

SECTION 1 GENERAL



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## SECTION 1 GENERAL

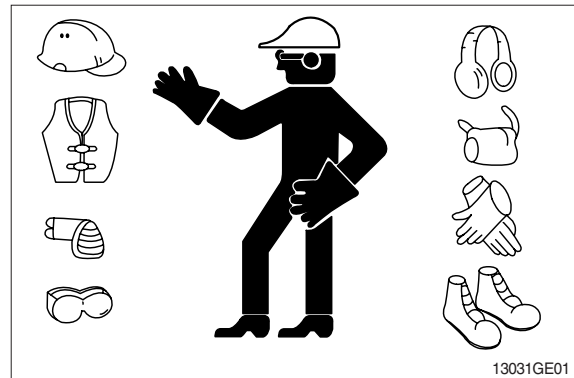
### GROUP 1 SAFETY

#### FOLLOW SAFE PROCEDURE

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

#### WEAR PROTECTIVE CLOTHING

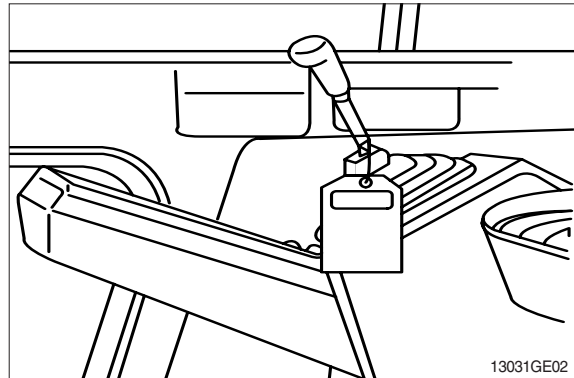
Wear close fitting clothing and safety equipment appropriate to the job.



#### 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.



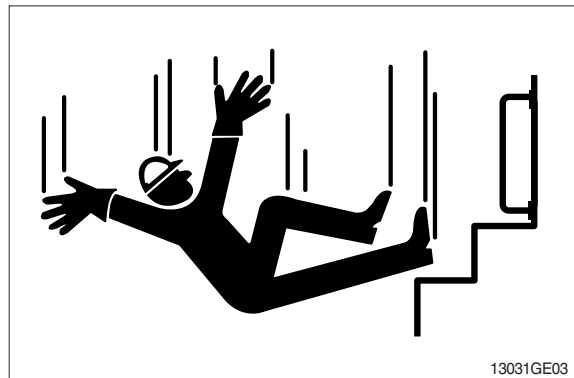
#### USE HANDHOLDS AND STEPS

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.

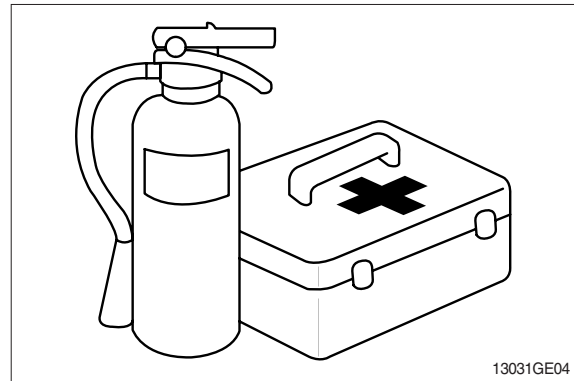


## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

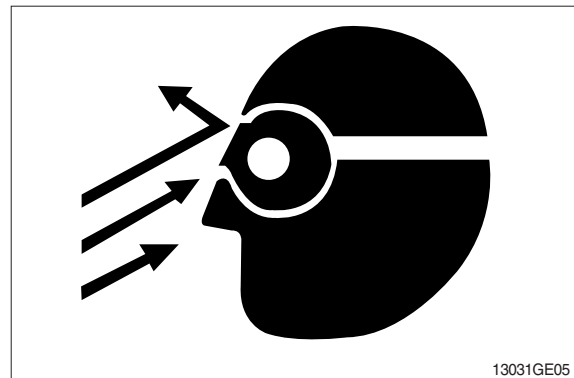
Keep a first aid kit and fire extinguisher handy.

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



## PROTECT AGAINST FLYING DEBRIS

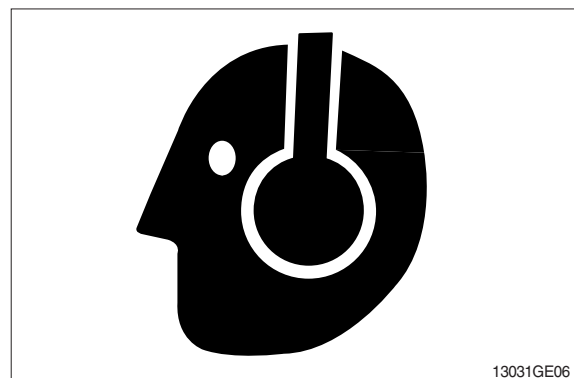
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



## PROTECT AGAINST NOISE

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

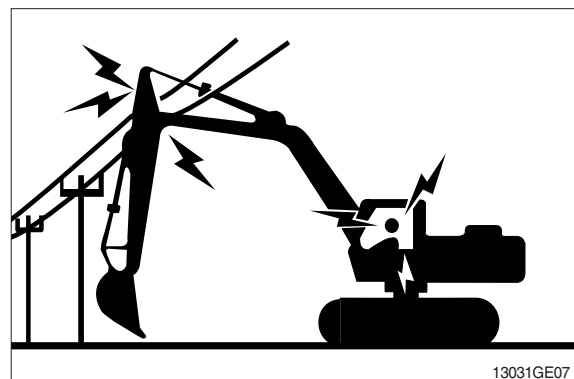
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



## AVOID POWER LINES

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

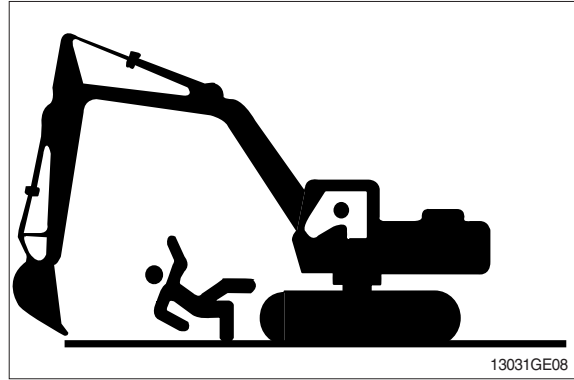
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



## 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.

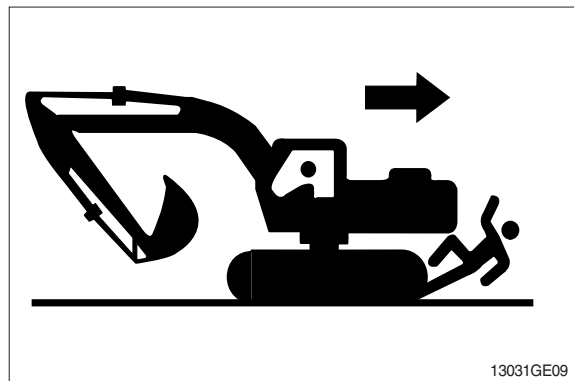


## MOVE AND OPERATE MACHINE SAFELY

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:

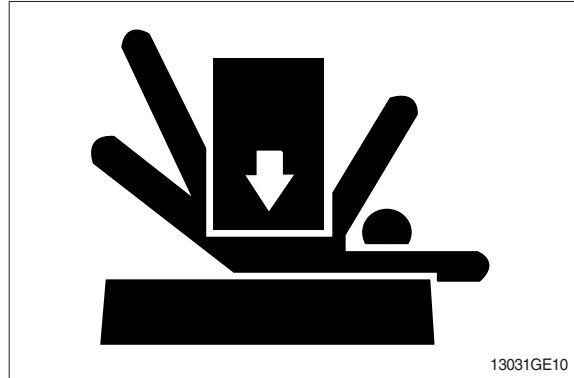
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

## 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.

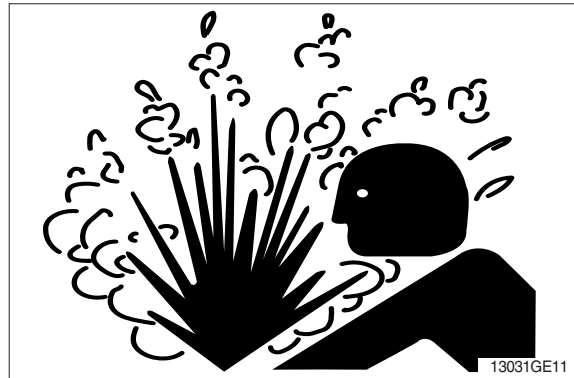
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



## 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

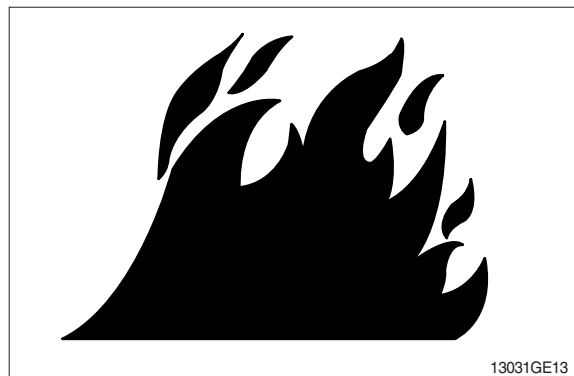
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

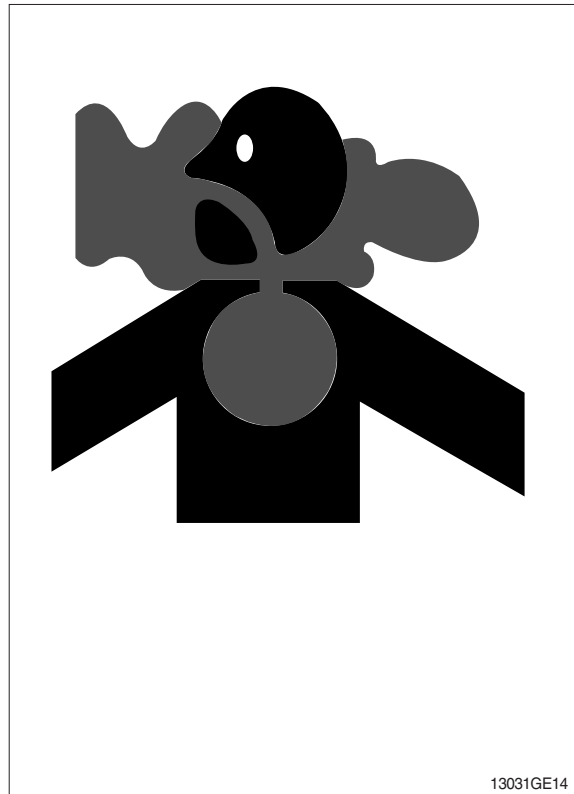
Avoid potentially toxic fumes and dust.

