

# SECTION 1 GENERAL



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# SECTION 1 GENERAL

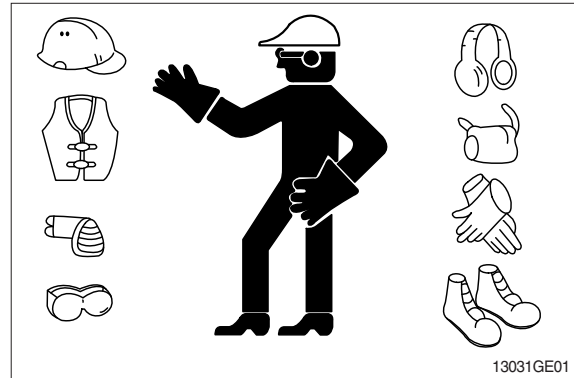
## GROUP 1 SAFETY

### FOLLOW SAFE PROCEDURE

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

### WEAR PROTECTIVE CLOTHING

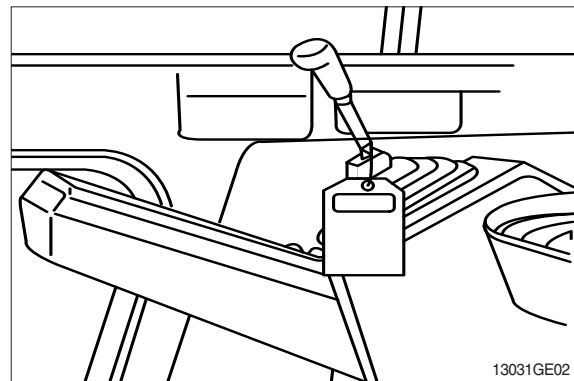
Wear close fitting clothing and safety equipment appropriate to the job.



### 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.



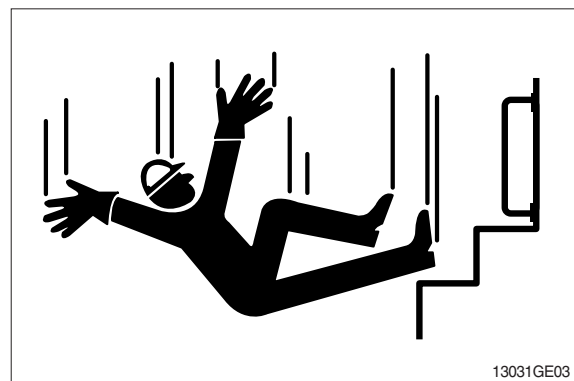
### USE HANDHOLDS AND STEPS

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.

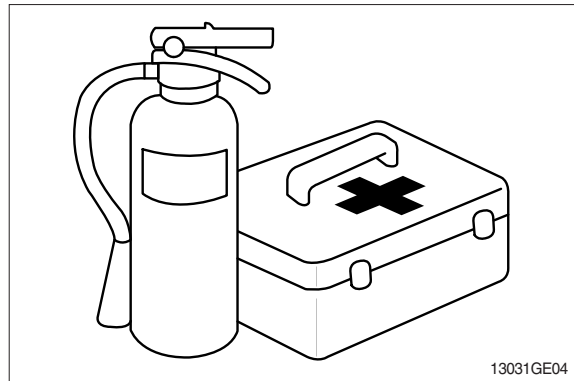


## PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

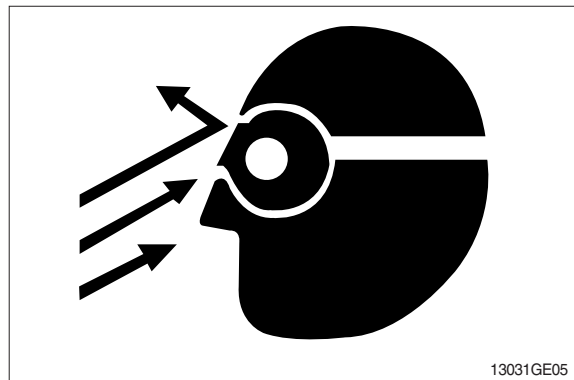
Keep a first aid kit and fire extinguisher handy.

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



## PROTECT AGAINST FLYING DEBRIS

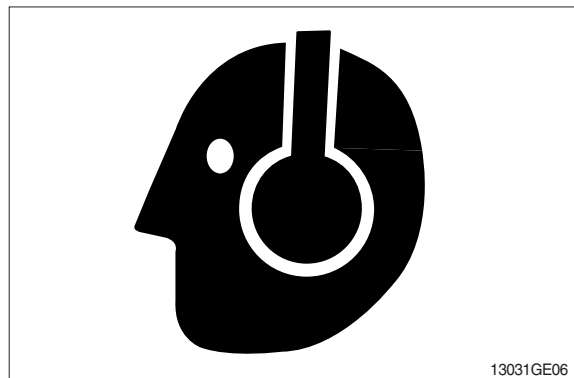
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



## PROTECT AGAINST NOISE

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

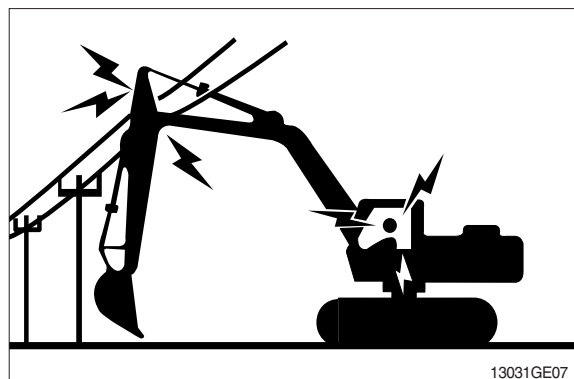
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



## AVOID POWER LINES

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

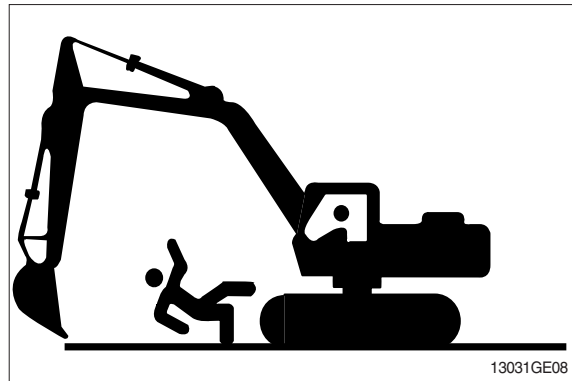
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



## 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.

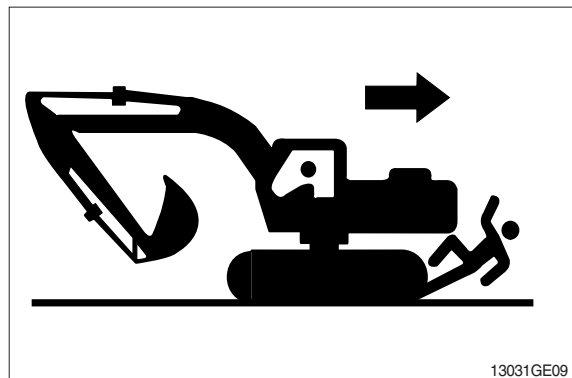


## MOVE AND OPERATE MACHINE SAFELY

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:

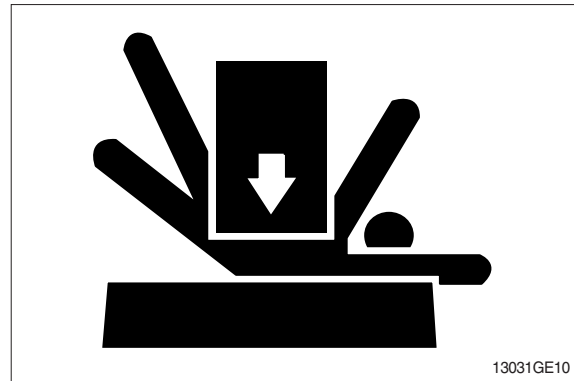
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

## 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.

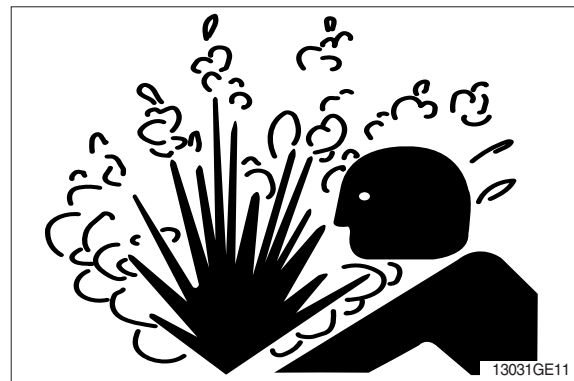
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



## 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

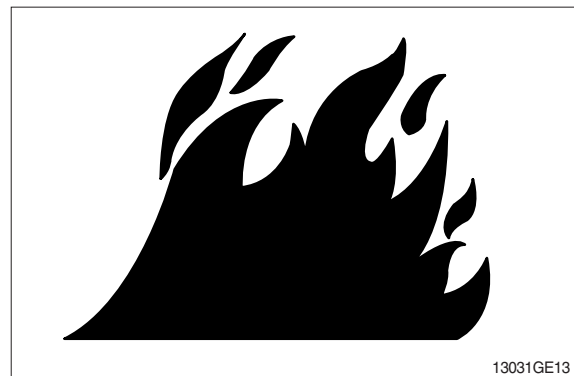
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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.

