

SECTION 1 GENERAL

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SECTION 1 GENERAL

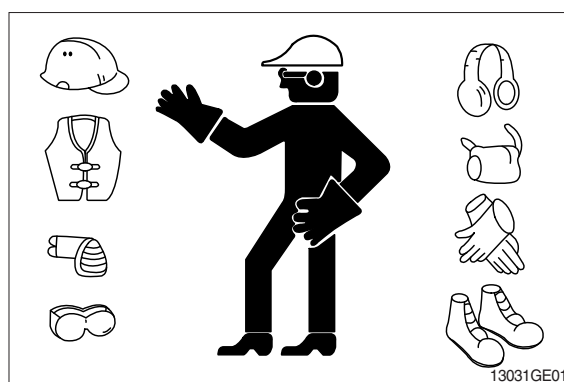
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

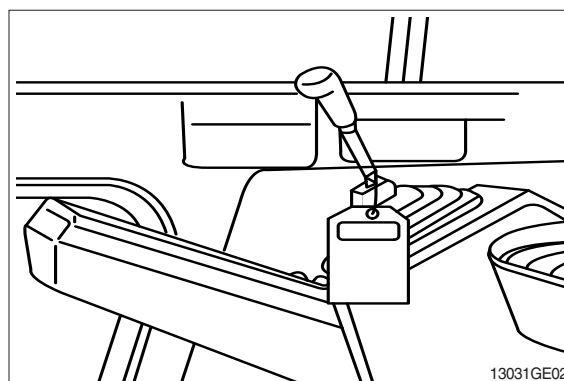
Wear close fitting clothing and safety equipment appropriate to the job.



WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

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



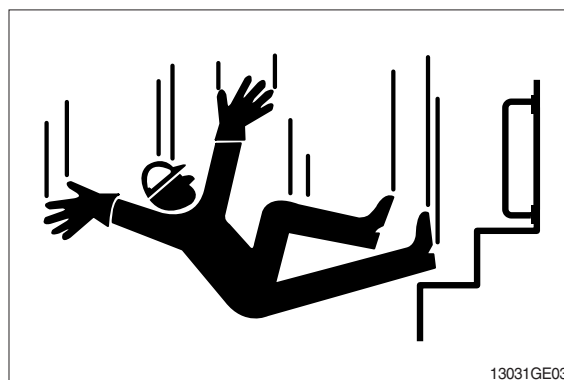
USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

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

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

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

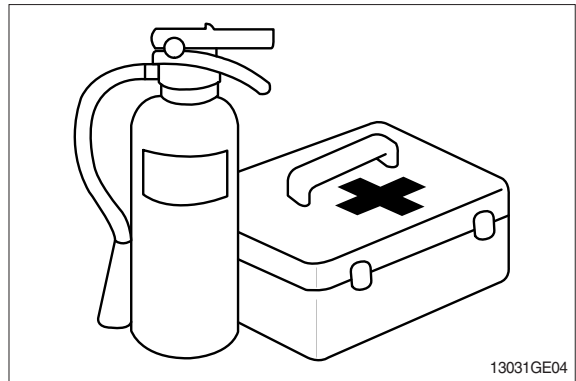


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

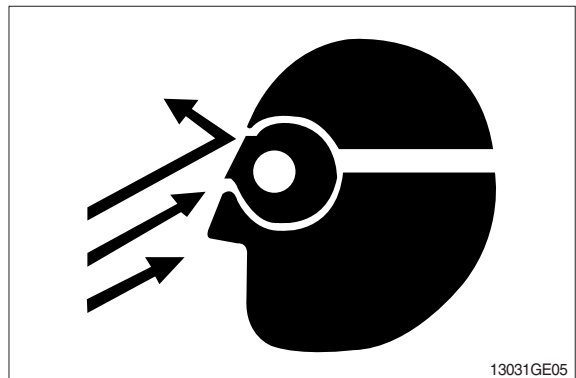
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

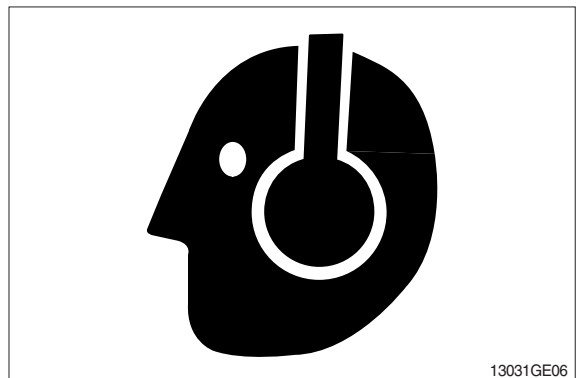
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

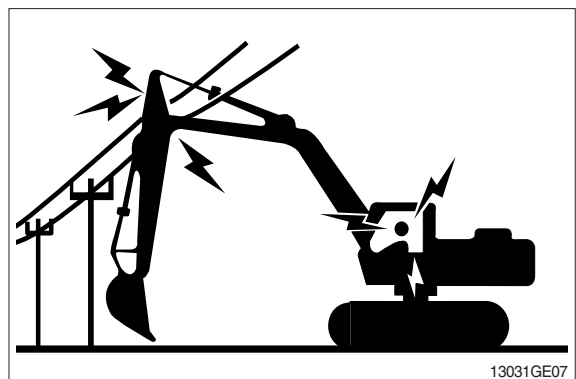
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

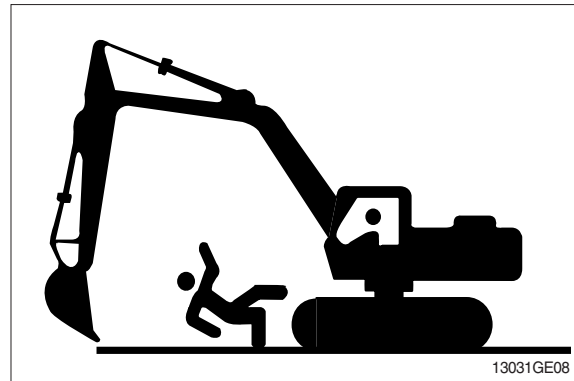
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



KEEP RIDERS OFF EXCAVATOR

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

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

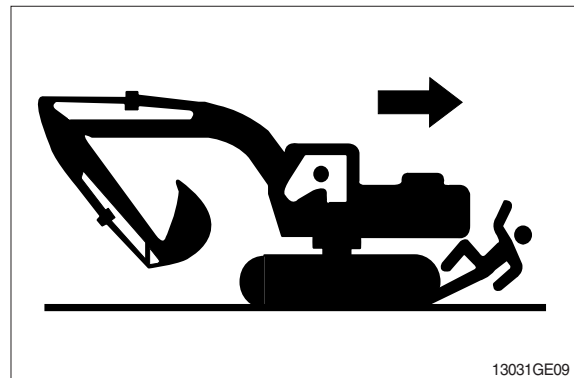


MOVE AND OPERATE MACHINE SAFELY

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

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

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



OPERATE ONLY FROM OPERATOR'S SEAT

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

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



PARK MACHINE SAFELY

Before working on the machine:

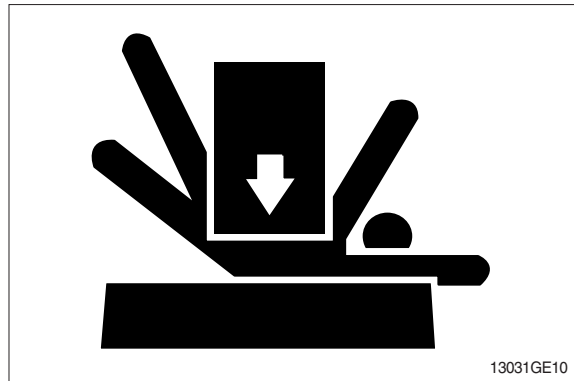
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
 - Turn key switch to OFF to stop engine.
- Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

SUPPORT MACHINE PROPERLY

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

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

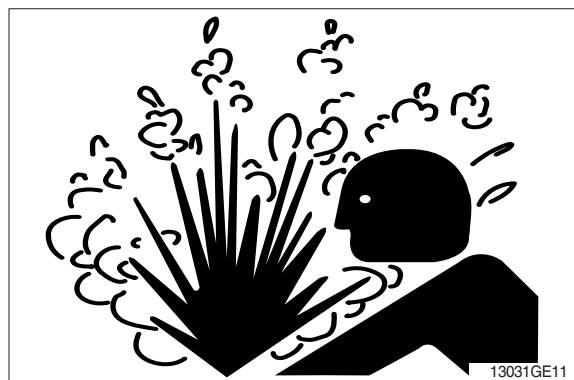
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

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

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



HANDLE FLUIDS SAFELY-AVOID FIRES

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

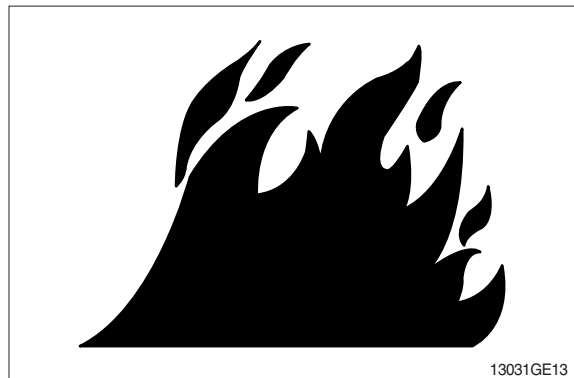
Fill fuel tank outdoors.