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

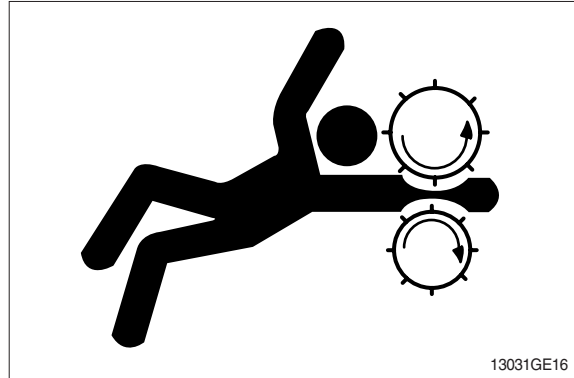
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



## 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.

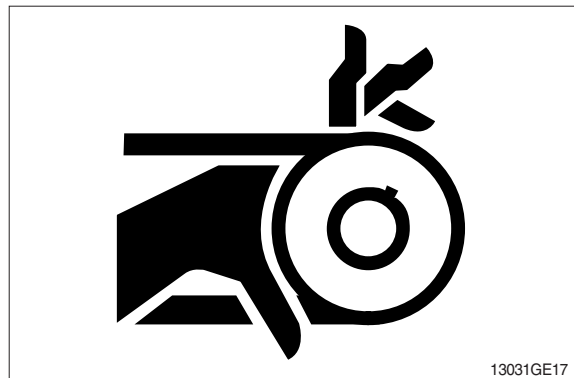
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



## STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



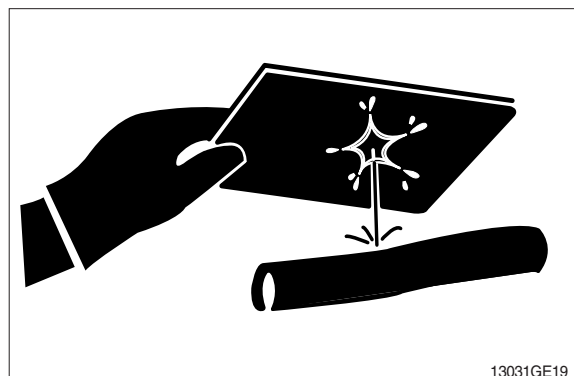
## AVOID HIGH PRESSURE FLUIDS

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:

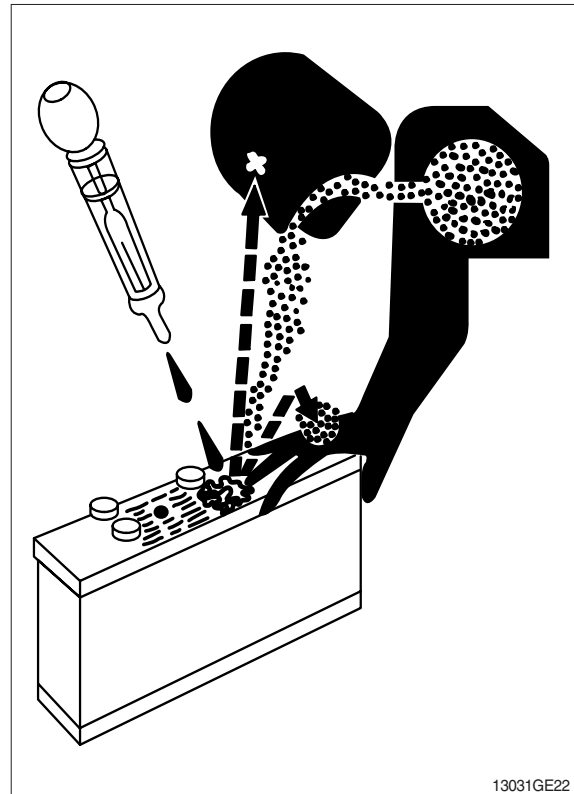
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



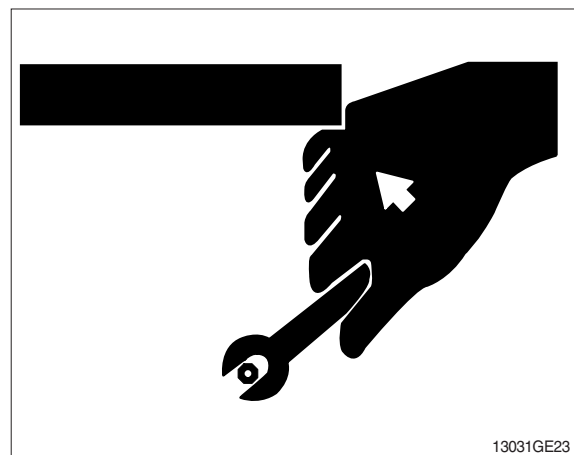
## USE TOOLS PROPERLY

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.)

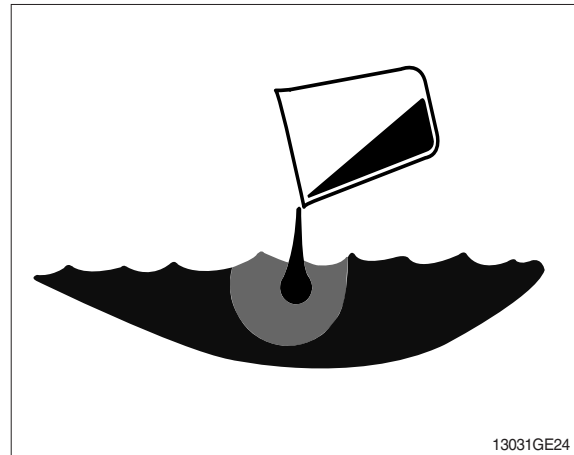


## DISPOSE OF FLUIDS PROPERLY

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.

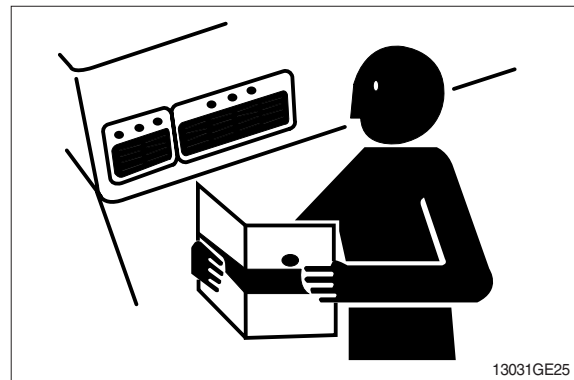
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

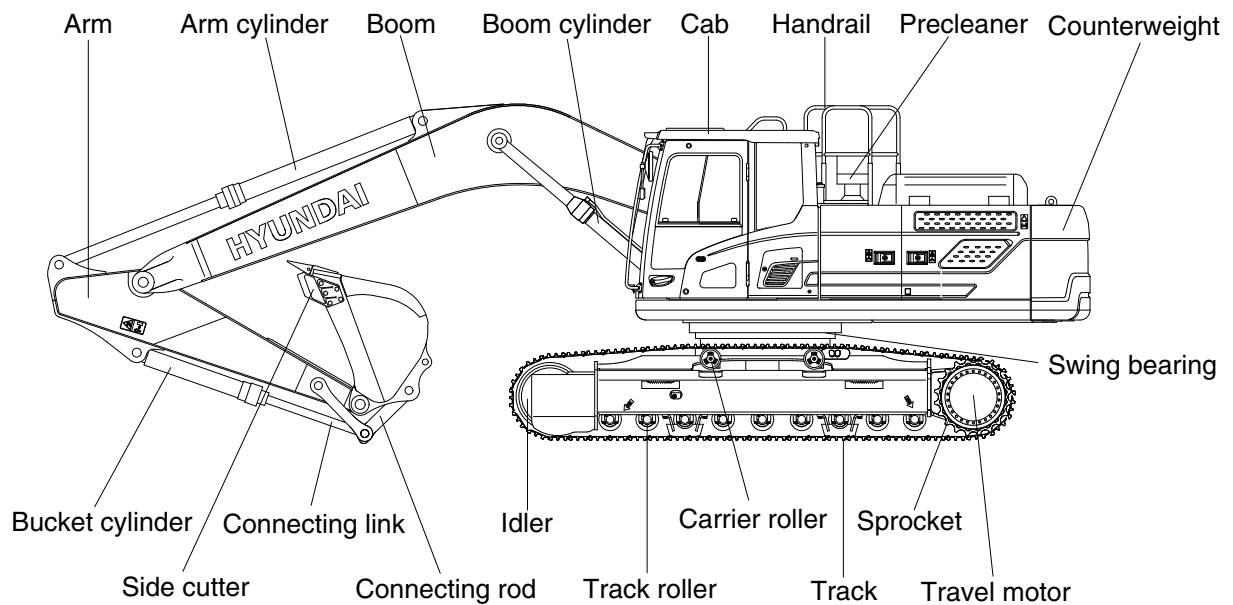
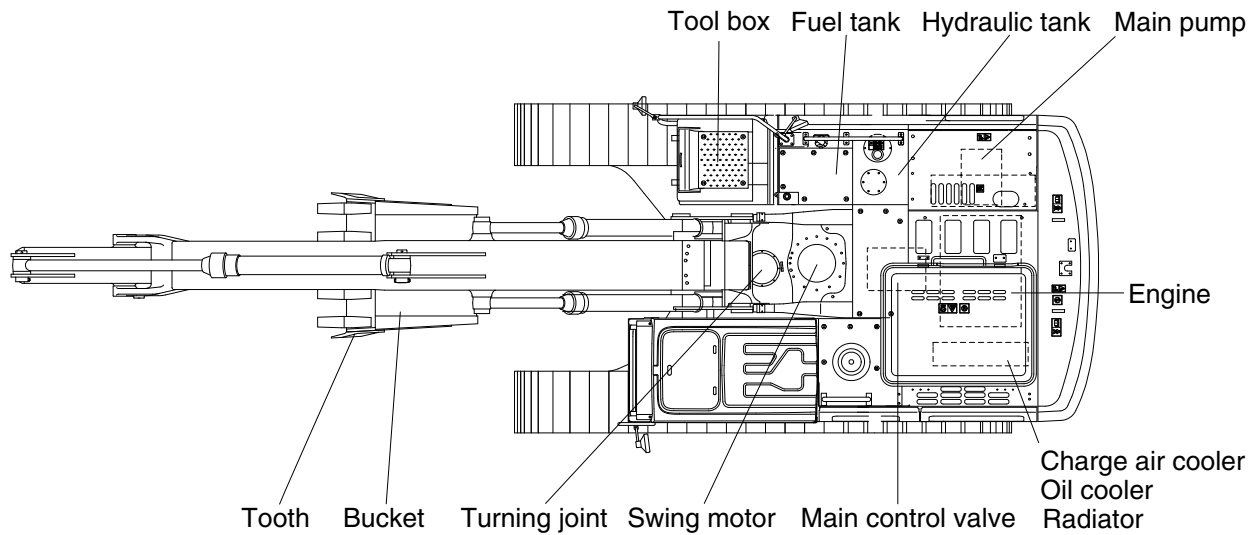