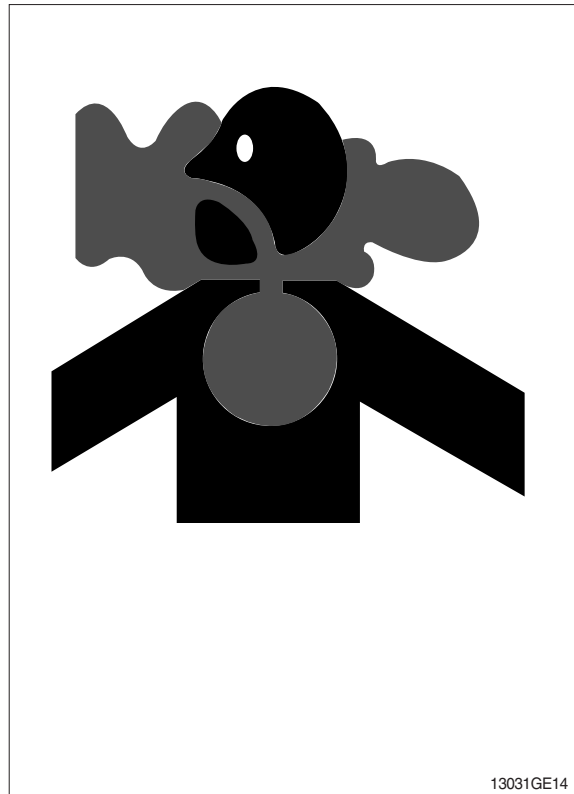
Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

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

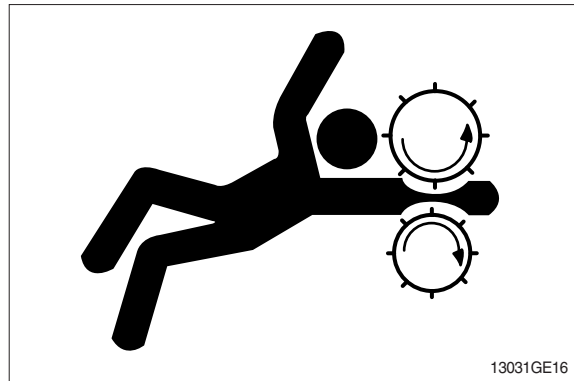
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



## 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.

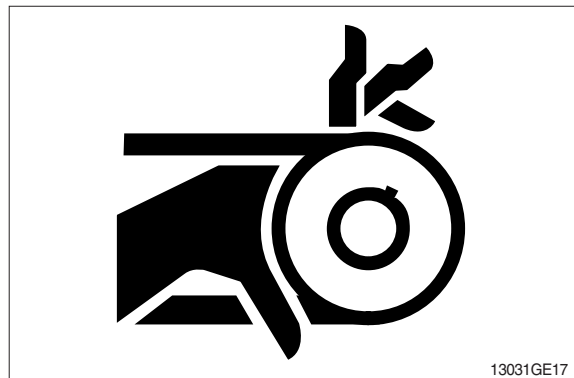
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



## STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



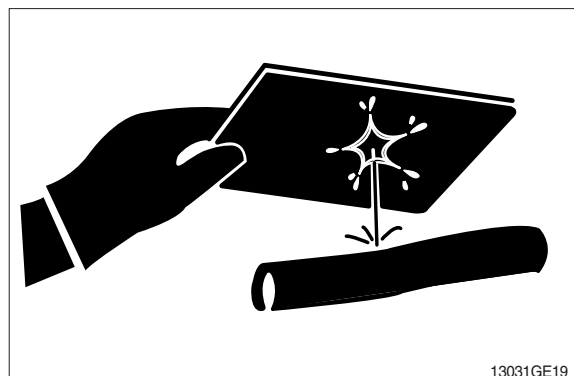
## AVOID HIGH PRESSURE FLUIDS

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.

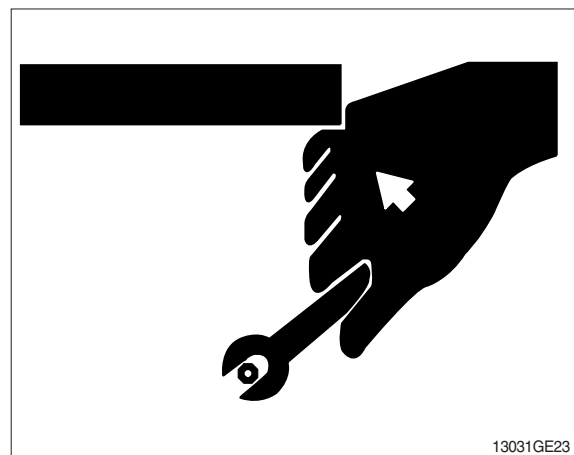
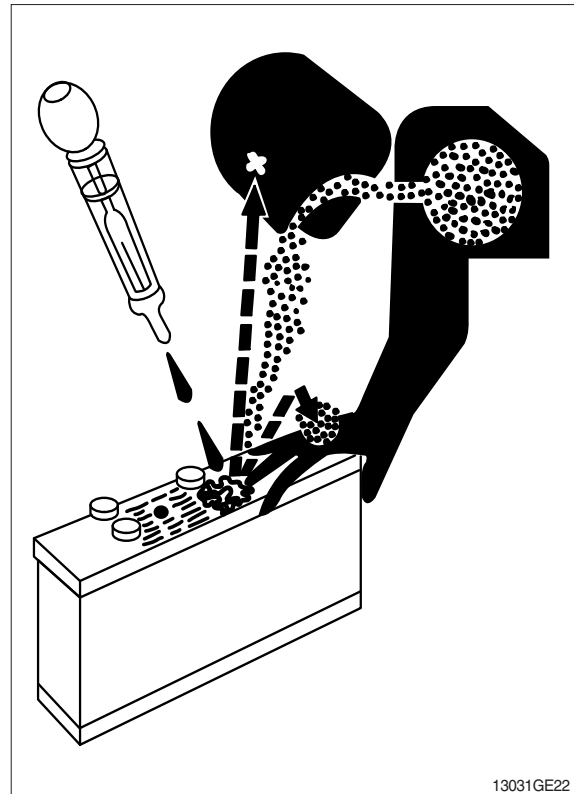
## USE TOOLS PROPERLY

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.)

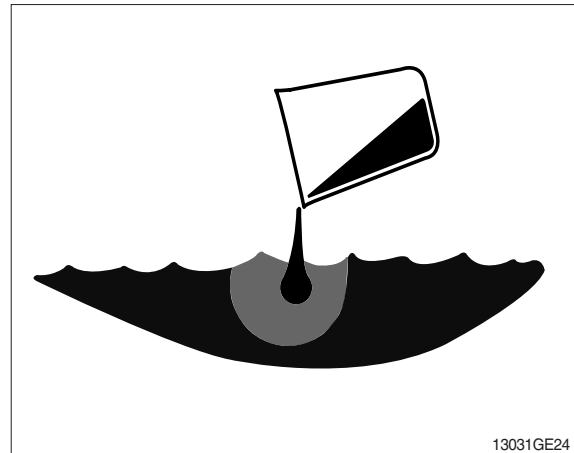


## DISPOSE OF FLUIDS PROPERLY

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.