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

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

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



BEWARE OF EXHAUST FUMES

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

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

REMOVE PAINT BEFORE WELDING OR HEATING

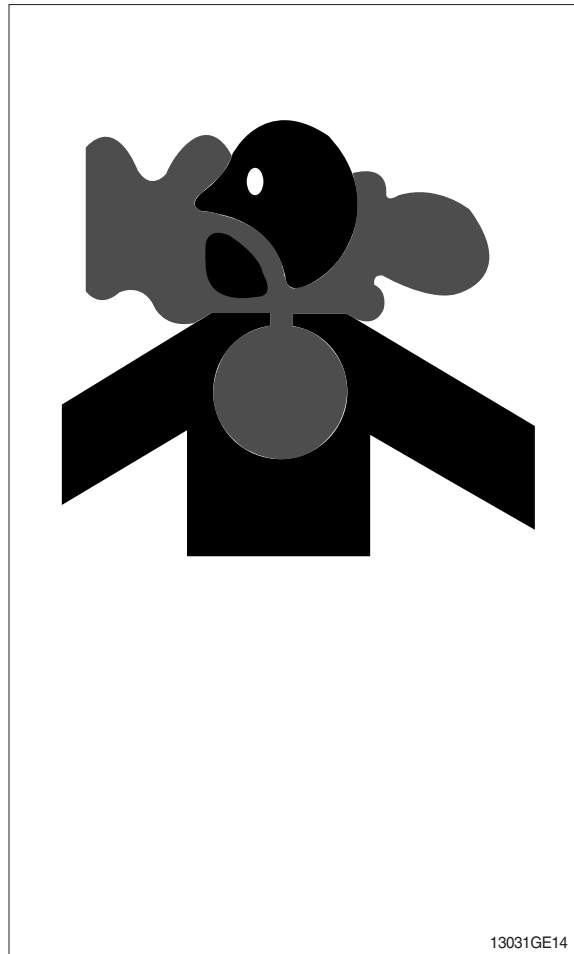
Avoid potentially toxic fumes and dust.

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

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

Remove paint before welding or heating:

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



ILLUMINATE WORK AREA SAFELY

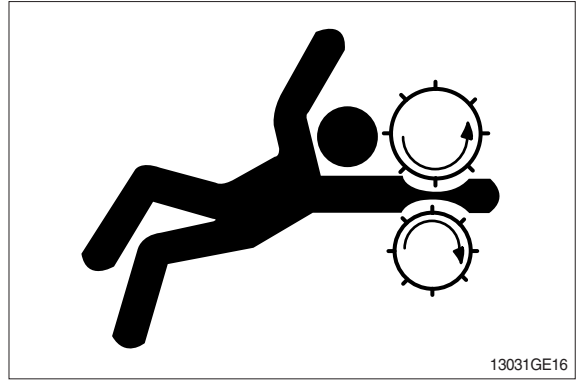
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



SERVICE MACHINE SAFELY

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

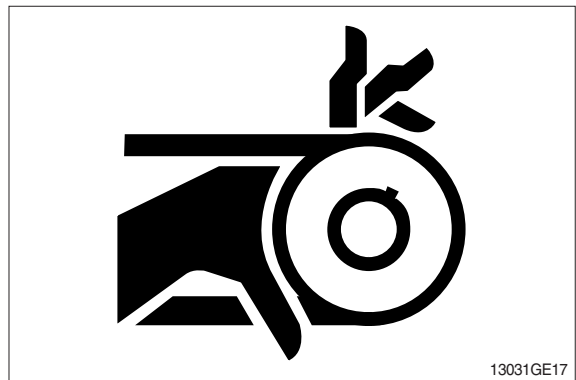
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



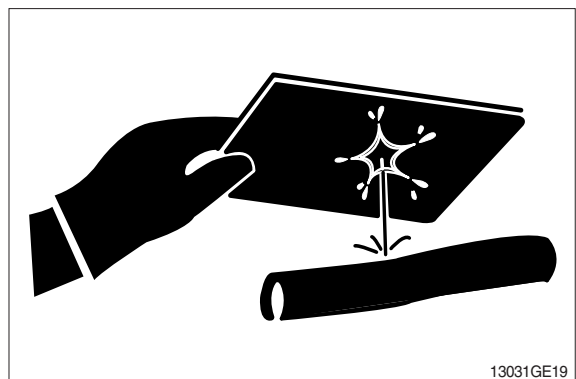
AVOID HIGH PRESSURE FLUIDS

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

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

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

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



AVOID HEATING NEAR PRESSURIZED FLUID LINES

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

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



PREVENT BATTERY EXPLOSIONS

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

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

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



PREVENT ACID BURNS

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

Avoid the hazard by:

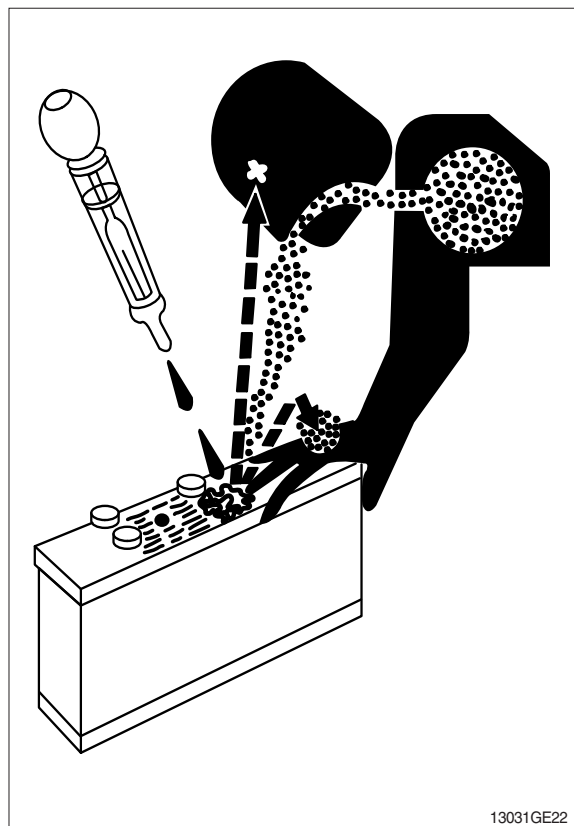
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

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

If acid is swallowed:

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



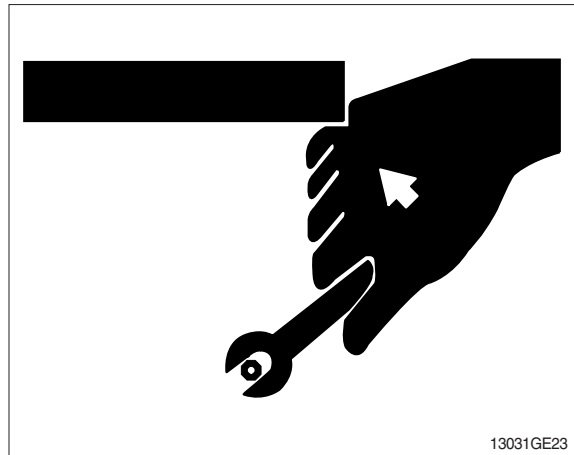
USE TOOLS PROPERLY

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

Use power tools only to loosen threaded tools and fasteners.

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

Use only recommended replacement parts.(see Parts catalogue.)

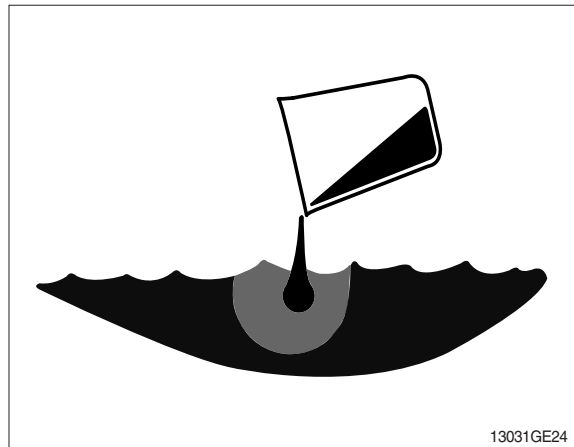


DISPOSE OF FLUIDS PROPERLY

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.