## LIVE WITH SAFETY

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

## GROUP 2 SPECIFICATIONS

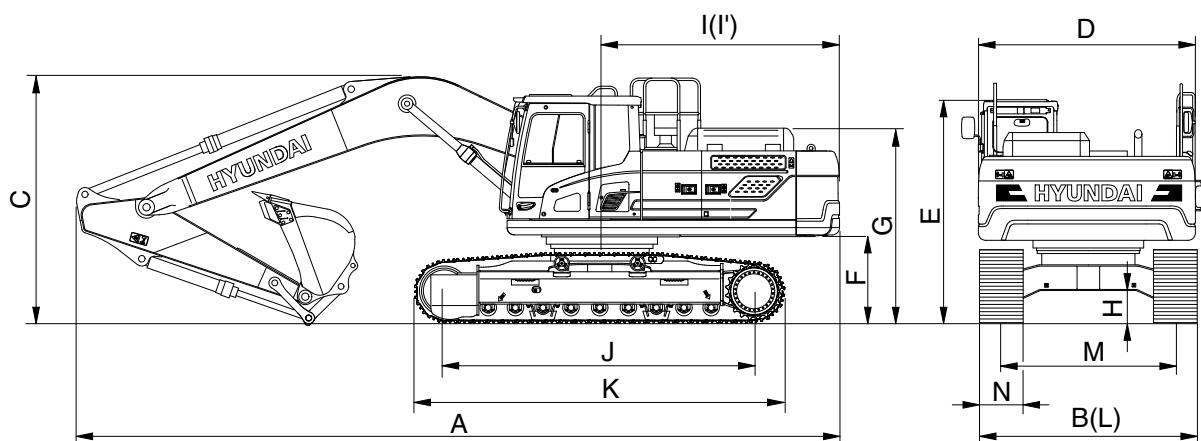
### 1. MAJOR COMPONENT



300SA2SP01

## 2. SPECIFICATIONS

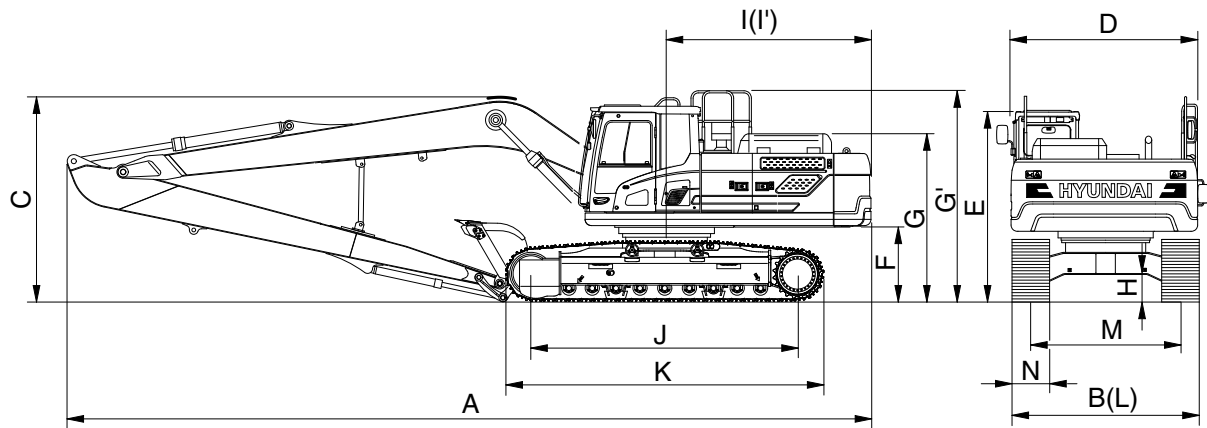
### 1) HX300LT3, MONO BOOM



300SA2SP02

Description	Unit		Specification			
	m (ft-in)	Boom	6.245 (20' 6")			
		Arm	3.10 (10' 2")	2.10 (6' 11")	2.50 (8' 2")	3.75 (12' 4")
	mm (in)	Shoe	600 (24")			
Operating weight	kg (lb)		29980 (66090)	29780 (65650)	29860 (65830)	30110 (66380)
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )		1.27 (1.66)	1.27 (1.66)	1.27 (1.66)	1.27 (1.66)
Overall length	A	mm (ft-in)	10560 (34' 8")	10710 (35' 2")	10670 (35' 0")	10630 (34' 11")
Overall width	B		3200 (10' 6")	3200 (10' 6")	3200 (10' 6")	3200 (10' 6")
Overall height of boom	C		3335 (10' 11")	3580 (11' 9")	3485 (11' 5")	3535 (11' 7")
Superstructure width	D		2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E		3125 (10' 3")	3125 (10' 3")	3125 (10' 3")	3125 (10' 3")
Ground clearance of counterweight	F		1180 (3' 10")	1180 (3' 10")	1180 (3' 10")	1180 (3' 10")
Overall height of engine hood	G		2600 (8' 6")	2600 (8' 6")	2600 (8' 6")	2600 (8' 6")
Overall height of handrail	G'		3330 (10' 11")	3330 (10' 11")	3330 (10' 11")	3330 (10' 11")
Minimum ground clearance	H		500 (1' 8")	500 (1' 8")	500 (1' 8")	500 (1' 8")
Rear-end distance	I		3265 (10' 9")	3265 (10' 9")	3265 (10' 9")	3265 (10' 9")
Rear-end swing radius	I'		3345 (11' 0")	3345 (11' 0")	3345 (11' 0")	3345 (11' 0")
Distance between tumblers	J		4040 (13' 3")	4040 (13' 3")	4040 (13' 3")	4040 (13' 3")
Undercarriage length	K		4940 (16' 2")	4940 (16' 2")	4940 (16' 2")	4940 (16' 2")
Undercarriage width	L		3200 (10' 6")	3200 (10' 6")	3200 (10' 6")	3200 (10' 6")
Track gauge	M		2600 (8' 6")	2600 (8' 6")	2600 (8' 6")	2600 (8' 6")
Track shoe width, standard	N		600 (24")	600 (24")	600 (24")	600 (24")
Travel speed (low/high)	km/hr (mph)		3.3(2.05) / 5.94(3.69)	3.3(2.05) / 5.94(3.69)	3.3(2.05) / 5.94(3.69)	3.3(2.05) / 5.94(3.69)
Swing speed	rpm		11.56	11.56	11.56	11.56
Gradeability	Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure	kgf/cm <sup>2</sup> (psi)		0.58 (8.21)	0.57 (8.15)	0.57 (8.17)	0.58 (8.24)
Max traction force	kg (lb)		27405 (60417)	27405 (60417)	27405 (60417)	27405 (60417)

