

SECTION 1 GENERAL



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SECTION 1 GENERAL

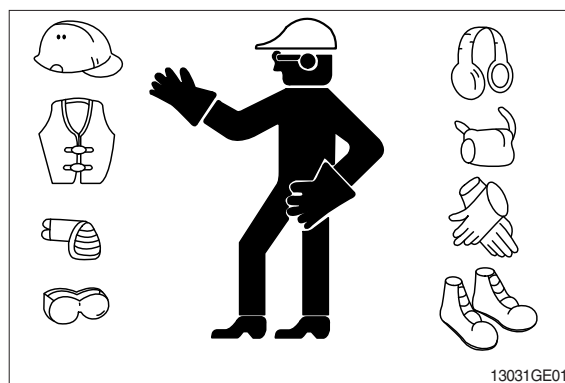
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

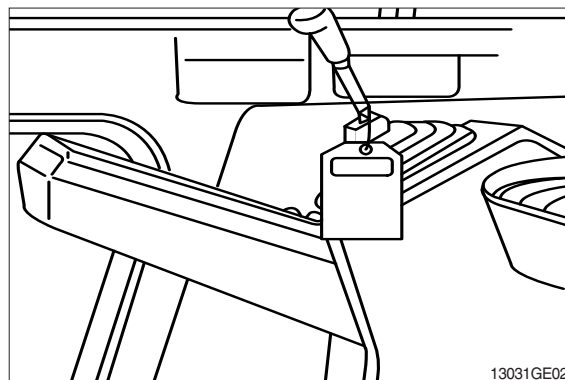
Wear close fitting clothing and safety equipment appropriate to the job.



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.



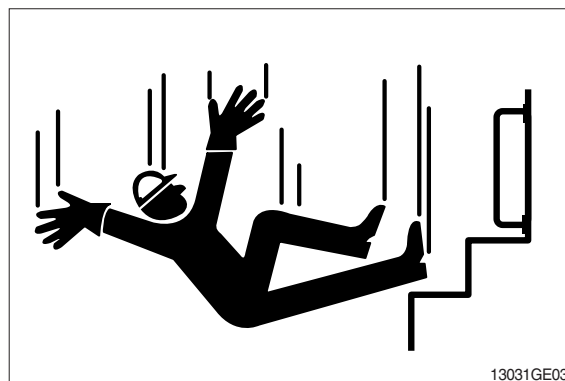
USE HANDHOLDS AND STEPS

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.

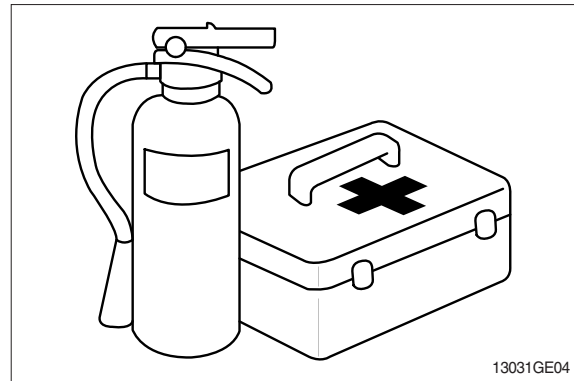


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

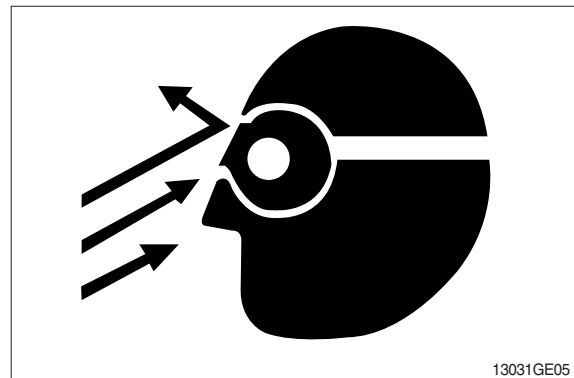
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

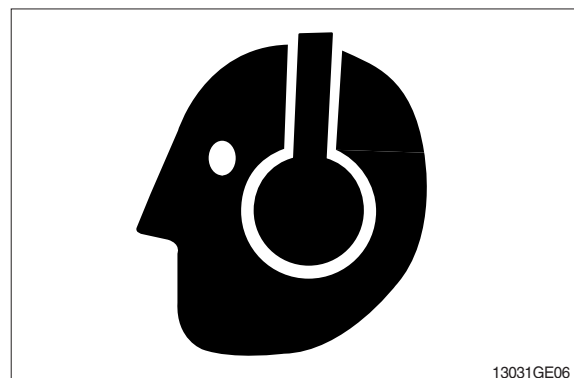
Guard against injury from flying pieces of metal or debris; wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

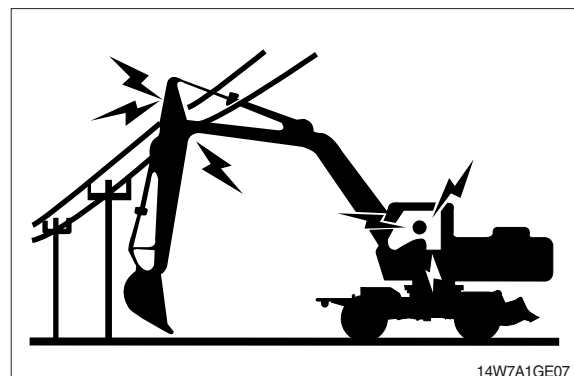
Wear a suitable hearing protective device such as ear-muffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

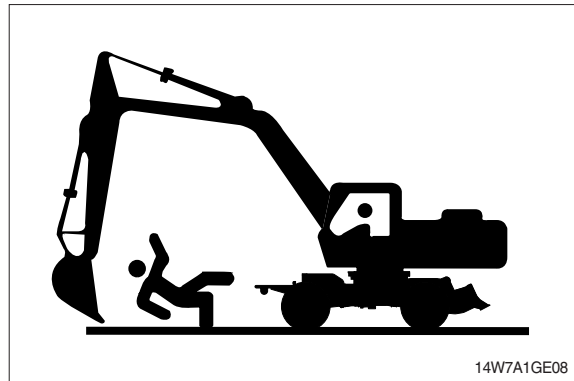
Never move any part of the machine or load closer to electric line than 3 m (10 ft) plus twice the line insulator length.



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.

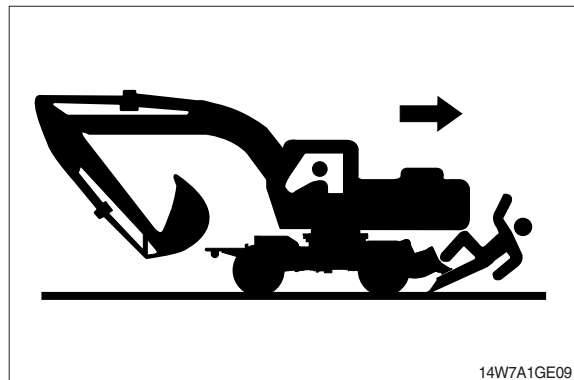


MOVE AND OPERATE MACHINE SAFELY

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:

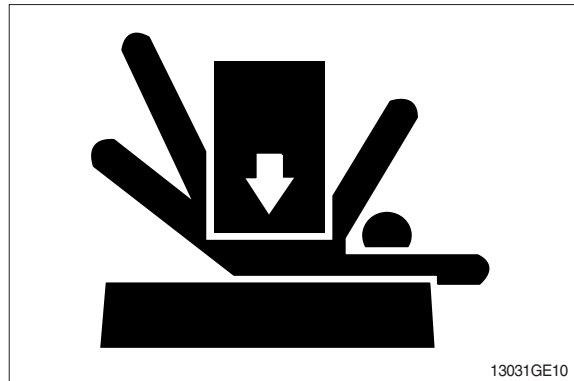
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine.
Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

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.

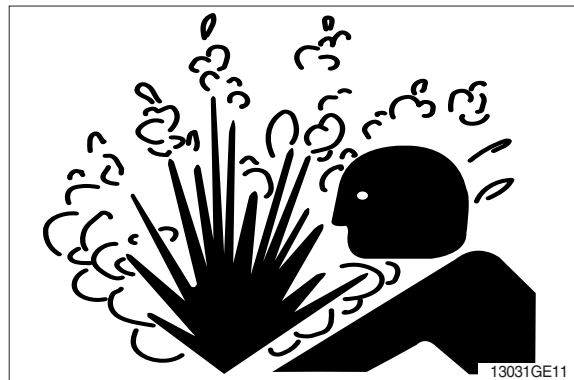
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

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

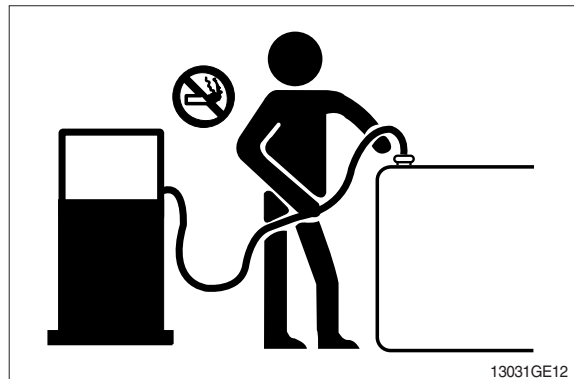
Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



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.

