

SECTION 1 GENERAL



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SECTION 1 GENERAL

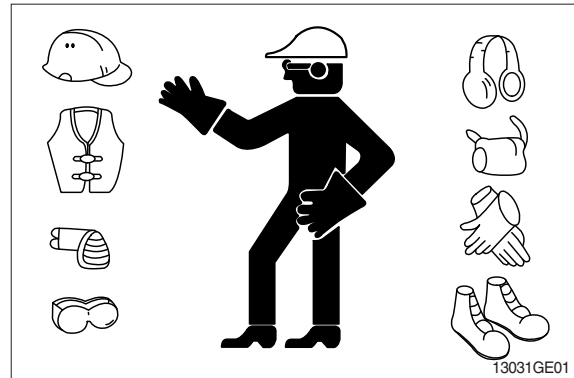
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

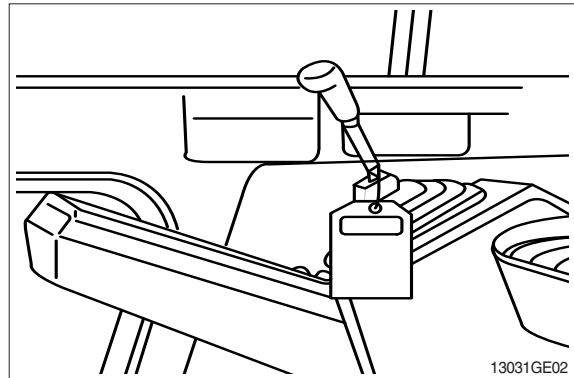
Wear close fitting clothing and safety equipment appropriate to the job.



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.



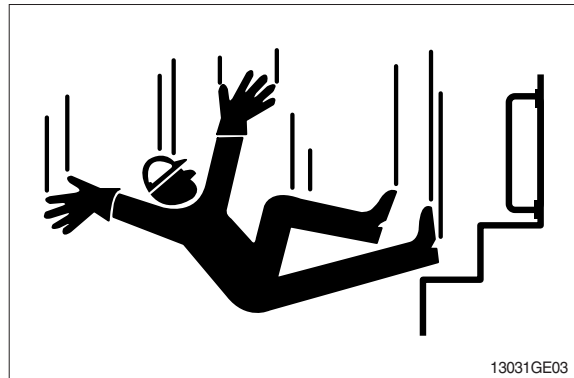
USE HANDHOLDS AND STEPS

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.

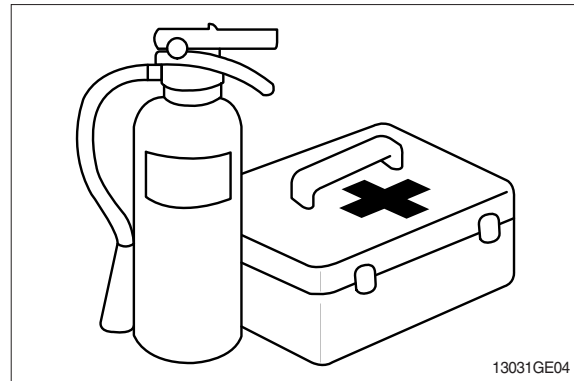


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

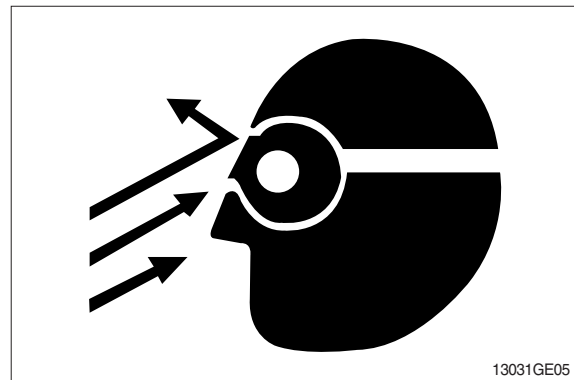
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

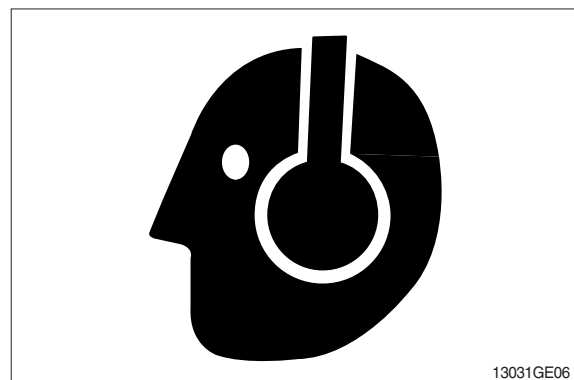
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

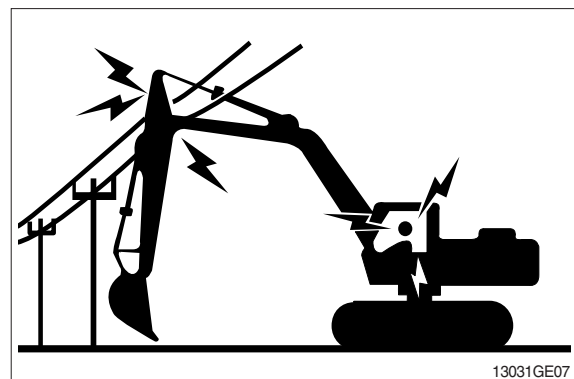
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

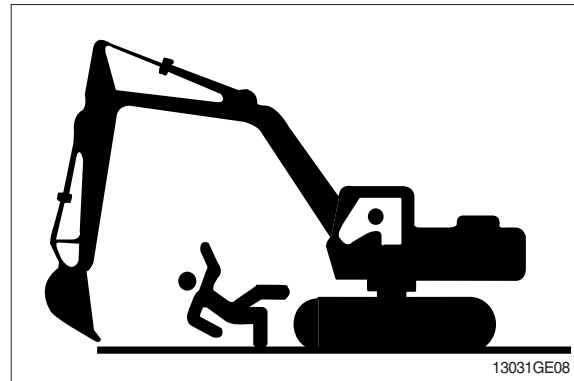
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

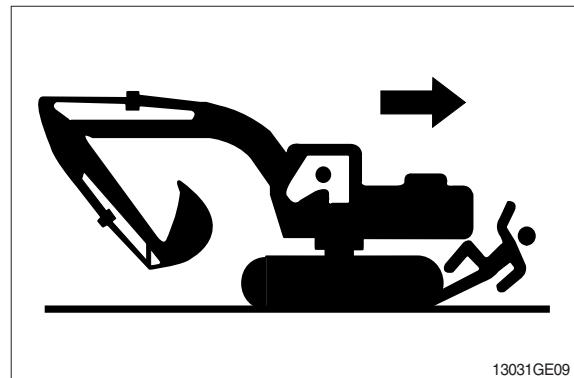


MOVE AND OPERATE MACHINE SAFELY

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:

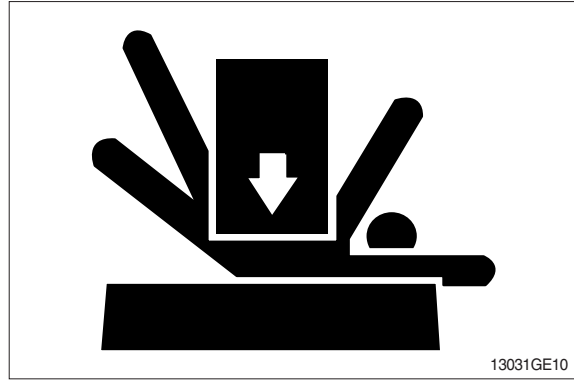
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine.
Remove key from switch.
- Move pilot control shutoff lever to locked position.
 - Allow engine to cool.

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.

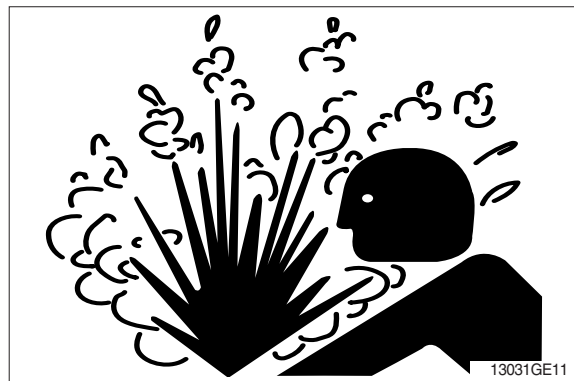
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



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

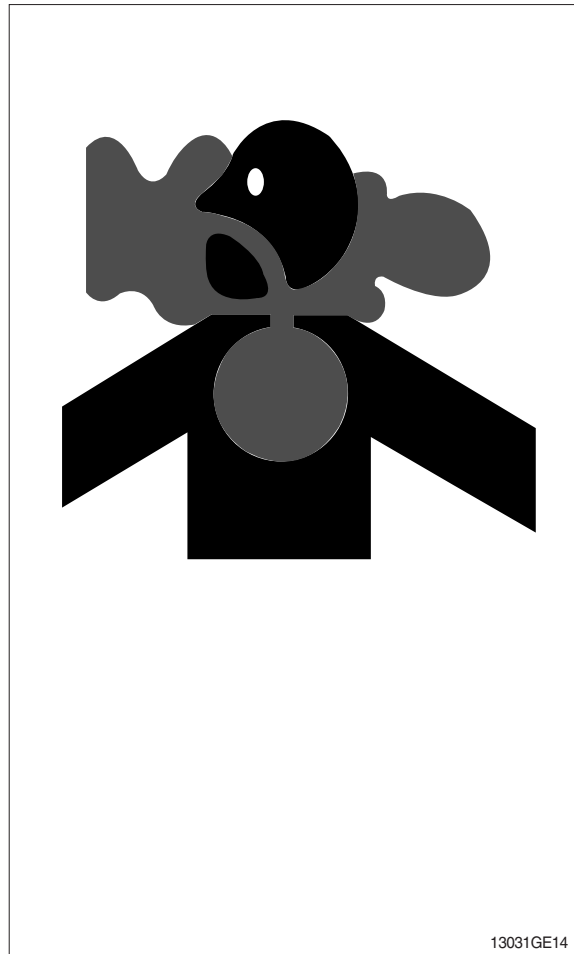
Avoid potentially toxic fumes and dust.