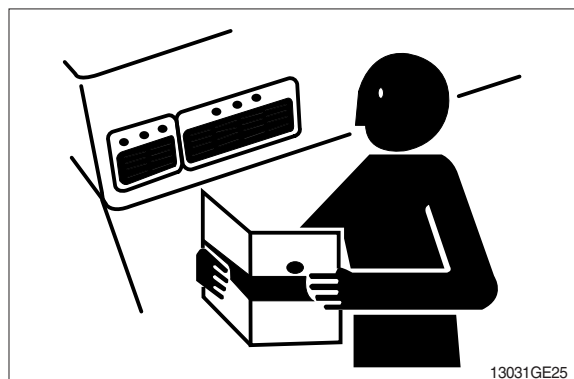
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

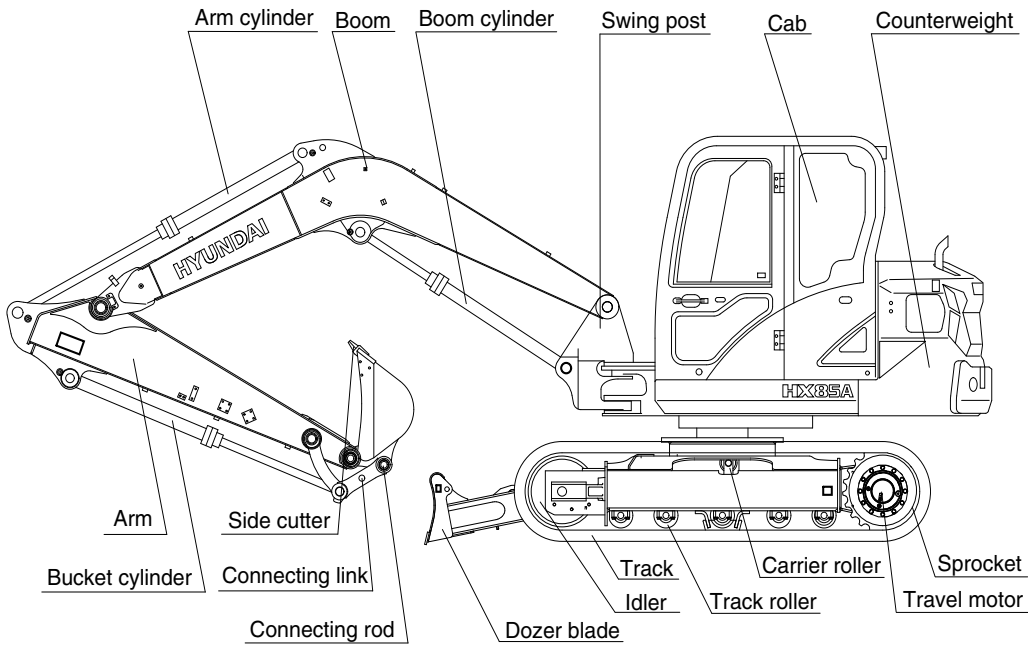
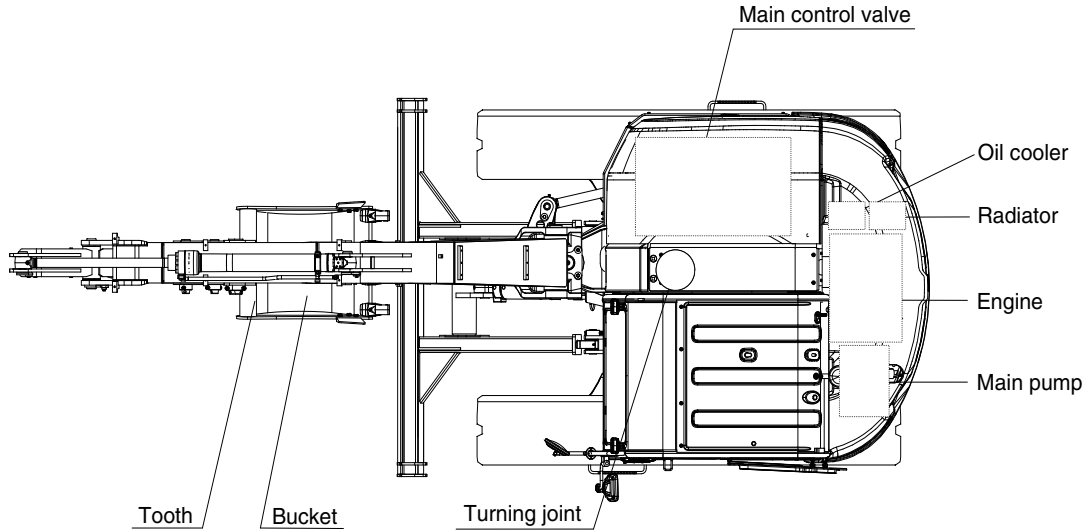


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

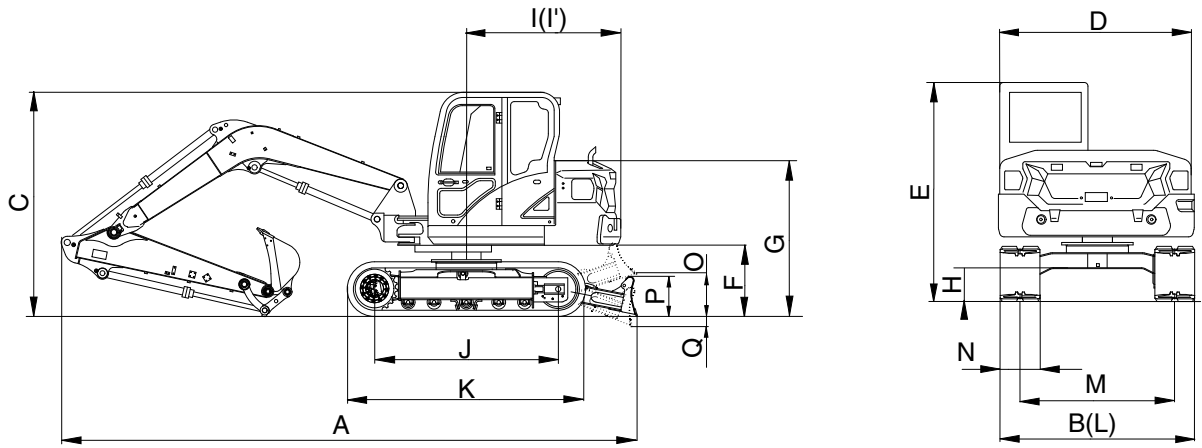
1. MAJOR COMPONENT



856A2SP01

2. SPECIFICATIONS

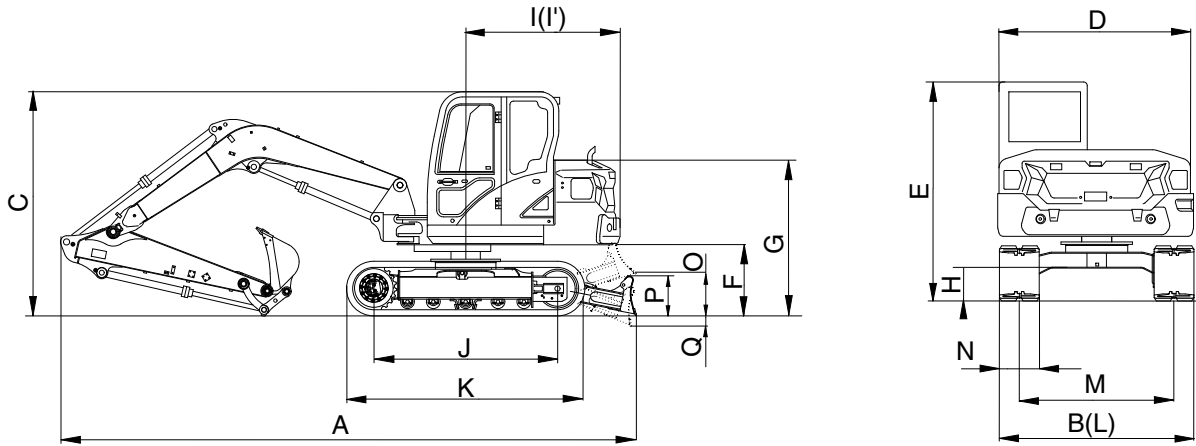
1) 3.55 m (11' 8") MONO BOOM, 1.75 m (5' 9") ARM WITH BOOM SWING SYSTEM



85A2SP02

Description		Unit	Specification
Operating weight		kg (lb)	8530 (18810)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.25 (0.33)
Overall length	A	mm (ft-in)	6585 (21' 7")
Overall width, with 450 mm shoe	B		2300 (7' 7")
Overall height	C		2560 (8' 5")
Superstructure width	D		2300 (7' 7")
Overall height of cab	E		2560 (8' 5")
Ground clearance of counterweight	F		745 (2' 5")
Engine cover height	G		1750 (5' 9")
Minimum ground clearance	H		260 (1' 0")
Rear-end distance	I		1600 (5' 3")
Rear-end swing radius	I'		1645 (5' 5")
Distance between tumblers (Steel)	J		2280 (7' 6")
Distance between tumblers (Rubber)			2270 (7' 5")
Undercarriage length (Steel)	K		2906 (9' 6")
Undercarriage length (Rubber)			2900 (9' 6")
Undercarriage width	L		2300 (7' 7")
Track gauge	M		1850 (6' 1")
Track shoe width, standard	N		450 (1' 6")
Height of blade	O		460 (1' 6")
Ground clearance of blade up	P		430 (1' 4")
Depth of blade down	Q		410 (1' 3")
Travel speed (Low/high)		km/hr (mph)	2.7/5.2 (1.7/3.2)
Swing speed		rpm	9.5
Gradeability		Degree (%)	30 (58)
Ground pressure (450 mm shoe)		kgf/cm ² (psi)	0.38 (5.42)
Max traction force		kg (lb)	7580 (16700)