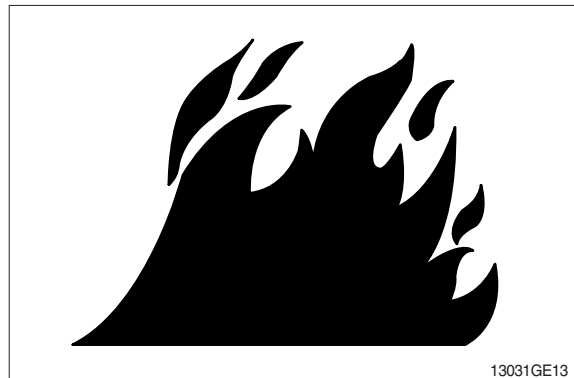
Fill fuel tank outdoors.



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

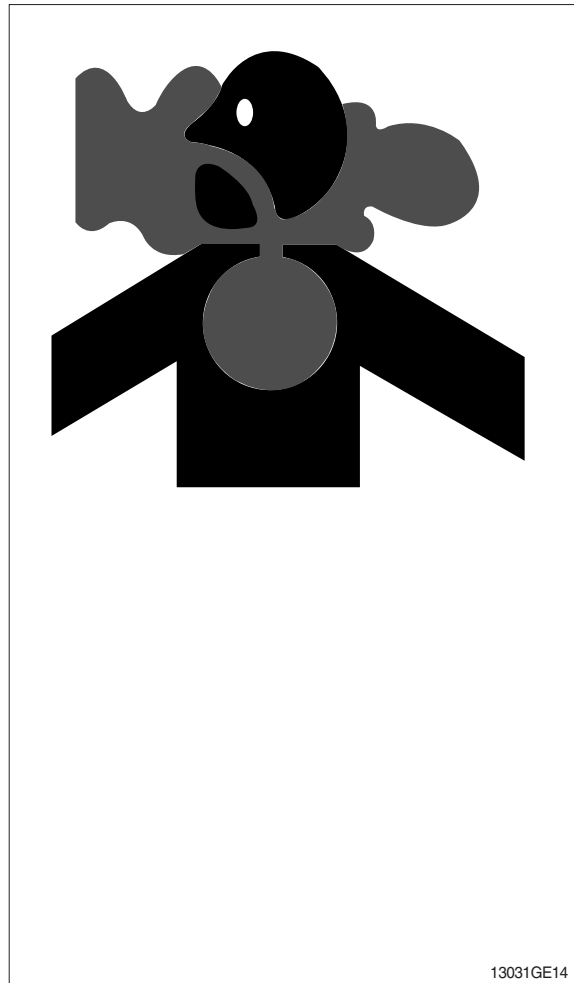
Avoid potentially toxic fumes and dust.

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.

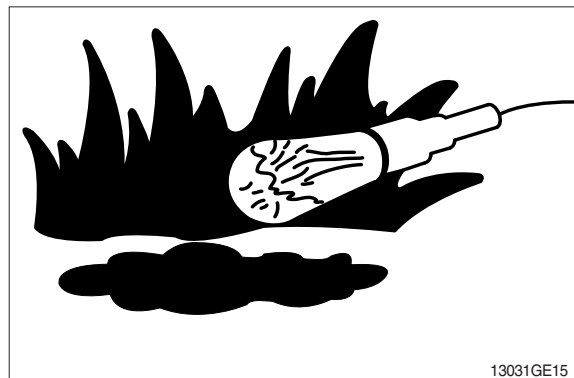
Remove paint before welding or heating:

- 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

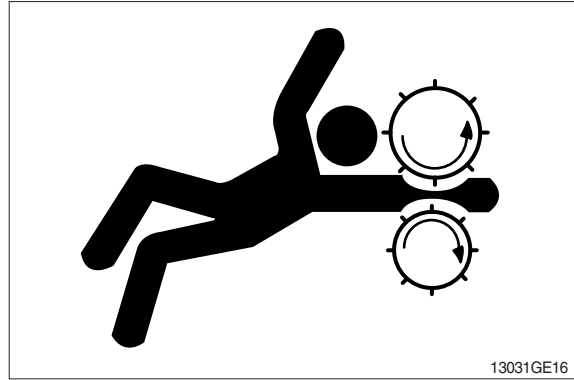
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



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.

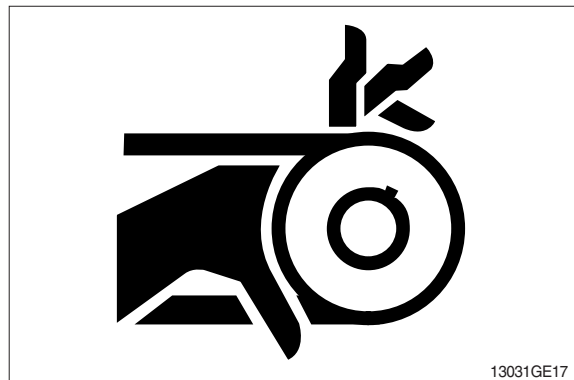
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



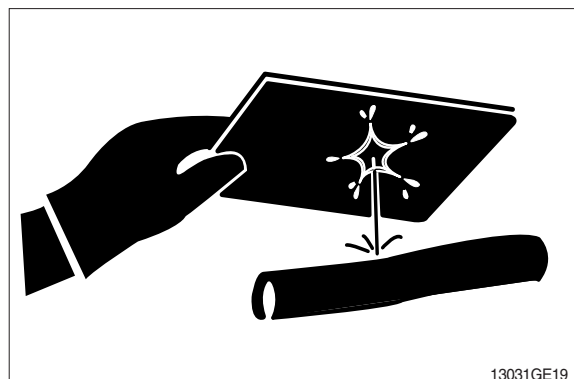
AVOID HIGH PRESSURE FLUIDS

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:

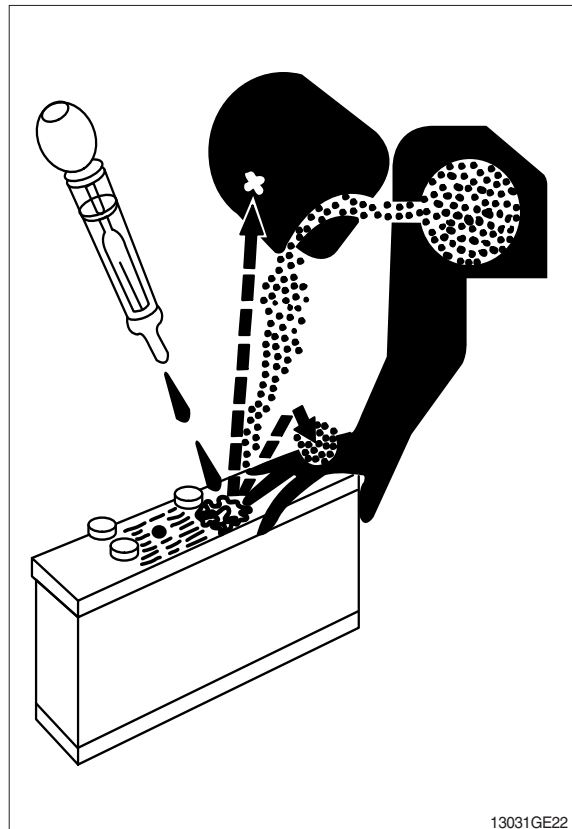
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



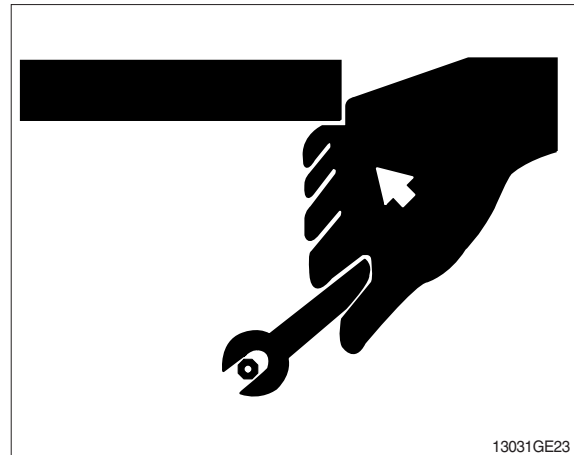
USE TOOLS PROPERLY

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.)