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.

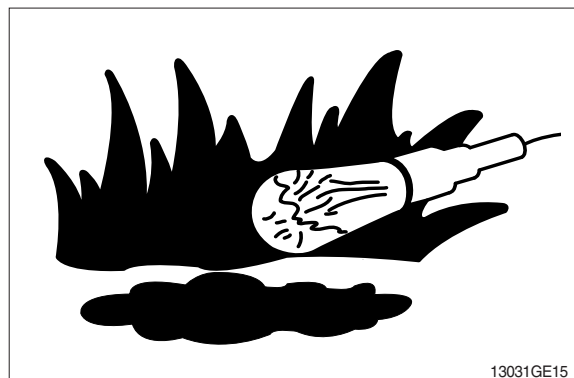
Remove paint before welding or heating:

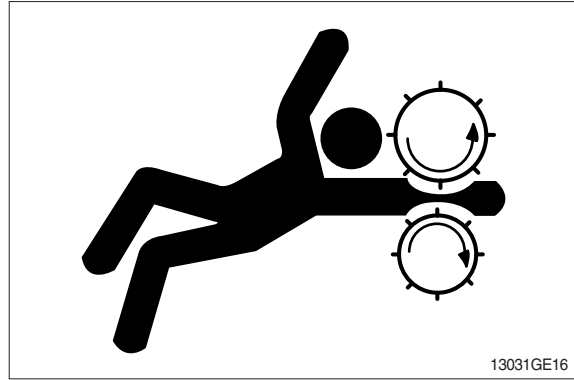
- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes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

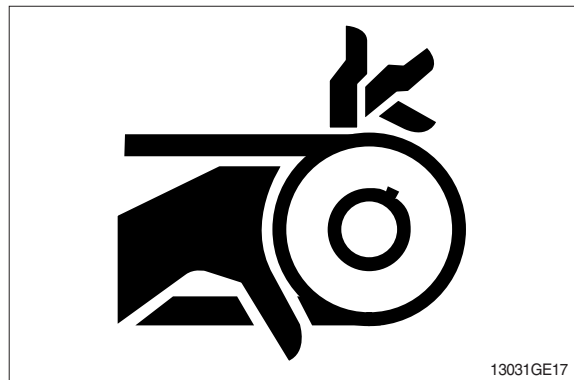




STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



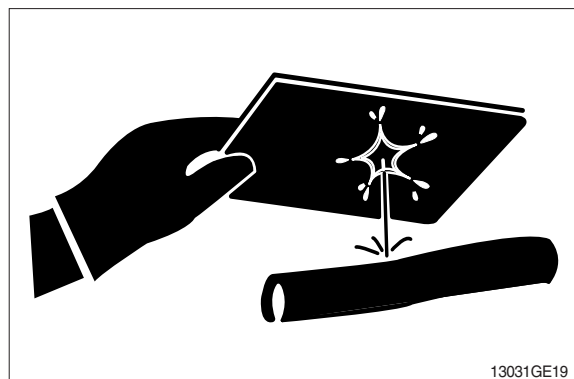
AVOID HIGH PRESSURE FLUIDS

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:

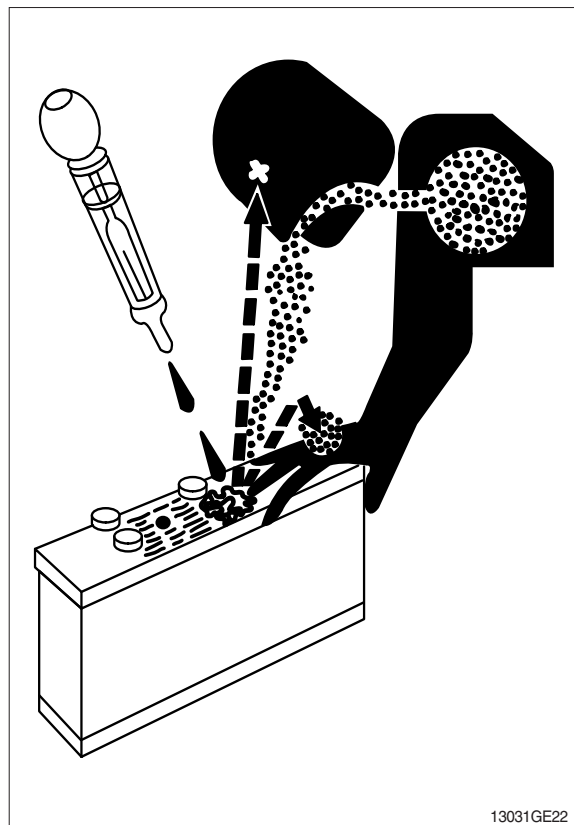
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



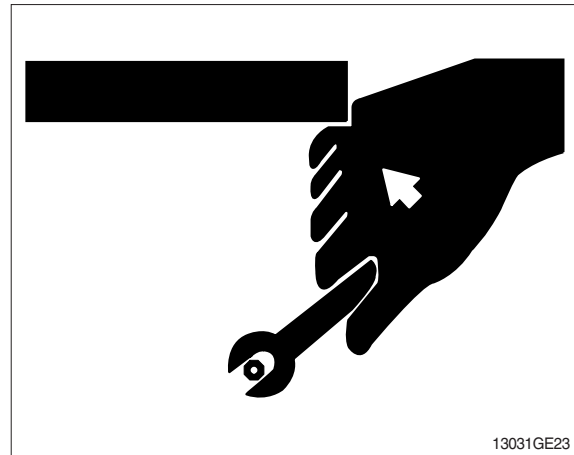
USE TOOLS PROPERLY

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.)

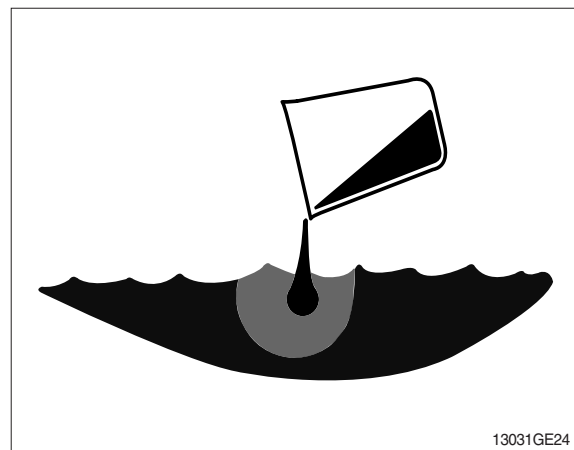


DISPOSE OF FLUIDS PROPERLY

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.

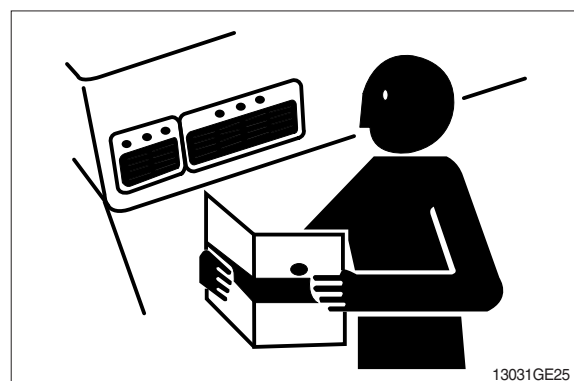
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

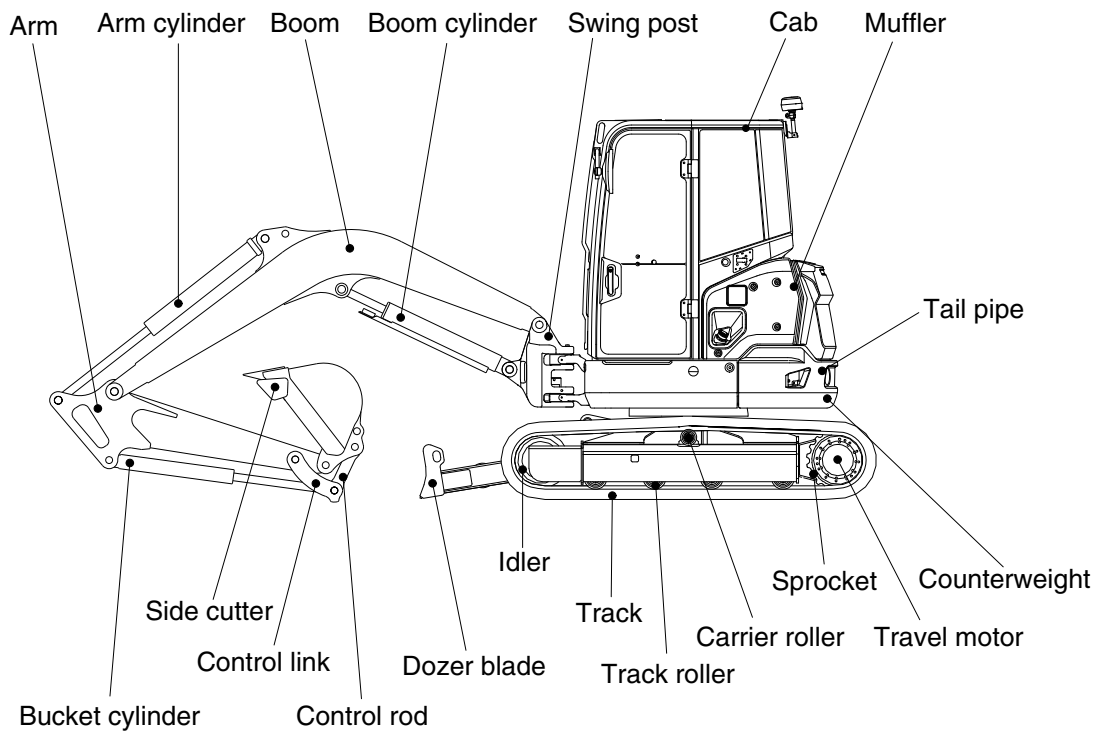
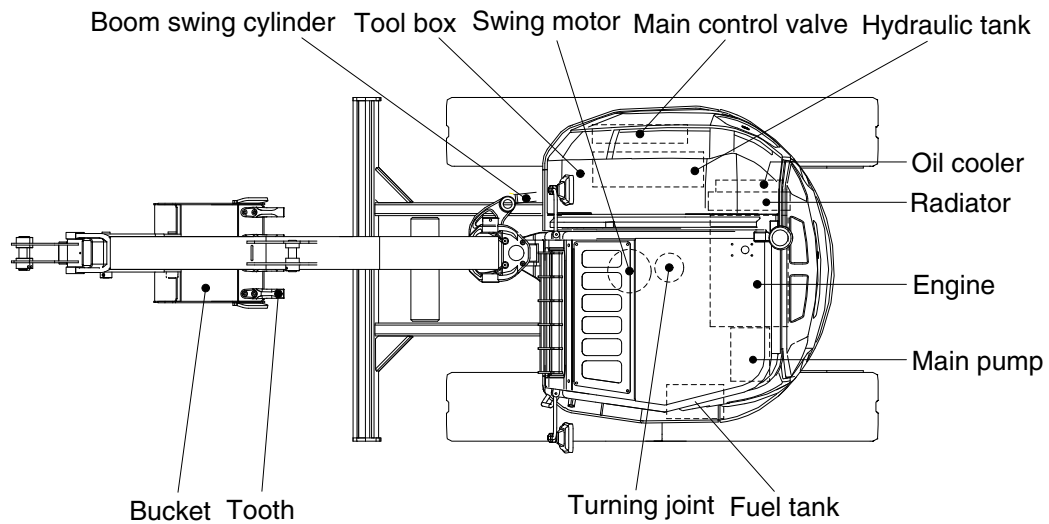


