SECTION 1 GENERAL

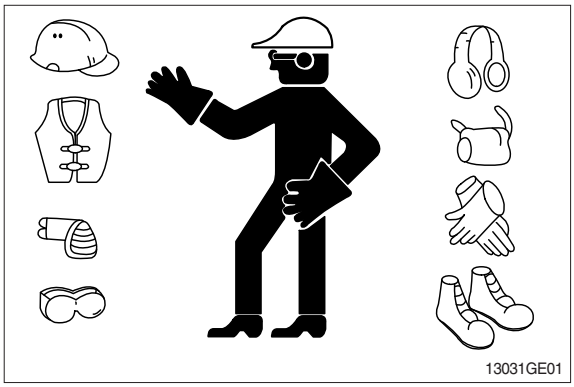
GROUP 1 SAFETY HINTS

FOLLOW SAFE PROCEDURE

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

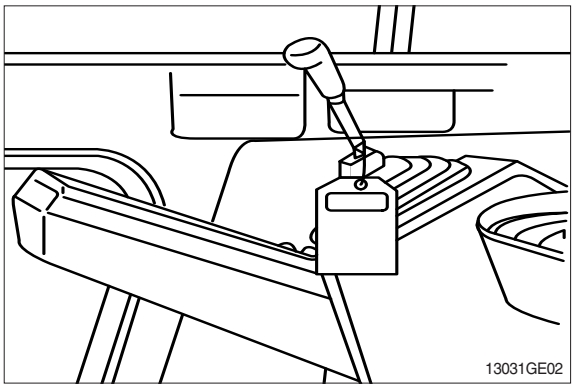
WEAR PROTECTIVE CLOTHING

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



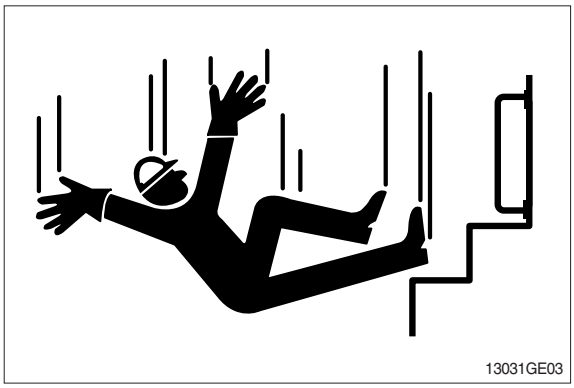
WARN OTHERS OF SERVICE WORK

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.

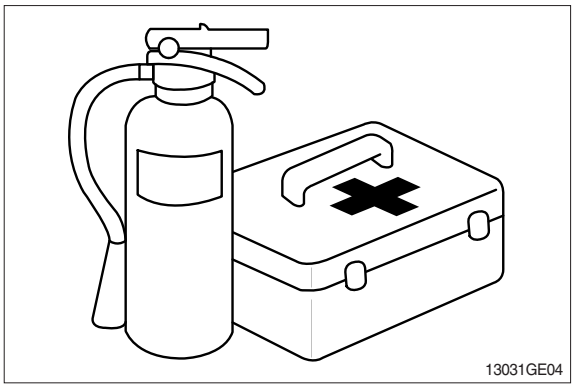


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

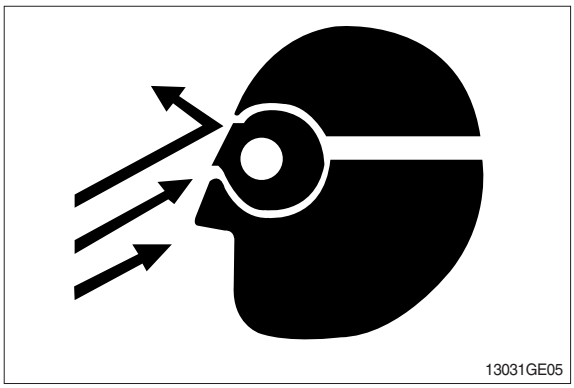
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

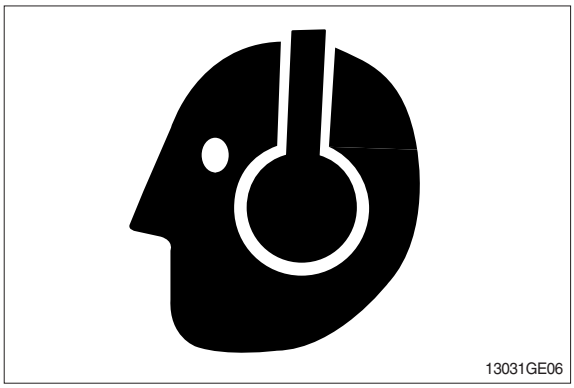
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