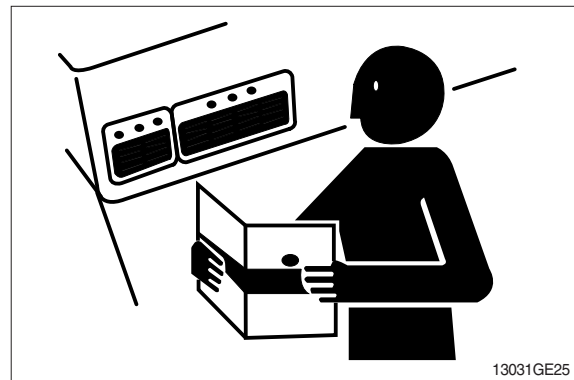
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

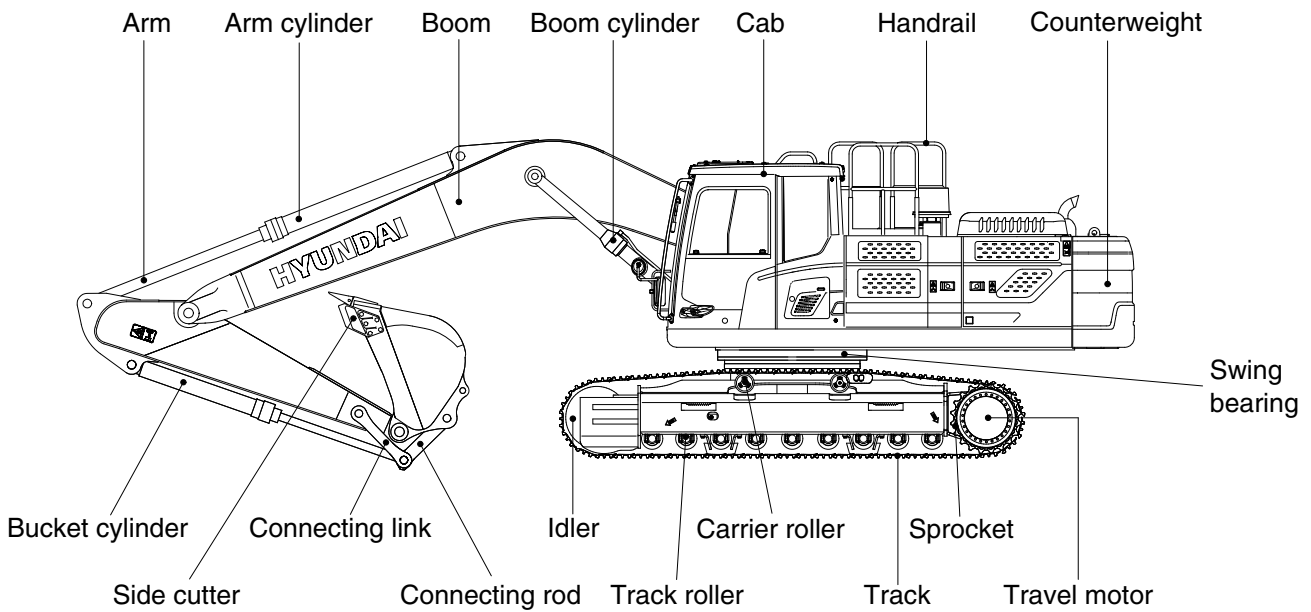
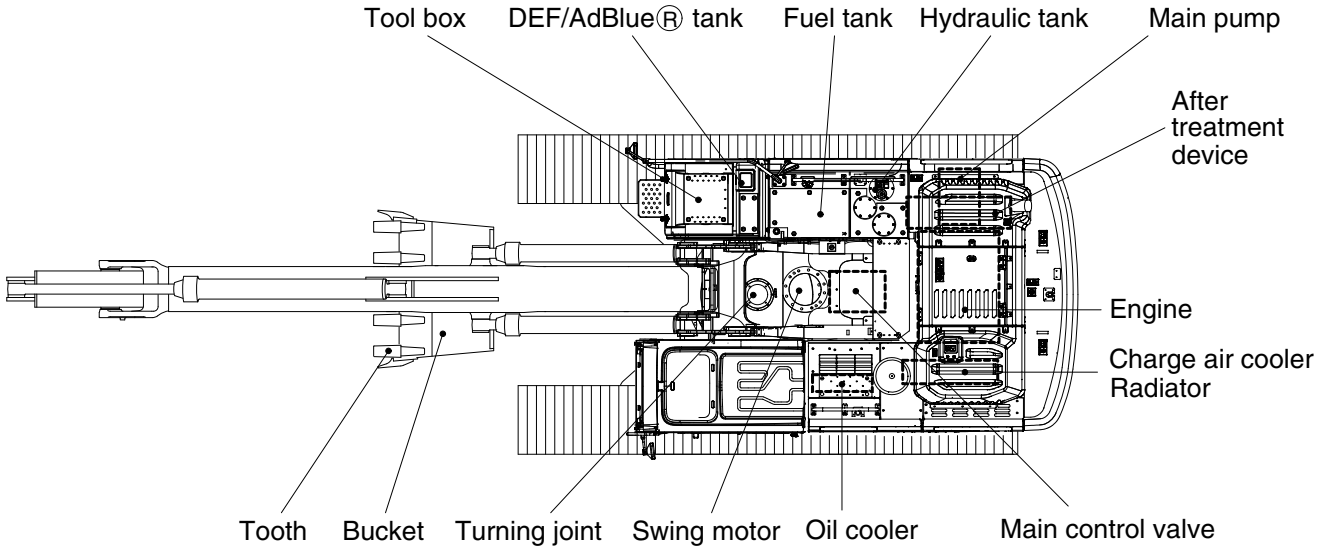


## LIVE WITH SAFETY

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

# GROUP 2 SPECIFICATIONS

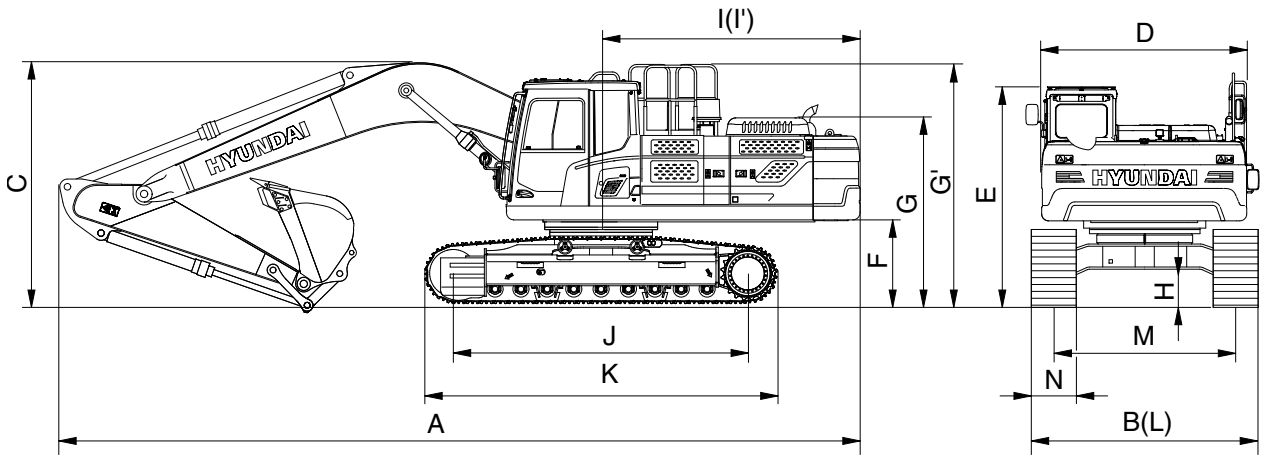
## 1. MAJOR COMPONENT



380A2SP01

## 2. SPECIFICATIONS

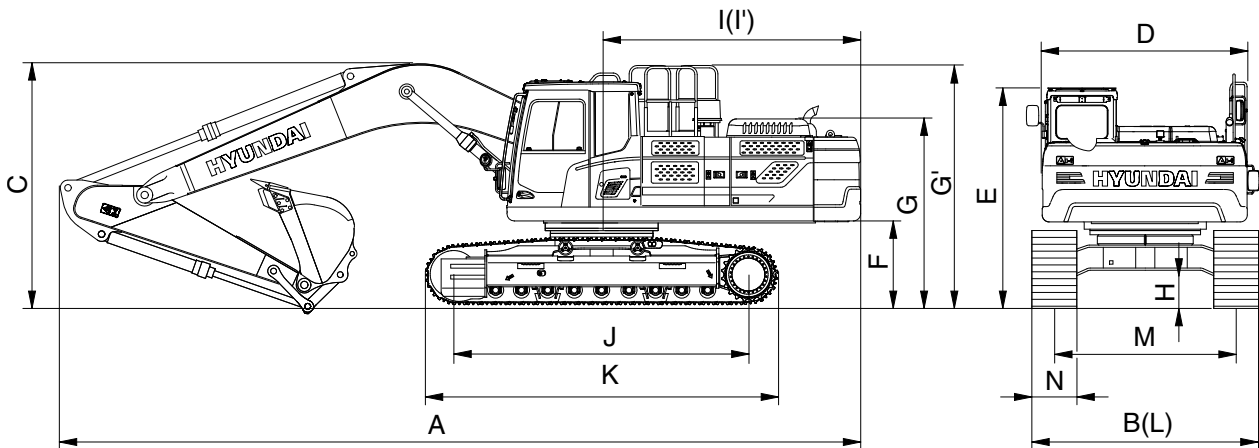
### 1) HX380A L, MONO BOOM (1/2)