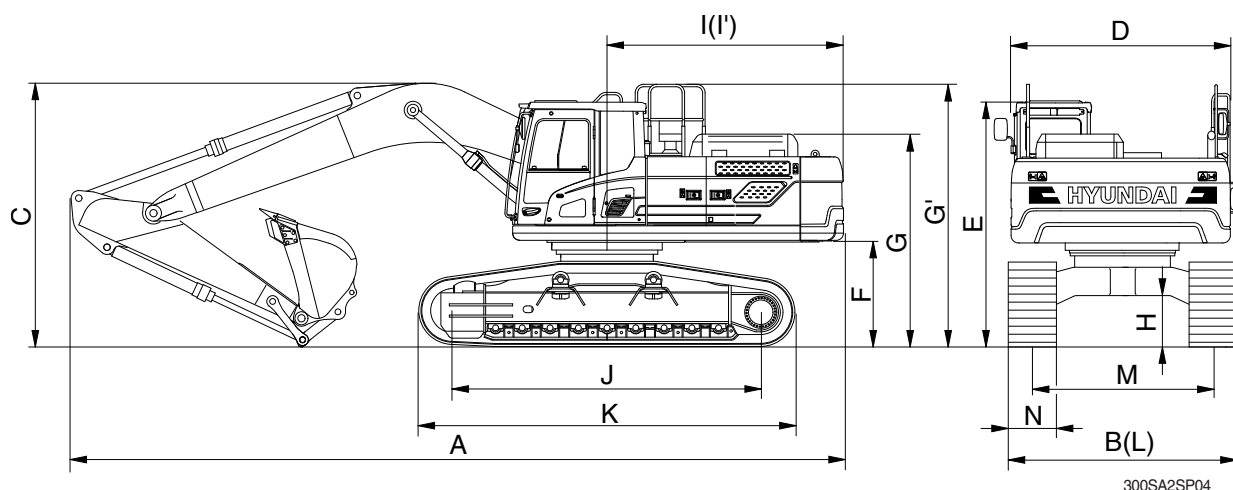
## 2) HX300LT3 LR



300A2SP03

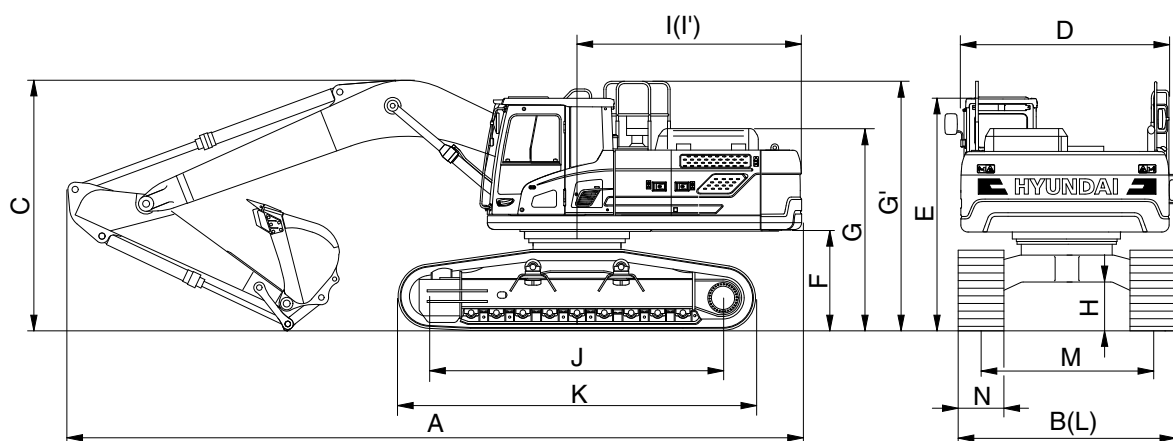
Description		Unit		Specification
		m (ft-in)	Boom	10.2 (33' 6")
			Arm	7.85 (25' 9")
		mm (in)	Shoe	800 (32")
Operating weight		kg (lb)		33130 (73040)
Bucket capacity (SAE heaped), standard		m³ (yd³)		0.52 0.68
Overall length	A	mm (ft-in)		14745 (48' 5")
Overall width	B			3400 (11' 2")
Overall height of boom	C			3560 (11' 8")
Superstructure width	D			2980 (9' 9")
Overall height of cab	E			3125 (10' 3")
Ground clearance of counterweight	F			1180 (3' 10")
Overall height of engine hood	G			2600 (8' 6")
Overall height of handrail	G'			3330 (10' 11")
Minimum ground clearance	H			505 (1' 8")
Rear-end distance	I			3265 (10' 9")
Rear-end swing radius	I'			3345 (11' 0")
Distance between tumblers	J			4040 (13' 3")
Undercarriage length	K			4940 (16' 2")
Undercarriage width	L			3400 (11' 2")
Track gauge	M			2600 (8' 6")
Track shoe width, standard	N			800 (32")
Travel speed (low/high)		km/hr (mph)		3.3 (2.05) / 5.94 (3.69)
Swing speed		rpm		11.56
Gradeability		Degree (%)		35 (70)
Ground pressure		kgf/cm² (psi)		0.48 (6.80)
Max traction force		kg (lb)		27405 (60417)

### 3) HX300LT3 HW (1/2)



Description		Unit		Specification			
		m (ft-in)	Boom	6.245 (20' 6")			
			Arm	3.10 (10' 2")	2.10 (6' 11")	2.50 (8' 2")	3.75 (12' 4")
		mm (in)	Shoe	600 (24")			
Operating weight		kg (lb)		32890 (72510)	32690 (72070)	32770 (72250)	33020 (72800)
Bucket capacity (SAE heaped), standard		m³ (yd³)		1.27 (1.66)	1.27 (1.66)	1.27 (1.66)	1.27 (1.66)
Overall length	A	mm (ft-in)		10410 (34' 2")	10680 (35' 0")	10595 (34' 9")	10510 (34' 6")
Overall width	B			3470 (11' 5")	3470 (11' 5")	3470 (11' 5")	3470 (11' 5")
Overall height of boom	C			3385 (11' 1")	3715 (12' 2")	3590 (11' 9")	3520 (11' 7")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3435 (11' 3")	3435 (11' 3")	3435 (11' 3")	3435 (11' 3")
Ground clearance of counterweight	F			1490 (4' 11")	1490 (4' 11")	1490 (4' 11")	1490 (4' 11")
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			765 (2' 6")	765 (2' 6")	765 (2' 6")	765 (2' 6")
Rear-end distance	I			3265 (10' 9")	3265 (10' 9")	3265 (10' 9")	3265 (10' 9")
Rear-end swing radius	I'			3345 (11' 0")	3345 (11' 0")	3345 (11' 0")	3345 (11' 0")
Distance between tumblers	J			4030 (13' 3")	4030 (13' 3")	4030 (13' 3")	4030 (13' 3")
Undercarriage length	K			4885 (16' 0")	4885 (16' 0")	4885 (16' 0")	4885 (16' 0")
Undercarriage width	L			3470 (11' 5")	3470 (11' 5")	3470 (11' 5")	3470 (11' 5")
Track gauge	M			2870 (9' 5")	2870 (9' 5")	2870 (9' 5")	2870 (9' 5")
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.3(2.05) / 5.94(3.69)	3.3(2.05) / 5.94(3.69)	3.3(2.05) / 5.94(3.69)	3.3(2.05) / 5.94(3.69)
Swing speed		rpm		11.56	11.56	11.56	11.56
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm² (psi)		0.63 (9.00)	0.63 (8.95)	0.63 (8.97)	0.64 (9.04)
Max traction force		kg (lb)		27405 (60417)	27405 (60417)	27405 (60417)	27405 (60417)

## HX300LT3 HW (2/2)

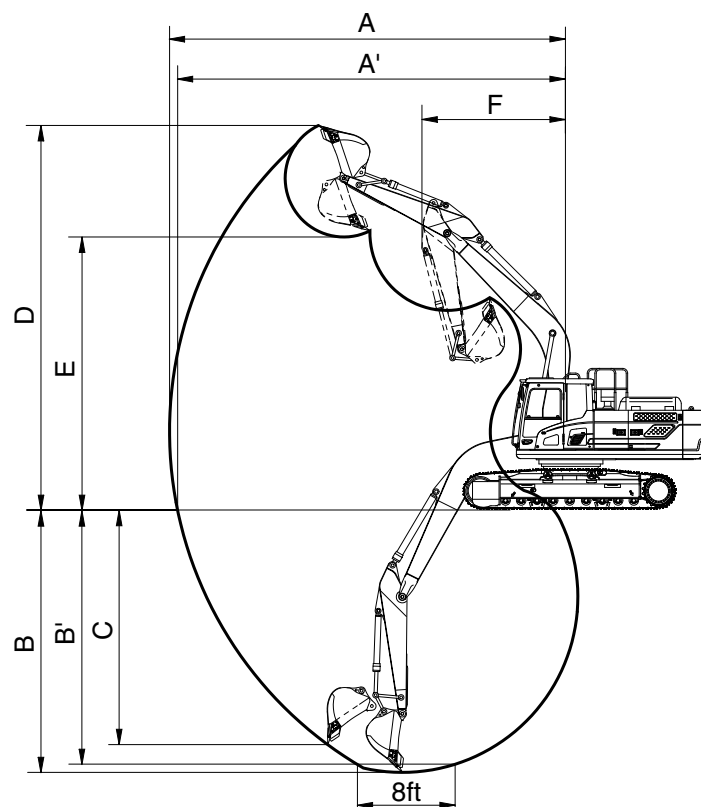


300SA2SP04

Description		Unit		Specification
		m (ft-in)	Boom	6.245 (20' 6")
			Arm	3.10 (10' 2")
		mm (in)	Shoe	700 (28")
Operating weight		kg (lb)		33450 (73740)
Bucket capacity (SAE heaped), standard		m <sup>3</sup> (yd <sup>3</sup> )		1.27 1.66
Overall length	A	mm (ft-in)		10410 (34' 2")
Overall width	B			3570 (11' 9")
Overall height of boom	C			3385 (11' 1")
Superstructure width	D			2980 (9' 9")
Overall height of cab	E			3435 (11' 3")
Ground clearance of counterweight	F			1490 (4' 11")
Overall height of engine hood	G			2910 (9' 7")
Overall height of handrail	G'			3650 (12' 0")
Minimum ground clearance	H			765 (2' 6")
Rear-end distance	I			3265 (10' 9")
Rear-end swing radius	I'			3345 (11' 0")
Distance between tumblers	J			4030 (13' 3")
Undercarriage length	K			4885 (16' 0")
Undercarriage width	L			3570 (11' 9")
Track gauge	M			2870 (9' 5")
Track shoe width, standard	N			700 (28")
Travel speed (low/high)		km/hr (mph)		3.3 (2.05) / 5.94 (3.69)
Swing speed		rpm		11.56
Gradeability		Degree (%)		35 (70)
Ground pressure		kgf/cm <sup>2</sup> (psi)		0.55 (7.83)
Max traction force		kg (lb)		27405 (60417)

### 3. WORKING RANGE AND DIGGING FORCE

#### 1) HX300LT3, MONO BOOM



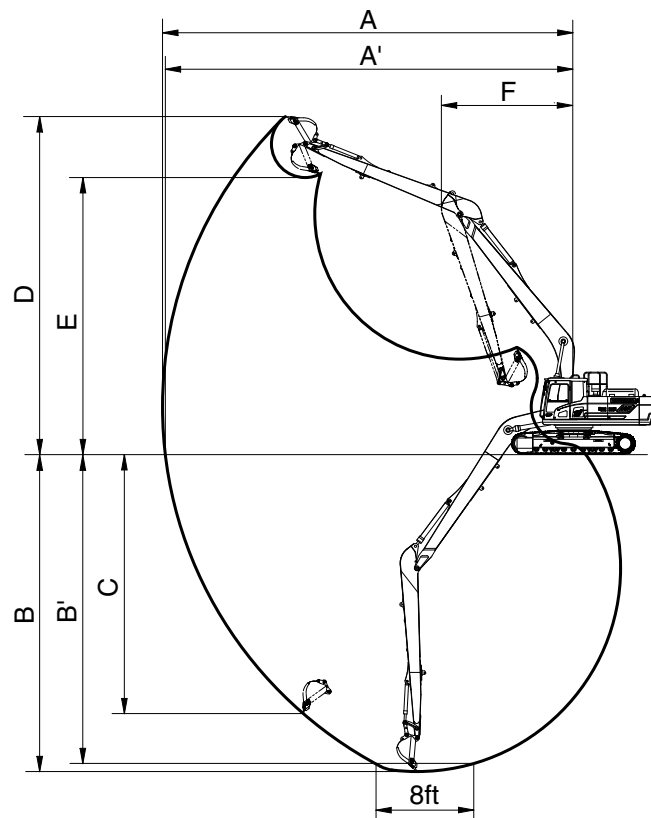
300SA2SP10

Description	m (ft-in)	Boom	6.245 (20' 6")			
		Arm	3.10 (10' 2")	2.10 (6' 11")	2.50 (8' 2")	3.75 (12' 4")
Max digging reach	mm (ft-in)	A	10815 (35' 6")	9945 (32' 8")	10255 (33' 8")	11345 (37' 3")
Max digging reach on ground		A'	10610 (34' 10")	9720 (31' 11")	10035 (32' 11")	11145 (36' 7")
Max digging depth		B	7225 (23' 8")	6225 (20' 5")	6625 (21' 9")	7880 (25' 10")
Max digging depth (8 ft level)		B'	7045 (23' 1")	6000 (19' 8")	6410 (21' 0")	7705 (25' 3")
Max vertical wall digging depth		C	6725 (22' 1")	5715 (18' 9")	6135 (20' 2")	7305 (24' 0")
Max digging height		D	10405 (34' 2")	10080 (33' 1")	10100 (33' 2")	10485 (34' 5")
Max dumping height		E	7335 (24' 1")	6975 (22' 11")	7040 (23' 1")	7450 (24' 5")
Min swing radius		F	4095 (13' 5")	4185 (13' 9")	3780 (12' 5")	4150 (13' 7")
Bucket digging force	kN	SAE	163.5 [177.5]	163.5 [177.5]	163.5 [177.5]	163.6 [177.6]
	kgf		16670 [18100]	16670 [18100]	16670 [18100]	16680 [18110]
	lbf		36750 [39900]	36750 [39900]	36750 [39900]	36770 [39930]
	kN	ISO	189.9 [206.1]	189.9 [206.1]	189.9 [206.1]	190.0 [206.2]
	kgf		19360 [21020]	19360 [21020]	19360 [21020]	19370 [21030]
	lbf		42680 [46340]	42680 [46340]	42680 [46340]	42700 [46360]
Arm digging force	kN	SAE	125.0 [135.7]	176.0 [191.1]	151.0 [164.0]	111.5 [121.0]
	kgf		12750 [13840]	17950 [19490]	15400 [16720]	11370 [12340]
	lbf		28110 [30510]	39570 [42970]	33950 [36860]	25070 [27210]
	kN	ISO	130.3 [141.5]	185.9 [201.9]	158.5 [172.1]	115.6 [125.5]
	kgf		13290 [14430]	18960 [20590]	16160 [17550]	11790 [12800]
	lbf		29300 [31810]	41800 [45390]	35630 [38690]	25990 [28220]

