

SECTION 1 GENERAL

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SECTION 1 GENERAL

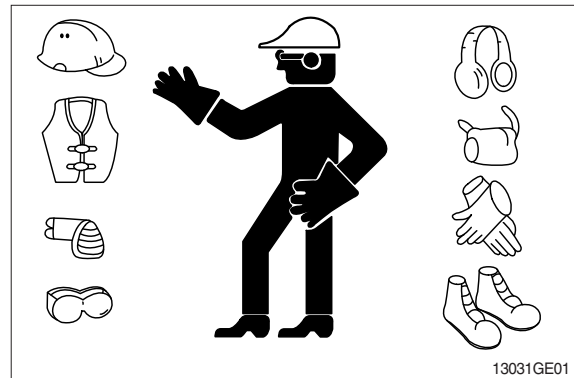
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

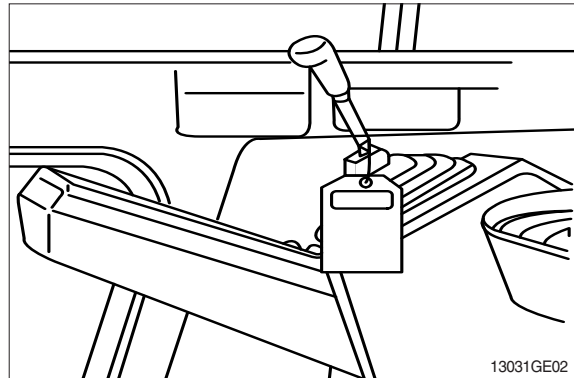
Wear close fitting clothing and safety equipment appropriate to the job.



WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

Before performing any work on the excavator, attach a 「Do Not Operate」 tag on the right side control lever.



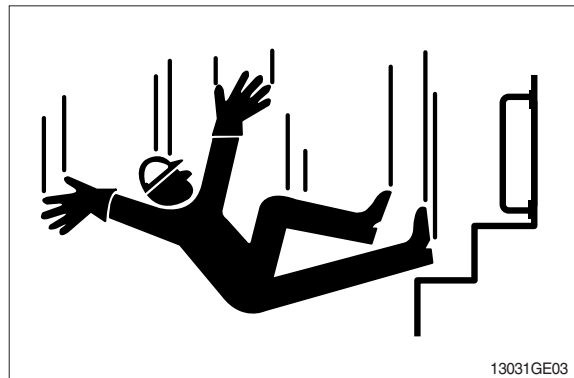
USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.

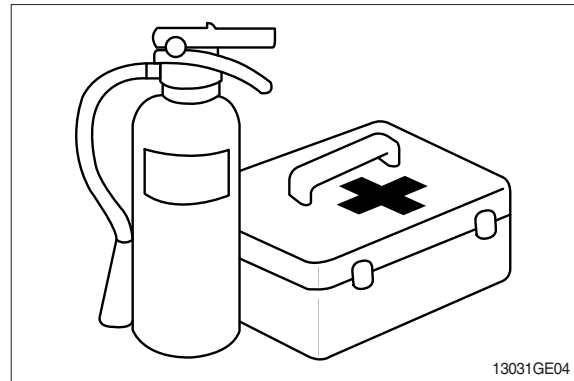


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

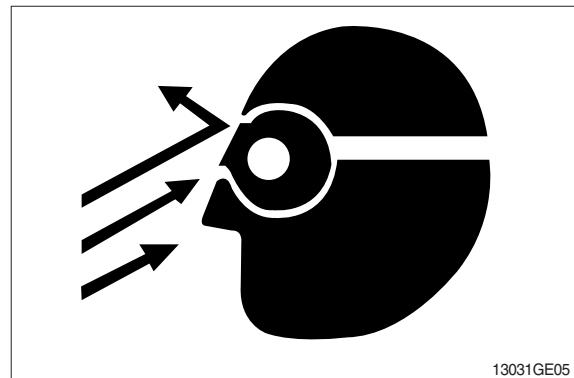
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

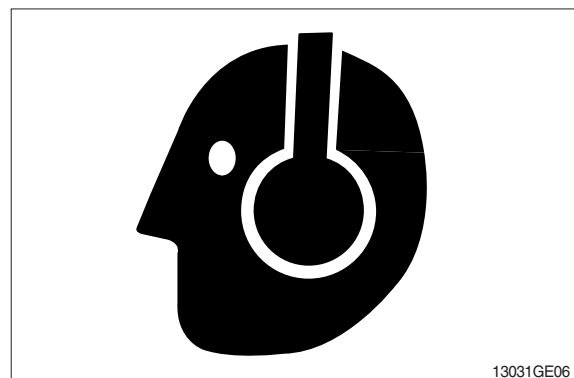
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

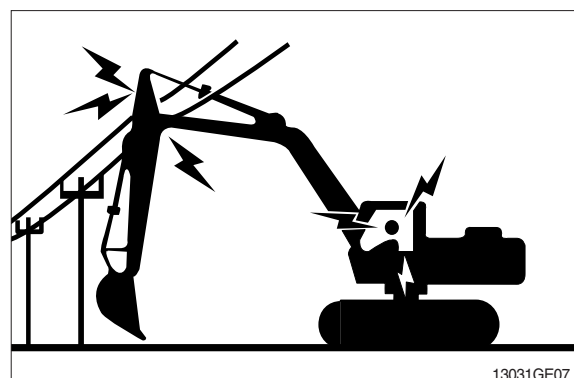
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

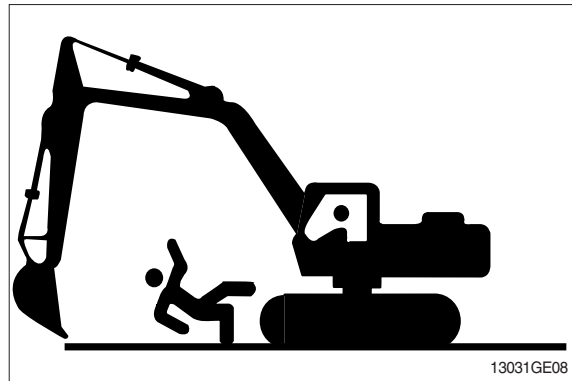
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



KEEP RIDERS OFF EXCAVATOR

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

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

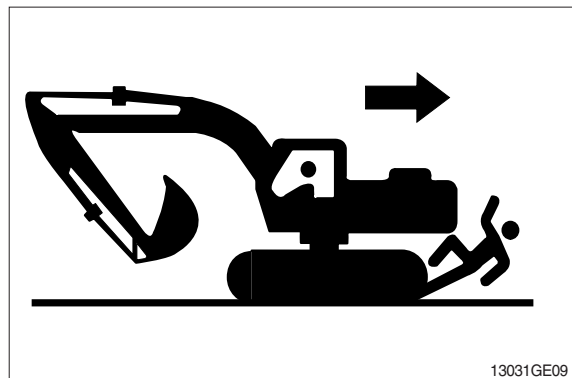


MOVE AND OPERATE MACHINE SAFELY

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

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

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



OPERATE ONLY FROM OPERATOR'S SEAT

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

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



PARK MACHINE SAFELY

Before working on the machine:

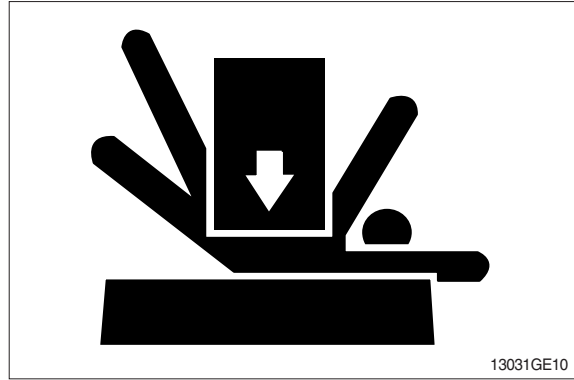
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at low idle speed without load for 5 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Place safety lever to locked position.
- Allow engine to cool.

