycol base permanent type (50 : 50)										
			★Ethylene glycol base permanent type (60 : 40)										

**SAE** : Society of Automotive Engineers

**API** : American Petroleum Institute

**ISO** : International Organization for Standardization

**NLGI** : National Lubricating Grease Institute

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

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

★ : Cold region (Russia, CIS, Mongolia)

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

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

★<sup>3</sup> : HD Hyundai Construction  
Equipment Bio Hydraulic Oil

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

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

※ Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).

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