[ ] : Power boost



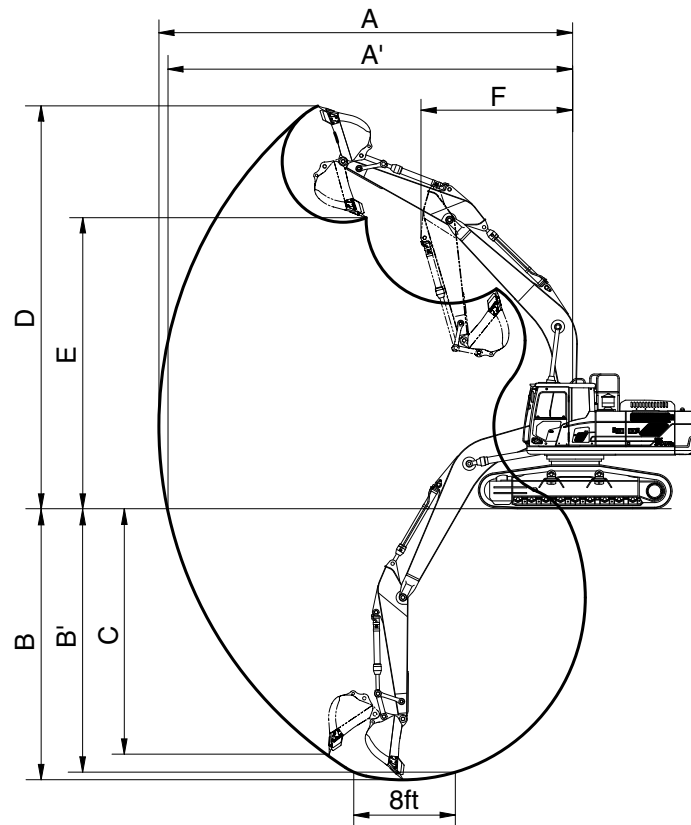
## 2) HX300LT3, LR



300SA2SP12

Description	m (ft-in)	Boom	10.2 (33' 6")
		Arm	7.85 (25' 9")
Max digging reach	mm (ft-in)	A	18530 (60' 10")
Max digging reach on ground		A'	18410 (60' 5")
Max digging depth		B	14740 (48' 4")
Max digging depth (8 ft level)		B'	14660 (48' 1")
Max vertical wall digging depth		C	13700 (44' 11")
Max digging height		D	14590 (47' 10")
Max dumping height		E	12270 (40' 3")
Min swing radius		F	6270 (20' 7")
Bucket digging force	kN	SAE	166.7
	kgf		17000
	lbf		37480
	kN	ISO	192.2
	kgf		19600
	lbf		43210
Arm digging force	kN	SAE	114.7
	kgf		11700
	lbf		25790
	kN	ISO	119.6
	kgf		12200
	lbf		26900

### 3) HX300LT3 HW



300A2SP13

Description	m (ft-in)	Boom	6.245 (20' 6")			
		Arm	3.10 (10' 2")	2.10 (6' 11")	2.50 (8' 2")	3.75 (12' 4")
Max digging reach	mm (ft-in)	A	10815 (35' 6")	9945 (32' 8")	10255 (33' 8")	11345 (37' 3")
Max digging reach on ground		A'	10535 (34' 7")	9635 (31' 7")	9955 (32' 8")	11075 (36' 4")
Max digging depth		B	6885 (22' 7")	5880 (19' 3")	6285 (20' 7")	7535 (24' 9")
Max digging depth (8 ft level)		B'	6705 (22' 0")	5660 (18' 7")	6070 (19' 11")	7360 (24' 2")
Max vertical wall digging depth		C	6385 (20' 11")	5370 (17' 7")	5795 (19' 0")	6965 (22' 10")
Max digging height		D	10745 (35' 3")	10420 (34' 2")	10440 (34' 3")	10825 (35' 6")
Max dumping height		E	7675 (25' 2")	7315 (24' 0")	7380 (24' 3")	7790 (25' 7")
Min swing radius		F	4095 (13' 5")	4185 (13' 9")	3780 (12' 5")	4150 (13' 7")
Bucket digging force	kN	SAE	163.5 [177.5]	163.5 [177.5]	163.5 [177.5]	163.6 [177.6]
	kgf		16670 [18100]	16670 [18100]	16670 [18100]	16680 [18110]
	lbf		36750 [39900]	36750 [39900]	36750 [39900]	36770 [39930]
	kN	ISO	189.9 [206.1]	189.9 [206.1]	189.9 [206.1]	190.0 [206.2]
	kgf		19360 [21020]	19360 [21020]	19360 [21020]	19370 [21030]
	lbf		42680 [46340]	42680 [46340]	42680 [46340]	42700 [46360]
Arm digging force	kN	SAE	125.0 [135.7]	176.0 [191.1]	151.0 [164.0]	111.5 [121.0]
	kgf		12750 [13840]	17950 [19490]	15400 [16720]	11370 [12340]
	lbf		28110 [30510]	39570 [42970]	33950 [36860]	25070 [27210]
	kN	ISO	130.3 [141.5]	185.9 [201.9]	158.5 [172.1]	115.6 [125.5]
	kgf		13290 [14430]	18960 [20590]	16160 [17550]	11790 [12800]
	lbf		29300 [31810]	41800 [45390]	35630 [38690]	25990 [28220]

[ ] : Power boost

## 4. WEIGHT

Item	HX300LT3		HX300LT3 LR		HX300LT3 HW	
	kg	lb	kg	lb	kg	lb
Upperstructure assembly	12,930	28,510	14,730	32,470	12,930	28,510
Main frame weld assembly	2,700	5,950	2,700	5,950	2,700	5,950
Engine assembly	552	1,217	552	1,217	552	1,217
Main pump assembly	201	440	201	440	201	440
Main control valve assembly	220	490	220	490	220	490
Swing motor assembly	408	900	408	900	408	900
Hydraulic oil tank WA	203	450	203	450	203	450
Fuel tank WA	236	520	236	520	236	520
Counterweight	5,200	11,460	7,000	15,430	5,200	11,460
Cab assembly	570	1,260	570	1,260	570	1,260
Lower chassis assembly	11,250	24,800	12,200	26,900	14,210	31,330
Track frame weld assembly	3,670	8,090	3,670	8,090	3,670	8,090
Swing bearing	433	950	433	950	433	950
Travel motor assembly	443	980	443	980	443	980
Turning joint	54	120	54	120	54	120
Sprocket (2EA)	141	310	141	310	141	310
Sprocket (only 700 mm double grouser shoe, 2EA)	141	310	141	310	141	310
Track recoil spring	450	990	450	990	450	990
Idler (2EA)	499	1,100	499	1,100	499	1,100
Upper roller (4EA)	139	310	139	310	226	500
Upper roller (only 700 mm double grouser shoe, 2EA)	139	310	-	-	227	500
Lower roller (18EA)	1,015	2,240	1,015	2,240	1,015	2,240
Lower roller (only 700 mm double grouser shoe, 18EA)	1,021	2,250	-	-	1,021	2,250
Track-chain assembly (600 mm triple grouser shoe) (2EA)	3,759	8,290	-	-	3,759	8,290
Track-chain assembly (700 mm triple grouser shoe) (2EA)	4,327	9,540	-	-	4,327	9,540
Track-chain assembly (700 mm double grouser shoe) (2EA)	5,237	11,550	-	-	5,237	11,550
Track-chain assembly (800 mm triple grouser shoe) (2EA)	4,706	10,380	4,706	10,380	4,706	10,380
Front attachment assembly	6,140	13,540	6,590	14,530	6,140	13,540
6.245 m boom assembly	2,400	5,291	2,400	5,291	2,400	5,291
3.10 m arm assembly	1,070	2,359	1,070	2,359	1,070	2,359
1.27 m³ SAE heaped bucket	1,130	2,491	1,130	2,491	1,130	2,491
10.2 m boom assembly	3,150	6,944	3,150	6,944	3,150	6,944
7.85 m arm assembly	1,425	3,142	1,425	3,142	1,425	3,142
0.52 m³ SAE heaped bucket	470	1,036	470	1,036	470	1,036
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	140	308	220	485
Bucket control linkage total	280	617	130	287	280	617

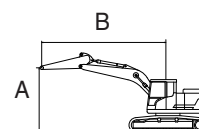
## 5. LIFTING CAPACITIES















### 1) HX300LT3

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX300LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6245	3100	5200	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 lb													*5100 *11240	*5100 *11240	7.39 (24.3)
6.0 m (19.7 ft)	kg lb							*6460 *14240	*6460 *14240	*6340 *13980	5850 12900			*4910 *10820	4890 10780	8.31 (27.3)
4.5 m (14.8 ft)	kg lb					*9190 *20260	*9190 *20260	*7590 *16730	*7590 *16730	*6850 *15100	5690 12540			*4930 *10870	4300 9480	8.87 (29.1)
3.0 m (9.8 ft)	kg lb					*12250 *27010	11570 25510	*9040 *19930	7600 16760	*7600 *16760	5460 12040	*6240 *13760	4110 9060	*5110 *11270	3990 8800	9.15 (30.0)
1.5 m (4.9 ft)	kg lb					*14720 *32450	10800 23810	*10420 *22970	7190 15850	8350 18410	5240 11550	6340 13980	4010 8840	*5480 *12080	3890 8580	9.18 (30.1)
0.0 m (0.0 ft)	kg lb					*15870 *34990	10450 23040	*11360 *25040	6920 15260	8180 18030	5080 11200			*6120 *13490	3970 8750	8.95 (29.4)
-1.5 m (-4.9 ft)	kg lb	*7050 *15540	*7050 *15540	*10400 *22930	*10400 *22930	*15990 *35250	10380 22880	11340 25000	6810 15010	8100 17860	5010 11050			6840 15080	4280 9440	8.45 (27.7)
-3.0 m (-9.8 ft)	kg lb	*12200 *26900	*12200 *26900	*16800 *37040	*16800 *37040	*15240 *33600	10480 23100	*11370 *25070	6850 15100	8160 17990	5070 11180			7980 17590	4970 10960	7.62 (25.0)
-4.5 m (-14.8 ft)	kg lb			*18600 *41010	*18600 *41010	*13310 *29340	10760 23720	*9770 *21540	7070 15590					*9020 *19890	6590 14530	6.33 (20.8)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