SUPPORT MACHINE PROPERLY

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

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

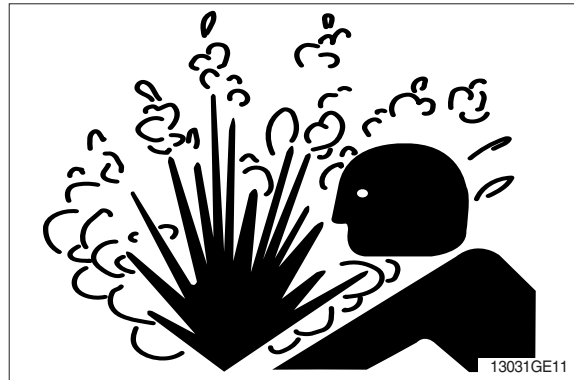
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

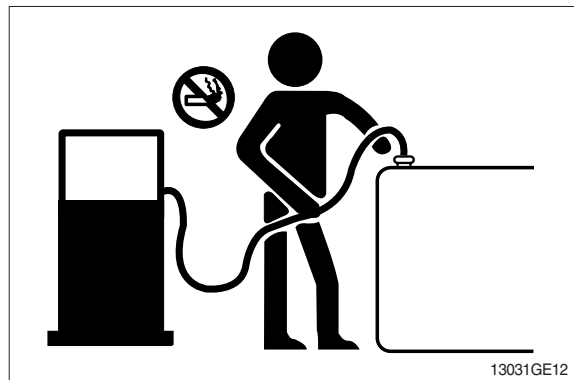
Explosive release of fluids from pressurized cooling system can cause serious burns.

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



HANDLE FLUIDS SAFELY-AVOID FIRES

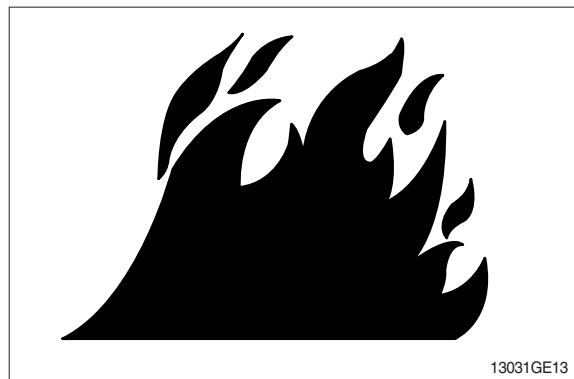
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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

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

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



BEWARE OF EXHAUST FUMES

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

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

REMOVE PAINT BEFORE WELDING OR HEATING

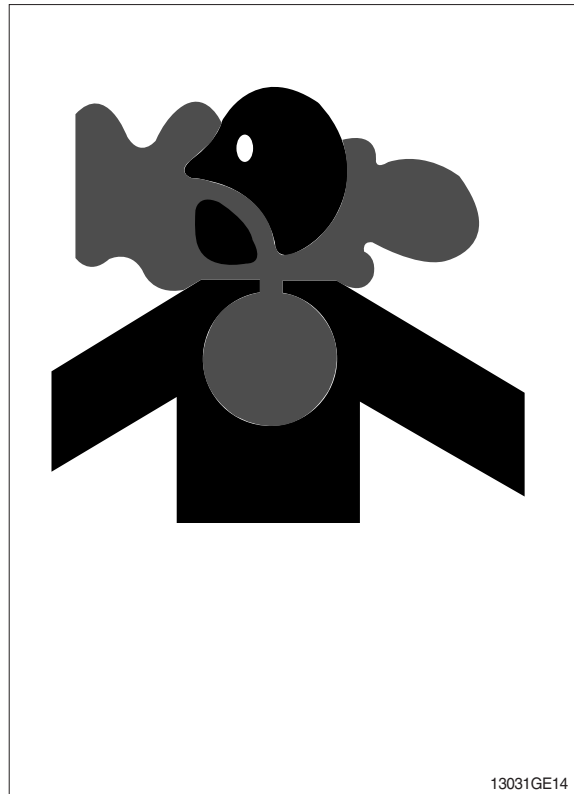
Avoid potentially toxic fumes and dust.

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

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

Remove paint before welding or heating:

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



ILLUMINATE WORK AREA SAFELY

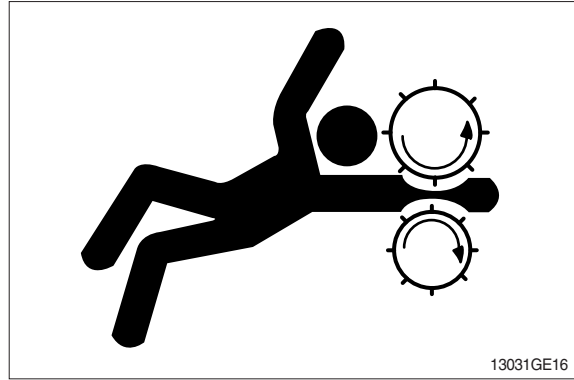
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



SERVICE MACHINE SAFELY

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

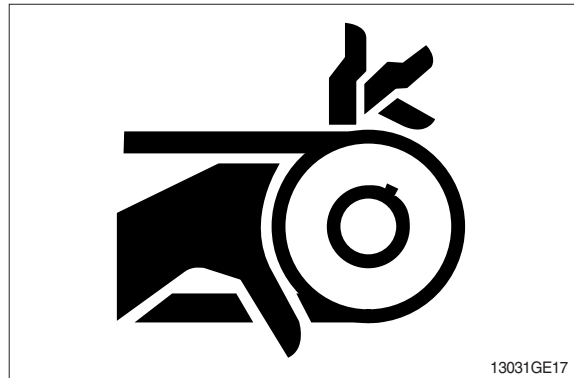
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



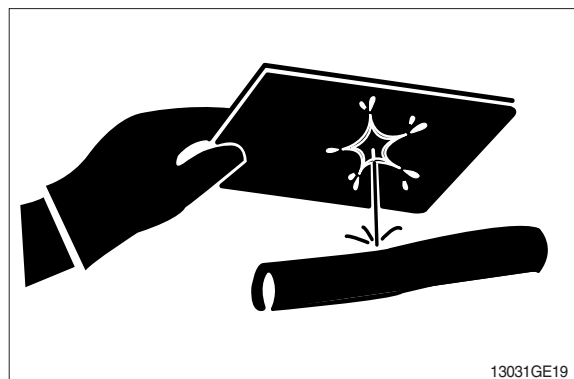
AVOID HIGH PRESSURE FLUIDS

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

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

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

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



AVOID HEATING NEAR PRESSURIZED FLUID LINES

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

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



PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and flame away from the top of battery.

Battery gas can explode.

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

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



PREVENT ACID BURNS

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

Avoid the hazard by:

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

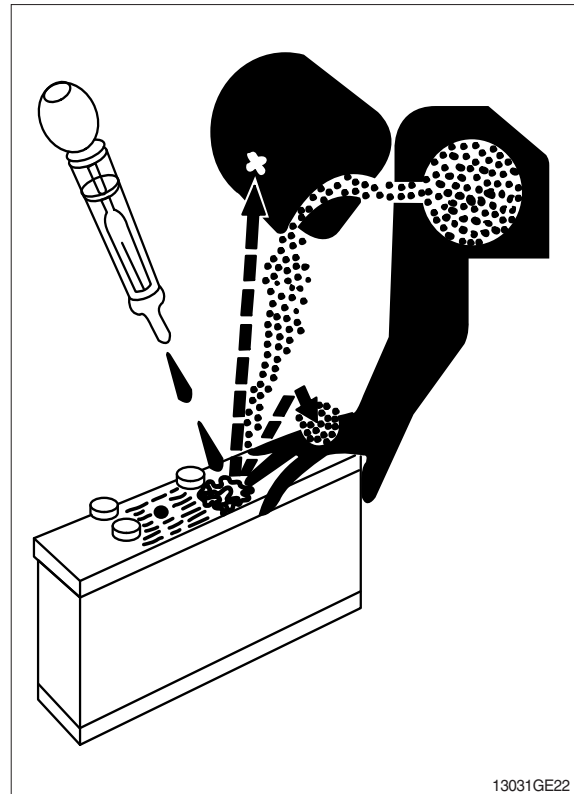
If you spill acid on yourself:

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

Get medical attention immediately.