380A2SP02

Description	Unit		Specification			
	m (ft-in)	Boom	6.50 (21' 4")			
		Arm	3.20 (10' 6")	3.20 (10' 6")	3.90 (12' 10")	2.50 (8' 2")
mm (in)	Shoe	800 (32)	600 (24)			
Operating weight	kg (lb)	40000 (88000)	39100 (86020)	39200 (86240)	38960 (85712)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	1.62 (2.10)	1.62 (2.10)	1.62 (2.10)	1.62 (2.10)	
Overall length	A	11400 (37' 5")	11400 (37' 5")	11400 (37' 5")	11450 (37' 7")	
Overall width	B	3540 (11' 7")	3340 (9' 10")	3340 (9' 10")	3340 (9' 10")	
Overall height of boom	C	3630 (11' 11")	3630 (11' 11")	3740 (12' 3")	3740 (12' 3")	
Superstructure width	D	2980 (9' 8")	2980 (9' 8")	2980 (9' 8")	2980 (9' 8")	
Overall height of cab	E	3240 (10' 6")	3240 (10' 6")	3240 (10' 6")	3240 (10' 6")	
Ground clearance of counterweight	F	1295 (4' 3")	1295 (4' 3")	1295 (4' 3")	1295 (4' 3")	
Overall height of engine hood	G	2830 (9' 3")	2830 (9' 3")	2830 (9' 3")	2830 (9' 3")	
Overall height of handrail	G'	3470 (11' 5")	3470 (11' 5")	3470 (11' 5")	3470 (11' 5")	
Minimum ground clearance	H	550 (1' 10")	550 (1' 10")	550 (1' 10")	550 (1' 10")	
Rear-end distance	I	3555 (11' 8")	3555 (11' 8")	3555 (11' 8")	3555 (11' 8")	
Rear-end swing radius	I'	3620 (11' 11")	3620 (11' 11")	3620 (11' 11")	3620 (11' 11")	
Distance between tumblers	J	4340 (14' 3")	4340 (14' 3")	4340 (14' 3")	4340 (14' 3")	
Undercarriage length	K	5270 (17' 3")	5270 (17' 3")	5270 (17' 3")	5270 (17' 3")	
Undercarriage width	L	3540 (11' 7")	3340 (10' 11")	3340 (10' 11")	3340 (10' 11")	
Track gauge	M	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	
Track shoe width, standard	N	800 (32")	600 (24")	600 (24")	600 (24")	
Travel speed (low/high)	km/hr (mph)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)	
Swing speed	rpm	10.4	10.4	10.4	10.4	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.54 (7.65)	0.70 (9.97)	0.70 (10.0)	0.70 (9.93)	
Max traction force	kg (lb)	32517 (71688)	32517 (71688)	32517 (71688)	32517 (71688)	

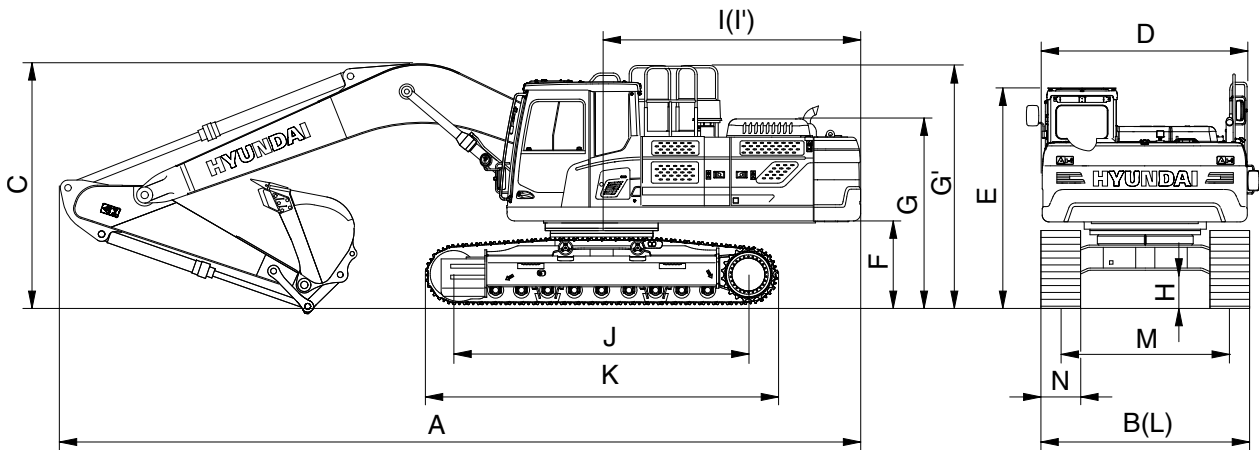
## HX380A L, MONO BOOM (2/2)



380A2SP02

Description	Unit		Specification
	m (ft-in)	Boom	6.15 (20' 2")
		Arm	2.50 (8' 2")
mm (in)	Shoe	600 (24)	
Operating weight	kg (lb)		38860 (85492)
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )		1.62 (2.10)
Overall length	A	mm (ft-in)	11100 (36' 5")
Overall width	B		3340 (9' 10")
Overall height of boom	C		3830 (12' 7")
Superstructure width	D		2980 (9' 8")
Overall height of cab	E		3240 (10' 6")
Ground clearance of counterweight	F		1295 (4' 3")
Overall height of engine hood	G		2830 (9' 3")
Overall height of handrail	G'		3470 (11' 5")
Minimum ground clearance	H		550 (1' 10")
Rear-end distance	I		3555 (11' 8")
Rear-end swing radius	I'		3620 (11' 11")
Distance between tumblers	J		4340 (14' 3")
Undercarriage length	K		5270 (17' 3")
Undercarriage width	L		3340 (10' 11")
Track gauge	M		2740 (9' 0")
Track shoe width, standard	N		600 (24")
Travel speed (low/high)	km/hr (mph)		3.5/5.7 (2.2/3.5)
Swing speed	rpm		10.4
Gradeability	Degree (%)		35 (70)
Ground pressure	kgf/cm <sup>2</sup> (psi)		0.70 (9.91)
Max traction force	kg (lb)		32517 (71688)