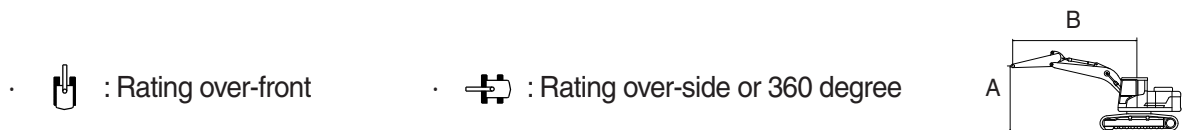
The difference between the weight of a work tool attachment must be subtracted.











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

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

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX300LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6245	2100	5200	600	-	-	-	-	-



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 lb					*7600 *16760	*7600 *16760			*7720 *17020	*7720 *17020	6.27 (20.6)
6.0 m (19.7 ft)	kg lb					*7840 *17280	*7840 *17280			*7680 *16930	5960 13140	7.33 (24.0)
4.5 m (14.8 ft)	kg lb					*8890 *19600	7900 17420	*7890 *17390	5640 12430	*7810 *17220	5120 11290	7.96 (26.1)
3.0 m (9.8 ft)	kg lb					*10230 *22550	7500 16530	*8480 *18700	5470 12060	7370 16250	4720 10410	8.28 (27.2)
1.5 m (4.9 ft)	kg lb					*11340 *25000	7200 15870	8400 18520	5300 11680	7230 15940	4600 10140	8.31 (27.3)
0.0 m (0.0 ft)	kg lb					11570 25510	7040 15520	8300 18300	5210 11490	7500 16530	4740 10450	8.06 (26.4)
-1.5 m (-4.9 ft)	kg lb			*15680 *34570	10690 23570	11550 25460	7020 15480			8340 18390	5240 11550	7.49 (24.6)
-3.0 m (-9.8 ft)	kg lb	*18840 *41540	*18840 *41540	*14240 *31390	10880 23990	*10750 *23700	7160 15790			*9550 *21050	6410 14130	6.54 (21.4)
-4.5 m (-14.8 ft)	kg lb			*10850 *23920	*10850 *23920					*9590 *21140	*9590 *21140	4.96 (16.3)

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.

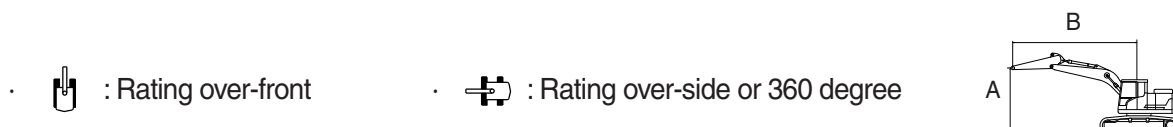
The difference between the weight of a work tool attachment must be subtracted.











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	
HX300LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6245	2500	5200	600	-	-	-	-	-



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 lb					*6850 *15100	*6850 *15100			*7060 *15560	7020 15480	6.68 (21.9)
6.0 m (19.7 ft)	kg lb					*7240 *15960	*7240 *15960	*7060 *15560	5740 12650	*7090 *15630	5510 12150	7.68 (25.2)
4.5 m (14.8 ft)	kg lb			*10470 *23080	*10470 *23080	*8320 *18340	7910 17440	*7410 *16340	5610 12370	*7260 *16010	4770 10520	8.29 (27.2)
3.0 m (9.8 ft)	kg lb			*13530 *29830	11230 24760	*9700 *21380	7470 16470	*8070 *17790	5410 11930	6910 15230	4400 9700	8.59 (28.2)
1.5 m (4.9 ft)	kg lb					*10920 *24070	7120 15700	8330 18360	5220 11510	6770 14930	4280 9440	8.62 (28.3)
0.0 m (0.0 ft)	kg lb			*16100 *35490	10440 23020	11450 25240	6910 15230	8190 18060	5100 11240	6990 15410	4390 9680	8.38 (27.5)
-1.5 m (-4.9 ft)	kg lb	*10830 *23880	*10830 *23880	*15790 *34810	10460 23060	11390 25110	6860 15120	8170 18010	5080 11200	7680 16930	4800 10580	7.84 (25.7)
-3.0 m (-9.8 ft)	kg lb	*20070 *44250	*20070 *44250	*14630 *32250	10620 23410	*11020 *24290	6960 15340			*9180 *20240	5760 12700	6.93 (22.7)
-4.5 m (-14.8 ft)	kg lb	*16260 *35850	*16260 *35850	*11980 *26410	11000 24250					*9570 *21100	8290 18280	5.47 (17.9)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

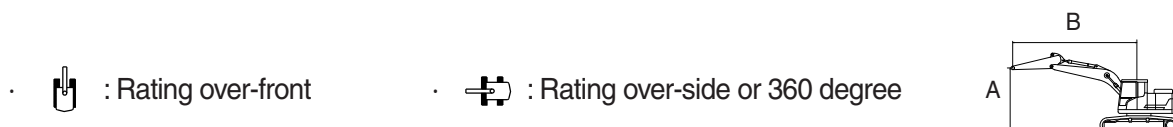
The difference between the weight of a work tool attachment must be subtracted.















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

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

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX300LT3	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6245	3750	5200	600	-	-	-	-	-



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													*4560 *10050	*4560 *10050	6.76 (22.2)
7.5 m (24.6 ft)	kg lb									*5430 *11970	*5430 *11970			*4210 *9280	*4210 *9280	8.04 (26.4)
6.0 m (19.7 ft)	kg lb									*5590 *12320	*5590 *12320			*4090 *9020	*4090 *9020	8.89 (29.2)
4.5 m (14.8 ft)	kg lb							*6690 *14750	*6690 *14750	*6170 *13600	5740 12650	*5660 *12480	4230 9330	*4130 *9110	3900 8600	9.42 (30.9)
3.0 m (9.8 ft)	kg lb					*10750 *23700	*10750 *23700	*8190 *18060	7690 16950	*6990 *15410	5480 12080	*6380 *14070	4100 9040	*4290 *9460	3620 7980	9.68 (31.8)
1.5 m (4.9 ft)	kg lb					*13550 *29870	10930 24100	*9700 *21380	7220 15920	*7850 *17310	5220 11510	6310 13910	3970 8750	*4600 *10140	3520 7760	9.71 (31.9)
0.0 m (0.0 ft)	kg lb			*6600 *14550	*6600 *14550	*15230 *33580	10400 22930	*10860 *23940	6880 15170	8120 17900	5020 11070	6190 13650	3860 8510	*5120 *11290	3570 7870	9.50 (31.2)
-1.5 m (-4.9 ft)	kg lb	*6790 *14970	*6790 *14970	*10200 *22490	*10200 *22490	*15840 *34920	10210 22510	11230 24760	6700 14770	7990 17610	4900 10800	6140 13540	3810 8400	*5990 *13210	3800 8380	9.03 (29.6)
-3.0 m (-9.8 ft)	kg lb	*10680 *23550	*10680 *23550	*14930 *32910	*14930 *32910	*15540 *34260	10230 22550	11200 24690	6670 14700	7980 17590	4890 10780			6980 15390	4320 9520	8.25 (27.1)
-4.5 m (-14.8 ft)	kg lb	*15430 *34020	*15430 *34020	*20490 *45170	*20490 *45170	*14220 *31350	10430 22990	*10560 *23280	6800 14990					*8510 *18760	5440 11990	7.08 (23.2)
-6.0 m (-19.7 ft)	kg lb					*11010 *24270	10900 24030							*9190 *20260	8720 19220	5.23 (17.2)

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.

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

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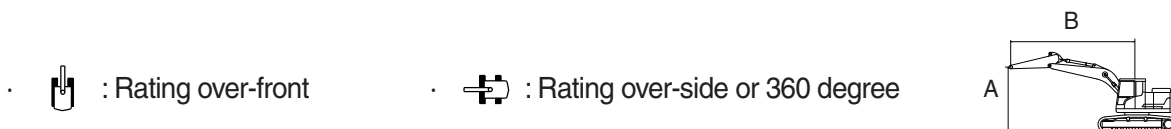
Failure to comply to the rated load can cause possible personal injury or property damage.

