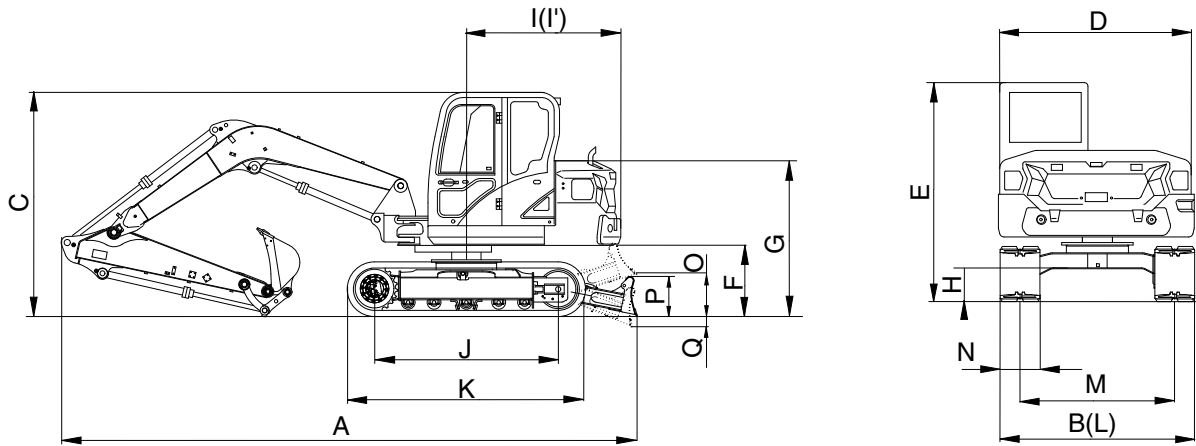
2) 3.55 m (11' 8") MONO BOOM, 2.1 m (6' 11") ARM WITH BOOM SWING SYSTEM



85A2SP02

Description		Unit	Specification
Operating weight		kg (lb)	8610 (18980)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.25 (0.33)
Overall length	A	mm (ft-in)	6655 (21' 10")
Overall width, with 450 mm shoe	B		2300 (7' 7")
Overall height	C		2560 (8' 5")
Superstructure width	D		2300 (7' 7")
Overall height of cab	E		2560 (8' 5")
Ground clearance of counterweight	F		745 (2' 5")
Engine cover height	G		1750 (5' 9")
Minimum ground clearance	H		360 (1' 2")
Rear-end distance	I		1600 (5' 3")
Rear-end swing radius	I'		1645 (5' 5")
Distance between tumblers (Steel)	J		2280 (7' 6")
Distance between tumblers (Rubber)			2270 (7' 5")
Undercarriage length (Steel)	K		2906 (9' 6")
Undercarriage length (Rubber)			2900 (9' 6")
Undercarriage width	L		2300 (7' 7")
Track gauge	M		1850 (6' 1")
Track shoe width, standard	N		450 (1' 6")
Height of blade	O		460 (1' 6")
Ground clearance of blade up	P		400 (1' 4")
Depth of blade down	Q		280 (0' 11")
Travel speed (Low/high)		km/hr (mph)	2.7/5.2 (1.7/3.2)
Swing speed		rpm	9.5
Gradeability		Degree (%)	30 (58)
Ground pressure (450 mm shoe)		kgf/cm ² (psi)	0.38 (5.47)
Max traction force		kg (lb)	7580 (16700)

3) 3.92 m (12' 1") 2PCS BOOM, 1.75 m (5' 9") ARM WITH BOOM SWING SYSTEM

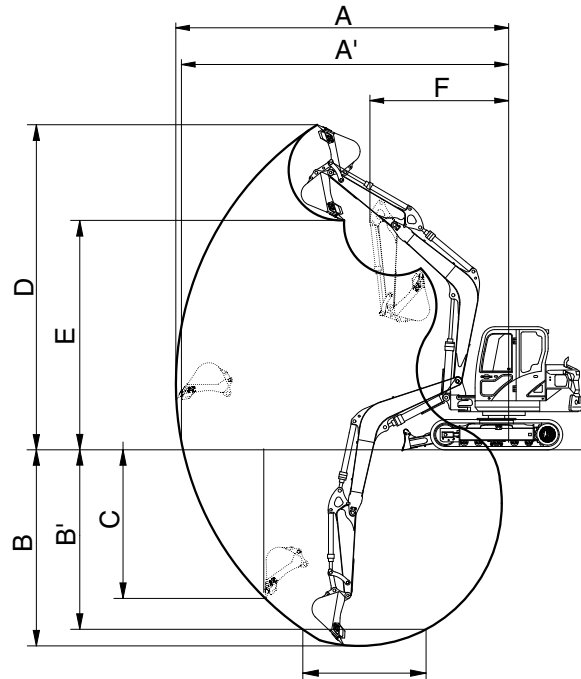


85A2SP02

Description		Unit	Specification
Operating weight		kg (lb)	9000 (19840)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.25 (0.33)
Overall length	A	mm (ft-in)	6790 (22' 3")
Overall width, with 450 mm shoe	B		2300 (7' 7")
Overall height	C		2560 (8' 5")
Superstructure width	D		2300 (7' 7")
Overall height of cab	E		2560 (8' 5")
Ground clearance of counterweight	F		745 (2' 5")
Engine cover height	G		1750 (5' 9")
Minimum ground clearance	H		360 (1' 2")
Rear-end distance	I		1600 (5' 3")
Rear-end swing radius	I'		1645 (5' 5")
Distance between tumblers (Steel)	J		2280 (7' 6")
Distance between tumblers (Rubber)			2270 (7' 5")
Undercarriage length (Steel)	K		2906 (9' 6")
Undercarriage length (Rubber)			2900 (9' 6")
Undercarriage width	L		2300 (7' 7")
Track gauge	M		1850 (6' 1")
Track shoe width, standard	N		450 (1' 6")
Height of blade	O		460 (1' 6")
Ground clearance of blade up	P		400 (1' 4")
Depth of blade down	Q		280 (0' 11")
Travel speed (Low/high)		km/hr (mph)	2.7/5.2 (1.7/3.2)
Swing speed		rpm	9.5
Gradeability		Degree (%)	30 (58)
Ground pressure (450 mm shoe)		kgf/cm ² (psi)	0.40 (5.72)
Max traction force		kg (lb)	7580 (16700)

3. WORKING RANGE

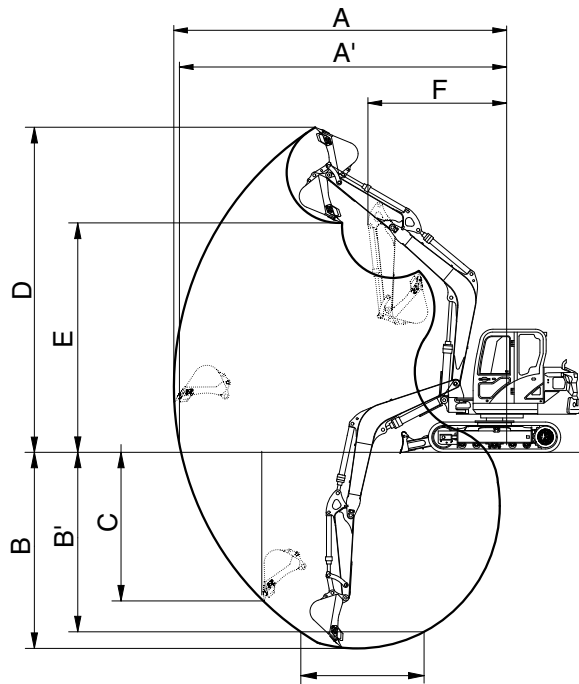
1) HX85A, MONO BOOM



85A0SP03

Description	m (ft-in)	Boom	3.55 (11' 8")	
		Arm	1.75 (5' 9")	2.10 (6' 11")
Max digging reach	mm (ft-in)	A	7090 (23' 3")	7420 (24' 4")
Max digging reach on ground		A'	6940 (22' 8")	7280 (23' 9")
Max digging depth		B	4240 (13' 9")	4590 (15' 0")
Max digging depth (8 ft level)		B'	3880 (12' 7")	4270 (14' 0")
Max vertical wall digging depth		C	3660 (12' 0")	4010 (13' 2")
Max digging height		D	7035 (23' 0")	7290 (23' 9")
Max dumping height		E	5000 (16' 4")	5250 (17' 3")
Min swing radius		F	2560 (8' 4")	2770 (9' 10")
Boom swing radius (left/right)		70°/60°		
Bucket digging force	kN	SAE	52.9	52.9
	kgf		5389	5389
	lbf		11882	11882
	kN	ISO	61.5	61.5
	kgf		6268	6268
	lbf		13819	13819
Arm digging force	kN	SAE	39.7	35.8
	kgf		4042	3646
	lbf		8911	8038
	kN	ISO	41.4	37.1
	kgf		4222	3787
	lbf		9307	8348