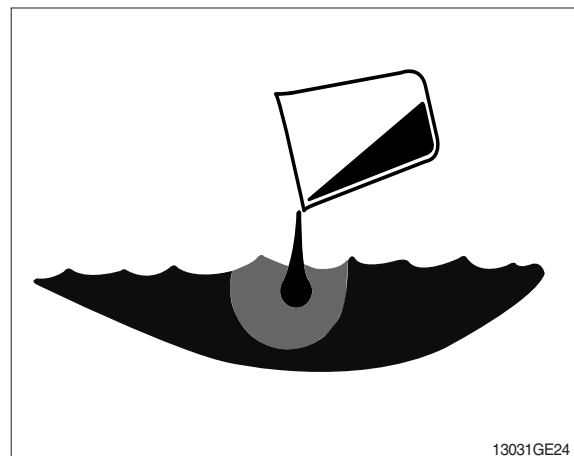


DISPOSE OF FLUIDS PROPERLY

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.

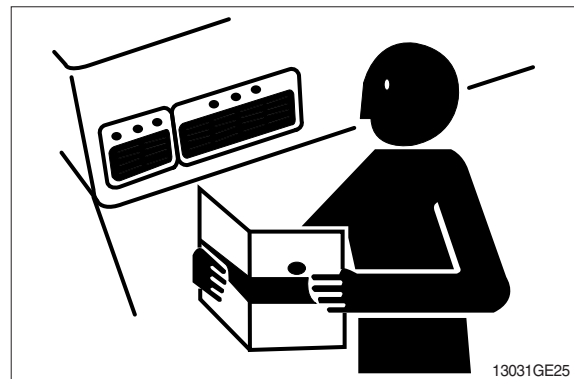
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

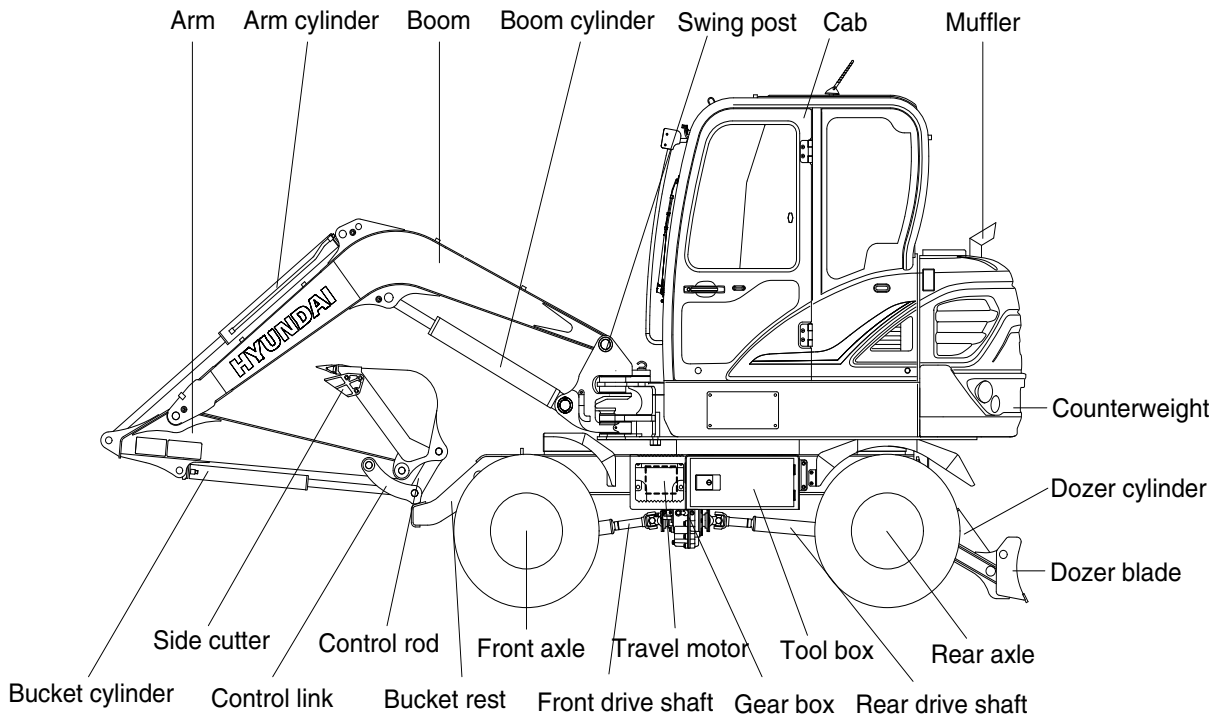
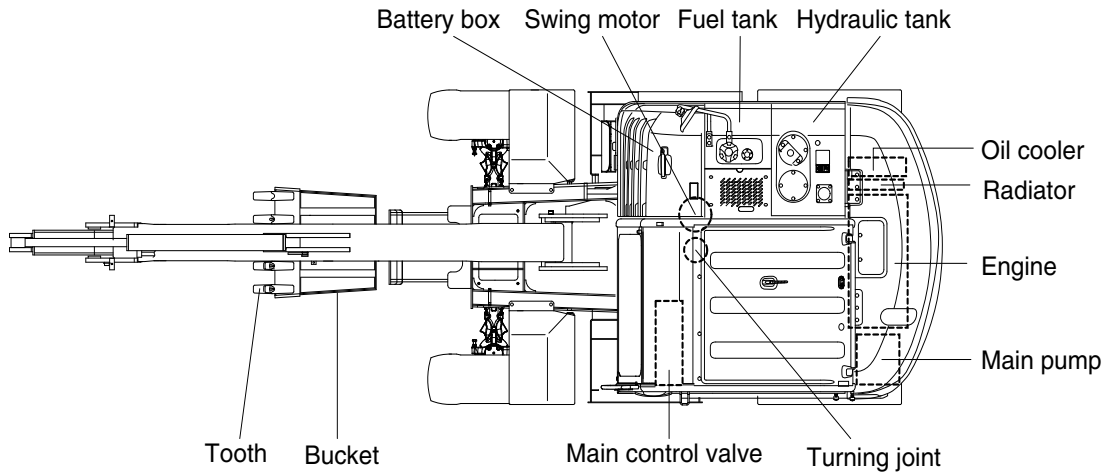


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

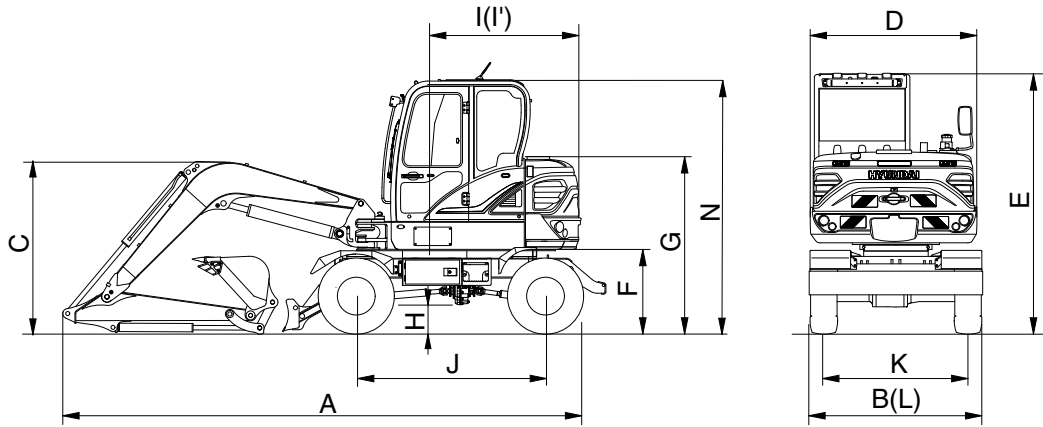
1. MAJOR COMPONENT



HW602SP01A

2. SPECIFICATIONS

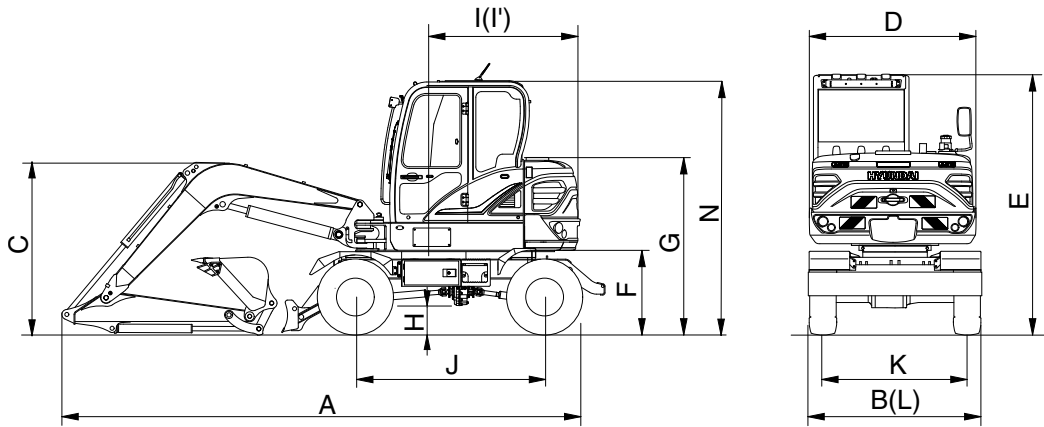
1) 3.0 m (9'10") MONO BOOM, 1.6 m (5' 3") ARM WITH BOOM SWING SYSTEM