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



## 2) HX300LT3 LR

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX300LT3 LR	LONG REACH	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		10200	7850	7000	800	-	-	-	-	-



Lift-point height (A)	Lift-point radius (B)																				At max. reach				
	1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		15.0 m (49.2 ft)		Capacity		Reach		
																									m (ft)
12.0 m 39.4 ft	kg lb																						*1370 *3020	*1370 *3020	12.98 (42.6)
10.5 m 34.4 ft	kg lb																	*1880 *4140	*1880 *4140				*1310 *2890	*1310 *2890	14.01 (46.0)
9.0 m 29.5 ft	kg lb																	*2490 *5490	*2490 *5490				*1290 *2840	*1290 *2840	14.82 (48.6)
7.5 m 24.6 ft	kg lb															*2590 *5710	*2590 *5710	*2580 *5690	*2580 *5690	*1850 *4080	*1850 *4080	*1280 *2820	*1280 *2820	15.44 (50.6)	
6.0 m 19.7 ft	kg lb															*2790 *6150	*2790 *6150	*2710 *5970	*2710 *5970	*2360 *5200	2240 4940	*1290 *2840	*1290 *2840	15.89 (52.1)	
4.5 m 14.8 ft	kg lb											*3570 *7870	*3570 *7870	*3250 *7170	*3250 *7170	*3030 *6680	*3030 *6680	*2880 *6350	2660 5860	*2760 *6080	2170 4780	*1320 *2910	*1320 *2910	16.19 (53.1)	
3.0 m 9.8 ft	kg lb					*9010 *19860	*9010 *19860	*6230 *13730	*6230 *13730	*4890 *10780	*4890 *10780	*4120 *9080	*4120 *9080	*3630 *8000	*3630 *8000	*3300 *7280	3100 6830	*3080 *6790	2540 5600	*2930 *6460	2090 4610	*1360 *3000	*1360 *3000	16.34 (53.6)	
1.5 m 4.9 ft	kg lb					*4800 *10580	*4800 *10580	*7530 *16600	*7530 *16600	*5710 *12590	5680 12520	*4680 *10320	4450 9810	*4030 *8880	3580 7890	*3590 *7910	2920 6440	*3290 *7250	2410 5310	*3080 *6790	2000 4410	*1420 *3130	*1420 *3130	16.36 (53.7)	
0.0 m 0.0 ft	kg lb			*2020 *4450	*2020 *4450	*4310 *9500	*4310 *9500	*8530 *18810	6890 15190	*6420 *14150	5220 11510	*5180 *11420	4130 9110	*4400 *9700	3350 7390	*3860 *8510	2760 6080	*3490 *7690	2300 5070	3220 7100	1930 4250	*1510 *3330	*1510 *3330	16.23 (53.3)	
-1.5 m -4.9 ft	kg lb	*2600 *5730	*2600 *5730	*3070 *6770	*3070 *6770	*4800 *10580	*4800 *10580	*8490 *18720	6510 14350	*6970 *15370	4910 10820	*5610 *12370	3890 8580	*4720 *10410	3170 6990	*4110 *9060	2630 5800	*3670 *8090	2200 4850	3160 6970	1870 4120	*1630 *3590	*1630 *3590	15.97 (52.4)	
-3.0 m -9.8 ft	kg lb	*3540 *7800	*3540 *7800	*4110 *9060	*4110 *9060	*5660 *12480	*5660 *12480	*8830 *19470	6330 13960	*7340 *16180	4720 10410	*5920 *13050	3720 8200	*4980 *10980	3040 6700	4250 9370	2530 5580	3610 7960	2140 4720	*3040 *6700	1830 4030	*1790 *3950	1740 3840	15.55 (51.0)	
-4.5 m -14.8 ft	kg lb	*4520 *9960	*4520 *9960	*5200 *11460	*5200 *11460	*6740 *14860	*6740 *14860	*9680 *21340	6280 13850	*7540 *16620	4630 10210	*6120 *13490	3630 8000	5010 11050	2960 6530	4190 9240	2470 5450	3570 7870	2100 4630			*2010 *4430	1830 4030	14.96 (49.1)	
-6.0 m -19.7 ft	kg lb	*5560 *12260	*5560 *12260	*6390 *14090	*6390 *14090	*8040 *17730	*8040 *17730	*9610 *21190	6320 13930	*7570 *16690	4620 10190	6160 13580	3610 7960	4990 11000	2940 6480	4170 9190	2460 5420	3580 7890	2110 4650			*2330 *5140	1990 4390	14.20 (46.6)	
-7.5 m -24.6 ft	kg lb	*6680 *14730	*6680 *14730	*7700 *16980	*7700 *16980	*9600 *22160	*9600 *22160	*9330 *20570	6450 14220	*7430 *16380	4690 10340	*6110 *13470	3650 8050	5030 11090	2980 6570	4220 9300	2500 5510					*2810 *6190	2230 4920	13.22 (43.4)	
-9.0 m -29.5 ft	kg lb	*7930 *17480	*7930 *17480	*9220 *20330	*9220 *20330	*11450 *25240	10340 22800	*8790 *19380	6650 14660	*7060 *15560	4830 10650	*5830 *12850	3770 8310	*4880 *10760	3080 6790							*3640 *8020	2640 5820	11.97 (39.3)	
-10.5 m -34.4 ft	kg lb			*11030 *24320	*11030 *24320	*10130 *22330	*10130 *22330	*7880 *17370	6960 15340	*6370 *14040	5070 11180	*5220 *11510	3970 8750									*4310 *9500	3350 7390	10.34 (33.9)	
-12.0 m -39.4 ft	kg lb					*8090 *17840	*8090 *17840	*6360 *14020	*6360 *14020	*5060 *11160	*5060 *11160											*4550 *10030	*4550 *10030	8.13 (26.7)	

Note 1. Lifting capacity are based on ISO 10567.

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

※ Lifting capacities are based upon a standard machine conditions.

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

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

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

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

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

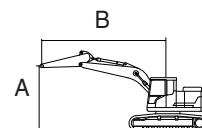












### 3) HX300LT3 HW

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX300LT3 HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6245	2100	5200	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 lb					*7,540 *16,620	*7,540 *16,620			*7,690 *16,950	*7,690 *16,950	6.56 (21.5)
6.0 m (19.7 ft)	kg lb			*9,320 *20,550	*9,320 *20,550	*8,030 *17,700	*8,030 *17,700	*7,700 *16,980	6,930 15,280	*7,700 *16,980	6,920 15,260	7.50 (24.6)
4.5 m (14.8 ft)	kg lb					*9,190 *20,260	*9,190 *20,260	*8,010 *17,660	6,810 15,010	*7,860 *17,330	6,090 13,430	8.06 (26.4)
3.0 m (9.8 ft)	kg lb					*10,520 *23,190	9,090 20,040	*8,620 *19,000	6,630 14,620	7,650 16,870	5,710 12,590	8.31 (27.3)
1.5 m (4.9 ft)	kg lb					*11,520 *25,400	8,810 19,420	8,760 19,310	6,470 14,260	7,600 16,760	5,660 12,480	8.28 (27.1)
0.0 m (0.0 ft)	kg lb					*11,950 *26,350	8,680 19,140	8,680 19,140	6,400 14,110	7,990 17,610	5,920 13,050	7.96 (26.1)
-1.5 m (-4.9 ft)	kg lb			*15,450 *34,060	13,390 29,520	*11,680 *25,750	8,700 19,180			9,050 19,950	6,670 14,700	7.31 (24.0)
-3.0 m (-9.8 ft)	kg lb	*18,160 *40,040	*18,160 *40,040	*13,730 *30,270	13,630 30,050	*10,230 *22,550	8,890 19,600			*9,620 *21,210	8,430 18,580	6.25 (20.5)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

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

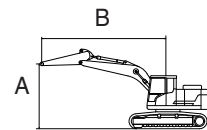
Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX300LT3 HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6245	2500	5200	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 lb					*6,860 *15,120	*6,860 *15,120			*7,050 *15,540	*7,050 *15,540	6.95 (22.8)
6.0 m (19.7 ft)	kg lb					*7,440 *16,400	*7,440 *16,400	*7,090 *15,630	6,940 15,300	*7,120 *15,700	6,430 14,180	7.85 (25.7)
4.5 m (14.8 ft)	kg lb			*11,160 *24,600	*11,160 *24,600	*8,630 *19,030	*8,630 *19,030	*7,550 *16,640	6,780 14,950	*7,310 *16,120	5,690 12,540	8.38 (27.5)
3.0 m (9.8 ft)	kg lb					*10,010 *22,070	9,050 19,950	*8,230 *18,140	6,570 14,480	7,170 15,810	5,340 11,770	8.62 (28.3)
1.5 m (4.9 ft)	kg lb			*13,010 *28,680	*13,010 *28,680	*11,140 *24,560	8,720 19,220	8,680 19,140	6,390 14,090	7,110 15,670	5,280 11,640	8.59 (28.2)
0.0 m (0.0 ft)	kg lb			*16,100 *35,490	13,100 28,880	*11,720 *25,840	8,550 18,850	8,560 18,870	6,280 13,850	7,440 16,400	5,500 12,130	8.28 (27.2)
-1.5 m (-4.9 ft)	kg lb	*12,820 *28,260	*12,820 *28,260	*15,610 *34,410	13,150 28,990	*11,660 *25,710	8,530 18,810	8,580 18,920	6,290 13,870	8,320 18,340	6,120 13,490	7.67 (25.2)
-3.0 m (-9.8 ft)	kg lb	*19,430 *42,840	*19,430 *42,840	*14,210 *31,330	13,360 29,450	*10,670 *23,520	8,670 19,110			*9,290 *20,480	7,540 16,620	6.66 (21.8)
-4.5 m (-14.8 ft)	kg lb			*10,920 *24,070	*10,920 *24,070					*9,570 *21,100	*9,570 *21,100	5.01 (16.4)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

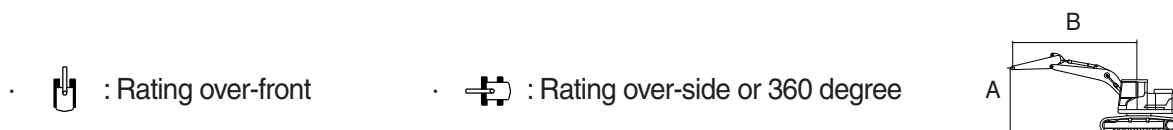
The difference between the weight of a work tool attachment must be subtracted.















Consult 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	
HX300LT3 HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6245	3100	5200	600	-	-	-	-	-



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													*5,480 *12,080	*5,480 *12,080	6.35 (20.8)
7.5 m (24.6 ft)	kg lb									*5,690 *12,540	*5,690 *12,540			*5,040 *11,110	*5,040 *11,110	7.64 (25.1)
6.0 m (19.7 ft)	kg lb							*6,670 *14,700	*6,670 *14,700	*6,420 *14,150	*6,420 *14,150			*4,900 *10,800	*4,900 *10,800	8.46 (27.8)
4.5 m (14.8 ft)	kg lb					*9,860 *21,740	*9,860 *21,740	*7,900 *17,420	*7,900 *17,420	*7,000 *15,430	6,850 15,100			*4,950 *10,910	*4,950 *10,910	8.96 (29.4)
3.0 m (9.8 ft)	kg lb					*12,910 *28,460	*12,910 *28,460	*9,380 *20,680	9,170 20,220	*7,780 *17,150	6,610 14,570	*6,540 *14,420	5,020 11,070	*5,180 *11,420	4,870 10,740	9.18 (30.1)
1.5 m (4.9 ft)	kg lb					*15,090 *33,270	13,360 29,450	*10,680 *23,550	8,780 19,360	*8,530 *18,810	6,400 14,110	6,630 14,620	4,920 10,850	*5,600 *12,350	4,810 10,600	9.15 (30.0)
0.0 m (0.0 ft)	kg lb			*6,210 *13,690	*6,210 *13,690	*15,970 *35,210	13,080 28,840	*11,500 *25,350	8,550 18,850	8,540 18,830	6,250 13,780			*6,320 *13,930	4,970 10,960	8.87 (29.1)
-1.5 m (-4.9 ft)	kg lb	*8,220 *18,120	*8,220 *18,120	*11,710 *25,820	*11,710 *25,820	*15,900 *35,050	13,050 28,770	*11,710 *25,820	8,470 18,670	8,490 18,720	6,210 13,690			7,370 16,250	5,430 11,970	8.30 (27.2)
-3.0 m (-9.8 ft)	kg lb	*13,460 *29,670	*13,460 *29,670	*18,580 *40,960	*18,580 *40,960	*14,930 *32,910	13,190 29,080	*11,160 *24,600	8,540 18,830					*8,620 *19,000	6,450 14,220	7.38 (24.2)
-4.5 m (-14.8 ft)	kg lb			*17,550 *38,690	*17,550 *38,690	*12,590 *27,760	*12,590 *27,760							*9,120 *20,110	8,960 19,750	5.94 (19.5)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

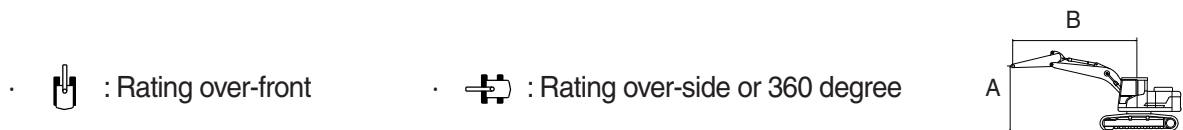
The difference between the weight of a work tool attachment must be subtracted.