LIVE WITH SAFETY

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

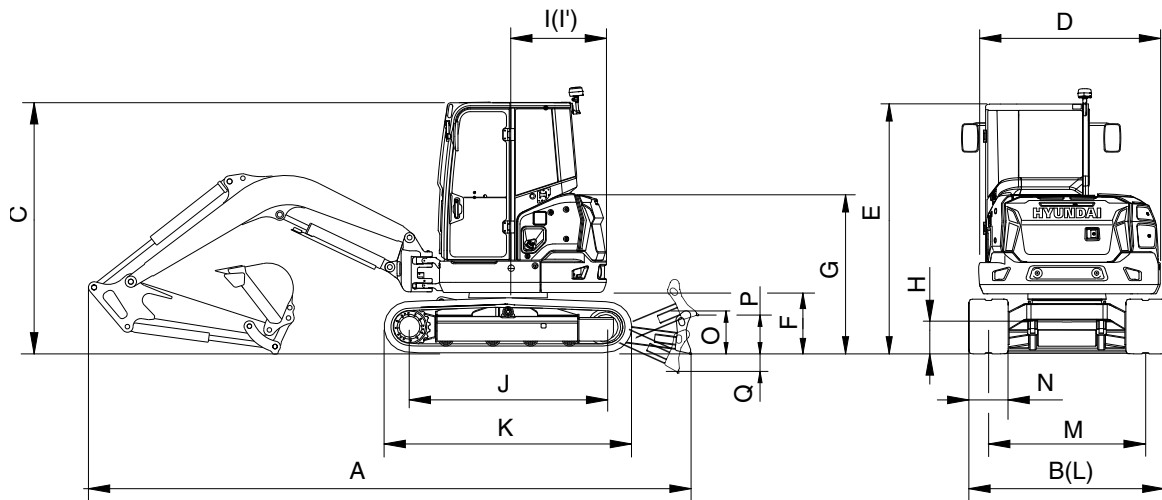


48AZ2SP01

2. SPECIFICATIONS

1) CAB TYPE

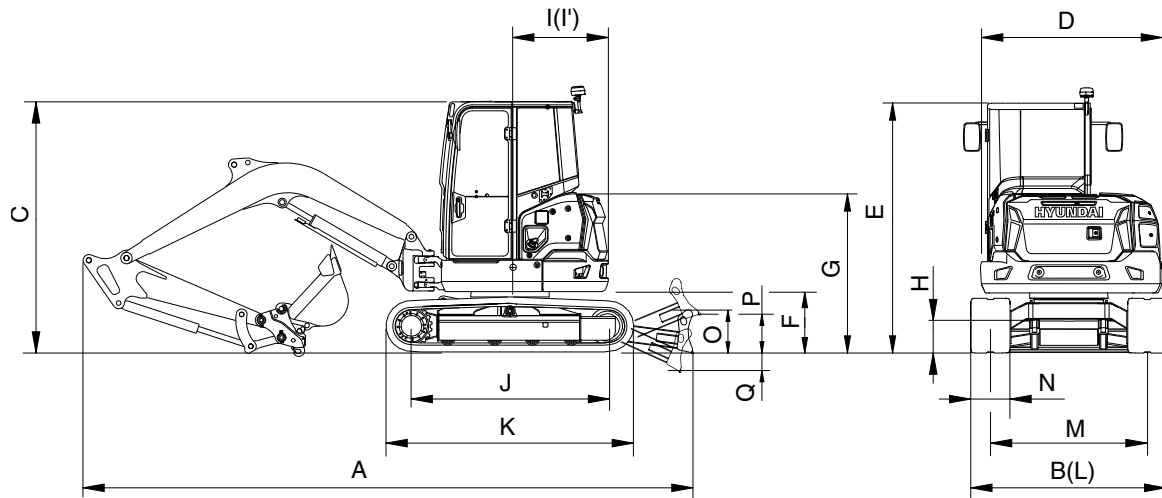
(1) 2.8 m (9' 2") boom, 1.4 m (4' 7") arm, without quick coupler (general standard)



48AZ2SP02

Description		Unit	Specification
Operating weight		kg (lb)	5030 (11090)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.15 (0.18)
Overall length	A	mm (ft-in)	5493 (18' 0")
Overall width, with 300 mm shoe	B		2000 (6' 7")
Overall width, with dozer	-		2000 (6' 7")
Overall height	C		2580 (8' 6")
Overall width of upper structure	D		1850 (6' 1")
Overall height of cab	E		2580 (8' 6")
Ground clearance of counterweight	F		608 (2' 0")
Overall height of engine hood	G		1605 (5' 3")
Minimum ground clearance	H		215 (0' 8")
Rear-end distance	I		1000 (3' 3")
Rear-end swing radius	I'		1000 (3' 3")
Distance between tumblers	J		2000 (6' 7")
Undercarriage length (without grouser)	K		2214 (7' 3")
Undercarriage width	L		2000 (6' 7")
Track gauge	M		1600 (5' 3")
Track shoe width, standard	N		400 (1' 4")
Height of blade	O		350 (1' 2")
Ground clearance of blade up	P		410 (1' 4")
Depth of blade down	Q		580 (1' 11")
Travel speed (low/high)		km/hr (mph)	2.81/4.4
Swing speed		rpm	10.08
Gradeability		Degree (%)	35
Ground pressure		kgf/cm ² (psi)	0.34 (4.79)
Max traction force		kg (lb)	4650 (10250)

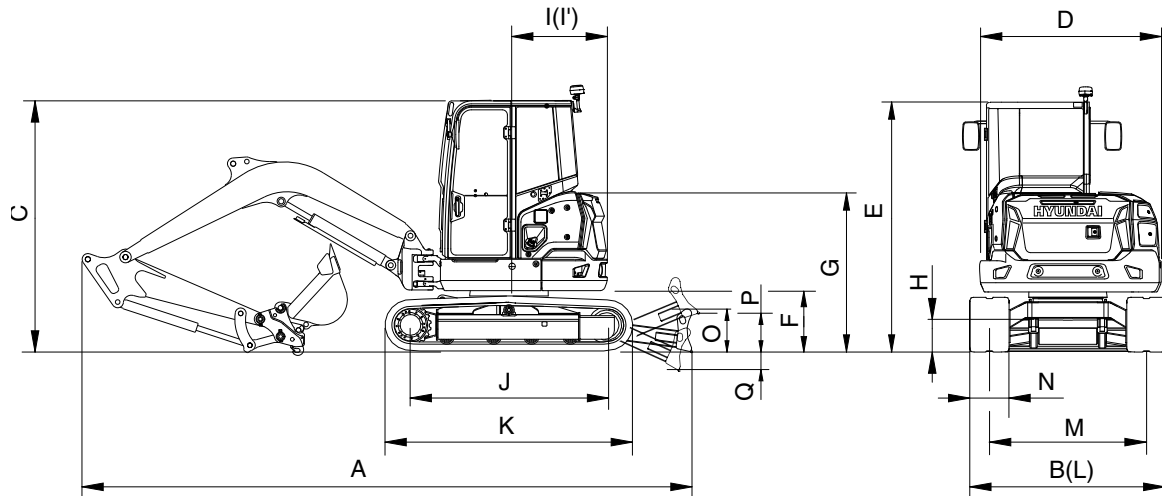
(2) 2.8 m (9' 2") boom, 1.4 m (4' 7") thumb bracket arm, with quick coupler (North america standard)



48AZ2SP03

Description		Unit	Specification
Operating weight		kg (lb)	5080 (11200)
Bucket capacity (SAE heaped), standard		m3 (yd3)	0.15 (0.18)
Overall length	A	mm (ft-in)	5493 (18' 0")
Overall width, with 300 mm shoe	B		2000 (6' 7")
Overall width, with dozer	-		2000 (6' 7")
Overall height	C		2580 (8' 6")
Overall width of upper structure	D		1850 (6' 1")
Overall height of cab	E		2580 (8' 6")
Ground clearance of counterweight	F		608 (2' 0")
Overall height of engine hood	G		1605 (5' 3")
Minimum ground clearance	H		215 (0' 8")
Rear-end distance	I		1000 (3' 3")
Rear-end swing radius	I'		1000 (3' 3")
Distance between tumblers	J		2000 (6' 7")
Undercarriage length (without grouser)	K		2214 (7' 3")
Undercarriage width	L		2000 (6' 7")
Track gauge	M		1600 (5' 3")
Track shoe width, standard	N		400 (1' 4")
Height of blade	O		350 (1' 2")
Ground clearance of blade up	P		410 (1' 4")
Depth of blade down	Q		580 (1' 11")
Travel speed (low/high)		km/hr (mph)	2.81/4.4
Swing speed		rpm	10.08
Gradeability		Degree (%)	35
Ground pressure		kgf/cm ² (psi)	0.34 (4.84)
Max traction force		kg (lb)	4650 (10250)