If acid is swallowed:

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



USE TOOLS PROPERLY

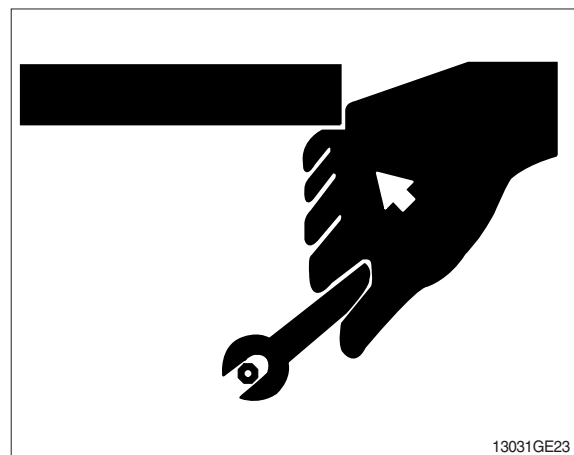
Use tools appropriate to the work. Makeshift tools, parts, and procedures can create safety hazards.

Use power tools only to loosen threaded tools and fasteners.

For loosening and tightening hardware, use the correct size tools.

DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

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

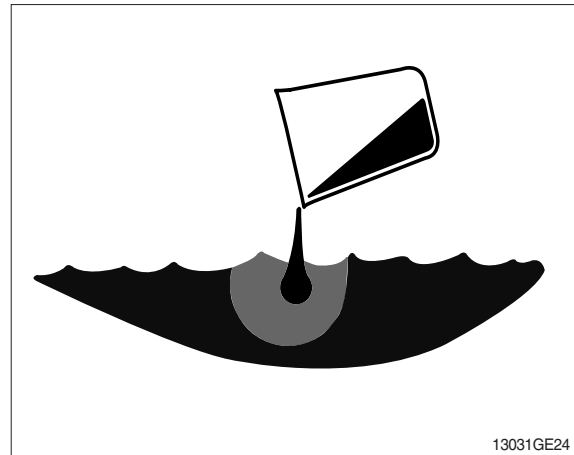


DISPOSE OF FLUIDS PROPERLY

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

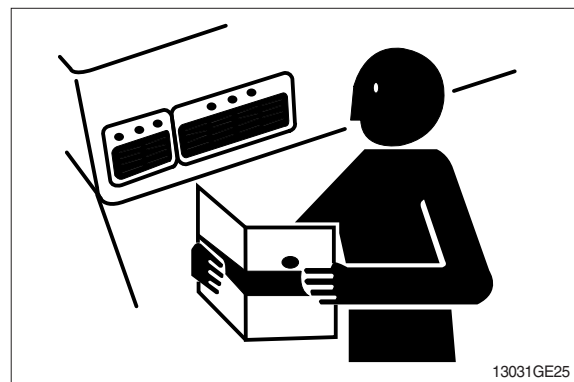
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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



REPLACE SAFETY LABELS

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

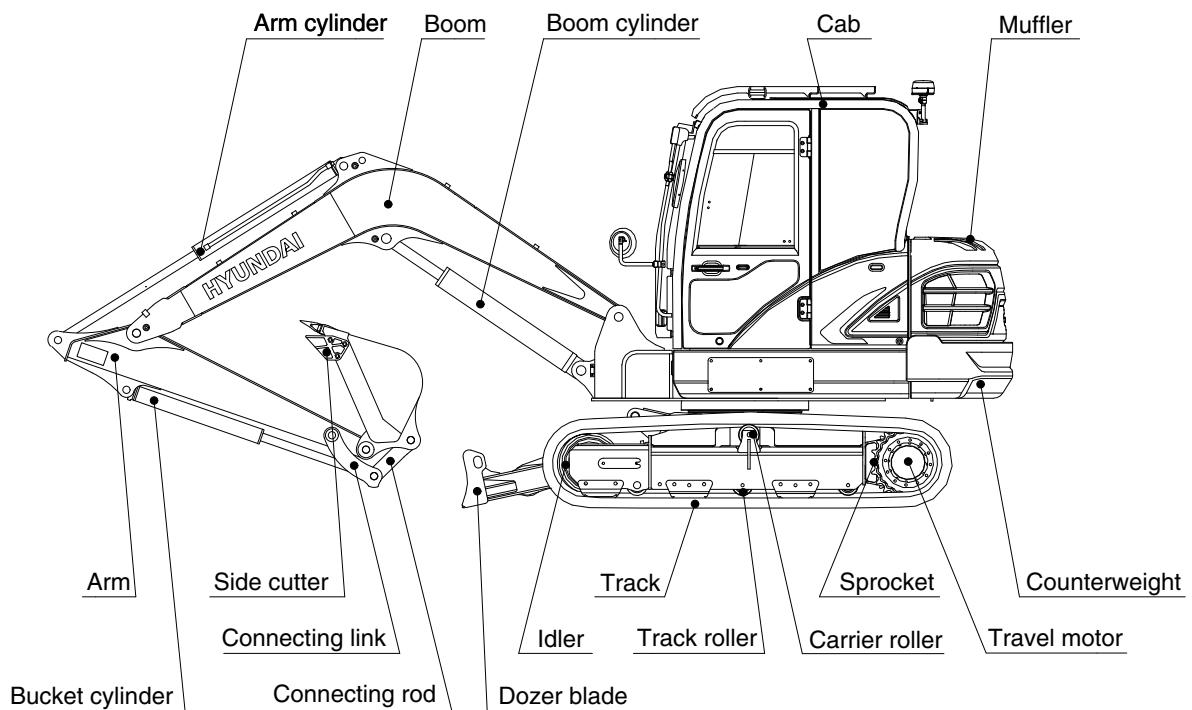
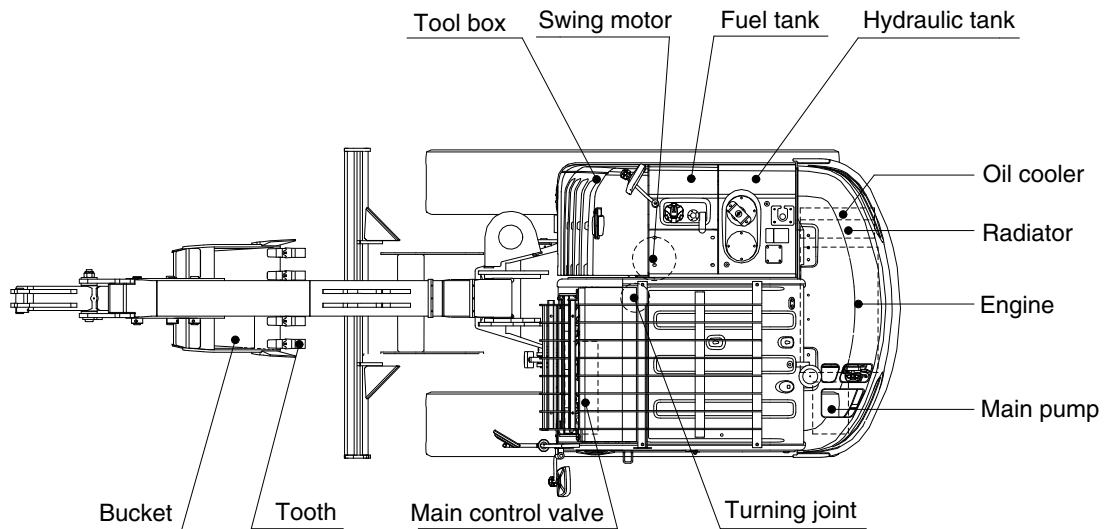