HW65AH2SP02

Description		Unit		Specification	
		m (ft-in)	Boom	3.0 (9' 10")	
			Arm	1.60 (5' 3")	
		Tire		Single 1200	Double 700
Axle		STD	HD		
Operating weight		kg (lb)	6065 (13370)	6355 (14010)	
Overall length (travel)	A	mm (ft-in)	6200 (20' 4")	6200 (20' 4")	
Overall length (shipping)			6055 (19' 1")	6055 (19' 1")	
Overall width	B		1925 (6' 4")	2100 (6' 11")	
Overall height of boom (travel)	C		2800 (9' 2")	2800 (9' 2")	
Overall height of boom (shipping)			2280 (7' 6")	2280 (7' 6")	
Upperstructure width	D		1850 (6' 1")	1850 (6' 1")	
Overall height of cab	E		2905 (9' 6")	2865 (9' 5")	
Ground clearance of counterweight	F		1000 (3' 3")	960 (3' 2")	
Overall height of engine hood	G		2005 (6' 7")	1965 (6' 5")	
Minimum ground clearance	H		315 (1. 0")	275 (0.11")	
Rear-end distance	I		1650 (5' 5")	1653 (5' 5")	
Rear-end swing radius	I'		1650 (5' 5")	1650 (5' 5")	
Wheel base	J		2100 (6' 11")	2100 (6' 11")	
Tread	K		1600 (5' 3")	1660 (5' 5")	
Dozer blade width	L		1925 (6' 4")	2100 (6' 11")	
Height of blade	O		350 (1' 2")	350 (1' 2")	
Ground clearance of blade up	P	430 (1' 5")	430 (1' 5")		
Depth of blade down	Q	154 (0' 6")	154 (0' 6")		
Travel speed	Low	km/hr (mph)	11 (6.8)	13.1 (8.1)	
	High		32 (19.9)	30 (18.6)	
Swing speed		rpm	8.26	8.26	
Gradeability		Degree (%)	30 (58)	30 (58)	
Max traction force		kg (lb)	3042 (6710)	3042 (6710)	

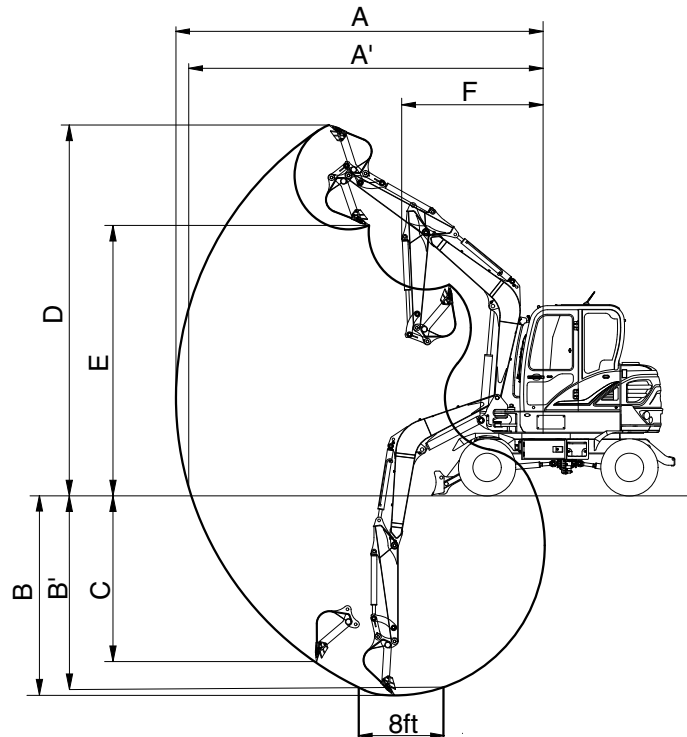
2) 3.0 m (9'10") MONO BOOM, 1.9 m (6' 3") ARM WITH BOOM SWING SYSTEM



Description	Unit		Specification	
	m (ft-in)	Boom	3.0 (9' 10")	
		Arm	1.90 (6' 3")	
	Tire		Single 1200	Double 700
	Axle		STD	HD
Operating weight	kg (lb)		6195 (13660)	6485 (14300)
Overall length (travel)	A	mm (ft-in)	6060 (19' 11")	6060 (19' 11")
Overall length (shipping)			6123 (20' 10")	6123 (20' 10")
Overall width	B		1925 (6' 4")	2100 (6' 11")
Overall height of boom (travel)	C		3070 (10' 1")	3070 (10' 1")
Overall height of boom (shipping)			2590 (8' 6")	2590 (8' 6")
Upperstructure width	D		1850 (6' 1")	1850 (6' 1")
Overall height of cab	E		2905 (9' 6")	2865 (9' 5")
Ground clearance of counterweight	F		1000 (3' 3")	960 (3' 2")
Overall height of engine hood	G		2005 (6' 7")	1965 (6' 5")
Minimum ground clearance	H		315 (1.0")	275 (0.11")
Rear-end distance	I		1675 (5' 6")	1675 (5' 6")
Rear-end swing radius	I'		1680 (5' 6")	1680 (5' 6")
Wheel base	J		2100 (6' 11")	2100 (6' 11")
Tread	K		1600 (5' 3")	1660 (5' 5")
Dozer blade width	L		1925 (6' 4")	2100 (6' 11")
Height of blade	O		350 (1' 2")	350 (1' 2")
Ground clearance of blade up	P		430 (1' 5")	430 (1' 5")
Depth of blade down	Q	154 (0' 6")	154 (0' 6")	
Travel speed	Low	km/hr (mph)	11 (6.8)	13.1 (8.1)
	High		32 (19.9)	30 (18.6)
Swing speed	rpm		8.26	8.26
Gradeability	Degree (%)		30 (58)	30 (58)
Max traction force	kg (lb)		3042 (6710)	3042 (6710)

3. WORKING RANGE

1) 3.0 m (9'10") MONO BOOM WITH BOOM SWING SYSTEM



HW65AH2SP03

Description	m (ft-in)	Boom	3.0 m (9' 10")	
		Arm	1.6 m (5' 3")	1.9 m (6' 3")
Max digging reach	mm (ft-in)	A	6150 mm (20' 2")	6450 mm (21' 2")
Max digging reach on ground		A'	5950 mm (19' 6")	6250 mm (20' 6")
Max digging depth		B	3490 mm (11' 5")	3790 mm (12' 5")
Max digging depth (8 ft level)		B'	3100 mm (10' 2")	3440 mm (11' 3")
Max vertical wall digging depth		C	3950 mm (13' 0")	3320 mm (10' 11")
Max digging height		D	6045 mm (19' 1")	6260 mm (20' 6")
Max dumping height		E	4290 mm (14' 1")	4490 mm (14' 1")
Min swing radius		F	2380 mm (7' 10")	2410 mm (7' 11")
Bucket digging force	kN	SAE	36.9 [40.2]	36.9 [40.2]
	kgf		3763 [4100]	3763 [4100]
	lbf		8295 [9039]	8290 [9039]
	kN	ISO	42.1 [45.9]	42.1 [45.9]
	kgf		4292 [4680]	4290 [4680]
	lbf		9461 [10318]	9462 [10318]
Arm crowd force	kN	SAE	27.3 [29.7]	24.3 [26.5]
	kgf		2779 [3030]	2476 [2476]
	lbf		6126 [6680]	5459 [5459]
	kN	ISO	28.3 [30.9]	25.1 [27.4]
	kgf		2886 [3150]	2561 [2790]
	lbf		6335 [6945]	5646 [6151]