## 2) HX380A NL, MONO BOOM

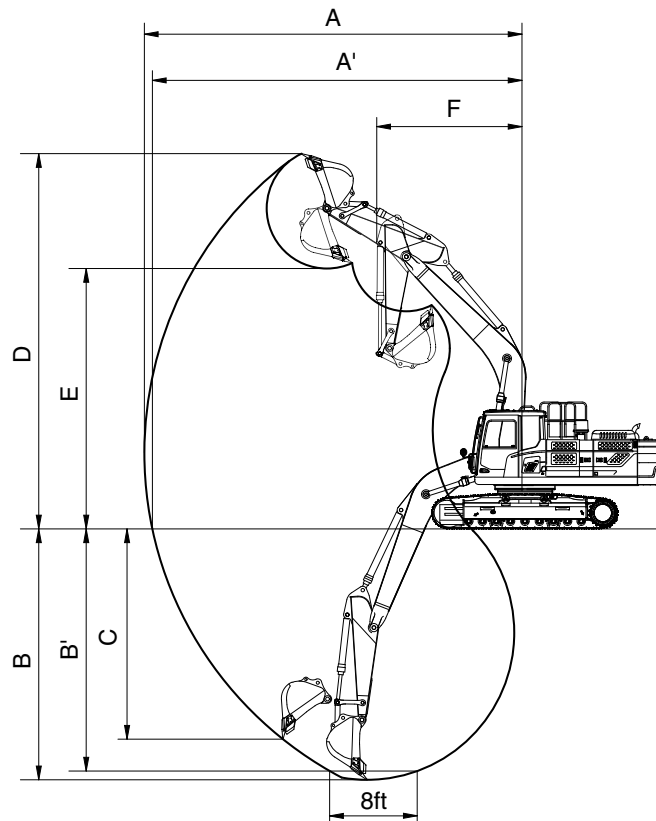


380A2SP03

Description	Unit		Specification			
	m (ft-in)	Boom	6.50 (21' 4")			6.15 (20' 2")
		Arm	3.20 (10' 6")	3.90 (12' 10")	2.50 (8' 2")	2.50 (8' 2")
mm (in)	Shoe	600 (24)				
Operating weight	kg (lb)	38890 (85558)	38990 (85778)	38750 (85250)	38650 (85030)	
Bucket capacity (SAE heaped), standard	m <sup>3</sup> (yd <sup>3</sup> )	1.62 (2.10)	1.62 (2.10)	1.62 (2.10)	1.62 (2.10)	
Overall length	A	11400 (37' 5")	11400 (37' 5")	11450 (37' 7")	11100 (36' 5")	
Overall width	B	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	2990 (9' 10")	
Overall height of boom	C	3630 (11' 11")	3740 (12' 3")	3740 (12' 3")	3830 (12' 7")	
Superstructure width	D	2980 (9' 8")	2980 (9' 8")	2980 (9' 8")	2980 (9' 8")	
Overall height of cab	E	3240 (10' 6")	3240 (10' 6")	3240 (10' 6")	3240 (10' 6")	
Ground clearance of counterweight	F	1295 (4' 3")	1295 (4' 3")	1295 (4' 3")	1295 (4' 3")	
Overall height of engine hood	G	2830 (9' 3")	2830 (9' 3")	2830 (9' 3")	2830 (9' 3")	
Overall height of handrail	G'	3470 (11' 5")	3470 (11' 5")	3470 (11' 5")	3470 (11' 5")	
Minimum ground clearance	H	550 (1' 10")	550 (1' 10")	550 (1' 10")	550 (1' 10")	
Rear-end distance	I	3555 (11' 8")	3555 (11' 8")	3555 (11' 8")	3555 (11' 8")	
Rear-end swing radius	I'	3620 (11' 11")	3620 (11' 11")	3620 (11' 11")	3620 (11' 11")	
Distance between tumblers	J	4340 (14' 3")	4340 (14' 3")	4340 (14' 3")	4340 (14' 3")	
Undercarriage length	K	5270 (17' 3")	5270 (17' 3")	5270 (17' 3")	5270 (17' 3")	
Undercarriage width	L	3340 (10' 11")	3340 (10' 11")	3340 (10' 11")	3340 (10' 11")	
Track gauge	M	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	2740 (9' 0")	
Track shoe width, standard	N	600 (24")	600 (24")	600 (24")	600 (24")	
Travel speed (low/high)	km/hr (mph)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)	3.5/5.7 (2.2/3.5)	
Swing speed	rpm	10.4	10.4	10.4	10.4	
Gradeability	Degree (%)	35 (70)	35 (70)	35 (70)	35 (70)	
Ground pressure	kgf/cm <sup>2</sup> (psi)	0.70 (9.92)	0.70 (9.94)	0.70 (9.88)	0.69 (9.86)	
Max traction force	kg (lb)	32517 (71688)	32517 (71688)	32517 (71688)	32517 (71688)	

### 3. WORKING RANGE

#### 1) HX380A L/NL, MONO BOOM



380A2SP05

Description	m (ft-in)	Boom	6.50 (21' 4")			
		Arm	2.50 (8' 2")	2.50 (8' 2")	3.20 (10' 6")	3.90 (12' 10")
Max digging reach	mm (ft-in)	A	10300 (33' 10")	10650 (34' 11")	11160 (36' 7")	11820 (38' 9")
Max digging reach on ground		A'	10060 (33' 0")	10410 (34' 2")	10930 (35' 10")	11620 (38' 1")
Max digging depth		B	6560 (21' 6")	6820 (22' 5")	7520 (24' 8")	8220 (27' 0")
Max digging depth (8 ft level)		B'	6380 (20' 11")	6640 (21' 9")	7360 (24' 2")	8080 (26' 6")
Max vertical wall digging depth		C	4780 (15' 8")	5030 (16' 6")	5480 (18' 0")	6300 (20' 8")
Max digging height		D	10000 (32' 10")	10330 (33' 11")	10270 (33' 8")	10610 (34' 10")
Max dumping height		E	6870 (22' 6")	7190 (23' 7")	7190 (23' 7")	7500 (24' 7")
Min swing radius		F	4310 (14' 2")	4490 (14' 9")	4490 (14' 9")	4350 (14' 3")
Bucket digging force	kN	SAE	228.5 [249.3]	201.0 [219.3]	201.0 [219.3]	201.0 [219.3]
	kgf		23300 [25420]	20500 [22360]	20500 [22360]	20500 [22360]
	lbf		51370 [56040]	45190 [49300]	45190 [49300]	45190 [49300]
	kN	ISO	259.9 [283.5]	228.5 [249.3]	228.5 [249.3]	228.5 [249.3]
	kgf		26500 [28910]	23300 [25420]	23300 [25420]	23300 [25420]
	lbf		58420 [63740]	51370 [56040]	51370 [56040]	51370 [56040]
Arm digging force	kN	SAE	192.2 [209.7]	192.2 [209.7]	160.8 [175.4]	137.3 [149.7]
	kgf		19600 [21380]	19600 [21380]	16400 [17890]	14000 [15270]
	lbf		43210 [47130]	43210 [47130]	36160 [39440]	30860 [33660]
	kN	ISO	200.1 [218.2]	200.1 [218.2]	165.7 [180.8]	141.2 [154.1]
	kgf		20400 [22250]	20400 [22250]	16900 [18440]	14400 [15710]
	lbf		44970 [49050]	44970 [49050]	37260 [40650]	31750 [34630]

[ ] : Power boost

#### 4. WEIGHT

Item	HX380A L		HX380A NL	
	kg	lb	kg	lb
Upperstructure assembly				
· Main frame weld assembly	3,130	6,900	3,130	6,900
· Engine assembly	680	1,499	680	1,499
· Aftertreatment assembly	100	220	100	220
· Main pump assembly	170	375	170	375
· Main control valve assembly	380	838	380	838
· Swing motor assembly	440	970	440	970
· Hydraulic oil tank WA	410	904	410	904
· Fuel tank WA	340	750	340	750
· Counterweight	6,500	14,330	6,500	14,330
· Cab assembly	980	2,161	980	2,161
Lower chassis assembly				
· Track frame weld assembly	5,150	11,354	4,940	10,891
· Swing bearing	547	1,206	547	1,206
· Travel motor assembly (2EA)	760	1,675	760	1,675
· Turning joint	50	110	50	110
· Sprocket (2EA)	170	375	170	375
· Track recoil spring (2EA)	455	1,004	455	1,004
· Idler (2EA)	522	1,146	520	1,146
· Upper roller (2EA)	160	353	160	353
· Lower roller (18EA)	1,431	3,155	1,431	3,155
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	4,723	10,413	4,723	10,413
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	5,621	12,392	-	-
Front attachment assembly				
· 6.50 m boom assembly	3,150	6,944	3,150	6,944
· 3.20 m arm assembly	1,450	3,197	1,450	3,197
· 1.62 m³ SAE heaped bucket	1,470	3,241	1,470	3,241
· Boom cylinder assembly (2EA)	720	1,587	720	1,587
· Arm cylinder assembly	450	992	450	992
· Bucket cylinder assembly	300	661	300	661
· Bucket control linkage total	360	794	360	794

※ 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.

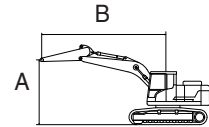
















## 5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX380A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	3200	6500	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									*7790	*7790			*7050	*7050	7.80
	lb									*17170	*17170			*15540	*15540	(25.6)
6.0 m (19.7 ft)	kg									*8000	*8000			*6910	6290	8.64
	lb									*17640	*17640			*15230	13870	(28.4)
4.5 m (14.8 ft)	kg				*12530	*12530	*9960	*9960	*8720	7770	*8150	5760	*7020	5580	9.17	
	lb				*27620	*27620	*21960	*21960	*19220	17130	*17970	12700	*15480	12300	(30.1)	
3.0 m (9.8 ft)	kg				*16270	15710	*11750	10320	*9660	7420	*8570	5600	*7360	5200	9.42	
	lb				*35870	34630	*25900	22750	*21300	16360	*18890	12350	*16230	11460	(30.9)	
1.5 m (4.9 ft)	kg				*17950	14680	*13320	9750	*10570	7110	8960	5440	*7970	5070	9.43	
	lb				*39570	32360	*29370	21500	*23300	15670	19750	11990	*17570	11180	(30.9)	
0.0 m (0.0 ft)	kg				*18930	14280	*14290	9390	*11200	6880	8840	5330	8580	5180	9.19	
	lb				*41730	31480	*31500	20700	*24690	15170	19490	11750	18920	11420	(30.1)	
-1.5 m (-4.9 ft)	kg		*12410	*12410	*19670	14220	*14520	9260	*11370	6780			9280	5580	8.68	
	lb		*27360	*27360	*43360	31350	*32010	20410	*25070	14950			20460	12300	(28.5)	
-3.0 m (-9.8 ft)	kg	*15020	*15020	*20150	*20150	*18480	14370	*13910	9310	*10750	6850		*10070	6460	7.85	
	lb	*33110	*33110	*44420	*44420	*40740	31680	*30670	20530	*23700	15100		*22200	14240	(25.7)	
-4.5 m (-14.8 ft)	kg			*21800	*21800	*15950	14760	*11940	9590				*10520	8480	6.57	
	lb			*48060	*48060	*35160	32540	*26320	21140				*23190	18700	(21.6)	