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

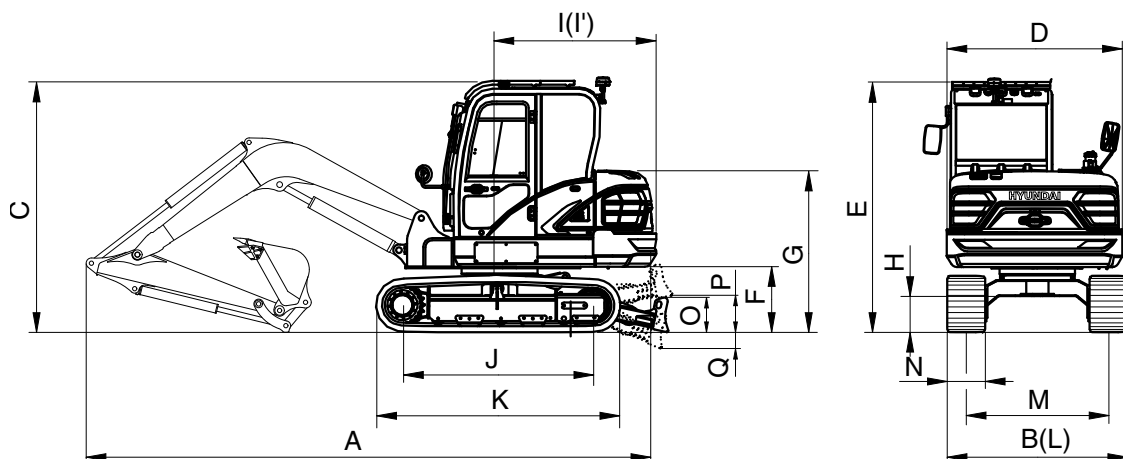
1. MAJOR COMPONENT



60A2SP01

2. SPECIFICATIONS

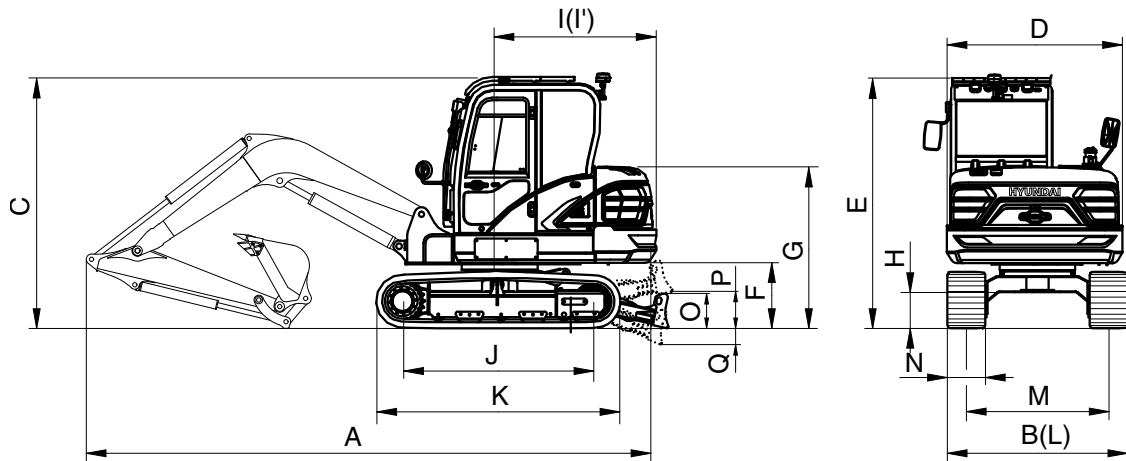
1) 3.0 m (9' 10") MONO BOOM, 1.6 m (5' 3") ARM AND 285 KG COUNTERWEIGHT



60A2SP02

Description		Unit	Specification
Operating weight		kg (lb)	5990 (13210)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.18 (0.24)
Overall length	A	mm (ft-in)	5970 (19' 7")
Overall width, with 400 mm shoe	B		1905 (6' 3")
Overall width with dozer	-		1920 (6' 4")
Overall height	C		2595 (8' 6")
Overall width of upperstructure	D		1850 (6' 1")
Overall height of cab	E		2595 (8' 6")
Ground clearance of counterweight	F		687 (2' 3")
Overall height of engine hood	G		1695 (5' 7")
Minimum ground clearance	H		271 (0' 11")
Rear-end distance	I		1650 (5' 5")
Rear-end swing radius	I'		1650 (5' 5")
Distance between tumblers	J		2010 (6' 7")
Undercarriage length (without grouser)	K		2544 (8' 4")
Undercarriage width	L		1900 (6' 3")
Track gauge	M		1500 (4' 11")
Track shoe width, standard	N		400 (1' 4")
Height of blade	O		350 (1' 2")
Ground clearance of blade up	P		400 (1' 4")
Depth of blade down	Q		575 (1' 11")
Track shoe link quantity		EA	76
Travel speed (low/high)		km/hr (mph)	2.2/4.2 (1.4/2.6)
Swing speed		rpm	9.4
Gradeability		Degree (%)	35 (70)
Ground pressure (400 mm shoe)		kgf/cm ² (psi)	0.35 (4.95)
Max traction force		kg (lb)	5221 (11510)

2) 3.0 m (9' 10") MONO BOOM, 1.9 m (6' 3") ARM AND 435 KG COUNTERWEIGHT

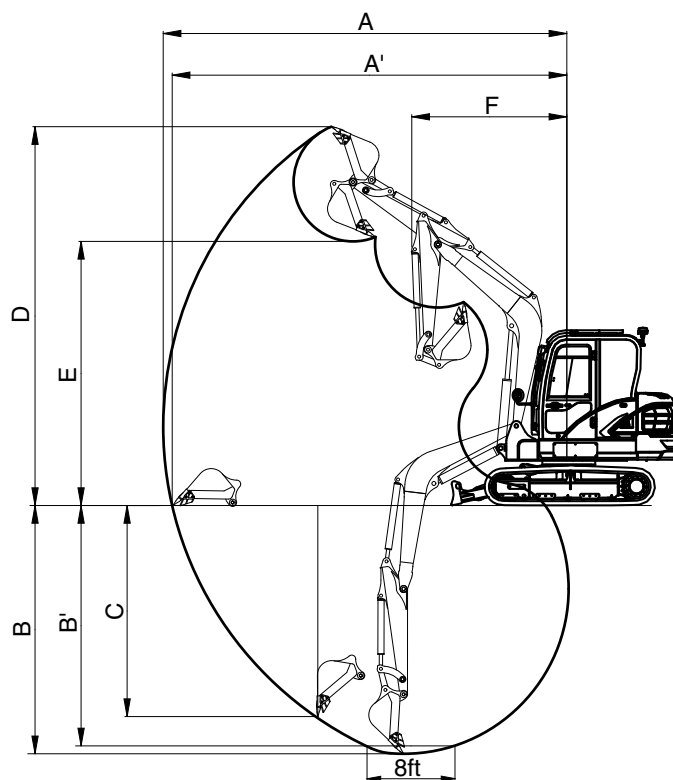


60A2SP02

Description		Unit	Specification
Operating weight		kg (lb)	6160 (13580)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.18 (0.24)
Overall length	A	mm (ft-in)	5995 (19' 8")
Overall width, with 400 mm shoe	B		1905 (6' 3")
Overall width with dozer	-		1920 (6' 4")
Overall height	C		2595 (8' 6")
Overall width of upperstructure	D		1850 (6' 1")
Overall height of cab	E		2595 (8' 6")
Ground clearance of counterweight	F		687 (2' 3")
Overall height of engine hood	G		1695 (5' 7")
Minimum ground clearance	H		271 (0' 11")
Rear-end distance	I		1675 (5' 6")
Rear-end swing radius	I'		1680 (5' 6")
Distance between tumblers	J		2010 (6' 7")
Undercarriage length (without grouser)	K		2544 (8' 4")
Undercarriage width	L		1900 (6' 3")
Track gauge	M		1500 (4' 11")
Track shoe width, standard	N		400 (1' 4")
Height of blade	O		350 (1' 2")
Ground clearance of blade up	P		400 (1' 4")
Depth of blade down	Q		575 (1' 11")
Track shoe link quantity		EA	76
Travel speed (low/high)		km/hr (mph)	2.2/4.2 (1.4/2.6)
Swing speed		rpm	9.4
Gradeability		Degree (%)	35 (70)
Ground pressure (400 mm shoe)		kgf/cm ² (psi)	0.36 (5.08)
Max traction force		kg (lb)	5221 (11510)