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

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

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX300LT3 HW	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6245	3750	5200	600	-	-	-	-	-



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													*4,450 *9,810	*4,450 *9,810	7.10 (23.3)
7.5 m (24.6 ft)	kg lb									*5,420 *11,950	*5,420 *11,950			*4,170 *9,190	*4,170 *9,190	8.27 (27.1)
6.0 m (19.7 ft)	kg lb									*5,690 *12,540	*5,690 *12,540	*4,240 *9,350	*4,240 *9,350	*4,090 *9,020	*4,090 *9,020	9.03 (29.6)
4.5 m (14.8 ft)	kg lb							*7,010 *15,450	*7,010 *15,450	*6,340 *13,980	*6,340 *13,980	*5,970 *13,160	5,150 11,350	*4,150 *9,150	*4,150 *9,150	9.50 (31.2)
3.0 m (9.8 ft)	kg lb					*11,450 *25,240	*11,450 *25,240	*8,550 *18,850	*8,550 *18,850	*7,190 *15,850	6,630 14,620	*6,480 *14,290	5,010 11,050	*4,350 *9,590	*4,350 *9,590	9.71 (31.9)
1.5 m (4.9 ft)	kg lb					*14,040 *30,950	13,460 29,670	*10,000 *22,050	8,800 19,400	*8,040 *17,730	6,380 14,070	6,590 14,530	4,880 10,760	*4,700 *10,360	4,370 9,630	9.68 (31.8)
0.0 m (0.0 ft)	kg lb			*7,330 *16,160	*7,330 *16,160	*15,460 *34,080	13,000 28,660	*11,050 *24,360	8,480 18,700	8,480 18,700	6,180 13,620	6,480 14,290	4,780 10,540	*5,280 *11,640	4,490 9,900	9.41 (30.9)
-1.5 m (-4.9 ft)	kg lb	*7,640 *16,840	*7,640 *16,840	*11,160 *24,600	*11,160 *24,600	*15,840 *34,920	12,860 28,350	*11,540 *25,440	8,340 18,390	8,370 18,450	6,090 13,430			*6,270 *13,820	4,840 10,670	8.88 (29.1)
-3.0 m (-9.8 ft)	kg lb	*11,650 *25,680	*11,650 *25,680	*16,240 *35,800	*16,240 *35,800	*15,340 *33,820	12,920 28,480	*11,360 *25,040	8,340 18,390	8,400 18,520	6,110 13,470			7,630 16,820	5,590 12,320	8.03 (26.3)
-4.5 m (-14.8 ft)	kg lb	*16,730 *36,880	*16,730 *36,880	*19,660 *43,340	*19,660 *43,340	*13,720 *30,250	13,180 29,060	*10,140 *22,350	8,530 18,810					*8,670 *19,110	7,270 16,030	6.74 (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.

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

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

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

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

## 6. BUCKET SELECTION GUIDE

### 1) BUCKET SELECTION



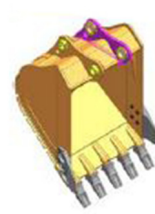
General bucket



Heavy duty  
(without side cutter)



Rock heavy duty



Long reach

Type	Capacity		Width		Weight	Tooth	MONO				L/Reach
	SAE Heaped	CECE heaped	Without side cutter	With side cutter			Recommendation				mm (ft-in)
							6.245 m (20' 6") Boom				10.2 m (33' 6") Boom
m <sup>3</sup> (yd <sup>3</sup> )	m <sup>3</sup> (yd <sup>3</sup> )	mm (in)	mm (in)	kg (lb)	EA	2.10 m (6' 11") Arm	2.50 m (8' 2") Arm	3.10 m (10' 2") Arm	3.75 m (12' 4") Arm	7.85 m (25' 9") Arm	
General bucket	1.27 (1.66)	1.10 (1.44)	1280 (50.4")	1440 (56.7")	1090 (2400)	5	●	●	●	◐	X
	1.85 (2.42)	1.61 (2.11)	1590 (62.6")	1785 (70.3")	1325 (2920)	6	■	■	▲	▲	X
Heavy duty	1.23 (1.61)	1.10 (1.44)	1205 (47.4")	1260 (49.6")	1085 (2390)	5	●	●	●	◐	X
	1.47 (1.92)	1.32 (1.73)	1405 (55.3")	1460 (57.5")	1185 (2610)	5	●	◐	◐	■	X
Rock heavy duty	1.45 (1.90)	1.29 (1.69)	1380 (54.3")	1440 (56.7")	1505 (3320)	5	●	◐	■	X	X
	1.57 (2.05)	1.40 (1.83)	1480 (58.3")	1450 (60.6")	1565 (3450)	5	◐	◐	■	X	X
Long reach	0.52 (0.68)	0.45 (0.59)	870 (34.3")	1020 (40.2")	455 (1000)	5	X	X	X	X	◐

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

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

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

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

## 7. UNDERCARRIAGE

### 1) TYPES OF SHOES

Model	Description	Unit		Triple grouser						Double grouser	
	width	mm	(in)	600	(24)	700	(28)	800	(32)	700	(28)
HX300LT3	Operating weight	kg	(lb)	29980	(66090)	30540	(67330)	30910	(68140)	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.58	8.21	0.5	7.17	0.45	6.35	-	-
	Overall width	mm	(ft-in)	3200	(10' 6")	3300	(10' 10")	3400	(11' 2")	-	-
	Link quantity	EA		48		48		48		-	
HX300LT3 LR	Operating weight	kg	(lb)	-	-	-	-	33130	(73040)	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	-	-	-	-	0.48	6.80	-	-
	Overall width	mm	(ft-in)	-	-	-	-	3400	(11' 2")	-	-
	Link quantity	EA		-		-				-	
HX300LT3 HW	Operating weight	kg	(lb)	32890	(72510)	33450	(73740)	33830	(74580)	33450	(73740)
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.63	9	0.55	7.85	0.49	6.95	0.55	7.83
	Overall width	mm	(ft-in)	3470	(11' 5")	3570	(11' 9")	3670	(12' 0")	3570	(11' 9")
	Link quantity	EA		48		48		48		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

**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	HD Hyundai Construction Equipment / HE6.7
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.21" × 4.88")
Displacement	6.7 ℓ (408 cu in)
Compression ratio	17.2 : 1
Gross power	220 Hp (164 kW) at 2000 rpm
Net power	215 Hp (160 kW) at 2000 rpm
Max. power	230 Hp (172 kW) at 1800 rpm
Peak Torque	949 N · m (702 lbf · ft) at 1400 rpm
Engine oil quantity	23.1 ℓ (6.1 U.S. gal)
Wet weight	552 kg (1217 lb)
Starter motor	24 V-4.8 kW
Alternator	Valeo 24 V-90 A

### 2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 154 cc/rev
Maximum pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Rated oil flow	2 × 277 ℓ /min (73.2 U.S. gpm / 60.9 U.K. gpm)

[    ] : Power boost



### 3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm <sup>2</sup> (570 psi)
Rated oil flow	27 ℓ /min (7.1 U.S. gpm/5.9 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)] * <sup>1</sup> 350 kgf/cm <sup>2</sup> (4980 psi) [Not applied power boost]
Port relief valve pressure	Boom 400 kgf/cm <sup>2</sup> (5690 psi)
	Arm 400 kgf/cm <sup>2</sup> (5690 psi), * <sup>1</sup> 250 kgf/cm <sup>2</sup> (3560 psi)
	Bucket 400 kgf/cm <sup>2</sup> (5690 psi), * <sup>1</sup> 270 kgf/cm <sup>2</sup> (3840 psi)

[ ] : Power boost    \*<sup>1</sup> : Long reach only

### 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	36.6 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	17 kgf/cm <sup>2</sup> (242 psi)
Reduction gear type	2-stage planetary

## 7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	Ø 140 × 1465 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	Ø 150 × 1765 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	Ø 135 × 1185 mm
	Cushion	Extend only
Bucket cylinder (Long reach)	Bore dia × Stroke	Ø 100 × 870 mm
	Cushion	Extend only

- ※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.
- ※ Discoloration does not cause any harmful effect on the cylinder performance.

## 9. RECOMMENDED OILS

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

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

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C ( °F)							
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)
Engine oil pan	Engine oil	23.1 (6.1)	★SAE 0W-30							
			SAE 5W-30							
			SAE 10W-30							
			SAE CI-4 and 10W-30							
			SAE 5W-40 or 15W-40							
Swing drive	Gear oil	11.0 (2.91)	★SAE 75W-90							
Final drive		7.8×2 (2.11×2)	SAE 80W-90							
Hydraulic tank	Hydraulic oil	Tank : 190 (50.2) System : 330 (87)	★ISO VG 15							
			ISO VG 32							
			ISO VG 46							
			ISO VG 68							
Fuel tank	Diesel fuel	500 (132)	★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>1</sup>	22.4 (5.9)	Ethylene glycol base permanent type (50 : 50)							
			★Ethylene glycol base permanent type (60 : 40)							

**SAE** : Society of Automotive Engineers

**API** : American Petroleum Institute

**ISO** : International Organization for Standardization

**NLGI** : National Lubricating Grease Institute

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

★ : Cold region

Russia, CIS, Mongolia

★<sup>1</sup> : Soft water

City water or distilled water

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

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

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