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

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

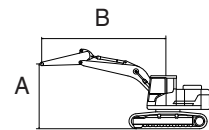
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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
HX380A L	MONO BOOM	6500	2500	6500	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									*8970	8610	7.16
	lb									*19780	18980	(23.5)
6.0 m (19.7 ft)	kg				*9570	*9570	*8920	7920	*8920	6950	8.08	
	lb				*21100	*21100	*19670	17460	*19670	15320	(26.5)	
4.5 m (14.8 ft)	kg			*14460	*14460	*11020	10780	*9500	7680	*9030	6110	8.64
	lb			*31880	*31880	*24290	23770	*20940	16930	*19910	13470	(28.3)
3.0 m (9.8 ft)	kg				*12690	10160	*10330	7380	*9240	5680	8.91	
	lb				*27980	22400	*22770	16270	*20370	12520	(29.2)	
1.5 m (4.9 ft)	kg				*14020	9690	*11090	7110	9120	5560	8.91	
	lb				*30910	21360	*24450	15670	20110	12260	(29.2)	
0.0 m (0.0 ft)	kg			*14720	14400	*14660	9450	*11510	6950	9450	5730	8.66
	lb			*32450	31750	*32320	20830	*25380	15320	20830	12630	(28.4)
-1.5 m (-4.9 ft)	kg			*19240	14470	*14510	9400	*11360	6920	*10230	6260	8.12
	lb			*42420	31900	*31990	20720	*25040	15260	*22550	13800	(26.6)
-3.0 m (-9.8 ft)	kg	*22870	*22870	*17520	14710	*13390	9540			*10550	7460	7.22
	lb	*50420	*50420	*38620	32430	*29520	21030			*23260	16450	(23.7)
-4.5 m (-14.8 ft)	kg			*14070	*14070					*10500	10480	5.80
	lb			*31020	*31020					*23150	23100	(19.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

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

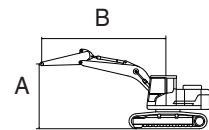
Failure to comply to the rated load can cause possible personal injury or property damage.















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
HX380A L	MONO BOOM	6500	3900	6500	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														*5580	*5580	7.43
	lb														*12300	*12300	(24.4)
7.5 m (24.6 ft)	kg							*6800	*6800						*5240	*5240	8.59
	lb							*14990	*14990						*11550	*11550	(28.2)
6.0 m (19.7 ft)	kg							*7180	*7180	*6500	6030	*5130	*5130	9.36			
	lb							*15830	*15830	*14330	13290	*11310	*11310	(30.7)			
4.5 m (14.8 ft)	kg						*8930	*8930	*7990	7950	*7510	5900	*5200	5030	9.85		
	lb						*19690	*19690	*17610	17530	*16560	13010	*11460	11090	(32.3)		
3.0 m (9.8 ft)	kg			*14540	*14540	*10830	10620	*9040	7580	*8060	5700	*5420	4720	10.08			
	lb			*32060	*32060	*23880	23410	*19930	16710	*17770	12570	*11950	10410	(33.1)			
1.5 m (4.9 ft)	kg			*17770	15140	*12620	9970	*10080	7230	*8650	5500	*5810	4600	10.09			
	lb			*39180	33380	*27820	21980	*22220	15940	*19070	12130	*12810	10140	(33.1)			
0.0 m (0.0 ft)	kg		*7060	*7060	*19500	14470	*13900	9520	*10910	6950	8860	5350	*6450	4670	9.87		
	lb		*15560	*15560	*42990	31900	*30640	20990	*24050	15320	19530	11790	*14220	10300	(32.4)		
-1.5 m (-4.9 ft)	kg	*7760	*7760	*11450	*11450	*19920	14240	*14490	9290	*11330	6790	8770	5270	*7490	4970	9.39	
	lb	*17110	*17110	*25240	*25240	*43920	31390	*31940	20480	*24980	14970	19330	11620	*16510	10960	(30.8)	
-3.0 m (-9.8 ft)	kg	*12390	*12390	*16990	*16990	*19280	14280	*14310	9250	*11160	6760			*9290	5610	8.63	
	lb	*27320	*27320	*37460	*37460	*42510	31480	*31550	20390	*24600	14900			*20480	12370	(28.3)	
-4.5 m (-14.8 ft)	kg	*17960	*17960	*24770	*24770	*17460	14540	*13090	9410					*9810	6940	7.50	
	lb	*39590	*39590	*54610	*54610	*38490	32060	*28860	20750					*21630	15300	(24.6)	
-6.0 m (-19.7 ft)	kg		*18940	*18940	*13630	*13630								*10220	*10220	5.76	
	lb		*41760	*41760	*30050	*30050								*22530	*22530	(18.9)	

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.

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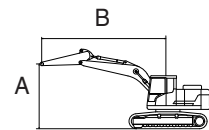
Failure to comply to the rated load can cause possible personal injury or property damage.















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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX380A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	3200	7000	800	-	-	-	-	-

·  : 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									*7790	*7790			*7050	*7050	7.80
	lb									*17170	*17170			*15540	*15540	(25.6)
6.0 m (19.7 ft)	kg									*8000	*8000			*6910	6650	8.64
	lb									*17640	*17640			*15230	14660	(28.4)
4.5 m (14.8 ft)	kg				*12530	*12530	*9960	*9960	*8720	8200	*8150	6100	*7020	5910	9.17	
	lb				*27620	*27620	*21960	*21960	*19220	18080	*17970	13450	*15480	13030	(30.1)	
3.0 m (9.8 ft)	kg				*16270	*16270	*11750	10890	*9660	7850	*8570	5950	*7360	5530	9.42	
	lb				*35870	*35870	*25900	24010	*21300	17310	*18890	13120	*16230	12190	(30.9)	
1.5 m (4.9 ft)	kg				*17950	15530	*13320	10320	*10570	7530	*9030	5780	*7970	5400	9.43	
	lb				*39570	34240	*29370	22750	*23300	16600	*19910	12740	*17570	11900	(30.9)	
0.0 m (0.0 ft)	kg				*18930	15130	*14290	9960	*11200	7310	*9310	5670	*8980	5510	9.19	
	lb				*41730	33360	*31500	21960	*24690	16120	*20530	12500	*19800	12150	(30.1)	
-1.5 m (-4.9 ft)	kg		*12410	*12410	*19670	15070	*14520	9830	*11370	7210			*9570	5940	8.68	
	lb		*27360	*27360	*43360	33220	*32010	21670	*25070	15900			*21100	13100	(28.5)	
-3.0 m (-9.8 ft)	kg	*15020	*15020	*20150	*20150	*18480	15220	*13910	9880	*10750	7270		*10070	6870	7.85	
	lb	*33110	*33110	*44420	*44420	*40740	33550	*30670	21780	*23700	16030		*22200	15150	(25.7)	
-4.5 m (-14.8 ft)	kg		*21800	*21800	*15950	15610	*11940	10160					*10520	8990	6.57	
	lb		*48060	*48060	*35160	34410	*26320	22400					*23190	19820	(21.6)	

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. \*Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

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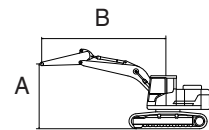
Failure to comply to the rated load can cause possible personal injury or property damage.