3. WORKING RANGE

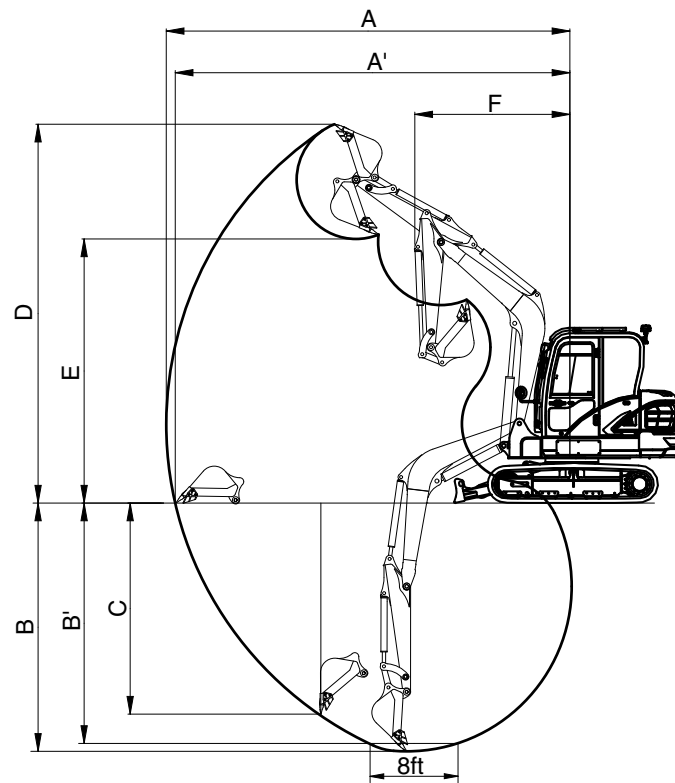
1) 3.0 m (9' 10") MONO BOOM AND 285 KG COUNTERWEIGHT



60A2SP03

Description		1.6 m (5' 3") Arm
Max digging reach	A	6150 mm (20' 2")
Max digging reach on ground	A'	6020 mm (19' 9")
Max digging depth	B	3770 mm (12' 4")
Max digging depth (8ft level)	B'	3380 mm (11' 1")
Max vertical wall digging depth	C	3230 mm (10' 7")
Max digging height	D	5760 mm (18' 11")
Max dumping height	E	4000 mm (13' 1")
Min swing radius	F	2375 mm (7' 10")
Boom swing radius (left/right)		80°/50°
Bucket digging force	SAE	37 kN
		3763 kgf
		8295 lbf
	ISO	42 kN
		4292 kgf
		9461 lbf
Arm digging force	SAE	27 kN
		2779 kgf
		6126 lbf
	ISO	28 kN
		2886 kgf
		6363 lbf

2) 3.0 m (9' 10") MONO BOOM AND 435 KG COUNTERWEIGHT



60A2SP03

Description		1.9 m (6' 3") Arm
Max digging reach	A	6450 mm (21' 2")
Max digging reach on ground	A'	6320 mm (20' 9")
Max digging depth	B	4070 mm (13' 4")
Max digging depth (8ft level)	B'	3720 mm (12' 2")
Max vertical wall digging depth	C	3600 mm (11' 10")
Max digging height	D	5980 mm (19' 7")
Max dumping height	E	4210 mm (13' 10")
Min swing radius	F	2410 mm (7' 11")
Boom swing radius (left/right)		80°/50°
Bucket digging force	SAE	37 kN
		3763 kgf
		8296 lbf
	ISO	42 kN
		4292 kgf
		9462 lbf
Arm digging force	SAE	24 kN
		2476 kgf
		5459 lbf
	ISO	25 kN
		2561 kgf
		5646 lbf

4. WEIGHT

Item	kg	lb
Upperstructure assembly		
· Main frame weld assembly	782	1,724
· Engine assembly (including DFP)	253	558
· Main pump assembly	34	74
· Main control valve assembly	53	118
· Swing motor assembly	76	168
· Hydraulic oil tank WA	95	208
· Fuel tank WA	67	148
· Counterweight (cast type)	285	628
· Counterweight (cast add increased)	435	959
· Cab assembly	350	772
Lower chassis assembly		
· Track frame weld assembly	699	1,541
· Dozer blade assembly	220	485
· Swing bearing	94	207
· Travel motor assembly	152	335
· Turning joint	27	60
· Sprocket	40	88
· Track recoil spring	58	129
· Idler	89	195
· Upper roller	22	49
· Lower roller	112	247
· Track guard	45	99
· Track-chain assembly (380 mm)	648	1,429
· Track-chain assembly (450 mm)	855	1,886
· Track-chain assembly (400 mm, rubber track)	486	1,071
Front attachment assembly		
· Boom assembly (3.0 m)	247	545
· Arm assembly (1.6 m)	130	287
· Arm assembly (1.9 m)	135	298
· Bucket assembly (0.18 m ³)	162	358
· Bucket assembly (0.07 m ³)	110	243
· Bucket assembly (0.07 m ³) -heavy duty	172	379
· Boom cylinder assembly	78	172
· Arm cylinder assembly	65	143
· Bucket cylinder assembly	37	82
· Boom swing cylinder assembly	37	82
· Dozer cylinder assembly	41	90
· Bucket control linkage total	47	104

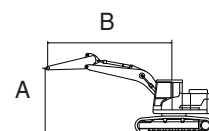
5. LIFTING CAPACITIES











1) CRAWLER DOZER

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1600	285	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m	kg					*1220	*1220			*1280	1130	4.26
(13.1 ft)	lb					*2690	*2690			*2820	2490	(14.0)
3.0 m	kg					*1270	1250			*1240	910	4.87
(9.8 ft)	lb					*2800	2760			*2730	2010	(16.0)
2.0 m	kg			*1960	1850	*1500	1200	*1320	860	*1250	810	5.18
(6.6 ft)	lb			*4320	4080	*3310	2650	*2910	1900	*2760	1790	(17.0)
1.0 m	kg			*2600	1720	*1760	1150	*1410	840	*1330	780	5.24
(3.3 ft)	lb			*5730	3790	*3880	2540	*3110	1850	*2930	1720	(17.2)
0.0 m	kg			*2850	1660	*1920	1110	*1450	820	*1420	800	5.09
(0.0 ft)	lb			*6280	3660	*4230	2450	*3200	1810	*3130	1760	(16.7)
-1.0 m	kg	*3080	*3080	*2750	1650	*1890	1100			*1480	900	4.67
(-3.3 ft)	lb	*6790	*6790	*6060	3640	*4170	2430			*3260	1980	(15.3)
-2.0 m	kg	*3610	3250	*2290	1680					*1530	1170	3.90
(-6.6 ft)	lb	*7960	7170	*5050	3700					*3370	2580	(12.8)

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

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

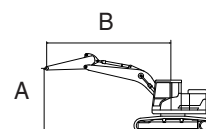
▲ Failure to comply to the rated load can cause serious injury, death, or property damage.











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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1600	340	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m	kg					*1220	*1220			*1280	1160	4.26
(13.1 ft)	lb					*2690	*2690			*2820	2560	(14.0)
3.0 m	kg					*1270	*1270			*1240	930	4.87
(9.8 ft)	lb					*2800	*2800			*2730	2050	(16.0)
2.0 m	kg			*1960	1890	*1500	1230	*1320	880	*1250	830	5.18
(6.6 ft)	lb			*4320	4170	*3310	2710	*2910	1940	*2760	1830	(17.0)
1.0 m	kg			*2600	1770	*1760	1180	*1410	860	*1330	800	5.24
(3.3 ft)	lb			*5730	3900	*3880	2600	*3110	1900	*2930	1760	(17.2)
0.0 m	kg			*2850	1710	*1920	1140	*1450	840	*1420	820	5.09
(0.0 ft)	lb			*6280	3770	*4230	2510	*3200	1850	*3130	1810	(16.7)
-1.0 m	kg	*3080	*3080	*2750	1700	*1890	1130			*1480	920	4.67
(-3.3 ft)	lb	*6790	*6790	*6060	3750	*4170	2490			*3260	2030	(15.3)
-2.0 m	kg	*3610	3330	*2290	1720					*1530	1200	3.90
(-6.6 ft)	lb	*7960	7340	*5050	3790					*3370	2650	(12.8)

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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


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

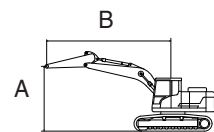
▲ Failure to comply to the rated load can cause serious injury, death, or property damage.