4. WEIGHT

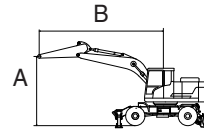
Item	HW65AH	
	kg	lb
Upperstructure assembly		
Main frame weld assembly	764	1684
Engine assembly	264	582
Aftertreatment assy	11	25
Main pump assembly	35	77
Main control valve assembly	50	110
Swing motor assembly	76	168
Hydraulic oil tank assembly	95	208
Hydraulic oil (max)	61	135
Fuel tank assembly	67	148
Fuel oil (max)	106	233
Counterweight (STD)	210	463
Counterweight (Heavy)	330	728
Cab assembly	350	772
Lower chassis assembly		
Lower frame weld assembly (single tire)	753	1660
Lower frame weld assembly (double tire)	769	1695
Swing bearing	102	225
Travel motor assembly	43	95
Turning joint	60	132
Transmission assembly	100	220
Front axle assembly	280	617
Rear axle assembly	240	529
Dozer blade assembly (single tire)	230	507
Dozer blade assembly (double tire)	242	534
Front attachment assembly		
3.0 m boom assembly	247	545
1.6 m arm assembly	130	287
1.9 m arm assembly	135	298
0.18 m ³ SAE heaped bucket assembly	162	357
0.07 m ³ SAE heaped bucket assembly	110	243
Boom cylinder assembly	78	172
Arm cylinder assembly	65	143
Bucket cylinder assembly	37	82
Dozer cylinder assembly	31	68
Bucket control linkage total	46	102











5. LIFTING CAPACITIES

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH			3000	1600	210	-	-	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)	
5.0 m (16.4 ft)	kg									*1310	*1310	3.51
	lb									*2890	*2890	(11.5)
4.0 m (13.1 ft)	kg				*1210	*1210				*1270	1100	4.45
	lb				*2670	*2670				*2800	2430	(14.6)
3.0 m (9.8 ft)	kg		*1490	*1490	*1320	1290				*1230	910	4.96
	lb		*3280	*3280	*2910	2840				*2710	2010	(16.3)
2.0 m (6.6 ft)	kg		*2140	1900	*1570	1240	*1350	890	*1260	840	5.19	
	lb		*4720	4190	*3460	2730	*2980	1960	*2780	1850	(17.0)	
1.0 m (3.3 ft)	kg		*2670	1790	*1810	1190	1340	870	1270	820	5.19	
	lb		*5890	3950	*3990	2620	2950	1920	2800	1810	(17.0)	
0.0 m (0.0 ft)	kg	*1930	*1930	*2820	1750	1840	1160		1340	860	4.96	
	lb	*4250	*4250	*6220	3860	4060	2560		2950	1900	(16.3)	
-1.0 m (-3.3 ft)	kg	*3740	3470	*2630	1750	*1800	1160		*1500	1000	4.46	
	lb	*8250	7650	*5800	3860	*3970	2560		*3310	2200	(14.6)	
-2.0 m (-6.6 ft)	kg	*3130	*3130	*2000	1790				*1520	1420	3.53	
	lb	*6900	*6900	*4410	3950				*3350	3130	(11.6)	

※ 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 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.

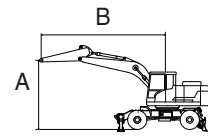
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH	MONO BOOM	SINGLE TIRE	3000	1600	210	-	-	Up	-	-

·  : 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)	
5.0 m (16.4 ft)	kg									*1310	*1310	3.51
	lb									*2890	*2890	(11.5)
4.0 m (13.1 ft)	kg				*1210	1140				*1270	950	4.45
	lb				*2670	2510				*2800	2090	(14.6)
3.0 m (9.8 ft)	kg		*1490	*1490	*1320	1110				*1230	790	4.96
	lb		*3280	*3280	*2910	2450				*2710	1740	(16.3)
2.0 m (6.6 ft)	kg		*2140	1620	*1570	1060	*1350	760		*1260	720	5.19
	lb		*4720	3570	*3460	2340	*2980	1680		*2780	1590	(17.0)
1.0 m (3.3 ft)	kg		*2670	1510	*1810	1020	1340	740		1270	700	5.19
	lb		*5890	3330	*3990	2250	2950	1630		2800	1540	(17.0)
0.0 m (0.0 ft)	kg	*1930	*1930	*2820	1470	1840	990			1340	740	4.96
	lb	*4250	*4250	*6220	3240	4060	2180			2950	1630	(16.3)
-1.0 m (-3.3 ft)	kg	*3740	2810	*2630	1470	*1800	990			*1500	860	4.46
	lb	*8250	6190	*5800	3240	*3970	2180			*3310	1900	(14.6)
-2.0 m (-6.6 ft)	kg	*3130	2880	*2000	1510					*1520	1210	3.53
	lb	*6900	6350	*4410	3330					*3350	2670	(11.6)

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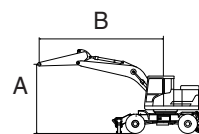
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH	MONO BOOM	SINGLE TIRE	3000	1600	330	-	-	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)	
5.0 m (16.4 ft)	kg									*1310	*1310	3.51
	lb									*2890	*2890	(11.5)
4.0 m (13.1 ft)	kg				*1210	*1210				*1270	1160	4.45
	lb				*2670	*2670				*2800	2560	(14.6)
3.0 m (9.8 ft)	kg		*1490	*1490	*1320	*1320				*1230	970	4.96
	lb		*3280	*3280	*2910	*2910				*2710	2140	(16.3)
2.0 m (6.6 ft)	kg		*2140	2000	*1570	1310	*1350	940	*1260	880	5.19	
	lb		*4720	4410	*3460	2890	*2980	2070	*2780	1940	(17.0)	
1.0 m (3.3 ft)	kg		*2670	1890	*1810	1260	1400	920	1330	870	5.19	
	lb		*5890	4170	*3990	2780	3090	2030	2930	1920	(17.0)	
0.0 m (0.0 ft)	kg	*1930	*1930	*2820	1850	*1920	1230			1410	920	4.96
	lb	*4250	*4250	*6220	4080	*4230	2710			3110	2030	(16.3)
-1.0 m (-3.3 ft)	kg	*3740	3660	*2630	1850	*1800	1230			*1500	1060	4.46
	lb	*8250	8070	*5800	4080	*3970	2710			*3310	2340	(14.6)
-2.0 m (-6.6 ft)	kg	*3130	*3130	*2000	1890					*1520	1500	3.53
	lb	*6900	*6900	*4410	4170					*3350	3310	(11.6)

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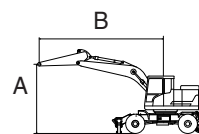
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Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH	MONO BOOM	SINGLE TIRE	3000	1600	330	-	-	Up	-	-

·  : 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)	
5.0 m (16.4 ft)	kg									*1310	*1310	3.51
	lb									*2890	*2890	(11.5)
4.0 m (13.1 ft)	kg				*1210	1200				*1270	1000	4.45
	lb				*2670	2650				*2800	2200	(14.6)
3.0 m (9.8 ft)	kg		*1490	*1490	*1320	1180				*1230	840	4.96
	lb		*3280	*3280	*2910	2600				*2710	1850	(16.3)
2.0 m (6.6 ft)	kg		*2140	1710	*1570	1130	*1350	810	*1260	760	5.19	
	lb		*4720	3770	*3460	2490	*2980	1790	*2780	1680	(17.0)	
1.0 m (3.3 ft)	kg		*2670	1610	*1810	1080	1400	790	1330	750	5.19	
	lb		*5890	3550	*3990	2380	3090	1740	2930	1650	(17.0)	
0.0 m (0.0 ft)	kg	*1930	*1930	*2820	1560	*1920	1050			1410	790	4.96
	lb	*4250	*4250	*6220	3440	*4230	2310			3110	1740	(16.3)
-1.0 m (-3.3 ft)	kg	*3740	2980	*2630	1560	*1800	1050			*1500	910	4.46
	lb	*8250	6570	*5800	3440	*3970	2310			*3310	2010	(14.6)
-2.0 m (-6.6 ft)	kg	*3130	3050	*2000	1600					*1520	1280	3.53
	lb	*6900	6720	*4410	3530					*3350	2820	(11.6)

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

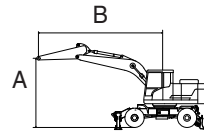
Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH	MONO BOOM	SINGLE TIRE	3000	1900	210	-	-	Down	-	-