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
HX380A L	MONO BOOM	6150	2500	6500	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					*9240	*9240			*9470	*9470	6.71
	lb					*20370	*20370			*20880	*20880	(22.0)
6.0 m (19.7 ft)	kg					*9720	*9720	*9360	7940	*9400	7600	7.69
	lb					*21430	*21430	*20640	17500	*20720	16760	(25.2)
4.5 m (14.8 ft)	kg			*14000	*14000	*11060	10960	*9770	7760	*9530	6610	8.27
	lb			*30860	*30860	*24380	24160	*21540	17110	*21010	14570	(27.1)
3.0 m (9.8 ft)	kg					*12720	10380	*10540	7500	*9770	6130	8.55
	lb					*28040	22880	*23240	16530	*21540	13510	(28.1)
1.5 m (4.9 ft)	kg					*14120	9910	*11290	7250	9800	6000	8.56
	lb					*31130	21850	*24890	15980	21610	13230	(28.1)
0.0 m (0.0 ft)	kg			*20360	14680	*14840	9650	*11690	7090	10180	6200	8.29
	lb			*44890	32360	*32720	21270	*25770	15630	22440	13670	(27.2)
-1.5 m (-4.9 ft)	kg	*14540	*14540	*19660	14710	*14710	9590	*11390	7090	*10910	6830	7.72
	lb	*32060	*32060	*43340	32430	*32430	21140	*25110	15630	*24050	15060	(25.3)
-3.0 m (-9.8 ft)	kg	*24010	*24010	*17760	14950	*13350	9750			*11280	8310	6.77
	lb	*52930	*52930	*39150	32960	*29430	21500			*24870	18320	(22.2)
-4.5 m (-14.8 ft)	kg			*13520	*13520					*11150	*11150	5.23
	lb			*29810	*29810					*24580	*24580	(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.

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.

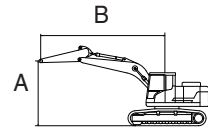
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX380A NL	MONO BOOM	6500	2500	6500	600	-	-	-	-	-



: 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									*8970	7470	7.16
	lb									*19780	16470	(23.5)
6.0 m (19.7 ft)	kg				*9570	*9570	*8920	6860	*8920	6020	8.08	
	lb				*21100	*21100	*19670	15120	*19670	13270	(26.5)	
4.5 m (14.8 ft)	kg		*14460	14130	*11020	9290	*9500	6630	*9030	5260	8.64	
	lb		*31880	31150	*24290	20480	*20940	14620	*19910	11600	(28.3)	
3.0 m (9.8 ft)	kg				*12690	8690	*10330	6340	9190	4880	8.91	
	lb				*27980	19160	*22770	13980	20260	10760	(29.2)	
1.5 m (4.9 ft)	kg				*14020	8240	*11090	6080	9050	4760	8.91	
	lb				*30910	18170	*24450	13400	19950	10490	(29.2)	
0.0 m (0.0 ft)	kg		*14720	12010	*14660	8000	*11510	5920	9370	4890	8.66	
	lb		*32450	26480	*32320	17640	*25380	13050	20660	10780	(28.4)	
-1.5 m (-4.9 ft)	kg		*19240	12070	*14510	7960	*11360	5900	*10230	5350	8.12	
	lb		*42420	26610	*31990	17550	*25040	13010	*22550	11790	(26.6)	
-3.0 m (-9.8 ft)	kg	*22870	*22870	*17520	12300	*13390	8090		*10550	6370	7.22	
	lb	*50420	*50420	*38620	27120	*29520	17840		*23260	14040	(23.7)	
-4.5 m (-14.8 ft)	kg		*14070	12770					*10500	8930	5.80	
	lb		*31020	28150					*23150	19690	(19.0)	

Note 1. Lifting capacity are based on ISO 10567.

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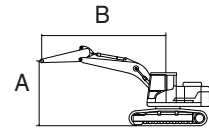
Make adjustments to the rated load as necessary for non-standard configurations.

















Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX380A NL	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6500	3200	6500	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									*7790	7100			*7050	6610	7.80
	lb									*17170	15650			*15540	14570	(25.6)
6.0 m (19.7 ft)	kg									*8000	6990			*6910	5440	8.64
	lb									*17640	15410			*15230	11990	(28.4)
4.5 m (14.8 ft)	kg				*12530	*12530	*9960	9490	*8720	6720	*8150	4960	*7020	4800	9.17	
	lb				*27620	*27620	*21960	20920	*19220	14820	*17970	10930	*15480	10580	(30.1)	
3.0 m (9.8 ft)	kg				*16270	13240	*11750	8830	*9660	6380	*8570	4810	*7360	4450	9.42	
	lb				*35870	29190	*25900	19470	*21300	14070	*18890	10600	*16230	9810	(30.9)	
1.5 m (4.9 ft)	kg				*17950	12270	*13320	8290	*10570	6070	8890	4650	*7970	4330	9.43	
	lb				*39570	27050	*29370	18280	*23300	13380	19600	10250	*17570	9550	(30.9)	
0.0 m (0.0 ft)	kg				*18930	11880	*14290	7950	*11200	5850	8760	4540	8510	4410	9.19	
	lb				*41730	26190	*31500	17530	*24690	12900	19310	10010	18760	9720	(30.1)	
-1.5 m (-4.9 ft)	kg		*12410	*12410	*19670	11830	*14520	7810	*11370	5760			9210	4740	8.68	
	lb		*27360	*27360	*43360	26080	*32010	17220	*25070	12700			20300	10450	(28.5)	
-3.0 m (-9.8 ft)	kg	*15020	*15020	*20150	*20150	*18480	11970	*13910	7860	*10750	5820		*10070	5500	7.85	
	lb	*33110	*33110	*44420	*44420	*40740	26390	*30670	17330	*23700	12830		*22200	12130	(25.7)	
-4.5 m (-14.8 ft)	kg		*21800	*21800	*15950	12340	*11940	8140					*10520	7220	6.57	
	lb		*48060	*48060	*35160	27210	*26320	17950					*23190	15920	(21.6)	

Note 1. Lifting capacity are based on ISO 10567.

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4. \*Indicates load limited by hydraulic capacity.

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

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

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

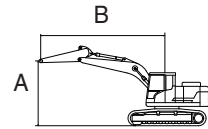
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX380A NL	MONO BOOM	6500	3900	6500	600	-	-	-	-	-



: 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													*5580	*5580	7.43	
	lb													*12300	*12300	(24.4)	
7.5 m (24.6 ft)	kg							*6800	*6800					*5240	*5240	8.59	
	lb							*14990	*14990					*11550	*11550	(28.2)	
6.0 m (19.7 ft)	kg							*7180	*7180	*6500	5220			*5130	4830	9.36	
	lb							*15830	*15830	*14330	11510			*11310	10650	(30.7)	
4.5 m (14.8 ft)	kg							*8930	*8930	*7990	6890	*7510	5090	*5200	4320	9.85	
	lb							*19690	*19690	*17610	15190	*16560	11220	*11460	9520	(32.3)	
3.0 m (9.8 ft)	kg				*14540	13890	*10830	9120	*9040	6540	*8060	4900	*5420	4030	10.08		
	lb				*32060	30620	*23880	20110	*19930	14420	*17770	10800	*11950	8880	(33.1)		
1.5 m (4.9 ft)	kg				*17770	12700	*12620	8500	*10080	6190	*8650	4710	*5810	3920	10.09		
	lb				*39180	28000	*27820	18740	*22220	13650	*19070	10380	*12810	8640	(33.1)		
0.0 m (0.0 ft)	kg				*7060	*7060	*19500	12070	*13900	8070	*10910	5920	8780	4550	*6450	3970	9.87
	lb				*15560	*15560	*42990	26610	*30640	17790	*24050	13050	19360	10030	*14220	8750	(32.4)
-1.5 m (-4.9 ft)	kg	*7760	*7760	*11450	*11450	*19920	11850	*14490	7850	*11330	5760	8700	4480	*7490	4220	9.39	
	lb	*17110	*17110	*25240	*25240	*43920	26120	*31940	17310	*24980	12700	19180	9880	*16510	9300	(30.8)	
-3.0 m (-9.8 ft)	kg	*12390	*12390	*16990	*16990	*19280	11880	*14310	7810	*11160	5740			9270	4770	8.63	
	lb	*27320	*27320	*37460	*37460	*42510	26190	*31550	17220	*24600	12650			20440	10520	(28.3)	
-4.5 m (-14.8 ft)	kg	*17960	*17960	*24770	23970	*17460	12130	*13090	7960					*9810	5910	7.50	
	lb	*39590	*39590	*54610	52840	*38490	26740	*28860	17550					*21630	13030	(24.6)	
-6.0 m (-19.7 ft)	kg				*18940	*18940	*13630	12670						*10220	8900	5.76	
	lb				*41760	*41760	*30050	27930						*22530	19620	(18.9)	

- Note 1. Lifting capacity are based on ISO 10567.  
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 3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).  
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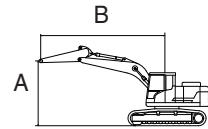
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX380A NL	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6150	2500	6500	600	-	-	-	-	-