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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1600	435	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m	kg					*1220	*1220			*1280	1210	4.26
(13.1 ft)	lb					*2690	*2690			*2820	2670	(14.0)
3.0 m	kg					*1270	*1270			*1240	970	4.87
(9.8 ft)	lb					*2800	*2800			*2730	2140	(16.0)
2.0 m	kg			*1960	*1960	*1500	1290	*1320	920	*1250	870	5.18
(6.6 ft)	lb			*4320	*4320	*3310	2840	*2910	2030	*2760	1920	(17.0)
1.0 m	kg			*2600	1850	*1760	1230	*1410	900	*1330	840	5.24
(3.3 ft)	lb			*5730	4080	*3880	2710	*3110	1980	*2930	1850	(17.2)
0.0 m	kg			*2850	1790	*1920	1200	*1450	880	*1420	860	5.09
(0.0 ft)	lb			*6280	3950	*4230	2650	*3200	1940	*3130	1900	(16.7)
-1.0 m	kg	*3080	*3080	*2750	1780	*1890	1190			*1480	970	4.67
(-3.3 ft)	lb	*6790	*6790	*6060	3920	*4170	2620			*3260	2140	(15.3)
-2.0 m	kg	*3610	3480	*2290	1800					*1530	1250	3.90
(-6.6 ft)	lb	*7960	7670	*5050	3970					*3370	2760	(12.8)

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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













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

▲ Failure to comply to the rated load can cause serious injury, death, or property damage.

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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1900	285	-	Down	-	-	-



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1200 *2650	*1200 *2650	3.64 (11.9)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1080 *2380	1000 2200	4.63 (15.2)
3.0 m (9.8 ft)	kg lb							*1140 *2510	*1140 *2510	*1160 *2560	880 1940	*1020 *2250	830 1830	5.19 (17.0)
2.0 m (6.6 ft)	kg lb					*1730 *3810	*1730 *3810	*1380 *3040	1220 2690	*1240 *2730	870 1920	*1020 *2250	750 1650	5.47 (18.0)
1.0 m (3.3 ft)	kg lb					*2430 *5360	1750 3860	*1680 *3700	1160 2560	*1360 *3000	840 1850	*1080 *2380	720 1590	5.54 (18.2)
0.0 m (0.0 ft)	kg lb			*1480 *3260	*1480 *3260	*2810 *6190	1670 3680	*1880 *4140	1120 2470	*1440 *3170	820 1810	*1210 *2670	740 1630	5.39 (17.7)
-1.0 m (-3.3 ft)	kg lb	*1920 *4230	*1920 *4230	*2710 *5970	*2710 *5970	*2820 *6220	1650 3640	*1920 *4230	1100 2430	*1380 *3040	820 1810	*1380 *3040	810 1790	5.01 (16.4)
-2.0 m (-6.6 ft)	kg lb	*3140 *6920	*3140 *6920	*4070 *8970	3220 7100	*2480 *5470	1670 3680	*1670 *3680	1110 2450			*1440 *3170	1010 2230	4.31 (14.1)
-3.0 m (-9.8 ft)	kg lb			*2450 *5400	*2450 *5400	*1430 *3150	*1430 *3150					*1400 *3090	*1400 *3090	3.02 (9.9)

※ Note

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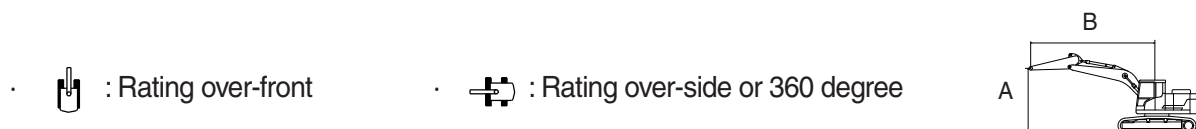
The difference between the weight of a work tool attachment must be subtracted.













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

▲ Failure to comply to the rated load can cause serious injury, death, or property damage.

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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1900	340	-	Down	-	-	-



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1200 *2650	*1200 *2650	3.64 (11.9)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1080 *2380	1030 2270	4.63 (15.2)
3.0 m (9.8 ft)	kg lb							*1140 *2510	*1140 *2510	*1160 2010	910	*1020 *2250	850 1870	5.19 (17.0)
2.0 m (6.6 ft)	kg lb					*1730 *3810	*1730 *3810	*1380 *3040	1250 2760	*1240 *2730	890 1960	*1020 *2250	770 1700	5.47 (18.0)
1.0 m (3.3 ft)	kg lb					*2430 *5360	1800 3970	*1680 *3700	1190 2620	*1360 *3000	860 1900	*1080 *2380	740 1630	5.54 (18.2)
0.0 m (0.0 ft)	kg lb			*1480 *3260	*1480 *3260	*2810 *6190	1720 3790	*1880 *4140	1150 2540	*1440 *3170	840 1850	*1210 *2670	760 1680	5.39 (17.7)
-1.0 m (-3.3 ft)	kg lb	*1920 *4230	*1920 *4230	*2710 *5970	*2710 *5970	*2820 *6220	1690 3730	*1920 *4230	1130 2490	*1380 *3040	840 1850	*1380 *3040	840 1850	5.01 (16.4)
-2.0 m (-6.6 ft)	kg lb	*3140 *6920	*3140 *6920	*4070 *8970	3300 7280	*2480 *5470	1710 3770	*1670 *3680	1140 2510			*1440 *3170	1040 2290	4.31 (14.1)
-3.0 m (-9.8 ft)	kg lb			*2450 *5400	*2450 *5400	*1430 *3150	*1430 *3150					*1400 *3090	*1400 *3090	3.02 (9.9)

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
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3. The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *indicates load limited by hydraulic capacity.

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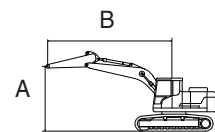
▲ Failure to comply to the rated load can cause serious injury, death, or property damage.













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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1900	435	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1200 *2650	*1200 *2650	3.64 (11.9)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1080 *2380	1070 2360	4.63 (15.2)
3.0 m (9.8 ft)	kg lb							*1140 *2510	*1140 *2510	*1160 2090	950	*1020 *2250	890 1960	5.19 (17.0)
2.0 m (6.6 ft)	kg lb					*1730 *3810	*1730 *3810	*1380 *3040	1300 2870	*1240 *2730	930 2050	*1020 *2250	810 1790	5.47 (18.0)
1.0 m (3.3 ft)	kg lb					*2430 *5360	1870 4120	*1680 *3700	1250 2760	*1360 *3000	910 2010	*1080 *2380	780 1720	5.54 (18.2)
0.0 m (0.0 ft)	kg lb			*1480 *3260	*1480 *3260	*2810 *6190	1800 3970	*1880 *4140	1200 2650	*1440 *3170	880 1940	*1210 *2670	800 1760	5.39 (17.7)
-1.0 m (-3.3 ft)	kg lb	*1920 *4230	*1920 *4230	*2710 *5970	*2710 *5970	*2820 *6220	1770 3900	*1920 *4230	1180 2600	*1380 *3040	880 1940	*1380 *3040	880 1940	5.01 (16.4)
-2.0 m (-6.6 ft)	kg lb	*3140 *6920	*3140 *6920	*4070 *8970	3440 7580	*2480 *5470	1790 3950	*1670 *3680	1190 2620			*1440 *3170	1080 2380	4.31 (14.1)
-3.0 m (-9.8 ft)	kg lb			*2450 *5400	*2450 *5400	*1430 *3150	*1430 *3150					*1400 *3090	*1400 *3090	3.02 (9.9)

※ Note

1. Lifting capacity are based on SAE J1097 and ISO 10567.
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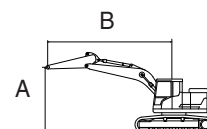
Make adjustments to the rated load as necessary for non-standard configurations.