: 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											*1180	*1180	3.97
	lb											*2600	*2600	(13.0)
4.0 m (13.1 ft)	kg						*1060	*1060				*1050	980	4.80
	lb						*2340	*2340				*2310	2160	(15.7)
3.0 m (9.8 ft)	kg						*1200	*1200	*1180	920		*1010	840	5.27
	lb						*2650	*2650	*2600	2030		*2230	1850	(17.3)
2.0 m (6.6 ft)	kg				*1930	*1930	*1460	1260	*1270	900		*1030	770	5.49
	lb				*4250	*4250	*3220	2780	*2800	1980		*2270	1700	(18.0)
1.0 m (3.3 ft)	kg				*2550	1820	*1740	1200	1340	870		*1110	760	5.49
	lb				*5620	4010	*3840	2650	2950	1920		*2450	1680	(18.0)
0.0 m (0.0 ft)	kg			*1860	*1860	*2810	1760	1840	1160	1320	850	1230	790	5.27
	lb			*4100	*4100	*6190	3880	4060	2560	2910	1870	2710	1740	(17.3)
-1.0 m (-3.3 ft)	kg	*2260	*2260	*3220	*3220	*2720	1740	1830	1150			*1400	900	4.81
	lb	*4980	*4980	*7100	*7100	*6000	3840	4030	2540			*3090	1980	(15.8)
-2.0 m (-6.6 ft)	kg	*3620	*3620	*3640	3500	*2260	1770					*1440	1180	3.98
	lb	*7980	*7980	*8020	7720	*4980	3900					*3170	2600	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

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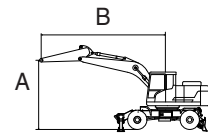
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








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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH	MONO BOOM	SINGLE TIRE	3000	1900	210	-	-	Up	-	-

·  : 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											*1180	1160	3.97
	lb											*2600	2560	(13.0)
4.0 m (13.1 ft)	kg						*1060	*1060				*1050	850	4.80
	lb						*2340	*2340				*2310	1870	(15.7)
3.0 m (9.8 ft)	kg						*1200	1130	*1180	790		*1010	720	5.27
	lb						*2650	2490	*2600	1740		*2230	1590	(17.3)
2.0 m (6.6 ft)	kg				*1930	1650	*1460	1080	*1270	770		*1030	660	5.49
	lb				*4250	3640	*3220	2380	*2800	1700		*2270	1460	(18.0)
1.0 m (3.3 ft)	kg				*2550	1540	*1740	1030	1340	750		*1110	650	5.49
	lb				*5620	3400	*3840	2270	2950	1650		*2450	1430	(18.0)
0.0 m (0.0 ft)	kg			*1860	*1860	*2810	1480	1840	990	1320	730	1230	680	5.27
	lb			*4100	*4100	*6190	3260	4060	2180	2910	1610	2710	1500	(17.3)
-1.0 m (-3.3 ft)	kg	*2260	*2260	*3220	2790	*2720	1470	1830	980			*1400	770	4.81
	lb	*4980	*4980	*7100	6150	*6000	3240	4030	2160			*3090	1700	(15.8)
-2.0 m (-6.6 ft)	kg	*3620	*3620	*3640	2850	*2260	1490					*1440	1010	3.98
	lb	*7980	*7980	*8020	6280	*4980	3280					*3170	2230	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

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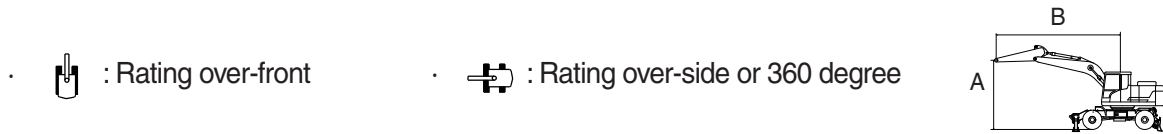
The difference between the weight of a work tool attachment must be subtracted.













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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH			3000	1900	330	-	-	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											*1180	*1180	3.97
	lb											*2600	*2600	(13.0)
4.0 m (13.1 ft)	kg						*1060	*1060				*1050	1040	4.80
	lb						*2340	*2340				*2310	2290	(15.7)
3.0 m (9.8 ft)	kg						*1200	*1200	*1180	970		*1010	890	5.27
	lb						*2650	*2650	*2600	2140		*2230	1960	(17.3)
2.0 m (6.6 ft)	kg					*1930	*1930	*1460	1320	*1270	950	*1030	820	5.49
	lb					*4250	*4250	*3220	2910	*2800	2090	*2270	1810	(18.0)
1.0 m (3.3 ft)	kg					*2550	1920	*1740	1270	*1390	920	*1110	800	5.49
	lb					*5620	4230	*3840	2800	*3060	2030	*2450	1760	(18.0)
0.0 m (0.0 ft)	kg					*1860	*1860	*2810	1860	*1900	1230	1390	900	5.27
	lb					*4100	*4100	*6190	4100	*4190	2710	3060	1980	(17.3)
-1.0 m (-3.3 ft)	kg	*2260	*2260	*3220	*3220	*2720	1840	*1870	1220					4.81
	lb	*4980	*4980	*7100	*7100	*6000	4060	*4120	2690					(15.8)
-2.0 m (-6.6 ft)	kg	*3620	*3620	*3640	*3640	*2260	1870							3.98
	lb	*7980	*7980	*8020	*8020	*4980	4120							(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

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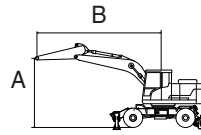
Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	SINGLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH	MONO BOOM	SINGLE TIRE	3000	1900	330	-	-	Up	-	-



: 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											*1180	*1180	3.97
	lb											*2600	*2600	(13.0)
4.0 m (13.1 ft)	kg						*1060	*1060				*1050	900	4.80
	lb						*2340	*2340				*2310	1980	(15.7)
3.0 m (9.8 ft)	kg						*1200	1190	*1180	840		*1010	770	5.27
	lb						*2650	2620	*2600	1850		*2230	1700	(17.3)
2.0 m (6.6 ft)	kg				*1930	1740	*1460	1140	*1270	820		*1030	710	5.49
	lb				*4250	3840	*3220	2510	*2800	1810		*2270	1570	(18.0)
1.0 m (3.3 ft)	kg				*2550	1630	*1740	1090	*1390	790		*1110	690	5.49
	lb				*5620	3590	*3840	2400	*3060	1740		*2450	1520	(18.0)
0.0 m (0.0 ft)	kg			*1860	*1860	*2810	1570	*1900	1050	1390	780	*1270	720	5.27
	lb			*4100	*4100	*6190	3460	*4190	2310	3060	1720	*2800	1590	(17.3)
-1.0 m (-3.3 ft)	kg	*2260	*2260	*3220	2960	*2720	1560	*1870	1040			*1400	820	4.81
	lb	*4980	*4980	*7100	6530	*6000	3440	*4120	2290			*3090	1810	(15.8)
-2.0 m (-6.6 ft)	kg	*3620	*3620	*3640	3010	*2260	1580					*1440	1070	3.98
	lb	*7980	*7980	*8020	6640	*4980	3480					*3170	2360	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

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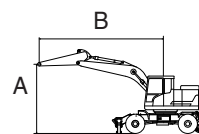
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH			3000	1600	210	-	-	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)	
5.0 m (16.4 ft)	kg									*1310	*1310	3.48
	lb									*2890	*2890	(11.4)
4.0 m (13.1 ft)	kg				*1210	*1210				*1270	1190	4.43
	lb				*2670	*2670				*2800	2620	(14.5)
3.0 m (9.8 ft)	kg		*1480	*1480	*1320	*1320				*1230	990	4.95
	lb		*3260	*3260	*2910	*2910				*2710	2180	(16.2)
2.0 m (6.6 ft)	kg		*2130	2060	*1560	1340	*1340	960	*1260	910	5.19	
	lb		*4700	4540	*3440	2950	*2950	2120	*2780	2010	(17.0)	
1.0 m (3.3 ft)	kg		*2670	1950	*1800	1290	1400	940	1320	890	5.19	
	lb		*5890	4300	*3970	2840	3090	2070	2910	1960	(17.0)	
0.0 m (0.0 ft)	kg	*1890	*1890	*2820	1900	*1920	1260		1400	940	4.97	
	lb	*4170	*4170	*6220	4190	*4230	2780		3090	2070	(16.3)	
-1.0 m (-3.3 ft)	kg	*3690	*3690	*2640	1900	*1810	1260		*1500	1080	4.47	
	lb	*8140	*8140	*5820	4190	*3990	2780		*3310	2380	(14.7)	
-2.0 m (-6.6 ft)	kg	*3170	*3170	*2020	1940				*1520	1520	3.56	
	lb	*6990	*6990	*4450	4280				*3350	3350	(11.7)	

※ 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.