2) HX85A, 2PCS BOOM



85A0SP03

Description	m (ft-in)	Boom	3.92 (12' 10")	
		Arm	1.75 (5' 9")	2.10 (6' 11")
Max digging reach	mm (ft-in)	A	7550 (24' 8")	7890 (25' 9")
Max digging reach on ground		A'	7400 (24' 3")	7750 (25' 5")
Max digging depth		B	4260 (13' 9")	4610 (15' 2")
Max digging depth (8 ft level)		B'	4100 (13' 5")	4460 (14' 7")
Max vertical wall digging depth		C	3840 (12' 6")	4185 (13' 8")
Max digging height		D	7910 (25' 9")	8230 (27' 0")
Max dumping height		E	5870 (19' 3")	6195 (20' 4")
Min swing radius		F	2470 (8' 10")	2780 (9' 2")
Boom swing radius (left/right)		70°/60°		
Bucket digging force	kN	SAE	52.9	52.9
	kgf		5389	5389
	lbf		11882	11882
	kN	ISO	61.5	61.5
	kgf		6268	6268
	lbf		13819	13819
Arm digging force	kN	SAE	39.7	35.8
	kgf		4042	3646
	lbf		8911	8038
	kN	ISO	41.4	37.1
	kgf		4222	3787
	lbf		9307	8348

4. WEIGHT

Item	kg	lb
Upperstructure assembly		
· Main frame weld assembly	790	1740
· Engine assembly	270	600
· Main pump assembly	32	70
· Main control valve assembly	90	200
· Swing motor assembly	80	170
· Hydraulic oil tank assembly	76	168
· Fuel tank assembly	57	126
· Boom swing post	225	500
· Counterweight	1006	2220
· Cab assembly	332	730
Lower chassis assembly		
· Track frame weld assembly	858	1890
· Swing bearing	155	340
· Travel motor assembly	85	190
· Turning joint	26	57
· Track recoil spring	123	271
· Idler	130	290
· Carrier roller	14	31
· Track roller	160	360
· Track-chain assembly (450 mm standard triple grouser shoe)	858	1890
· Dozer blade assembly	337	740
Front attachment assembly (3.55 m boom, 1.75 m arm, 0.25 m ³ SAE heaped bucket)		
· 3.55 m boom assembly	405	890
· 1.75 m arm assembly	167	370
· 0.25 m ³ SAE heaped bucket	188	410
· Boom cylinder assembly	113	249
· Arm cylinder assembly	67	150
· Bucket cylinder assembly	60	130
· Dozer cylinder assembly	64	141
· Bucket control link assembly	80	180
· Boom swing cylinder assembly	66	150
· Angle dozer cylinder assembly	63	139
· Dozer cylinder assembly (for angle)	64	141
· Adjust cylinder assembly	65	143
· Angle blade assembly	485	1070

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

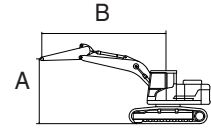
※ Refer to Transportation for actual weight information and Specifications for operating weight.











5. LIFTING CAPACITIES

Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3550	1750	1000	450	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg lb									*2280 *5030	*2280 *5030	3.21 (10.5)
4.5 m (14.8 ft)	kg lb					*1890 *4170	1860 4100			*1910 *4210	1540 3400	5.02 (16.5)
3.0 m (9.8 ft)	kg lb			*2970 *6550	*2970 *6550	*2140 *4720	1800 3970			*1820 *4210	1210 2670	5.81 (19.1)
1.5 m (4.9 ft)	kg lb					*2620 *5780	1700 3750	*1970 *4340	1120 2470	*1930 *4250	1100 2430	6.06 (19.9)
Ground Line	kg lb			3620 7980	2960 6530	*2870 *6330	1630 3590			*2010 *4430	1130 2490	5.87 (19.2)
-1.5 m (-4.9 ft)	kg lb	*3910 *8620	*3910 *8620	4210 9280	2990 6590	*2590 *5710	1630 3590			*2040 *4500	1360 3000	5.16 (16.9)
-3.0 m (-9.8 ft)	kg lb			*2290 *5050	*2290 *5050					*1750 *3860	*1750 *3860	3.57 (11.7)

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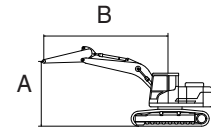
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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

Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3550	1750	1000	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg									*2280	*2280	3.21 (10.5)
	lb									*5030	*5030	
4.5 m (14.8 ft)	kg					*1890	1710			1720	1420	5.02 (16.5)
	lb					*4170	3770			3790	3130	
3.0 m (9.8 ft)	kg			*2970	*2970	2020	1660			1340	1110	5.81 (19.1)
	lb			*6550	*6550	4450	3660			2950	2450	
1.5 m (4.9 ft)	kg					1910	1560	1240	1030	1220	1010	6.06 (19.9)
	lb					4210	3440	2730	2270	2690	2230	
Ground Line	kg			3460	2680	1840	1500			1260	1040	5.87 (19.2)
	lb			7630	5910	4060	3310			2780	2290	
-1.5 m (-4.9 ft)	kg	*3910	*3910	3490	2710	1840	1490			1520	1240	5.16 (16.9)
	lb	*8620	*8620	7690	5970	4060	3280			3350	2730	
-3.0 m (-9.8 ft)	kg			*2290	*2290					*1750	*1750	3.57 (11.7)
	lb			*5050	*5050					*3860	*3860	

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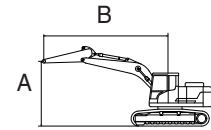
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3550	1750	1150	450	-	Down	-	-	-

·  : Rating over-front

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Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg									*2280	*2280	3.21 (10.5)
	lb									*5030	*5030	
4.5 m (14.8 ft)	kg					*1890	*1890			*1910	1620	5.02 (16.5)
	lb					*4170	*4170			*4210	3570	
3.0 m (9.8 ft)	kg			*2970	*2970	*2140	1880			*1820	1270	5.81 (19.1)
	lb			*6550	*6550	*4720	4140			*4010	2800	
1.5 m (4.9 ft)	kg					*2620	1780	*1970	1180	*1930	1160	6.06 (19.9)
	lb					*5780	3920	*4340	2600	*4250	2560	
Ground Line	kg			*3620	3110	*2870	1720			*2010	1190	5.87 (19.2)
	lb			*7980	6860	*6330	3790			*4430	2620	
-1.5 m (-4.9 ft)	kg	*3910	*3910	*4210	3130	*2590	1710			*2040	1430	5.16 (16.9)
	lb	*8620	*8620	*9280	6900	*5710	3770			*4500	3150	
-3.0 m (-9.8 ft)	kg			*2290	*2290					*1750	*1750	3.57 (11.7)
	lb			*5050	*5050					*3860	*3860	

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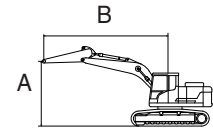
▲ Failure to comply to the rated load can cause possible personal injury or property damage.











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Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3550	1750	1150	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg									*2280	*2280	3.21 (10.5)
	lb									*5030	*5030	
4.5 m (14.8 ft)	kg				*1890	1790				1800	1490	5.02 (16.5)
	lb				*4170	3950				3970	3280	
3.0 m (9.8 ft)	kg			*2970	*2970	2110	1740			1400	1170	5.81 (19.1)
	lb			*6550	*6550	4650	3840			3090	2580	
1.5 m (4.9 ft)	kg				2000	1640	1310	1090		1290	1070	6.06 (19.9)
	lb				4410	3620	2890	2400		2840	2360	
Ground Line	kg			*3620	2820	1930	1580			1330	1100	5.87 (19.2)
	lb			*7980	6220	4250	3480			2930	2430	
-1.5 m (-4.9 ft)	kg	*3910	*3910	3660	2850	1930	1570			1590	1310	5.16 (16.9)
	lb	*8620	*8620	8070	6280	4250	3460			3510	2890	
-3.0 m (-9.8 ft)	kg			*2290	*2290					*1750	*1750	3.57 (11.7)
	lb			*5050	*5050					*3860	*3860	

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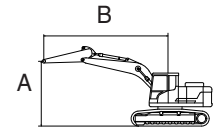
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


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Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3550	2100	1150	450	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg									*1930	*1930	3.88 (12.7)
	lb									*4250	*4250	
4.5 m (14.8 ft)	kg					*1660	*1660			*1630	1430	5.43 (17.8)
	lb					*3660	*3660			*3590	3150	
3.0 m (9.8 ft)	kg			*2480	*2480	*1950	1900	*1760	1210	*1560	1150	6.15 (20.2)
	lb			*5470	*5470	*4300	4190	*3880	2670	*3440	2540	
1.5 m (4.9 ft)	kg			*4440	3250	*2480	1790	*1890	1170	*1650	1060	6.39 (21.0)
	lb			*9790	7170	*5470	3950	*4170	2580	*3640	2340	
Ground Line	kg			*3720	3090	*2830	1710	*1960	1140	*1860	1090	6.21 (20.4)
	lb			*8200	6810	*6240	3770	*4320	2510	*4100	2400	
-1.5 m (-4.9 ft)	kg	*3290	*3290	*4490	3090	*2690	1690			*1910	1270	5.56 (18.2)
	lb	*7250	*7250	*9900	6810	*5930	3730			*4210	2800	
-3.0 m (-9.8 ft)	kg			*2950	*2950					*1810	*1810	4.16 (13.7)
	lb			*6500	*6500					*3990	*3990	

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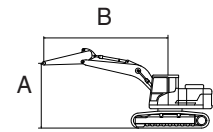
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
Make adjustments to the rated load as necessary for non-standard configurations.

Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3550	2100	1150	450	-	Up	-	-	-

·  : Rating over-front

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Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg									*1930	*1930	3.88 (12.7)
	lb									*4250	*4250	
4.5 m (14.8 ft)	kg				*1660	*1660				1590	1320	5.43 (17.8)
	lb				*3660	*3660				3510	2910	
3.0 m (9.8 ft)	kg			*2480	*2480	*1950	1750	1340	1110	1280	1070	6.15 (20.2)
	lb			*5470	*5470	*4300	3860	2950	2450	2820	2360	
1.5 m (4.9 ft)	kg			3790	2960	2010	1650	1300	1080	1180	980	6.39 (21.0)
	lb			8360	6530	4430	3640	2870	2380	2600	2160	
Ground Line	kg			3620	2800	1920	1570	1270	1050	1210	1000	6.21 (20.4)
	lb			7980	6170	4230	3460	2800	2310	2670	2200	
-1.5 m (-4.9 ft)	kg	*3290	*3290	3620	2800	1900	1550			1420	1170	5.56 (18.2)
	lb	*7250	*7250	7980	6170	4190	3420			3130	2580	
-3.0 m (-9.8 ft)	kg			*2950	2890					*1810	1790	4.16 (13.7)
	lb			*6500	6370					*3990	3950	

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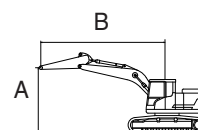
▲ Failure to comply to the rated load can cause possible personal injury or property damage.









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Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3917	1750	1150	450	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg	*2750	*2750					*2450	2120	4.11
	lb	*6060	*6060					*5400	4670	(13.5)
4.5 m (14.8 ft)	kg	*2580	*2580	*2150	1860			*1960	1270	5.58
	lb	*5690	*5690	*4740	4100			*4320	2800	(18.3)
3.0 m (9.8 ft)	kg			*2410	1760	*1860	1120	*1790	1030	6.29
	lb			*5310	3880	*4100	2470	*3950	2270	(20.6)
1.5 m (4.9 ft)	kg			*2720	1630	*1900	1070	*1680	950	6.52
	lb			*6000	3590	*4190	2360	*3700	2090	(21.4)
Ground Line	kg			*2660	1550	*1770	1050	*1550	970	6.34
	lb			*5860	3420	*3900	2310	*3420	2140	(20.8)
-1.5 m (-4.9 ft)	kg	*2910	2890	*2110	1550			*1300	1140	5.71
	lb	*6420	6370	*4650	3420			*2870	2510	(18.7)
-3.0 m (-9.8 ft)	kg									
	lb									

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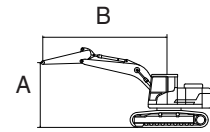
▲ Failure to comply to the rated load can cause possible personal injury or property damage.









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

Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3917	1750	1150	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg	*2750	*2750					2400	1950	4.11
	lb	*6060	*6060					5290	4300	(13.5)
4.5 m (14.8 ft)	kg	*2580	*2580	2090	1710			1430	1170	5.58
	lb	*5690	*5690	4610	3770			3150	2580	(18.3)
3.0 m (9.8 ft)	kg			1990	1620	1250	1020	1150	940	6.29
	lb			4390	3570	2760	2250	2540	2070	(20.6)
1.5 m (4.9 ft)	kg			1850	1490	1210	980	1060	860	6.52
	lb			4080	3280	2670	2160	2340	1900	(21.4)
Ground Line	kg			1770	1410	1180	950	1090	890	6.34
	lb			3900	3110	2600	2090	2400	1960	(20.8)
-1.5 m (-4.9 ft)	kg	*2910	2600	1770	1410			1280	1040	5.71
	lb	*6420	5730	3900	3110			2820	2290	(18.7)
-3.0 m (-9.8 ft)	kg									
	lb									

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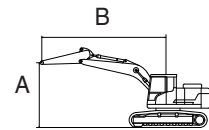
▲ Failure to comply to the rated load can cause possible personal injury or property damage.









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

Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3917	2100	1150	450	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg			*2110	1860			*2070	1730	4.68
	lb			*4650	4100			*4560	3810	(15.3)
4.5 m (14.8 ft)	kg			*1990	1880			*1690	1140	5.99
	lb			*4390	4140			*3730	2510	(19.6)
3.0 m (9.8 ft)	kg			*2280	1780	*1790	1120	*1600	940	6.64
	lb			*5030	3920	*3950	2470	*3530	2070	(21.8)
1.5 m (4.9 ft)	kg			*2640	1640	*1870	1070	*1560	870	6.86
	lb			*5820	3620	*4120	2360	*3440	1920	(22.5)
Ground Line	kg			*2690	1540	*1820	1030	*1450	890	6.69
	lb			*5930	3400	*4010	2270	*3200	1960	(22.0)
-1.5 m (-4.9 ft)	kg	*3350	2830	*2270	1530	*1360	1040	*1250	1020	6.10
	lb	*7390	6240	*5000	3370	*3000	2290	*2760	2250	(20.0)
-3.0 m (-9.8 ft)	kg	*1670	*1670	*1100	*1100			*750	*750	4.90
	lb	*3680	*3680	*2430	*2430			*1650	*1650	(16.1)

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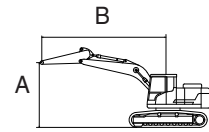
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






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Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
2 PCS BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	3917	2100	1150	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg			2090	1710			1940	1590	4.68
	lb			4610	3770			4280	3510	(15.3)
4.5 m (14.8 ft)	kg			*1990	1740			1270	1040	5.99
	lb			*4390	3840			2800	2290	(19.6)
3.0 m (9.8 ft)	kg			2020	1640	1260	1030	1050	860	6.64
	lb			4450	3620	2780	2270	2310	1900	(21.8)
1.5 m (4.9 ft)	kg			1860	1500	1210	980	980	790	6.86
	lb			4100	3310	2670	2160	2160	1740	(22.5)
Ground Line	kg			1760	1400	1160	940	1000	810	6.69
	lb			3880	3090	2560	2070	2200	1790	(22.0)
-1.5 m (-4.9 ft)	kg	*3350	2550	1750	1390	1170	940	1150	930	6.10
	lb	*7390	5620	3860	3060	2580	2070	2540	2050	(20.0)
-3.0 m (-9.8 ft)	kg	*1670	*1670	*1100	*1100			*750	*750	4.90
	lb	*3680	*3680	*2430	*2430			*1650	*1650	(16.1)

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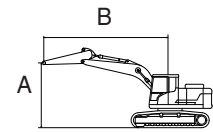
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








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Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
MONO BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3550	1750	1000	450	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg lb									*2280 *5030	*2280 *5030	3.21 (10.5)
4.5 m (14.8 ft)	kg lb					*1890 *4170	1870 4120			*1910 *4210	1550 3420	5.02 (16.5)
3.0 m (9.8 ft)	kg lb			*2970 *6550	*2970 *6550	*2140 *4720	1810 3990			*1820 *4010	1220 2690	5.81 (19.1)
1.5 m (4.9 ft)	kg lb					*2620 *5780	1710 3770	*1970 *4340	1130 2490	*1930 *4250	1110 2450	6.06 (19.9)
Ground Line	kg lb			*3620 *7980	2980 6570	*2870 *6330	1650 3640			*2010 *4430	1140 2510	5.87 (19.2)
-1.5 m (-4.9 ft)	kg lb	*3910 *8620	*3910 *8620	*4210 *9280	3000 6610	*2590 *5710	1640 3620			*2040 *4500	1370 3020	5.16 (16.9)
-3.0 m (-9.8 ft)	kg lb			*2290 *5050	*2290 *5050					*1750 *3860	*1750 *3860	3.57 (11.7)