2) ANGLE DOZER

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1600	285	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m	kg					*1220	*1220			*1280	1170	4.26
(13.1 ft)	lb					*2690	*2690			*2820	2580	(14.0)
3.0 m	kg					*1270	*1270			*1240	940	4.87
(9.8 ft)	lb					*2800	*2800			*2730	2070	(16.0)
2.0 m	kg			*1960	1890	*1500	1240	*1320	880	*1250	840	5.18
(6.6 ft)	lb			*4320	4170	*3310	2730	*2910	1940	*2760	1850	(17.0)
1.0 m	kg			*2600	1770	*1760	1190	*1410	860	*1330	800	5.24
(3.3 ft)	lb			*5730	3900	*3880	2620	*3110	1900	*2930	1760	(17.2)
0.0 m	kg			*2850	1710	*1920	1150	*1450	850	*1420	830	5.09
(0.0 ft)	lb			*6280	3770	*4230	2540	*3200	1870	*3130	1830	(16.7)
-1.0 m	kg	*3080	*3080	*2750	1700	*1890	1140			*1480	930	4.67
(-3.3 ft)	lb	*6790	*6790	*6060	3750	*4170	2510			*3260	2050	(15.3)
-2.0 m	kg	*3610	3340	*2290	1730					*1530	1200	3.90
(-6.6 ft)	lb	*7960	7360	*5050	3810					*3370	2650	(12.8)

※ Note

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








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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1600	340	-	Down	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m	kg					*1220	*1220			*1280	1190	4.26
(13.1 ft)	lb					*2690	*2690			*2820	2620	(14.0)
3.0 m	kg					*1270	*1270			*1240	960	4.87
(9.8 ft)	lb					*2800	*2800			*2730	2120	(16.0)
2.0 m	kg			*1960	1940	*1500	1270	*1320	910	*1250	860	5.18
(6.6 ft)	lb			*4320	4280	*3310	2800	*2910	2010	*2760	1900	(17.0)
1.0 m	kg			*2600	1820	*1760	1210	*1410	890	*1330	830	5.24
(3.3 ft)	lb			*5730	4010	*3880	2670	*3110	1960	*2930	1830	(17.2)
0.0 m	kg			*2850	1760	*1920	1180	*1450	870	*1420	850	5.09
(0.0 ft)	lb			*6280	3880	*4230	2600	*3200	1920	*3130	1870	(16.7)
-1.0 m	kg	*3080	*3080	*2750	1750	*1890	1170			*1480	950	4.67
(-3.3 ft)	lb	*6790	*6790	*6060	3860	*4170	2580			*3260	2090	(15.3)
-2.0 m	kg	*3610	3430	*2290	1770					*1530	1230	3.90
(-6.6 ft)	lb	*7960	7560	*5050	3900					*3370	2710	(12.8)

※ Note

1. Lifting capacity are based on SAE J1097 and 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).
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Lifting capacities will vary with different work tools, ground conditions and attachments.

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











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

▲ Failure to comply to the rated load can cause serious injury, death, or property damage.

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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1600	435	-	Down	-	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m	kg					*1220	*1220			*1280	1240	4.26
(13.1 ft)	lb					*2690	*2690			*2820	2730	(14.0)
3.0 m	kg					*1270	*1270			*1240	1000	4.87
(9.8 ft)	lb					*2800	*2800			*2730	2200	(16.0)
2.0 m	kg			*1960	*1960	*1500	1320	*1320	950	*1250	900	5.18
(6.6 ft)	lb			*4320	*4320	*3310	2910	*2910	2090	*2760	1980	(17.0)
1.0 m	kg			*2600	1890	*1760	1270	*1410	930	*1330	860	5.24
(3.3 ft)	lb			*5730	4170	*3880	2800	*3110	2050	*2930	1900	(17.2)
0.0 m	kg			*2850	1840	*1920	1230	*1450	910	*1420	890	5.09
(0.0 ft)	lb			*6280	4060	*4230	2710	*3200	2010	*3130	1960	(16.7)
-1.0 m	kg	*3080	*3080	*2750	1830	*1890	1220			*1480	1000	4.67
(-3.3 ft)	lb	*6790	*6790	*6060	4030	*4170	2690			*3260	2200	(15.3)
-2.0 m	kg	*3610	3570	*2290	1850					*1530	1290	3.90
(-6.6 ft)	lb	*7960	7870	*5050	4080					*3370	2840	(12.8)

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










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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1900	285	-	Down	-	-	-



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1200 *2650	*1200 *2650	3.64 (11.9)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1080 *2380	1030 2270	4.63 (15.2)
3.0 m (9.8 ft)	kg lb							*1140 *2510	*1140 *2510	*1160 *2560	910 2010	*1020 *2250	850 1870	5.19 (17.0)
2.0 m (6.6 ft)	kg lb					*1730 *3810	*1730 *3810	*1380 *3040	1250 2760	*1240 *2730	890 1960	*1020 *2250	770 1700	5.47 (18.0)
1.0 m (3.3 ft)	kg lb					*2430 *5360	1800 3970	*1680 *3700	1200 2650	*1360 *3000	870 1920	*1080 *2380	740 1630	5.54 (18.2)
0.0 m (0.0 ft)	kg lb			*1480 *3260	*1480 *3260	*2810 *6190	1720 3790	*1880 *4140	1150 2540	*1440 *3170	850 1870	*1210 *2670	760 1680	5.39 (17.7)
-1.0 m (-3.3 ft)	kg lb	*1920 *4230	*1920 *4230	*2710 *5970	*2710 *5970	*2820 *6220	1700 3750	*1920 *4230	1130 2490	*1380 *3040	840 1850	*1380 *3040	840 1850	5.01 (16.4)
-2.0 m (-6.6 ft)	kg lb	*3140 *6920	*3140 *6920	*4070 *8970	3310 7300	*2480 *5470	1710 3770	*1670 *3680	1140 2510			*1440 *3170	1040 2290	4.31 (14.1)
-3.0 m (-9.8 ft)	kg lb			*2450 *5400	*2450 *5400	*1430 *3150	*1430 *3150					*1400 *3090	*1400 *3090	3.02 (9.9)

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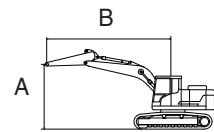
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










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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1900	340	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1200 *2650	*1200 *2650	3.64 (11.9)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1080 *2380	1060 2340	4.63 (15.2)
3.0 m (9.8 ft)	kg lb							*1140 *2510	*1140 *2510	*1160 *2560	930 2050	*1020 *2250	880 1940	5.19 (17.0)
2.0 m (6.6 ft)	kg lb					*1730 *3810	*1730 *3810	*1380 *3040	1280 2820	*1240 *2730	920 2030	*1020 *2250	790 1740	5.47 (18.0)
1.0 m (3.3 ft)	kg lb					*2430 *5360	1850 4080	*1680 *3700	1230 2710	*1360 *3000	890 1960	*1080 *2380	760 1680	5.54 (18.2)
0.0 m (0.0 ft)	kg lb			*1480 *3260	*1480 *3260	*2810 *6190	1770 3900	*1880 *4140	1180 2600	*1440 *3170	870 1920	*1210 *2670	780 1720	5.39 (17.7)
-1.0 m (-3.3 ft)	kg lb	*1920 *4230	*1920 *4230	*2710 *5970	*2710 *5970	*2820 *6220	1740 3840	*1920 *4230	1160 2560	*1380 *3040	860 1900	*1380 *3040	860 1900	5.01 (16.4)
-2.0 m (-6.6 ft)	kg lb	*3140 *6920	*3140 *6920	*4070 *8970	3390 7470	*2480 *5470	1760 3880	*1670 *3680	1170 2580			*1440 *3170	1070 2360	4.31 (14.1)
-3.0 m (-9.8 ft)	kg lb			*2450 *5400	*2450 *5400	*1430 *3150	*1430 *3150					*1400 *3090	*1400 *3090	3.02 (9.9)

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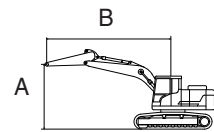
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