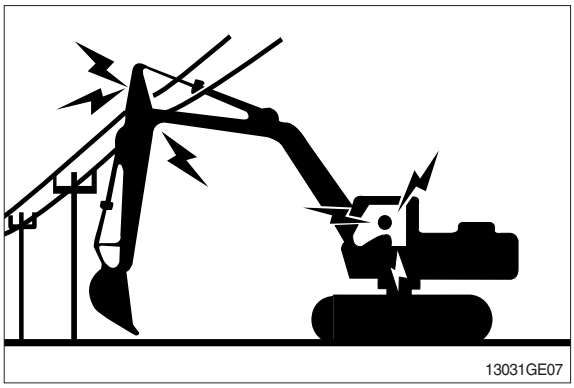
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

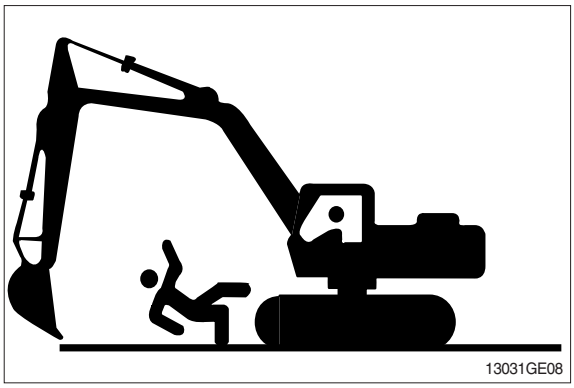
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

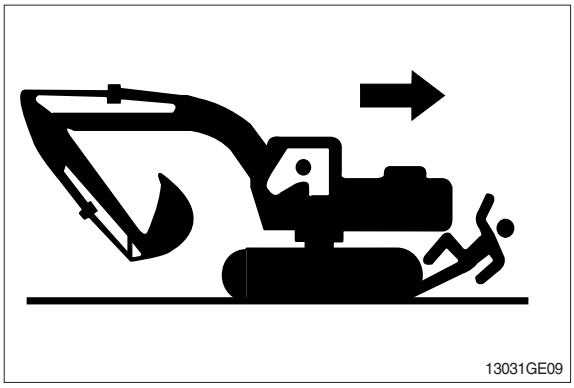

13031GE08

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.

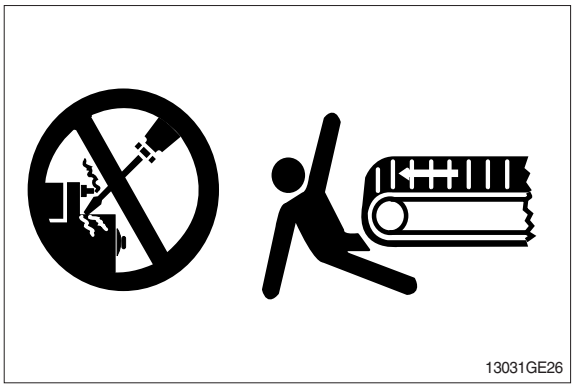
Use a signal person when moving, swinging, or operating the machine in congested areas. Coordinate hand signals before starting the excavator.


13031GE09

OPERATE ONLY FORM 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.


13031GE26

PARK MACHINE SAFELY

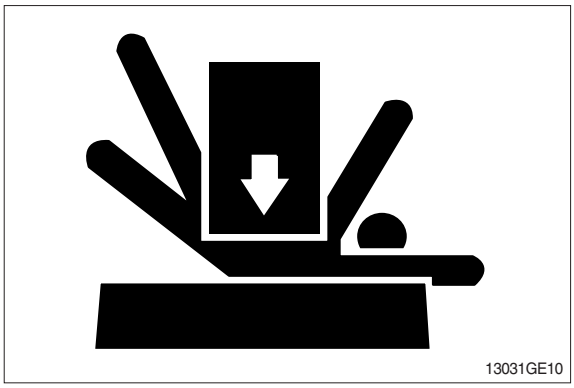
Before working on the machine:

- 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.

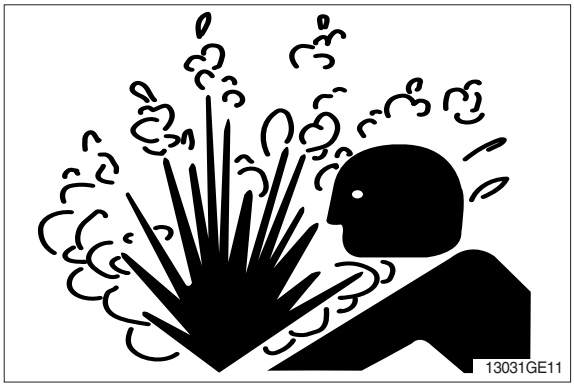
Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load.
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.


13031GE10

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.


13031GE11

HANDLE FLUIDS SAFELY-AVOID FIRES

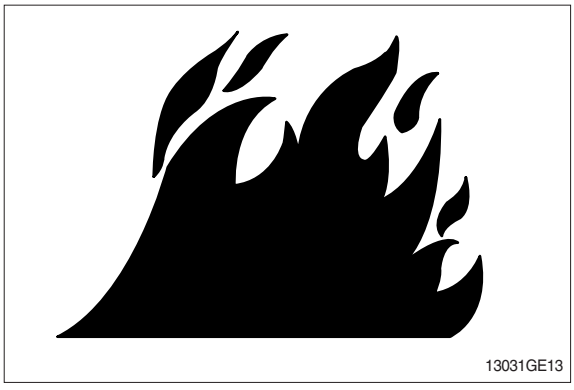
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine.
Fill fuel tank outdoors.