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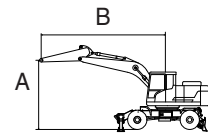
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH			3000	1600	210	-	-	Up	-	-

·  : 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)
5.0 m (16.4 ft)	kg								*1310	*1310	3.48
	lb								*2890	*2890	(11.4)
4.0 m (13.1 ft)	kg				*1210	*1210			*1270	1050	4.43
	lb				*2670	*2670			*2800	2310	(14.5)
3.0 m (9.8 ft)	kg		*1480	*1480	*1320	1220			*1230	870	4.95
	lb		*3260	*3260	*2910	2690			*2710	1920	(16.2)
2.0 m (6.6 ft)	kg		*2130	1790	*1560	1170	*1340	840	*1260	790	5.19
	lb		*4700	3950	*3440	2580	*2950	1850	*2780	1740	(17.0)
1.0 m (3.3 ft)	kg		*2670	1680	*1800	1130	1400	820	1320	780	5.19
	lb		*5890	3700	*3970	2490	3090	1810	2910	1720	(17.0)
0.0 m (0.0 ft)	kg	*1890	*1890	*2820	1640	*1920	1100		1400	820	4.97
	lb	*4170	*4170	*6220	3620	*4230	2430		3090	1810	(16.3)
-1.0 m (-3.3 ft)	kg	*3690	3150	*2640	1640	*1810	1090		*1500	950	4.47
	lb	*8140	6940	*5820	3620	*3990	2400		*3310	2090	(14.7)
-2.0 m (-6.6 ft)	kg	*3170	*3170	*2020	1680				*1520	1320	3.56
	lb	*6990	*6990	*4450	3700				*3350	2910	(11.7)

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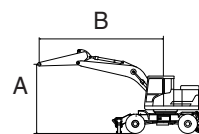
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




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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH			3000	1600	330	-	-	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)	
5.0 m (16.4 ft)	kg									*1310	*1310	3.48
	lb									*2890	*2890	(11.4)
4.0 m (13.1 ft)	kg				*1210	*1210				*1270	1250	4.43
	lb				*2670	*2670				*2800	2760	(14.5)
3.0 m (9.8 ft)	kg		*1480	*1480	*1320	*1320				*1230	1040	4.95
	lb		*3260	*3260	*2910	*2910				*2710	2290	(16.2)
2.0 m (6.6 ft)	kg		*2130	*2130	*1560	1410	*1340	1010		*1260	960	5.19
	lb		*4700	*4700	*3440	3110	*2950	2230		*2780	2120	(17.0)
1.0 m (3.3 ft)	kg		*2670	2050	*1800	1360	*1430	990		*1370	940	5.19
	lb		*5890	4520	*3970	3000	*3150	2180		*3020	2070	(17.0)
0.0 m (0.0 ft)	kg	*1890	*1890	*2820	2000	*1920	1330			*1440	990	4.97
	lb	*4170	*4170	*6220	4410	*4230	2930			*3170	2180	(16.3)
-1.0 m (-3.3 ft)	kg	*3690	*3690	*2640	2000	*1810	1330			*1500	1140	4.47
	lb	*8140	*8140	*5820	4410	*3990	2930			*3310	2510	(14.7)
-2.0 m (-6.6 ft)	kg	*3170	*3170	*2020	*2020					*1520	*1520	3.56
	lb	*6990	*6990	*4450	*4450					*3350	*3350	(11.7)

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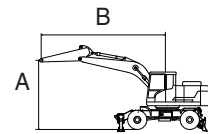
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




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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH			3000	1600	330	-	-	Up	-	-

·  : 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)
5.0 m (16.4 ft)	kg								*1310	*1310	3.48
	lb								*2890	*2890	(11.4)
4.0 m (13.1 ft)	kg				*1210	*1210			*1270	1110	4.43
	lb				*2670	*2670			*2800	2450	(14.5)
3.0 m (9.8 ft)	kg		*1480	*1480	*1320	1290			*1230	920	4.95
	lb		*3260	*3260	*2910	2840			*2710	2030	(16.2)
2.0 m (6.6 ft)	kg		*2130	1880	*1560	1240	*1340	890	*1260	840	5.19
	lb		*4700	4140	*3440	2730	*2950	1960	*2780	1850	(17.0)
1.0 m (3.3 ft)	kg		*2670	1780	*1800	1190	*1430	870	*1370	820	5.19
	lb		*5890	3920	*3970	2620	*3150	1920	*3020	1810	(17.0)
0.0 m (0.0 ft)	kg	*1890	*1890	*2820	1730	*1920	1160		*1440	870	4.97
	lb	*4170	*4170	*6220	3810	*4230	2560		*3170	1920	(16.3)
-1.0 m (-3.3 ft)	kg	*3690	3330	*2640	1730	*1810	1160		*1500	1000	4.47
	lb	*8140	7340	*5820	3810	*3990	2560		*3310	2200	(14.7)
-2.0 m (-6.6 ft)	kg	*3170	*3170	*2020	1770				*1520	1400	3.56
	lb	*6990	*6990	*4450	3900				*3350	3090	(11.7)

※ Note

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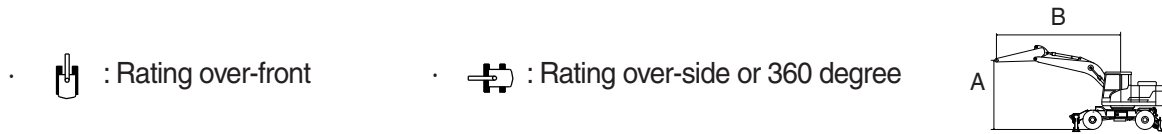
The difference between the weight of a work tool attachment must be subtracted.













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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH			3000	1900	210	-	-	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											*1190	*1190	3.94
	lb											*2620	*2620	(12.9)
4.0 m (13.1 ft)	kg						*1060	*1060				*1050	*1050	4.78
	lb						*2340	*2340				*2310	*2310	(15.7)
3.0 m (9.8 ft)	kg						*1190	*1190	*1180	990		*1010	910	5.26
	lb						*2620	*2620	*2600	2180		*2230	2010	(17.3)
2.0 m (6.6 ft)	kg				*1910	*1910	*1460	1360	*1270	970		*1030	840	5.48
	lb				*4210	*4210	*3220	3000	*2800	2140		*2270	1850	(18.0)
1.0 m (3.3 ft)	kg				*2540	1970	*1730	1300	*1380	940		*1110	820	5.49
	lb				*5600	4340	*3810	2870	*3040	2070		*2450	1810	(18.0)
0.0 m (0.0 ft)	kg			*1830	*1830	*2800	1910	*1900	1260	1390	930	*1260	860	5.28
	lb			*4030	*4030	*6170	4210	*4190	2780	3060	2050	*2780	1900	(17.3)
-1.0 m (-3.3 ft)	kg	*2230	*2230	*3190	*3190	*2730	1890	*1870	1250			*1400	970	4.82
	lb	*4920	*4920	*7030	*7030	*6020	4170	*4120	2760			*3090	2140	(15.8)
-2.0 m (-6.6 ft)	kg	*3580	*3580	*3670	*3670	*2280	1920	*1450	1270			*1440	1270	4.01
	lb	*7890	*7890	*8090	*8090	*5030	4230	*3200	2800			*3170	2800	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

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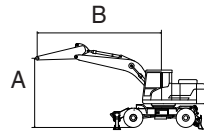
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








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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH			3000	1900	210	-	-	Up	-	-

•  : 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											*1190	*1190	3.94
	lb											*2620	*2620	(12.9)
4.0 m (13.1 ft)	kg						*1060	*1060				*1050	940	4.78
	lb						*2340	*2340				*2310	2070	(15.7)
3.0 m (9.8 ft)	kg						*1190	*1190	*1180	870		*1010	800	5.26
	lb						*2620	*2620	*2600	1920		*2230	1760	(17.3)
2.0 m (6.6 ft)	kg				*1910	1820	*1460	1190	*1270	850		*1030	730	5.48
	lb				*4210	4010	*3220	2620	*2800	1870		*2270	1610	(18.0)
1.0 m (3.3 ft)	kg				*2540	1700	*1730	1140	*1380	830		*1110	720	5.49
	lb				*5600	3750	*3810	2510	*3040	1830		*2450	1590	(18.0)
0.0 m (0.0 ft)	kg			*1830	*1830	*2800	1640	*1900	1100	1390	810	*1260	750	5.28
	lb			*4030	*4030	*6170	3620	*4190	2430	3060	1790	*2780	1650	(17.3)
-1.0 m (-3.3 ft)	kg	*2230	*2230	*3190	3130	*2730	1630	*1870	1090			*1400	850	4.82
	lb	*4920	*4920	*7030	6900	*6020	3590	*4120	2400			*3090	1870	(15.8)
-2.0 m (-6.6 ft)	kg	*3580	*3580	*3670	3190	*2280	1650	*1450	1110			*1440	1110	4.01
	lb	*7890	*7890	*8090	7030	*5030	3640	*3200	2450			*3170	2450	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

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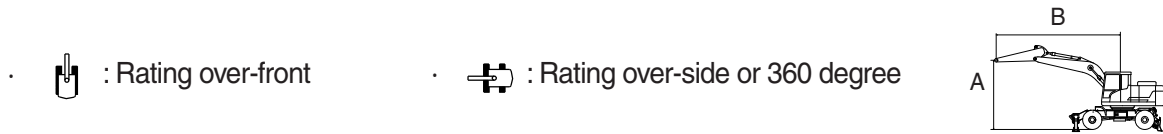
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