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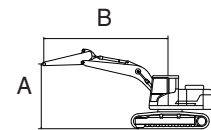
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




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Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
MONO BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3550	1750	1000	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg									*2280	*2280	3.21
	lb									*5030	*5030	(10.5)
4.5 m (14.8 ft)	kg					*1890	1740			1740	1450	5.02
	lb					*4170	3840			3840	3200	(16.5)
3.0 m (9.8 ft)	kg			*2970	*2970	2040	1690			1360	1130	5.81
	lb			*6550	*6550	4500	3730			3000	2490	(19.1)
1.5 m (4.9 ft)	kg					1940	1590	1260	1050	1240	1030	6.06
	lb					4280	3510	2780	2310	2730	2270	(19.9)
Ground Line	kg			3510	2730	1870	1520			1280	1060	5.87
	lb			7740	6020	4120	3350			2820	2340	(19.2)
-1.5 m (-4.9 ft)	kg	*3910	*3910	3540	2750	1860	1520			1540	1270	5.16
	lb	*8620	*8620	7800	6060	4100	3350			3400	2800	(16.9)
-3.0 m (-9.8 ft)	kg			*2290	*2290					*1750	*1750	3.57
	lb			*5050	*5050					*3860	*3860	(11.7)

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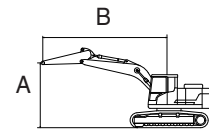
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Make adjustments to the rated load as necessary for non-standard configurations.

Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
MONO BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3550	1750	1150	450	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg									*2280	*2280	3.21
	lb									*5030	*5030	(10.5)
4.5 m (14.8 ft)	kg					*1890	*1890			*1910	1630	5.02
	lb					*4170	*4170			*4210	3590	(16.5)
3.0 m (9.8 ft)	kg			*2970	*2970	*2140	1900			*1820	1280	5.81
	lb			*6550	*6550	*4720	4190			*4010	2820	(19.1)
1.5 m (4.9 ft)	kg					*2620	1800	*1970	1190	*1930	1170	6.06
	lb					*5780	3970	*4340	2620	*4250	2580	(19.9)
Ground Line	kg			*3620	3130	*2870	1730			*2010	1200	5.87
	lb			*7980	6900	*6330	3810			*4430	2650	(19.2)
-1.5 m (-4.9 ft)	kg	*3910	*3910	*4210	3150	*2590	1720			*2040	1440	5.16
	lb	*8620	*8620	*9280	6940	*5710	3790			*4500	3170	(16.9)
-3.0 m (-9.8 ft)	kg			*2290	*2290					*1750	*1750	3.57
	lb			*5050	*5050					*3860	*3860	(11.7)

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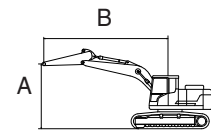
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




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Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
MONO BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3550	1750	1150	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg									*2280	*2280	3.21
	lb									*5030	*5030	(10.5)
4.5 m (14.8 ft)	kg					*1890	1820			1820	1520	5.02
	lb					*4170	4010			4010	3350	(16.5)
3.0 m (9.8 ft)	kg			*2970	*2970	2130	1770			1420	1190	5.81
	lb			*6550	*6550	4700	3900			3130	2620	(19.1)
1.5 m (4.9 ft)	kg					2030	1670	1330	1100	1300	1090	6.06
	lb					4480	3680	2930	2430	2870	2400	(19.9)
Ground Line	kg			*3620	2870	1960	1600			1350	1120	5.87
	lb			*7980	6330	4320	3530			2980	2470	(19.2)
-1.5 m (-4.9 ft)	kg	*3910	*3910	3710	2890	1950	1600			1620	1330	5.16
	lb	*8620	*8620	8180	6370	4300	3530			3570	2930	(16.9)
-3.0 m (-9.8 ft)	kg			*2290	*2290					*1750	*1750	3.57
	lb			*5050	*5050					*3860	*3860	(11.7)

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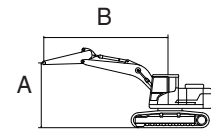
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








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Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
MONO BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3550	2100	1150	450	-	Down	-	-	-

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Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg lb									*1930 *4250	*1930 *4250	3.88 (12.7)
4.5 m (14.8 ft)	kg lb					*1660 *3660	*1660 *3660			*1630 *3590	1440 3170	5.43 (17.8)
3.0 m (9.8 ft)	kg lb			*2480 *5470	*2480 *5470	*1950 *4300	1910 4210	*1760 *3880	1220 2690	*1560 *3440	1160 2560	6.15 (20.2)
1.5 m (4.9 ft)	kg lb			*4440 *9790	3270 7210	*2480 *5470	1800 3970	*1890 *4170	1180 2600	*1650 *3640	1070 2360	6.39 (21.0)
Ground Line	kg lb			*3720 *8200	3110 6860	*2830 *6240	1720 3790	*1960 *4320	1150 2540	*1860 *4100	1100 2430	6.21 (20.4)
-1.5 m (-4.9 ft)	kg lb	*3290 *7250	*3290 *7250	*4490 *9900	3110 6860	*2690 *5930	1700 3750			*1910 *4210	1280 2820	5.56 (18.2)
-3.0 m (-9.8 ft)	kg lb			*2950 *6500	*2950 *6500					*1810 *3990	*1810 *3990	4.16 (13.7)

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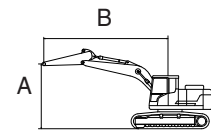
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








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

Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
MONO BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3550	2100	1150	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height		Load radius								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach m (ft)
												
6.0 m (19.7 ft)	kg lb									*1930 *4250	*1930 *4250	3.88 (12.7)
4.5 m (14.8 ft)	kg lb					*1660 *3660	*1660 *3660			1610 3550	1340 2950	5.43 (17.8)
3.0 m (9.8 ft)	kg lb			*2480 *5470	*2480 *5470	*1950 *4300	1780 3920	1360 3000	1130 2490	1300 2870	1080 2380	6.15 (20.2)
1.5 m (4.9 ft)	kg lb			3840 8470	3000 6610	2040 4500	1670 3680	1320 2910	1100 2430	1200 2650	1000 2200	6.39 (21.0)
Ground Line	kg lb			3670 8090	2850 6280	1950 4300	1590 3510	1290 2840	1070 2360	1230 2710	1020 2250	6.21 (20.4)
-1.5 m (-4.9 ft)	kg lb	*3290 *7250	*3290 *7250	3670 8090	2850 6280	1930 4250	1570 3460			1440 3170	1190 2620	5.56 (18.2)
-3.0 m (-9.8 ft)	kg lb			*2950 *6500	2930 6460					*1810 *3990	*1810 *3990	4.16 (13.7)

※ Note

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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.

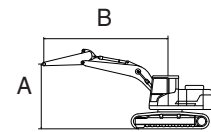
▲ Failure to comply to the rated load can cause possible personal injury or property damage.









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

Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
2 PCS BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3917	1750	1150	450	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg	*2750	*2750					*2450	2160	4.11
	lb	*6060	*6060					*5400	4760	(13.5)
4.5 m (14.8 ft)	kg	*2580	*2580	*2150	1900			*1960	1310	5.58
	lb	*5690	*5690	*4740	4190			*4320	2890	(18.3)
3.0 m (9.8 ft)	kg			*2410	1800	*1860	1140	*1790	1050	6.29
	lb			*5310	3970	*4100	2510	*3950	2310	(20.6)
1.5 m (4.9 ft)	kg			*2720	1670	*1900	1100	*1680	970	6.52
	lb			*6000	3680	*4190	2430	*3700	2140	(21.4)
Ground Line	kg			*2660	1590	*1770	1070	*1550	1000	6.34
	lb			*5860	3510	*3900	2360	*3420	2200	(20.8)
-1.5 m (-4.9 ft)	kg	*2910	*2910	*2110	1600			*1300	1170	5.71
	lb	*6420	*6420	*4650	3530			*2870	2580	(18.7)
-3.0 m (-9.8 ft)	kg									
	lb									

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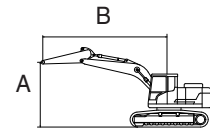
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






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

Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
2 PCS BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3917	1750	1150	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height								At max. reach			
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach	
										m (ft)	
6.0 m (19.7 ft)	kg	*2750	*2750					2450	2010	4.11	
	lb	*6060	*6060					5400	4430	(13.5)	
4.5 m (14.8 ft)	kg	*2580	*2580	2130	1760			1460	1210	5.58	
	lb	*5690	*5690	4700	3880			3220	2670	(18.3)	
3.0 m (9.8 ft)	kg			2030	1670	1280	1060	1180	970	6.29	
	lb			4480	3680	2820	2340	2600	2140	(20.6)	
1.5 m (4.9 ft)	kg			1890	1540	1230	1020	1090	900	6.52	
	lb			4170	3400	2710	2250	2400	1980	(21.4)	
Ground Line	kg			1810	1460	1200	990	1120	920	6.34	
	lb			3990	3220	2650	2180	2470	2030	(20.8)	
-1.5 m (-4.9 ft)	kg	*2910	2690	1810	1470			*1300	1080	5.71	
	lb	*6420	5930	3990	3240			*2870	2380	(18.7)	
-3.0 m (-9.8 ft)	kg										
	lb										

※ Note

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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.