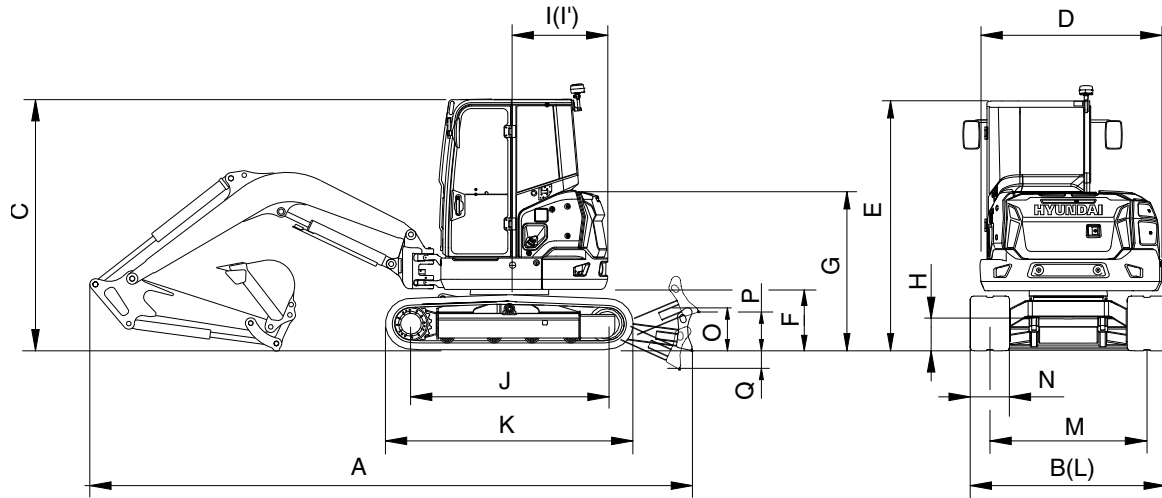
(3) 2.8 m (9' 2") boom, 1.4 m (4' 7") thumb bracket arm, with quick coupler, add counterweight, angle dozer (North america heavy type)



48AZ2SP03

Description		Unit	Specification
Operating weight		kg (lb)	5400 (11900)
Bucket capacity (SAE heaped), standard		m3 (yd3)	0.15 (0.18)
Overall length	A	mm (ft-in)	5493 (18' 0")
Overall width, with 300 mm shoe	B		2000 (6' 7")
Overall width, with dozer	-		2000 (6' 7")
Overall height	C		2580 (8' 6")
Overall width of upper structure	D		1850 (6' 1")
Overall height of cab	E		2580 (8' 6")
Ground clearance of counterweight	F		608 (2' 0")
Overall height of engine hood	G		1605 (5' 3")
Minimum ground clearance	H		225 (0' 9")
Rear-end distance	I		1075 (3' 6")
Rear-end swing radius	I'		1075 (3' 6")
Distance between tumblers	J		2000 (6' 7")
Undercarriage length (without grouser)	K		2214 (7' 3")
Undercarriage width	L		2000 (6' 7")
Track gauge	M		1600 (5' 3")
Track shoe width, standard	N		400 (1' 4")
Height of blade	O		400 (1' 4")
Ground clearance of blade up	P		485 (1' 7")
Depth of blade down	Q		670 (2' 2")
Travel speed (low/high)		km/hr (mph)	2.81/4.4
Swing speed		rpm	10.08
Gradeability		Degree (%)	35
Ground pressure		kgf/cm ² (psi)	0.36 (5.15)
Max traction force		kg (lb)	4650 (10250)

(4) 2.8 m (9' 2") boom, 1.4 m (4' 7") arm, add counterweight, without quick coupler (Europe heavy type)

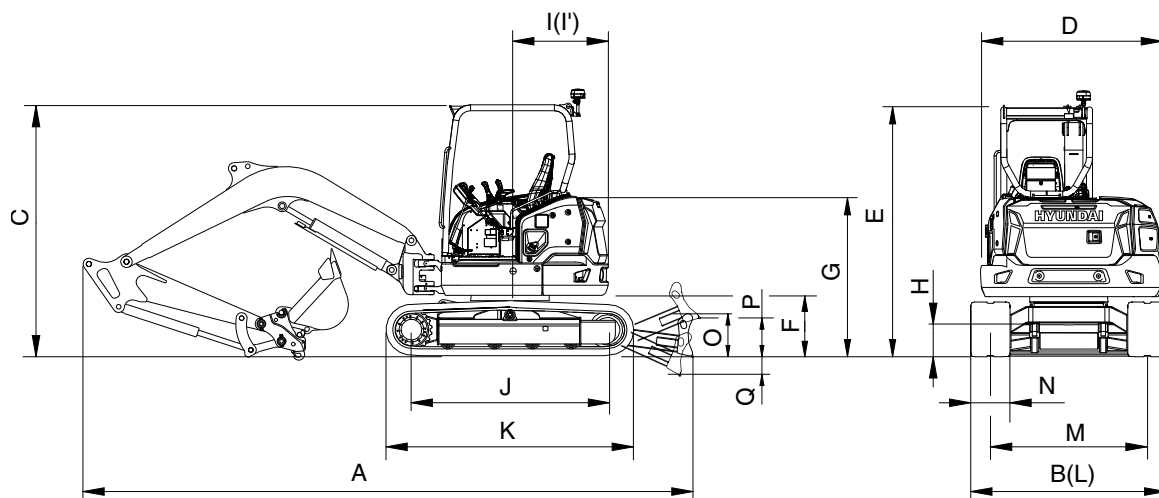


48AZ2SP02

Description		Unit	Specification
Operating weight		kg (lb)	5210 (11490)
Bucket capacity (SAE heaped), standard		m3 (yd3)	0.15 (0.18)
Overall length	A	mm (ft-in)	5493 (18' 0")
Overall width, with 300 mm shoe	B		2000 (6' 7")
Overall width, with dozer	-		2000 (6' 7")
Overall height	C		2580 (8' 6")
Overall width of upper structure	D		1850 (6' 1")
Overall height of cab	E		2580 (8' 6")
Ground clearance of counterweight	F		608 (2' 0")
Overall height of engine hood	G		1605 (5' 3")
Minimum ground clearance	H		215 (0' 8")
Rear-end distance	I		1075 (3' 6")
Rear-end swing radius	I'		1075 (3' 6")
Distance between tumblers	J		2000 (6' 7")
Undercarriage length (without grouser)	K		2214 (7' 3")
Undercarriage width	L		2000 (6' 7")
Track gauge	M		1600 (5' 3")
Track shoe width, standard	N		400 (1' 4")
Height of blade	O		350 (1' 2")
Ground clearance of blade up	P		410 (1' 4")
Depth of blade down	Q		580 (1' 11")
Travel speed (low/high)		km/hr (mph)	2.81/4.4
Swing speed		rpm	10.08
Gradeability		Degree (%)	35
Ground pressure		kgf/cm ² (psi)	0.35 (4.96)
Max traction force		kg (lb)	4650 (10250)

2) CANOPY TYPE

(1) 2.8 m (9' 2") boom, 1.4 m (4' 7") thumb bracket arm, with quick coupler (North america canopy type)

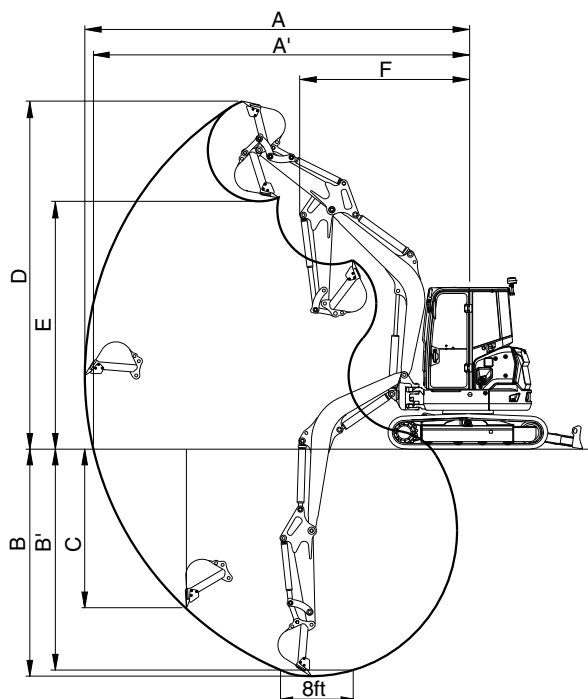


48AZ2SP05

Description		Unit	Specification
Operating weight		kg (lb)	4915 (10840)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.15 (0.18)
Overall length	A	mm (ft-in)	5493 (18' 0")
Overall width, with 300 mm shoe	B		2000 (6' 7")
Overall width, with dozer	-		2000 (6' 7")
Overall height	C		2565 (8' 5")
Overall width of upper structure	D		1850 (6' 1")
Overall height of cab	E		2565 (8' 5")
Ground clearance of counterweight	F		608 (2' 0")
Overall height of engine hood	G		1605 (5' 3")
Minimum ground clearance	H		215 (0' 8")
Rear-end distance	I		1000 (3' 3")
Rear-end swing radius	I'		1000 (3' 3")
Distance between tumblers	J		2000 (6' 7")
Undercarriage length (without grouser)	K		2214 (7' 3")
Undercarriage width	L		2000 (6' 7")
Track gauge	M		1600 (5' 3")
Track shoe width, standard	N		400 (1' 4")
Height of blade	O		350 (1' 2")
Ground clearance of blade up	P		410 (1' 4")
Depth of blade down	Q		580 (1' 11")
Travel speed (low/high)		km/hr (mph)	2.81/4.4
Swing speed		rpm	10.08
Gradeability		Degree (%)	35
Ground pressure		kgf/cm ² (psi)	0.33 (4.69)
Max traction force		kg (lb)	4650 (10250)