: 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					*9240	*9240			*9470	8350	6.71
	lb					*20370	*20370			*20880	18410	(22.0)
6.0 m (19.7 ft)	kg					*9720	*9720	*9360	6890	*9400	6590	7.69
	lb					*21430	*21430	*20640	15190	*20720	14530	(25.2)
4.5 m (14.8 ft)	kg			*14000	*14000	*11060	9460	*9770	6720	*9530	5710	8.27
	lb			*30860	*30860	*24380	20860	*21540	14820	*21010	12590	(27.1)
3.0 m (9.8 ft)	kg					*12720	8900	*10540	6460	*9770	5280	8.55
	lb					*28040	19620	*23240	14240	*21540	11640	(28.1)
1.5 m (4.9 ft)	kg					*14120	8450	*11290	6220	9720	5150	8.56
	lb					*31130	18630	*24890	13710	21430	11350	(28.1)
0.0 m (0.0 ft)	kg			*20360	12280	*14840	8200	*11690	6070	10100	5310	8.29
	lb			*44890	27070	*32720	18080	*25770	13380	22270	11710	(27.2)
-1.5 m (-4.9 ft)	kg	*14540	*14540	*19660	12310	*14710	8150	*11390	6060	*10910	5850	7.72
	lb	*32060	*32060	*43340	27140	*32430	17970	*25110	13360	*24050	12900	(25.3)
-3.0 m (-9.8 ft)	kg	*24010	*24010	*17760	12540	*13350	8300			*11280	7110	6.77
	lb	*52930	*52930	*39150	27650	*29430	18300			*24870	15670	(22.2)
-4.5 m (-14.8 ft)	kg			*13520	13080					*11150	10580	5.23
	lb			*29810	28840					*24580	23320	(17.2)

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).
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## 6. BUCKET SELECTION GUIDE

### 1) GENERAL BUCKET



General bucket



Heavy duty  
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO			
	SAE Heaped	CECE heaped	Without side cutter			Recommendation mm (ft-in)			
						6.15 m (20' 2") Boom	6.5 m (21' 4") Boom		
m <sup>3</sup> (yd <sup>3</sup> )	m <sup>3</sup> (yd <sup>3</sup> )	mm (in)	kg (lb)	EA	2.50 m (8' 2') Arm	2.50 m (8' 2') Arm	3.20 m (10' 6') Arm	3.90 m (12' 10') Arm	
General bucket	1.46 (1.91)	1.28 (1.67)	1,305 (51.4")	1,400 (3,090)	4	●	●	●	●
	1.62 (2.12)	1.42 (1.86)	1,415 (55.7")	1,500 (3,310)	5	●	●	●	◐
	1.90 (2.49)	1.65 (2.16)	1,600 (63.0")	1,610 (3,550)	5	●	●	◐	■
	2.10 (2.75)	1.84 (2.41)	1,735 (68.3")	1,690 (3,730)	5	●	◐	■	▲
	2.32 (3.03)	2.02 (2.64)	1,885 (74.2")	1,800 (3,970)	6	◐	■	■	▲

●	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.

## 2) HEAVY DUTY AND ROCK-HEAVY DUTY BUCKET



General bucket



Heavy duty  
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO			
	SAE Heaped	CECE heaped	Without side cutter			Recommendation mm (ft-in)			
						6.15 m (20' 2") Boom	6.5 m (21' 4") Boom		
m <sup>3</sup> (yd <sup>3</sup> )	m <sup>3</sup> (yd <sup>3</sup> )	mm (in)	kg (lb)	EA	2.50 m (8' 2") Arm	2.50 m (8' 2") Arm	3.20 m (10' 6") Arm	3.90 m (12' 10") Arm	
Heavy duty	1.46 (1.91)	1.28 (1.67)	1,305 (51.4")	1,560 (3,440)	4	●	●	●	●
	1.62 (2.12)	1.42 (1.86)	1,415 (55.7")	1,660 (3,660)	5	●	●	●	◐
	1.90 (2.49)	1.65 (2.16)	1,600 (63.0")	1,790 (3,950)	5	●	●	◐	■
	2.10 (2.75)	1.84 (2.41)	1,735 (68.3")	1,880 (4,140)	5	◐	◐	■	▲
Rock heavy duty	1.46 (1.91)	1.28 (1.67)	1,305 (51.4")	1,750 (3,860)	4	●	●	●	◐
	1.62 (2.12)	1.42 (1.86)	1,415 (55.7")	1,850 (4,080)	5	●	●	●	◐
	1.90 (2.49)	1.65 (2.16)	1,600 (63.0")	1,990 (4,390)	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.

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## 7. UNDERCARRIAGE

### 1) TYPES OF SHOES

Model	Description	Unit		Triple grouser								Double grouser	
		width	mm	(in)	600	(24)	700	(28)	800	(32)	900	(36)	600
HX380A L	Operating weight	kg	(lb)	39100	62020	39550	87010	40000	88000	40460	89012	39520	86944
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.7	9.97	0.61	8.64	0.54	7.65	0.48	6.88	0.71	10.07
	Link quantity	EA		51		51		51		51		51	
HX380 NL	Operating weight	kg	(lb)	38890	85558	-	-	-	-	-	-	-	-
	Ground pressure	kgf/cm <sup>2</sup>	(psi)	0.7	9.92	-	-	-	-	-	-	-	-
	Link quantity	EA		51		-		-		-		-	

### 2) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

#### Method of selecting shoes

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

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

**Table 1**

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
600 mm HD triple grouser	Option	A
600 mm double grouser	Option	A
700 mm triple 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
Model	Cummins L9
Type	4-cycle turbocharged, charge air cooled diesel engine
Cooling method	Water cooling
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")
Piston displacement	8900 cc (543 cu in)
Compression ratio	16.72 : 1
Rated net horse power (SAE J1349)	359 Hp at 2100 rpm (268 kW at 2100 rpm)
Rated gross horse power (SAE J1995)	365 Hp at 2100 rpm (272 kW at 2100 rpm)
Maximum torque	183 kgf·m (1325 lbf·ft) at 1400 rpm
Engine oil quantity	30 ℓ (7.9 U.S. gal)
Wet weight	778 kg (1560 lb)
Starting motor	Denso PA90L 24 V-7.8 kW
Alternator	Denso 24 V-95 A
Battery	2 × 12 V × 160 Ah

### 2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 200 cc/rev
Maximum pressure	330 kgf/cm <sup>2</sup> (4690 psi) [360 kgf/cm <sup>2</sup> (5120 psi)]
Rated oil flow	2 × 340 ℓ /min (89.8 U.S. gpm/74.8 U.K. gpm)
Rated speed	1700 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	25.5 ℓ /min (6.7 U.S. gpm/5.6 U.K. gpm)

### 4) MAIN CONTROL VALVE

Item	Specification	
Type	9 spools	
Operating method	Hydraulic pilot system	
Main relief valve pressure	330 kgf/cm <sup>2</sup> (4690 psi) [360 kgf/cm <sup>2</sup> (5120 psi)]	
Port relief valve pressure	Boom	390 kgf/cm <sup>2</sup> (5550 psi)
	Arm	390 kgf/cm <sup>2</sup> (5550 psi)
	Bucket	390 kgf/cm <sup>2</sup> (5550 psi)

[ ] : Power boost

### 5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	240 cc/rev
Relief pressure	290 kgf/cm <sup>2</sup> (4120 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	134 kgf · m (969 lbf · ft) over
Brake release pressure	26 kgf/cm <sup>2</sup> (370 psi) below
Reduction gear type	2 - stage planetary

### 6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Capacity	185/114 cc/rev
Relief pressure	360 kgf/cm <sup>2</sup> (5120 psi)
Braking system	Auto matic, spring applied hydraulic released
Braking torque	57.1 kgf · m (413 lbf · ft)
Brake release pressure	10.6 kgf/cm <sup>2</sup> (151 psi)
Reduction gear type	3-stage planetary

## 7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Stroke	∅160 × 1500 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Stroke	∅170 × 1760 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Stroke	∅150 × 1295 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)
Engine oil pan	Engine oil	30 (7.9)	★SAE 5W-40			SAE 30			
			SAE 10W			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	8.0 (2.1)	★SAE 75W-90						
Final drive		5.5×2 (1.5×2)	SAE 80W-90						
Hydraulic tank	Hydraulic oil	Tank : 210 (55.5)	★ISO VG 15			ISO VG 32			
			ISO VG 46, HBHO VG 46★ <sup>3</sup>			ISO VG 68			
		System : 414 (109)							
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.