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

Model	Type	Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX60A	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
		3000	1900	435	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius										At max. reach		
		1.0 m (3 ft)		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
														m (ft)
5.0 m (16.4 ft)	kg lb											*1200 *2650	*1200 *2650	3.64 (11.9)
4.0 m (13.1 ft)	kg lb							*1060 *2340	*1060 *2340			*1080 *2380	*1080 *2380	4.63 (15.2)
3.0 m (9.8 ft)	kg lb							*1140 *2510	*1140 *2510	*1160 *2560	970 2140	*1020 *2250	910 2010	5.19 (17.0)
2.0 m (6.6 ft)	kg lb					*1730 *3810	*1730 *3810	*1380 *3040	1340 2950	*1240 *2730	960 2120	*1020 *2250	830 1830	5.47 (18.0)
1.0 m (3.3 ft)	kg lb					*2430 *5360	1920 4230	*1680 *3700	1280 2820	*1360 *3000	930 2050	*1080 *2380	800 1760	5.54 (18.2)
0.0 m (0.0 ft)	kg lb			*1480 *3260	*1480 *3260	*2810 *6190	1850 4080	*1880 *4140	1240 2730	*1440 *3170	910 2010	*1210 *2670	820 1810	5.39 (17.7)
-1.0 m (-3.3 ft)	kg lb	*1920 *4230	*1920 *4230	*2710 *5970	*2710 *5970	*2820 *6220	1820 4010	*1920 *4230	1220 2690	*1380 *3040	900 1980	*1380 *3040	900 1980	5.01 (16.4)
-2.0 m (-6.6 ft)	kg lb	*3140 *6920	*3140 *6920	*4070 *8970	3540 7800	*2480 *5470	1840 4060	*1670 *3680	1230 2710			*1440 *3170	1120 2470	4.31 (14.1)
-3.0 m (-9.8 ft)	kg lb			*2450 *5400	*2450 *5400	*1430 *3150	*1430 *3150					*1400 *3090	*1400 *3090	3.02 (9.9)

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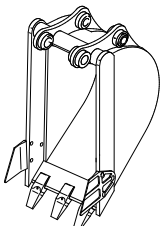
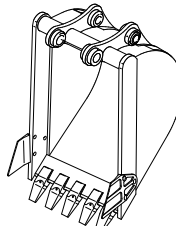
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Make adjustments to the rated load as necessary for non-standard configurations.

6. BUCKET SELECTION GUIDE

 <p>Narrow type</p>	 <p>General type Heavy duty type</p>
0.07m ³ SAE heaped bucket	0.18 m ³ SAE heaped bucket

Capacity		Width		Weight	Tooth	Recommendation
						3.0 m (9' 10") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter			1.6 m (5' 3") arm
0.07 m ³ (0.09 yd ³)	0.06 m ³ (0.08 yd ³)	315 mm (12.4")	360 mm (14.2")	111 kg (240 lb)	3	Applicable for materials with density of 2100 kgf/m ³ (3500 lb/yd ³) or less
0.18 m ³ (0.24 yd ³)	0.15 m ³ (0.20 yd ³)	670 mm (26.4")	730 mm (28.7")	163 kg (360 lb)	5	
★0.18 m ³ (0.24 yd ³)	0.18 m ³ (0.24 yd ³)	610 mm (24.0")	670 mm (26.4")	173 kg (380 lb)	5	

★ : Heavy duty type

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

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

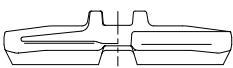
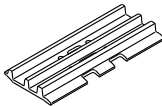
Consult with your local HD Hyundai dealer for information on selecting the correct boom arm bucket combination.

7. UNDERCARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

Model	Shapes		Rubber shoe	Triple grouser	
					
HX60A	Shoe width	mm (in)	400 (16")	400 (16")	380 (15")
	Operating weight	kg (lb)	5990 (13210)	6370 (14040)	6155 (13570))
	Ground pressure	kgf/cm ² (psi)	0.36 (5.08)	0.37 (5.21)	0.38 (5.36)
	Overall width	mm (ft-in)	1900 (6' 3")	1900 (6' 3")	1880 (6' 2")
	Link quantity	EA	76	40	40

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity	
	Rubber shoe	Triple grouser
Carrier rollers	1 EA	1 EA
Track rollers	5 EA	5 EA
Track shoes (steel)	76 EA	40 EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

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

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

Table 1

Model	Track shoe	Specification	Category
HX60A	T/chain-rubber for mini (400 mm)	Standard	B
	T/chain-bolt on type (400 mm)	Option	B
	T/chain-triple for mini (380 mm)	Option	A

Table 2

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

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Hyundai DM02VB
Type	4-cycle, turbocharged, intercooled, electronic controlled diesel engine
Cooling method	Air cooled
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder borexstroke	90×94 mm (3.5"×3.7")
Piston displacement	2392 cc (146 cu in)
Compression ratio	16.9 : 1
Gross power	65.9 Hp (48.5 kW)
Net power	63.9 Hp (47 kW)
Maximum power	65.9 Hp (48.5 kW)
Pick torque	25 kgf · m (183 lbf · ft)
Engine oil quantity	8.6 L (2.3 U.S. gal)
Dry weight	253 kg (558 lb)
Starting motor	12 V-2.5 kW
Alternator	13.5 V-90 A

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2×27.5 cc/rev
Maximum pressure	220 kgf/cm ² (3130 psi)
Rated oil flow	2×55 l/min (14.5 U.S. gpm / 12.1 U.K. gpm)
Rated speed	2000 rpm

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	18.3 cc/rev
Maximum pressure	220 kgf/cm ² (3130 psi)
Rated oil flow	33.6 l/min (8.9 U.S. gpm / 7.4 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	10 spools two-block
Operating method	Hydraulic pilot system
Main relief valve pressure	220 kgf/cm ² (3130 psi)
Overload relief valve pressure	240 kgf/cm ² (3410 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	628.7 cc/rev
Relief pressure	230 kgf/cm ² (3280 psi)
Braking system	Automatic, spring applied hydraulic released
Swing brake	Multi wet disc
Braking torque	272.5 kgf · m (1970 lbf · ft)
Brake release pressure	20~40 kgf/cm ² (284~570 psi)
Swing bearing lubrication	Grease-bathed
Reduction gear type	2-stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Two fixed displacement axial piston motor
Capacity	55.4/28.9 cc/rev
Relief pressure	350 kgf/cm ² (4980 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	9.6 kgf/cm ² (137 psi)
Braking torque	17.2 kgf · m (69.4 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia×Rod dia×Stroke	Ø110×Ø60×715 mm
	Cushion	Extend only
Arm cylinder	Bore dia×Rod dia×Stroke	Ø90×Ø55×850 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia×Rod dia×Stroke	Ø80×Ø50×660 mm
	Cushion	None
Boom swing cylinder	Bore dia×Rod dia×Stroke	Ø50×Ø95×527 mm
	Cushion	None
Dozer blade cylinder	Bore dia×Rod dia×Stroke	Ø60×Ø110×224 mm
	Cushion	Extend only
Angle dozer cylinder	Bore dia×Rod dia×Stroke	Ø60×Ø115×212 mm
	Cushion	None
Angle swing cylinder	Bore dia×Rod dia×Stroke	Ø45×Ø95×335 mm
	Cushion	None

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

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

8) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
HX60A	Rubber	400 mm (16")	0.36 kgf/cm ² (5.08 psi)	76	1900 mm (6' 3")
	Steel	380 mm (15")	0.38 kgf/cm ² (5.38 psi)	40	1880 mm (6' 2")
	Steel	400 mm (16")	0.37 kgf/cm ² (5.21 psi)	40	1900 mm (6' 3")

9. RECOMMENDED OILS

HD Hyundai Construction Equipment genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HD Hyundai Construction Equipment and, therefore, will meet the highest safety and quality requirements. We recommend that you use only HD Hyundai Construction Equipment genuine lubricating oils and grease officially approved by HD Hyundai Construction Equipment.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)								
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	8.6 (2.3)	★SAE 5W-40								
							SAE 30				
			SAE 10W								
			SAE 10W-30								
			SAE 15W-40								
Swing drive	Gear oil	1.5 (0.4)	★SAE 75W-90								
Final drive		1.0×2 (0.3×2)	SAE 80W-90								
Hydraulic tank	Hydraulic oil	Tank; 70 (18.5)	★ISO VG 15								
			ISO VG 32								
		System; 120 (31.7)	ISO VG 46, HBHO VG 46★ ³								
			ISO VG 68								
Fuel tank	Diesel fuel★ ¹	125 (33)	★ASTM D975 NO.1								
			ASTM D975 NO.2								
Fitting (grease nip- ple)	Grease	As required	★NLGI NO.1								
			NLGI NO.2								
Radiator (reservoir tank)	Mixture of antifreeze and water★ ²	11 (2.9)	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)

★¹ : Ultra low sulfur diesel

- sulfur content ≤ 10 ppm

★² : Soft water : City water or distilled water

★³ : 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.

※ 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.