3. WORKING RANGE

1) 2.8 m (9' 2") BOOM, WITHOUT QUICK COUPLER

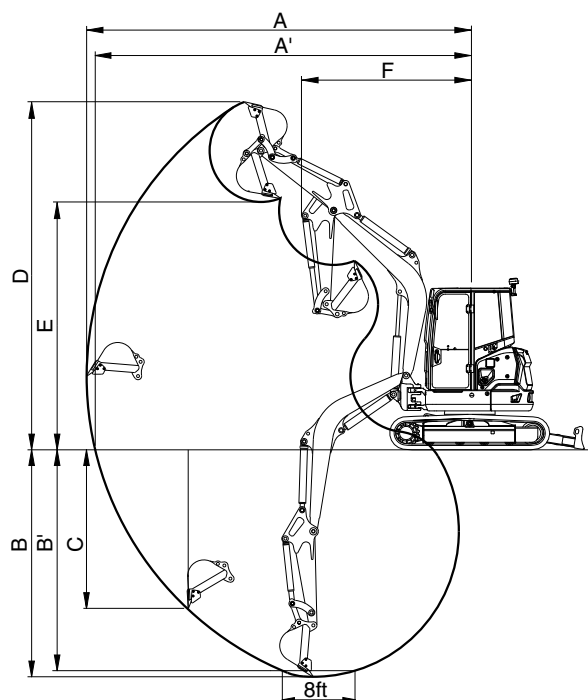


48AZ2SP10

Description		Unit	1.4 m (4' 7") Arm
Max digging reach	A	mm (ft-in)	5990 (19' 8")
Max digging reach on ground	A'		5850 (19' 2")
Max digging depth	B		3500 (11' 6")
Max digging depth (8ft level)	B'		3095 (10' 2")
Max vertical wall digging depth	C		2650 (8' 8")
Max digging height	D		5570 (18' 3")
Max dumping height	E		3860 (12' 8")
Min swing radius	F		2540 (8' 4")
Boom swing radius (left/right)		degree	70°/60°
Bucket digging force	SAE	kN	33
		kgf	3370
		lbf	7430
	ISO	kN	37
		kgf	3814
		lbf	8409
Arm crowd force	SAE	kN	23
		kgf	2357
		lbf	5196
	ISO	kN	24
		kgf	2431
		lbf	5359

[] : Power boost

2) 2.8 m (9' 2") BOOM, WITH QUICK COUPLER



48AZ2SP10

Description		Unit	1.4 m (4' 7") Arm
Max digging reach	A	mm (ft-in)	6110 (20' 1")
Max digging reach on ground	A'		5970 (19' 7")
Max digging depth	B		3620 (11' 11")
Max digging depth (8ft level)	B'		3240 (10' 8")
Max vertical wall digging depth	C		1790 (5' 10")
Max digging height	D		5670 (18' 7")
Max dumping height	E		3740 (12' 3")
Min swing radius	F		2540 (8' 4")
Boom swing radius (left/right)		degree	70°/60°
Bucket digging force	SAE	kN	30
		kgf	3082
		lbf	6794
	ISO	kN	33
		kgf	3330
		lbf	7342
Arm crowd force	SAE	kN	22
		kgf	2225
		lbf	4906
	ISO	kN	22
		kgf	2267
		lbf	4998

[] : Power boost

4. WEIGHT

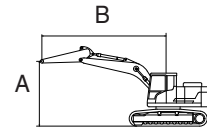
Item	kg	lb
Upperstructure assembly		
· Main frame weld assembly	635	1400
· Engine assembly (including DFP)	209	461
· Main pump assembly	25	54
· Main control valve assembly	55	121
· Swing motor assembly	46	101
· Hydraulic oil tank wa	74	163
· Fuel tank wa	12	26
· Counterweight	300	661
· Counterweight-add	450	992
· Cab assembly	455	1003
Lower chassis assembly		
· Track frame weld assembly	565	1246
· Dozer blade assembly	225	496
· Angle dozer blade assembly	94	207
· Swing bearing	47	104
· Travel motor assembly	160	353
· Turning joint	26	57
· Sprocket	28	61
· Track recoil spring	48	106
· Idler	87	193
· Upper roller	11	24
· Lower roller	99	217
· Track-chain assembly-steel	630	1389
· Track-chain assembly-rubber	456	1005
Front attachment assembly		
· Boom assembly-2.8 m	186	410
· Arm assembly-1.4 m	89	196
· Arm assembly-1.4 m, thumb	92	203
· Bucket assembly	136	299
· Boom cylinder assembly	49	108
· Arm cylinder assembly	43	95
· Bucket cylinder assembly	32	71
· Cylinder assy-dozer	37	81
· Bucket control linkage total	35	76











5. LIFTING CAPACITIES

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	900 1980	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	890 1960			*1090 *2400	690 1520	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1340 2950	*1250 *2760	860 1900	*1110 *2450	610 1340	*1070 *2360	600 1320	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1250 2760	*1470 *3240	820 1810	*1170 *2580	590 1300	*1130 *2490	570 1260	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1210 2670	*1590 *3510	800 1760			*1180 *2600	590 1300	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1210 2670	*1520 *3350	800 1760			*1210 *2670	680 1500	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2480 5470	*1710 *3770	1240 2730					*1180 *2600	940 2070	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. *indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

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











Please be aware of the local regulations and instructions for lifting operations.

▲ Failure to comply to the rated load can cause possible serious injury, death, 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	
HX48A Z	Cab	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									970 2140	820 1810	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					960 2120	820 1810			730 1610	620 1370	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1450 3200	1220 2690	920 2030	780 1720	650 1430	550 1210	640 1410	550 1210	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1360 3000	1120 2470	890 1960	750 1650	640 1410	540 1190	610 1340	520 1150	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1320 2910	1090 2400	860 1900	720 1590			640 1410	540 1190	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2140 4720	1320 2910	1090 2400	860 1900	720 1590			730 1610	620 1370	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2190 4830	1350 2980	1120 2470					1010 2230	850 1870	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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








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Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	970 2140	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	960 2120			*1090 *2400	740 1630	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1440 3170	*1250 *2760	930 2050	*1110 *2450	660 1460	*1070 *2360	650 1430	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1350 2980	*1470 *3240	890 1960	*1170 *2580	650 1430	*1130 *2490	620 1370	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1310 2890	*1590 *3510	870 1920			*1180 *2600	650 1430	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1310 2890	*1520 *3350	870 1920			*1210 *2670	740 1630	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2670 5890	*1710 *3770	1340 2950					*1180 *2600	1010 2230	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

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

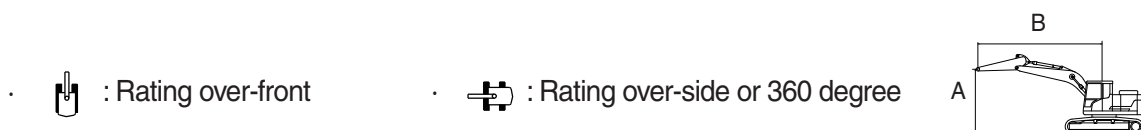
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.











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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									1040 2290	890 1960	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					1030 2270	880 1940			790 1740	680 1500	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1560 3440	1310 2890	1000 2200	850 1870	700 1540	600 1320	700 1540	590 1300	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1470 3240	1220 2690	960 2120	810 1790	690 1520	590 1300	670 1480	570 1260	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1430 3150	1180 2600	930 2050	790 1740			690 1520	590 1300	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2320 5110	1430 3150	1180 2600	930 2050	790 1740			790 1740	670 1480	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2370 5220	1460 3220	1210 2670					1090 2400	920 2030	3.65 (12.0)

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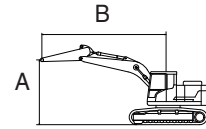
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	930 2050	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	920 2030			*1090 *2400	710 1570	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1380 3040	*1250 *2760	890 1960	*1110 *2450	630 1390	*1070 *2360	620 1370	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1290 2840	*1470 *3240	850 1870	*1170 *2580	620 1370	*1130 *2490	600 1320	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1250 2760	*1590 *3510	830 1830			*1180 *2600	620 1370	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1250 2760	*1520 *3350	830 1830			*1210 *2670	700 1540	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2550 5620	*1710 *3770	1280 2820					*1180 *2600	970 2140	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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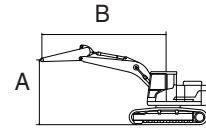
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	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)
4.0 m (13.1 ft)	kg lb									940 2070	850 1870	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					930 2050	850 1870			710 1570	650 1430	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1420 3130	1260 2780	900 1980	820 1810	630 1390	570 1260	620 1370	570 1260	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1320 2910	1170 2580	860 1900	780 1720	620 1370	560 1230	600 1320	540 1190	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1280 2820	1130 2490	830 1830	750 1650			620 1370	560 1230	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2230 4920	1280 2820	1130 2490	830 1830	750 1650			710 1570	640 1410	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	2730 6020	2280 5030	1310 2890	1160 2560					980 2160	880 1940	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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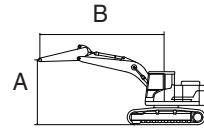
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	1000 2200	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	990 2180			*1090 *2400	760 1680	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1480 3260	*1250 *2760	960 2120	*1110 *2450	680 1500	*1070 *2360	670 1480	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1390 3060	*1470 *3240	920 2030	*1170 *2580	670 1480	*1130 *2490	650 1430	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1350 2980	*1590 *3510	900 1980			*1180 *2600	670 1480	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1350 2980	*1520 *3350	890 1960			*1210 *2670	760 1680	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2740 6040	*1710 *3770	1380 3040					*1180 *2600	1050 2310	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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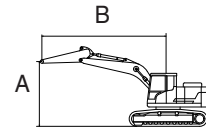
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	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)
4.0 m	kg									1010	920	3.97
(13.1 ft)	lb									2230	2030	(13.0)
3.0 m	kg					1000	910			770	700	4.68
(9.8 ft)	lb					2200	2010			1700	1540	(15.4)
2.0 m	kg			1530	1360	970	880	680	620	680	620	5.03
(6.6 ft)	lb			3370	3000	2140	1940	1500	1370	1500	1370	(16.5)
1.0 m	kg			1430	1270	930	840	670	610	650	590	5.12
(3.3 ft)	lb			3150	2800	2050	1850	1480	1340	1430	1300	(16.8)
0.0 m	kg			1390	1230	910	820			670	610	4.95
(0.0 ft)	lb			3060	2710	2010	1810			1480	1340	(16.3)
-1.0 m	kg	*2380	*2380	1390	1230	910	820			770	700	4.51
(-3.3 ft)	lb	*5250	*5250	3060	2710	2010	1810			1700	1540	(14.8)
-2.0 m	kg	*2750	2460	1420	1260					1060	960	3.65
(-6.6 ft)	lb	*6060	5420	3130	2780					2340	2120	(12.0)