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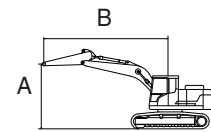
▲ Failure to comply to the rated load can cause possible personal injury or property damage.









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

Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
2 PCS BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3917	2100	1150	450	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg			*2110	1900			*2070	1760	4.68
	lb			*4650	4190			*4560	3880	(15.3)
4.5 m (14.8 ft)	kg			*1990	1920			*1690	1170	5.99
	lb			*4390	4230			*3730	2580	(19.6)
3.0 m (9.8 ft)	kg			*2280	1820	*1790	1150	*1600	960	6.64
	lb			*5030	4010	*3950	2540	*3530	2120	(21.8)
1.5 m (4.9 ft)	kg			*2640	1680	*1870	1100	*1560	890	6.86
	lb			*5820	3700	*4120	2430	*3440	1960	(22.5)
Ground Line	kg			*2690	1580	*1820	1060	*1450	910	6.69
	lb			*5930	3480	*4010	2340	*3200	2010	(22.0)
-1.5 m (-4.9 ft)	kg	*3350	2900	*2270	1570	*1360	1060	*1250	1050	6.10
	lb	*7390	6390	*5000	3460	*3000	2340	*2760	2310	(20.0)
-3.0 m (-9.8 ft)	kg	*1670	*1670	*1100	*1100			*750	*750	4.90
	lb	*3680	*3680	*2430	*2430			*1650	*1650	(16.1)

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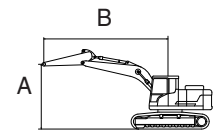
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






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

Type		Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
2 PCS BOOM	ANGLE BLADE	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		3917	2100	1150	450	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Load point height								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
6.0 m (19.7 ft)	kg			*2110	1760			1980	1640	4.68
	lb			*4650	3880			4370	3620	(15.3)
4.5 m (14.8 ft)	kg			*1990	1790			1300	1080	5.99
	lb			*4390	3950			2870	2380	(19.6)
3.0 m (9.8 ft)	kg			2050	1690	1280	1060	1070	890	6.64
	lb			4520	3730	2820	2340	2360	1960	(21.8)
1.5 m (4.9 ft)	kg			1900	1550	1230	1010	1000	820	6.86
	lb			4190	3420	2710	2230	2200	1810	(22.5)
Ground Line	kg			1800	1450	1190	970	1020	840	6.69
	lb			3970	3200	2620	2140	2250	1850	(22.0)
-1.5 m (-4.9 ft)	kg	*3350	2640	1780	1440	1200	980	1170	960	6.10
	lb	*7390	5820	3920	3170	2650	2160	2580	2120	(20.0)
-3.0 m (-9.8 ft)	kg	*1670	*1670	*1100	*1100			*750	*750	4.90
	lb	*3680	*3680	*2430	*2430			*1650	*1650	(16.1)

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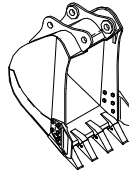
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Make adjustments to the rated load as necessary for non-standard configurations.

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET



0.25, 0.28 m³ SAE heaped bucket

Capacity		Width		Weight	Tooth	Recommendation				
						3.55 m (11' 8") Mono boom		3.92 m (12' 10") Mono boom		
SAE heaped	CECE heaped	Without side cutter	With side cutter				1.75 m arm (5' 9")	2.10 m arm (6' 11")	1.75 m arm (5' 9")	2.10 m arm (6' 11")
0.25 m ³ (0.33 yd ³)	0.21 m ³ (0.27 yd ³)	672 mm (26.5")	796 mm (31.3")	188 kg (414 lb)	4 EA	●	●	●	◐	
0.28 m ³ (0.37 yd ³)	0.25 m ³ (0.33 yd ³)	672 mm (26.5")	830 mm (32.7")	250 kg (551 lb)	4 EA	●	◐	■	■	

※ : Standard bucket

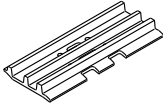
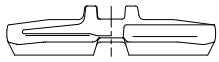
- Applicable for materials with density of 2100 kg/m³ (3540 lb/yd³) or less
- ◐ Applicable for materials with density of 1800 kg/m³ (3030 lb/yd³) or less
- Applicable for materials with density of 1500 kg/m³ (2530 lb/yd³) or less
- ▲ Applicable for materials with density of 1200 kg/m³ (2020 lb/yd³) or less
- × Not recommended

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

Shapes		Triple grouser		Rubber track
				
Shoe width	mm (in)	450 (18)	600 (24)	450 (18)
Operating weight	kg (lb)	8530 (18810)	8700 (19810)	8480 (18700)
Ground pressure	kgf/cm ² (psi)	0.38 (5.42)	0.29 (4.15)	0.38 (5.38)
Overall width	mm (ft-in)	2300 (7' 7")	2390 (7' 10")	2300 (7' 7")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1 EA
Track rollers	5 EA
Track shoes	40 EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Yanmar 4TNV98C
Type	4-cycle diesel engine, low emission
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	98 × 110 mm (3.86" × 4.33")
Piston displacement	3319 cc (203 cu in)
Compression ratio	18.3:1
Rated gross horse power (SAE J1995)	66.9 Hp at 2400 rpm (49.9 kW at 2400 rpm)
Maximum torque at 1350 rpm	24.6 kgf · m (178 lbf · ft)
Engine oil quantity	10.5 ℓ (2.8 U.S. gal)
Dry weight	278 kg (610 lb)
High idling speed	2550 ± 50 rpm
Low idling speed	1000 ± 50 rpm
Rated fuel consumption	233 g/Hp · hr at 2400 rpm
Starting motor	12 V-3 kW
Alternator	12 V-100 A
Battery	1 × 12 V × 100 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement piston pumps
Capacity	72 cc/rev
Maximum pressure	280 kgf/cm ² (3980 psi)
Rated oil flow	144 ℓ /min (38 U.S.gpm)
Rated speed	2000 rpm

3) GEAR PUMP (P4)

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	8 cc/rev
Maximum pressure	34 kgf/cm ² (479 psi)
Rated oil flow	16 ℓ /min (4.5 U.S.gpm/3.5 U.K.gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools sectional inline
Operating method	Hydraulic pilot system
Main relief valve pressure	280 kgf/cm ² (3980psi)
Overload relief valve pressure	310 kgf/cm ² (4410psi)

5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	43.4 cc/rev
Relief pressure	245 kgf/cm ² (3485 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	17 kgf · m (123 lbf · ft)
Brake release pressure	25~50 kgf/cm ² (356~711 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	286 kgf/cm ² (4068 psi)
Reduction gear type	2 stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	6.4 kgf/cm ² (91 psi)
Braking torque	18.5 kgf · m (134 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø120 × Ø70 × 865 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø100 × Ø60 × 860 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø90 × Ø55 × 685 mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø130 × Ø70 × 190 mm
	Cushion	-
Boom swing cylinder	Bore dia × Rod dia × Stroke	Ø110 × Ø60 × 707 mm
	Cushion	-
Angle dozer cylinder	Bore dia × Rod dia × Stroke	Ø140 × Ø70 × 180 mm
	Cushion	Ø100 × Ø60 × 461 mm

※ 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.

※ 2PCS Boom cylinder / Bore dia × Rod dia × Stroke / Ø95 × Ø55 × 550 mm

8) SHOE

Item	Width	Ground pressure	Link quantity	Overall width
Steel	450 mm (18")	0.38 kgf/cm ² (5.42 psi)	40	2300 mm (7' 7")
	600 mm (24")	0.29 kgf/cm ² (4.15 psi)	40	2390 mm (7' 10")
Rubber	450 mm (18")	0.38 kgf/cm ² (5.38 psi)	-	2300 mm (7' 7")

9) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
STD	0.25 m ³ (0.33yd ³)	0.21 m ³ (0.27yd ³)	4	730 mm (28.7")	800 mm (31.5")

9. RECOMMENDED OILS

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

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

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)						
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)
Engine oil pan	Engine oil	10.5 (2.8)	★SAE 5W-40						
			SAE 30						
			SAE 10W						
			SAE 10W-30						
			SAE 15W-40						
Final drive	Gear oil	1.1×2 (0.3×2)	★SAE 75W-90						
			SAE 80W-90						
Hydraulic tank	Hydraulic oil	Tank; 56 (14.8)	★ISO VG 15						
			ISO VG 32						
		System; 109 (28.8)	ISO VG 46, HBHO VG 46★ ³						
			ISO VG 68						
Fuel tank	Diesel fuel★ ¹	115 (30.4)	★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 50 : 50★ ²	13 (3.4)	Ethylene glycol base permanent type						
			★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 ≤ 15 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.

※ 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.