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Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH	MONO BOOM	DOUBLE TIRE	3000	1900	330	-	-	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											*1190	*1190	3.94
	lb											*2620	*2620	(12.9)
4.0 m (13.1 ft)	kg						*1060	*1060				*1050	*1050	4.78
	lb						*2340	*2340				*2310	*2310	(15.7)
3.0 m (9.8 ft)	kg						*1190	*1190	*1180	1040		*1010	960	5.26
	lb						*2620	*2620	*2600	2290		*2230	2120	(17.3)
2.0 m (6.6 ft)	kg				*1910	*1910	*1460	1420	*1270	1020		*1030	880	5.48
	lb				*4210	*4210	*3220	3130	*2800	2250		*2270	1940	(18.0)
1.0 m (3.3 ft)	kg				*2540	2070	*1730	1370	*1380	1000		*1110	870	5.49
	lb				*5600	4560	*3810	3020	*3040	2200		*2450	1920	(18.0)
0.0 m (0.0 ft)	kg			*1830	*1830	*2800	2010	*1900	1330	*1440	980	*1260	910	5.28
	lb			*4030	*4030	*6170	4430	*4190	2930	*3170	2160	*2780	2010	(17.3)
-1.0 m (-3.3 ft)	kg	*2230	*2230	*3190	*3190	*2730	2000	*1870	1320			*1400	1030	4.82
	lb	*4920	*4920	*7030	*7030	*6020	4410	*4120	2910			*3090	2270	(15.8)
-2.0 m (-6.6 ft)	kg	*3580	*3580	*3670	*3670	*2280	2020	*1450	1340			*1440	1340	4.01
	lb	*7890	*7890	*8090	*8090	*5030	4450	*3200	2950			*3170	2950	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

※ 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 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.

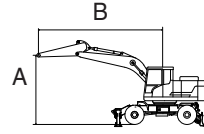
Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
	MONO BOOM	DOUBLE TIRE	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
HW65AH	MONO BOOM	DOUBLE TIRE	3000	1900	330	-	-	Up	-	-



: 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											*1190	*1190	3.94
	lb											*2620	*2620	(12.9)
4.0 m (13.1 ft)	kg						*1060	*1060				*1050	990	4.78
	lb						*2340	*2340				*2310	2180	(15.7)
3.0 m (9.8 ft)	kg						*1190	*1190	*1180	920		*1010	840	5.26
	lb						*2620	*2620	*2600	2030		*2230	1850	(17.3)
2.0 m (6.6 ft)	kg					*1910	*1910	*1460	1250	*1270	900	*1030	780	5.48
	lb					*4210	*4210	*3220	2760	*2800	1980	*2270	1720	(18.0)
1.0 m (3.3 ft)	kg					*2540	1800	*1730	1200	*1380	880	*1110	760	5.49
	lb					*5600	3970	*3810	2650	*3040	1940	*2450	1680	(18.0)
0.0 m (0.0 ft)	kg			*1830	*1830	*2800	1740	*1900	1160	*1440	860	*1260	800	5.28
	lb			*4030	*4030	*6170	3840	*4190	2560	*3170	1900	*2780	1760	(17.3)
-1.0 m (-3.3 ft)	kg	*2230	*2230	*3190	*3190	*2730	1720	*1870	1150			*1400	900	4.82
	lb	*4920	*4920	*7030	*7030	*6020	3790	*4120	2540			*3090	1980	(15.8)
-2.0 m (-6.6 ft)	kg	*3580	*3580	*3670	3360	*2280	1750	*1450	1180			*1440	1170	4.01
	lb	*7890	*7890	*8090	7410	*5030	3860	*3200	2600			*3170	2580	(13.1)
-3.0 m (-9.8 ft)	kg													
	lb													

※ Note

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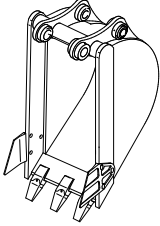
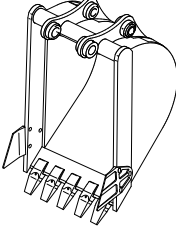
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Make adjustments to the rated load as necessary for non-standard configurations.

6. BUCKET SELECTION GUIDE

	
<p>0.07m³ SAE heaped bucket</p>	<p>0.18 m³ SAE heaped bucket</p>

Capacity		Width		Weight	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)	270 mm (10.6")	360 mm (14.2")	115 kg (255 lb)	Applicable for materials with density of 1600 kgf/m ³ (2700 lb/yd ³) or less
0.18 m ³ (0.24 yd ³)	0.15 m ³ (0.20 yd ³)	620 mm (24.4")	730 mm (28.7")	170 kg (375 lb)	

7. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	HDI 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 bore × stroke	90 × 94 mm (3.5" × 3.7")
Piston displacement	2392 cc (145 cu in)
Compression ratio	16.9 : 1
Gross power	65.9 Hp (48.5 kW)
Net power	63.9 Hp (47 kW)
Max. power	65.9 Hp (48.5 kW)
Peak torque	25 kgf·m (183 lbf·ft)
Engine oil quantity	8.6 ℓ (2.3 U.S. gal)
Dry weight (wet weight)	253 kg (558 lb)
Starting motor	12 V - 2.5 kW
Alternator	13.5 V - 90 A

2) MAIN PUMP

Item	Specification
Type	AP2D28
Capacity	2 × 25 cc/rev
Maximum pressure	220 kgf/cm ² (3130 psi)
Rated oil flow	2 × 60 ℓ /min (15.9 U.S. gpm / 13.2 U.K. gpm)
Rated speed	2400 rpm

3) GEAR PUMP

Item	Specification
Type	GSP2H-16
Capacity	16.2 cc/rev
Maximum pressure	200 kgf/cm ² (2845 psi)
Rated oil flow	38.9 ℓ /min (10.2 / 8.5 U.S. gpm)

4) MAIN CONTROL VALVE

Item	Specification	
Type	11 spools, two- block	
Operating method	Hydraulic pilot system	
Main relief valve pressure	220 kgf/cm ² (3130 psi)	
Port relief valve pressure	Boom	240 kgf/cm ² (3420 psi)
	Arm	240 kgf/cm ² (3420 psi)
	Bucket	240 kgf/cm ² (3420 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	591.7 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	Variable displacement axial piston motor
Capacity	80 / 30.2 cc/rev
Relief pressure	235 kgf/cm ² (3350 psi)

7) POWER TRAIN

Item	Description		Specification
Transmission	Type		2 Speed Powershift transmission
	Gear ratio	1st	4.06
		2nd	1.31
	Clutch pressure		26~32 kgf/cm ² (370~455 psi)
Parking brake	Type		SAHR (Spring Applied Hydraulic Release)
	Maximum braking power		810 kgf · m (5856 lbf · ft)
Axle	Type		4 wheel drive with differential
	Gear ratio		13.65
	Brake		Wet Type Multiple disc
	Brake pressure		52 kgf/cm ² (740 psi)
	Steering pressure		148 kgf/cm ² (2210 psi)

8) 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	-
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø110 × Ø60 × 224 mm
	Cushion	-

※ 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) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
HW65AH	STD	0.18 m ³ (0.24 yd ³)	0.15 m ³ (0.20 yd ³)	5	620 mm (24.4")	730 mm (28.7")
	OPT	0.07 m ³ (0.09 yd ³)	0.06 m ³ (0.08 yd ³)	3	270 mm (10.6")	360 mm (14.2")

8. RECOMMENDED LUBRICANTS

Use only oils listed below or equivalent.

Do not mix different brand oil.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)						
			-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	8.6 (2.3)	SAE 30						
			SAE 10W						
			SAE 10W-30						
							SAE 15W-40		
Swing drive	Gear oil	1.5 (0.4)	SAE 80W-90						
	Grease	0.2 (0.1)	NLGI NO.1						
				NLGI NO.2					
Gear box case	Gear oil	1.8 (0.5)							
Front axle		Center: 5 (1.3) Hub: 0.4x2 (0.11x2)	SAE 75W-90						
Rear axle		Center:5 (1.3) Hub: 0.4x2 (0.11x2)	SAE 85W-90						
Hydraulic tank	Hydraulic oil	Tank; 70 (18.5) System; 120 (31.7)	ISO VG 15						
							ISO VG 46		
							ISO VG 68		
Fuel tank	Diesel fuel★1	125 (33)	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 water★2	11 (2.9)	Ethylene glycol base permanent type (50 : 50)						

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

★1 : Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

★2 : Soft water

City water or distilled water

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

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

※ 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.