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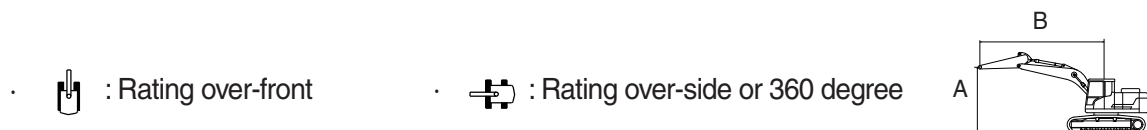
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Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	860 1900	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	850 1870			*1090 *2400	650 1430	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1280 2820	*1250 *2760	820 1810	*1110 *2450	580 1280	*1070 *2360	570 1260	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1190 2620	*1470 *3240	780 1720	*1170 *2580	560 1230	*1130 *2490	540 1190	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1150 2540	*1590 *3510	760 1680			*1180 *2600	560 1230	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2310 *5090	*2270 *5000	1150 2540	*1520 *3350	760 1680			*1210 *2670	640 1410	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2360 5200	*1710 *3770	1180 2600					*1180 *2600	890 1960	3.65 (12.0)

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

※ Lifting capacities are based upon a standard machine conditions.

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

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

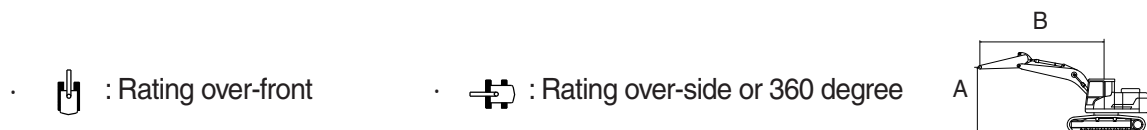
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

Please be aware of the local regulations and instructions for lifting operations.

▲ Failure to comply to the rated load can cause possible serious injury, death, 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	
HX48A Z	Cab	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									940 2070	780 1720	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					930 2050	780 1720			710 1570	590 1300	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1410 3110	1160 2560	900 1980	750 1650	630 1390	520 1150	620 1370	520 1150	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1320 2910	1070 2360	860 1900	710 1570	610 1340	510 1120	590 1300	490 1080	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1280 2820	1030 2270	830 1830	690 1520			610 1340	510 1120	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2040 4500	1280 2820	1030 2270	830 1830	680 1500			700 1540	580 1280	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	2730 6020	2090 4610	1310 2890	1060 2340					980 2160	810 1790	3.65 (12.0)

- Note
1. Lifting capacity are based on ISO 10567.
 2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
 3. The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
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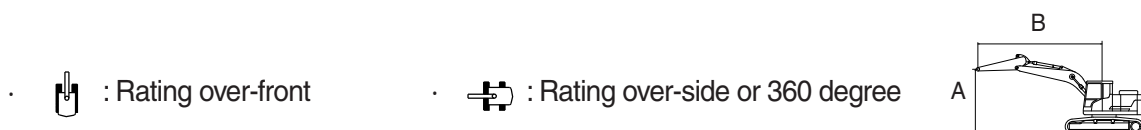
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.











Please be aware of the local regulations and instructions for lifting operations.

▲ Failure to comply to the rated load can cause possible serious injury, death, 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	
HX48A Z	Cab	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	930 2050	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	920 2030			*1090 *2400	710 1570	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1380 3040	*1250 *2760	890 1960	*1110 *2450	630 1390	*1070 *2360	620 1370	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1290 2840	*1470 *3240	850 1870	*1170 *2580	620 1370	*1130 *2490	590 1300	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1250 2760	*1590 *3510	830 1830			*1180 *2600	620 1370	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 5250	*2270 *5000	1250 2760	*1520 *3350	820 1810			*1210 *2670	700 1540	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2550 5620	*1710 *3770	1280 2820					*1180 *2600	970 2140	3.65 (12.0)

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

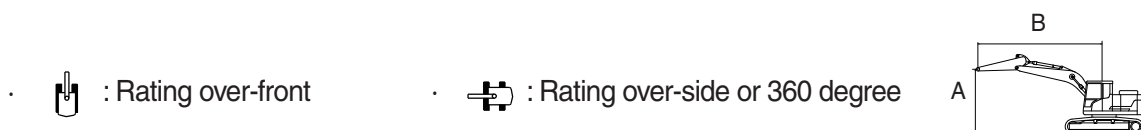
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.











Please be aware of the local regulations and instructions for lifting operations.

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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									1010 2230	850 1870	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					1000 2200	840 1850			770 1700	650 1430	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1520 3350	1250 2760	970 2140	810 1790	680 1500	570 1260	670 1480	570 1260	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1430 3150	1160 2560	930 2050	770 1700	670 1480	560 1230	650 1430	540 1190	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1390 3060	1130 2490	900 1980	750 1650			670 1480	560 1230	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2210 4870	1390 3060	1130 2490	900 1980	750 1650			770 1700	640 1410	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2260 4980	1420 3130	1160 2560					1060 2340	880 1940	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

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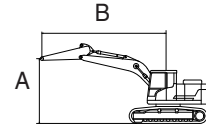
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m	kg									*1120	890	3.97
(13.1 ft)	lb									*2470	1960	(13.0)
3.0 m	kg					*1080	880			*1090	680	4.68
(9.8 ft)	lb					*2380	1940			*2400	1500	(15.4)
2.0 m	kg			*1680	1320	*1250	850	*1110	600	*1070	590	5.03
(6.6 ft)	lb			*3700	2910	*2760	1870	*2450	1320	*2360	1300	(16.5)
1.0 m	kg			*2260	1230	*1470	810	*1170	590	*1130	570	5.12
(3.3 ft)	lb			*4980	2710	*3240	1790	*2580	1300	*2490	1260	(16.8)
0.0 m	kg			*2440	1190	*1590	790			*1180	590	4.95
(0.0 ft)	lb			*5380	2620	*3510	1740			*2600	1300	(16.3)
-1.0 m	kg	*2380	*2380	*2270	1190	*1520	780			*1210	670	4.51
(-3.3 ft)	lb	*5250	*5250	*5000	2620	*3350	1720			*2670	1480	(14.8)
-2.0 m	kg	*2750	2440	*1710	1220					*1180	920	3.65
(-6.6 ft)	lb	*6060	5380	*3770	2690					*2600	2030	(12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. *indicates load limited by hydraulic capacity.

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

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

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

Please be aware of the local regulations and instructions for lifting operations.

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

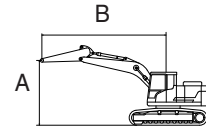
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	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)
4.0 m (13.1 ft)	kg lb									910 2010	810 1790	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					900 1980	810 1790			690 1520	620 1370	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1370 3020	1200 2650	870 1920	780 1720	610 1340	550 1210	600 1320	540 1190	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1280 2820	1110 2450	830 1830	740 1630	590 1300	530 1170	570 1260	520 1150	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1240 2730	1080 2380	810 1790	720 1590			590 1300	530 1170	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2120 4670	1240 2730	1080 2380	800 1760	710 1570			680 1500	610 1340	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	2660 5860	2170 4780	1270 2800	1110 2450					950 2090	840 1850	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

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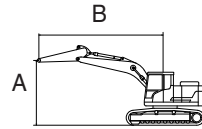
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	960 2120	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	950 2090			*1090 *2400	730 1610	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1420 3130	*1250 *2760	920 2030	*1110 *2450	650 1430	*1070 *2360	640 1410	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1330 2930	*1470 *3240	880 1940	*1170 *2580	640 1410	*1130 *2490	620 1370	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1290 2840	*1590 *3510	860 1900			*1180 *2600	640 1410	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1290 2840	*1520 *3350	850 1870			*1210 *2670	730 1610	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2630 5800	*1710 *3770	1320 2910					*1180 *2600	1000 2200	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

4. *indicates load limited by hydraulic capacity.

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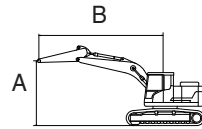
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Cab	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	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)
4.0 m (13.1 ft)	kg lb									980 2160	880 1940	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					980 2160	870 1920			750 1650	670 1480	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1490 3280	1300 2870	940 2070	840 1850	660 1460	590 1300	650 1430	590 1300	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1390 3060	1210 2670	900 1980	810 1790	650 1430	580 1280	630 1390	560 1230	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1350 2980	1170 2580	880 1940	780 1720			650 1430	580 1280	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2300 5070	1350 2980	1170 2580	880 1940	780 1720			740 1630	660 1460	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2350 5180	1380 3040	1200 2650					1030 2270	910 2010	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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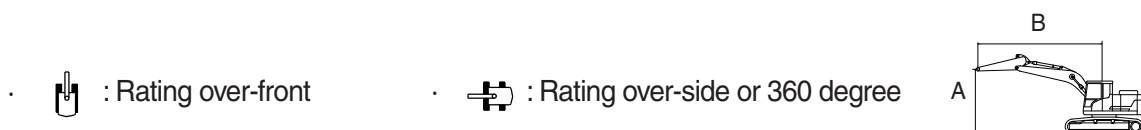
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Make adjustments to the rated load as necessary for non-standard configurations.

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	870 1920	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	860 1900			*1090 *2400	660 1460	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1300 2870	*1250 *2760	830 1830	*1110 *2450	580 1280	*1070 *2360	580 1280	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1200 2650	*1470 *3240	790 1740	*1170 *2580	570 1260	*1130 *2490	550 1210	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1170 2580	*1590 *3510	770 1700			*1180 *2600	570 1260	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2340 5160	*2270 *5000	1170 2580	*1520 *3350	770 1700			*1210 *2670	650 1430	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2390 5270	*1710 *3770	1200 2650					*1180 *2600	900 1980	3.65 (12.0)

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

※ Lifting capacities are based upon a standard machine conditions.

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Please be aware of the local regulations and instructions for lifting operations.

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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									930 2050	790 1740	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					920 2030	790 1740			700 1540	600 1320	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1400 3090	1180 2600	890 1960	760 1680	620 1370	530 1170	620 1370	520 1150	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1310 2890	1080 2380	850 1870	720 1590	610 1340	520 1150	590 1300	500 1100	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1270 2800	1050 2310	830 1830	700 1540			610 1340	520 1150	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2070 4560	1270 2800	1050 2310	820 1810	690 1520			700 1540	590 1300	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	2700 5950	2120 4670	1300 2870	1080 2380					970 2140	820 1810	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	940 2070	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	930 2050			*1090 *2400	720 1590	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1400 3090	*1250 *2760	900 1980	*1110 *2450	640 1410	*1070 *2360	630 1390	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1300 2870	*1470 *3240	860 1900	*1170 *2580	620 1370	*1130 *2490	600 1320	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1270 2800	*1590 *3510	840 1850			*1180 *2600	620 1370	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1270 2800	*1520 *3350	840 1850			*1210 *2670	710 1570	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2590 5710	*1710 *3770	1300 2870					*1180 *2600	980 2160	3.65 (12.0)

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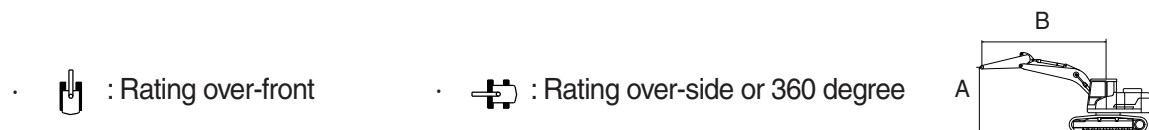
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.











Please be aware of the local regulations and instructions for lifting operations.

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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									1000 2200	860 1900	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					1000 2200	850 1870			760 1680	650 1430	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1510 3330	1270 2800	960 2120	820 1810	680 1500	580 1280	670 1480	570 1260	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1420 3130	1180 2600	930 2050	790 1740	670 1480	570 1260	640 1410	550 1210	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1380 3040	1140 2510	900 1980	760 1680			670 1480	570 1260	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2250 4960	1380 3040	1140 2510	900 1980	760 1680			760 1680	650 1430	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2300 5070	1410 3110	1170 2580					1050 2310	890 1960	3.65 (12.0)

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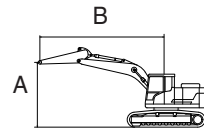
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	900 1980	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	890 1960			*1090 *2400	680 1500	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1340 2950	*1250 *2760	860 1900	*1110 *2450	610 1340	*1070 *2360	600 1320	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1240 2730	*1470 *3240	820 1810	*1170 *2580	590 1300	*1130 *2490	570 1260	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1210 2670	*1590 *3510	800 1760			*1180 *2600	590 1300	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1210 2670	*1520 *3350	800 1760			*1210 *2670	680 1500	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2470 5450	*1710 *3770	1240 2730					*1180 *2600	940 2070	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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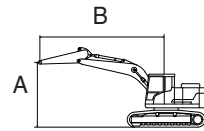
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	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)
4.0 m (13.1 ft)	kg lb									900 1980	830 1830	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					900 1980	820 1810			680 1500	630 1390	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1360 3000	1220 2690	860 1900	790 1740	600 1320	550 1210	600 1320	550 1210	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1270 2800	1130 2490	830 1830	750 1650	590 1300	540 1190	570 1260	520 1150	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1230 2710	1090 2400	800 1760	730 1610			590 1300	540 1190	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2150 4740	1230 2710	1090 2400	800 1760	720 1590			680 1500	620 1370	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	2630 5800	2200 4850	1260 2780	1120 2470					940 2070	850 1870	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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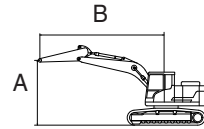
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	970 2140	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	960 2120			*1090 *2400	740 1630	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1440 3170	*1250 *2760	930 2050	*1110 *2450	660 1460	*1070 *2360	650 1430	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1340 2950	*1470 *3240	890 1960	*1170 *2580	640 1410	*1130 *2490	620 1430	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1310 2890	*1590 *3510	870 1920			*1180 *2600	650 1430	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1310 2890	*1520 *3350	860 1900			*1210 *2670	740 1630	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2660 5860	*1710 *3770	1340 2950					*1180 *2600	1010 2230	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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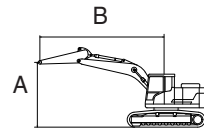
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Steel Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	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)
4.0 m (13.1 ft)	kg lb									980 2160	890 1960	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					970 2140	880 1940			740 1630	680 1500	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1470 3240	1320 2910	940 2070	850 1870	660 1460	600 1320	650 1430	600 1320	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1380 3040	1220 2690	900 1980	820 1810	650 1430	590 1300	620 1370	570 1260	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1340 2950	1190 2620	870 1920	790 1740			650 1430	590 1300	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2330 5140	1340 2950	1190 2620	870 1920	790 1740			740 1630	670 1480	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2380 5250	1370 3020	1220 2690					1030 2270	930 2050	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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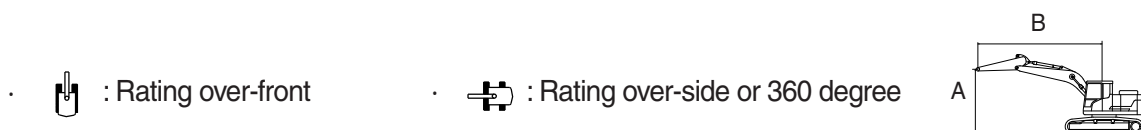
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






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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	830 1830	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	820 1810			*1090 *2400	630 1390	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1240 2730	*1250 *2760	790 1740	*1110 *2450	550 1210	*1070 *2360	550 1210	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1140 2510	*1470 *3240	750 1650	*1170 *2580	540 1190	*1130 *2490	520 1150	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1110 2450	*1590 *3510	730 1610			*1180 *2600	540 1190	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2230 4920	*2270 *5000	1110 2450	*1520 *3350	730 1610			*1210 *2670	620 1370	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2280 5030	*1710 *3770	1140 2510					*1180 *2600	860 1900	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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

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

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

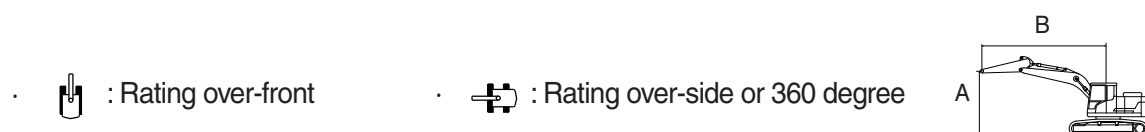
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.











Please be aware of the local regulations and instructions for lifting operations.

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

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									900 1980	760 1680	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					890 1960	750 1650			680 1500	570 1260	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1360 3000	1120 2470	860 1900	720 1590	600 1320	500 1100	590 1300	500 1100	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1260 2780	1030 2270	820 1810	680 1500	590 1300	490 1080	570 1260	470 1040	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1220 2690	990 2180	800 1760	660 1460			590 1300	490 1080	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	1960 4320	1230 2710	990 2180	790 1740	650 1430			670 1480	560 1230	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	2630 5800	2010 4430	1260 2780	1020 2250					940 2070	770 1700	3.65 (12.0)

Note 1. Lifting capacity are based on ISO 10567.

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

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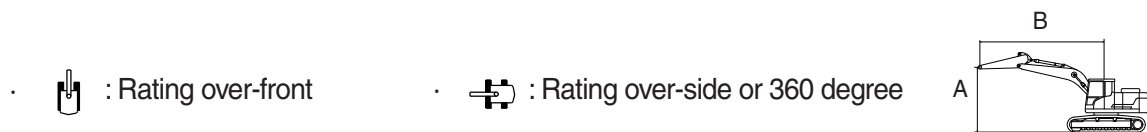
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Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Down	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	900 1980	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	890 1960			*1090 *2400	680 1500	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1340 2950	*1250 *2760	860 1900	*1110 *2450	600 1320	*1070 *2360	600 1320	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1240 2730	*1470 *3240	820 1810	*1170 *2580	590 1300	*1130 *2490	570 1260	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1210 2670	*1590 *3510	800 1760			*1180 *2600	590 1300	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1210 2670	*1520 *3350	790 1740			*1210 *2670	680 1500	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2470 5450	*1710 *3770	1240 2730					*1180 *2600	930 2050	3.65 (12.0)

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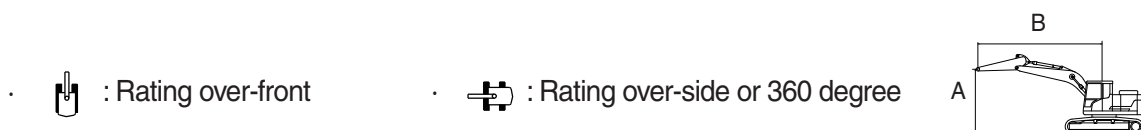
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






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Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Up	-	-



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									980 2160	820 1810	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					970 2140	810 1790			740 1630	620 1370	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			1470 3240	1210 2670	930 2050	780 1720	650 1430	550 1210	650 1430	540 1190	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			1370 3020	1120 2470	900 1980	750 1650	640 1410	540 1190	620 1370	520 1150	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			1340 2950	1090 2400	870 1920	720 1590			640 1410	540 1190	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2140 4720	1340 2950	1090 2400	870 1920	720 1590			740 1630	610 1340	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2190 4830	1370 3020	1120 2470					1020 2250	850 1870	3.65 (12.0)

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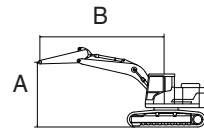
Make adjustments to the rated load as necessary for non-standard configurations.











ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	860 1900	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	850 1870			*1090 *2400	650 1430	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1280 2820	*1250 *2760	820 1810	*1110 *2450	580 1280	*1070 *2360	570 1260	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1180 2600	*1470 *3240	780 1720	*1170 *2580	560 1230	*1130 *2490	540 1190	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1150 2540	*1590 *3510	760 1680			*1180 *2600	560 1230	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	2300 5070	*2270 *5000	1150 2540	*1520 *3350	760 1680			*1210 *2670	640 1410	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2350 5180	*1710 *3770	1180 2600					*1180 *2600	890 1960	3.65 (12.0)

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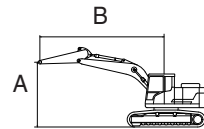
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ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	300	-	-	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)
4.0 m	kg									870	790	3.97
(13.1 ft)	lb									1920	1740	(13.0)
3.0 m	kg					870	780			660	600	4.68
(9.8 ft)	lb					1920	1720			1460	1320	(15.4)
2.0 m	kg			1320	1160	840	750	580	520	570	520	5.03
(6.6 ft)	lb			2910	2560	1850	1650	1280	1150	1260	1150	(16.5)
1.0 m	kg			1220	1070	800	710	570	510	550	490	5.12
(3.3 ft)	lb			2690	2360	1760	1570	1260	1120	1210	1080	(16.8)
0.0 m	kg			1190	1040	770	690			570	510	4.95
(0.0 ft)	lb			2620	2620	1700	1520			1260	1120	(16.3)
-1.0 m	kg	*2380	2050	1190	1040	770	690			650	590	4.51
(-3.3 ft)	lb	*5250	4520	2620	2290	1700	1520			1430	1300	(14.8)
-2.0 m	kg	2550	2100	1220	1220					910	810	3.65
(-6.6 ft)	lb	5620	4630	2690	2690					2010	1790	(12.0)

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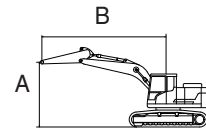
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




ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Down	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg lb									*1120 *2470	930 2050	3.97 (13.0)
3.0 m (9.8 ft)	kg lb					*1080 *2380	920 2030			*1090 *2400	710 1570	4.68 (15.4)
2.0 m (6.6 ft)	kg lb			*1680 *3700	1380 3040	*1250 *2760	890 1960	*1110 *2450	630 1390	*1070 *2360	620 1370	5.03 (16.5)
1.0 m (3.3 ft)	kg lb			*2260 *4980	1280 2820	*1470 *3240	850 1870	*1170 *2580	610 1340	*1130 *2490	590 1300	5.12 (16.8)
0.0 m (0.0 ft)	kg lb			*2440 *5380	1250 2760	*1590 *3510	830 1830			*1180 *2600	610 1340	4.95 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2380 *5250	*2380 *5250	*2270 *5000	1250 2760	*1520 *3350	820 1810			*1210 *2670	700 1540	4.51 (14.8)
-2.0 m (-6.6 ft)	kg lb	*2750 *6060	2550 5620	*1710 *3770	1280 2820					*1180 *2600	970 2140	3.65 (12.0)

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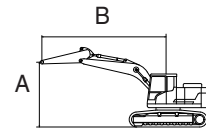
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ANGLE DOZER BLADE

Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	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)
4.0 m	kg									950	850	3.97
(13.1 ft)	lb									2090	1870	(13.0)
3.0 m	kg					940	850			720	650	4.68
(9.8 ft)	lb					2070	1870			1590	1430	(15.4)
2.0 m	kg			1430	1260	910	820	640	570	630	570	5.03
(6.6 ft)	lb			3150	2780	2010	1810	1410	1260	1390	1260	(16.5)
1.0 m	kg			1340	1170	870	780	620	560	600	540	5.12
(3.3 ft)	lb			2950	2580	1920	1720	1370	1230	1320	1190	(16.8)
0.0 m	kg			1300	1130	840	750			620	560	4.95
(0.0 ft)	lb			2870	2490	1850	1650			1370	1230	(16.3)
-1.0 m	kg	*2380	2220	1300	1130	840	750			710	640	4.51
(-3.3 ft)	lb	*5250	4890	2870	2490	1850	1650			1570	1410	(14.8)
-2.0 m	kg	*2750	2270	1330	1160					990	880	3.65
(-6.6 ft)	lb	*6060	5000	2930	2560					2180	1940	(12.0)

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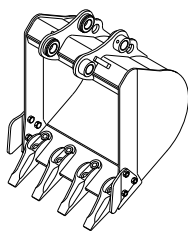
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6. BUCKET SELECTION GUIDE



0.15 m³
SAE heaped bucket

Capacity		Width		Weight	Recommendation
					2.8 m (9' 2") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.4 m (4' 7") arm
0.15 m ³ (2.10 yd ³)	0.13 m ³ (0.17 yd ³)	490 mm (19.3")	610 mm (24.0")	137 kg (302 lb)	●

● Applicable for materials with density of 2100 kg/m³ (3500 lb/yd³) or less

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

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

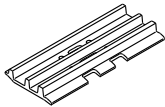
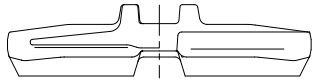
Consult with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom-arm-bucket combination.

7. UNDERCARRIAGE

1) TRACKS

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

2) TYPES OF SHOES

Model	Shapes		Steel triple grouser	Rubber track
				
HX48A Z	Shoe width	mm (in)	400 (16")	400 (16")
	Operating weight	kg (lb)	5210 (11490)	5030 (11090)
	Ground pressure	kgf/cm ² (psi)	0.35 (5.04)	0.34 (4.79)
	Overall width	mm (ft-in)	2000 (6' 7")	2000 (6' 7")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1EA
Track rollers	4EA
Track shoes (steel grouser)	39EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

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

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

Table 1

Model	Track shoe	Specification	Category
HX48A Z	T/chain-triple for mini (400 mm)	Option	B
	T/chain-rubber for rail interlocking (400 mm)	Standard	A

Table 2

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

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Yanmar 4TNV88C-PHYB
Type	4 cycle, inline, water-cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection
Cylinder bore × stroke	88 × 90 mm (3.46" × 3.54")
Piston displacement	2190 cc (134 cu in)
Compression ratio	-
Rated gross horse power (SAE J1995)	39.0 hp (29.1 kW)
Rated net horse power (SAE J1995)	37.7 hp (28.1 kW)
Max. power	39.0 hp (29.1 kW)
Maximum torque	14.8 kgf · m (106.9 lbf · ft)
Engine oil quantity	7.4 ℓ (1.95 U.S. gal)
Dry weight	209 kg (461 lb)
Starting motor	12V-2.3 kW
Alternator	12V-55 A

2) MAIN PUMP

Item	Specification
Type	AL A10V O 63LA7DS (Load sensing system)
Capacity	55 cc/rev
Maximum pressure	270 kgf/cm ² (3850 psi)
Rated oil flow	121 ℓ /min (32.0 U.S. gpm / 26.6 U.K. gpm)
Rated speed	2200 rpm

3) MAIN CONTROL VALVE

Item		Specification
Type		10EL, RS12 (load sensing system)
Operating method		Hydraulic pilot system
Main relief valve pressure		254 kgf/cm ² (3613 psi)
Overload relief valve pressure	Boom	295 kgf/cm ² (4196 psi)
	Arm	275 kgf/cm ² (3912 psi)
	Bucket	275 kgf/cm ² (3912 psi)

4) SWING MOTOR

Item		Specification
Type		Hydraulic radial motor
Capacity		600 cc
Relief pressure		350 kgf/cm ² (4980 psi)
Braking system		Automatic, spring applied hydraulic released
Braking torque		1780 kgf · m (12875 lbf · ft)
Brake release pressure		12~30 kgf/cm ² (171~427 psi)

5) TRAVEL MOTOR

Item		Specification
Type		Two fixed displacement axial piston motor
Capacity		39.2/22.0 cc/rev
Relief pressure		285 kgf/cm ² (4060 psi)
Reduction gear type		2-stage planetary
Braking system		Automatic, spring applied hydraulic released
Brake release pressure		12 kgf/cm ² (171 psi)
Braking torque		14.5 kgf · m (105 lbf · ft)

6) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø95 × Ø55 × 643 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø80 × Ø50 × 710 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø75 × Ø45 × 590 mm
	Cushion	-
Boom swing cylinder	Bore dia × Rod dia × Stroke	Ø80 × Ø50 × 525 mm
	Cushion	-
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø115 × Ø60 × 212 mm
	Cushion	-
Angle dozer cylinder	Bore dia × Rod dia × Stroke	Ø115 × Ø60 × 212 mm
	Cushion	-
Angle swing cylinder	Bore dia × Rod dia × Stroke	Ø95 × Ø45 × 335 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.

7) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
STD	0.15 m ³ (2.10 yd ³)	0.13 m ³ (0.17 yd ³)	4	490 mm (19.3")	610 mm (24.0")

9. RECOMMENDED OILS

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

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

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)									
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)	
Engine oil pan	Engine oil	7.4 (2.0)	★SAE 5W-40									
			SAE 30									
			SAE 10W									
			SAE 10W-30									
			SAE 15W-40									
Final drive	Gear oil	1.1×2 (0.29×2)	★SAE 75W-90									
			SAE 80W-90									
Hydraulic tank	Hydraulic oil	Tank: 44 (11.6) System: 63 (16.6)	★ISO VG 15									
			ISO VG 32									
			ISO VG 46★ ³									
			ISO VG 68									
Fuel tank	Diesel fuel★ ¹	66.8 (17.6)	★ASTM D975 NO.1									
			ASTM D975 NO.2									
Fitting (grease nipple)	Grease	As required	★NLGI NO.1									
			NLGI NO.2									
Radiator (reservoir tank)	Mixture of antifreeze and soft water★ ²	10.2 (2.7)	Ethylene glycol base permanent type (50 : 50)									
			★Ethylene glycol base permanent type (60 : 40)									

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

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

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

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material

★ : Cold region

Russia, CIS, Mongolia

★¹ : Ultra low sulfur diesel

- sulfur content ≤ 10 ppm

★² : Soft water

City water or distilled water

★³ : HD Hyundai Construction Equipment Bio hydraulic oil