13031GE12

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

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

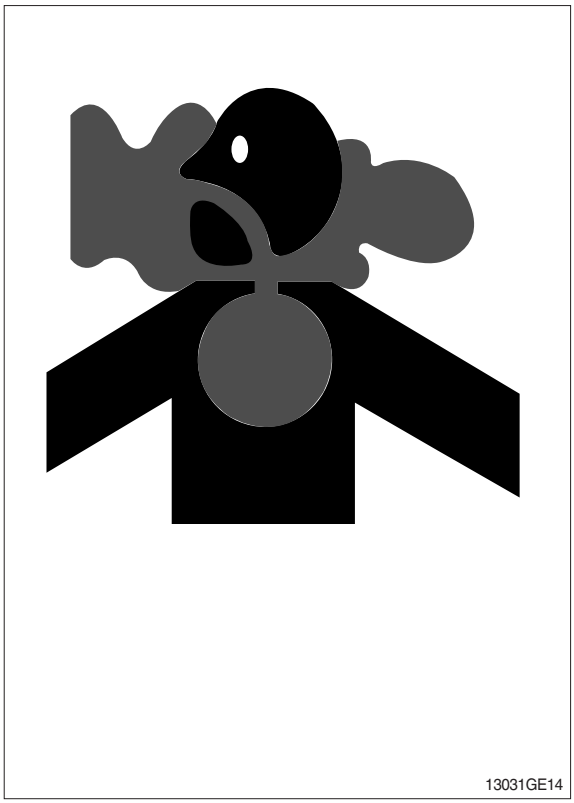
Do not store oily rags; They can ignite and burn spontaneously.


13031GE13

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.


13031GE14

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.

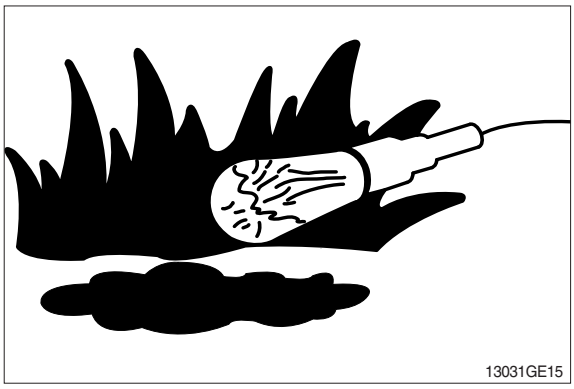
Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

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

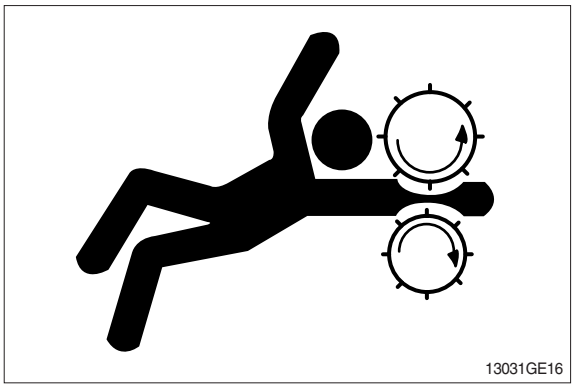
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.


13031GE15

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.

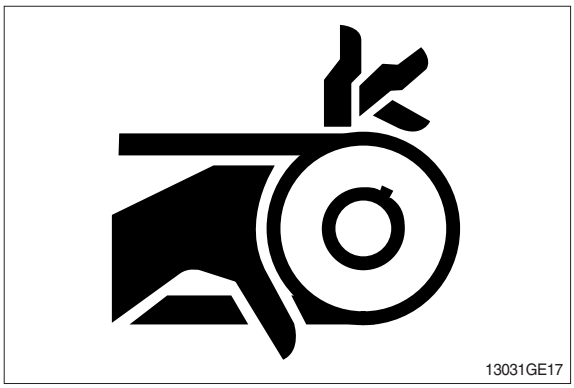
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



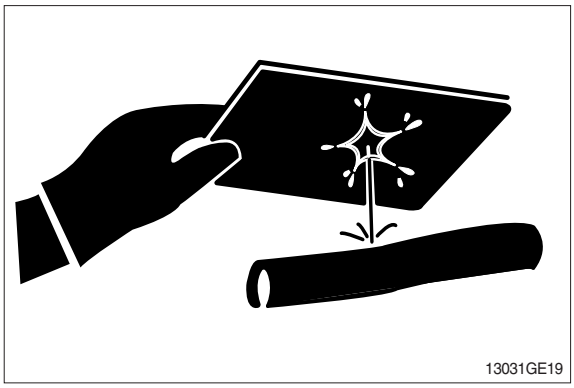
AVOID HIGH PRESSURE FLUIDS

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:

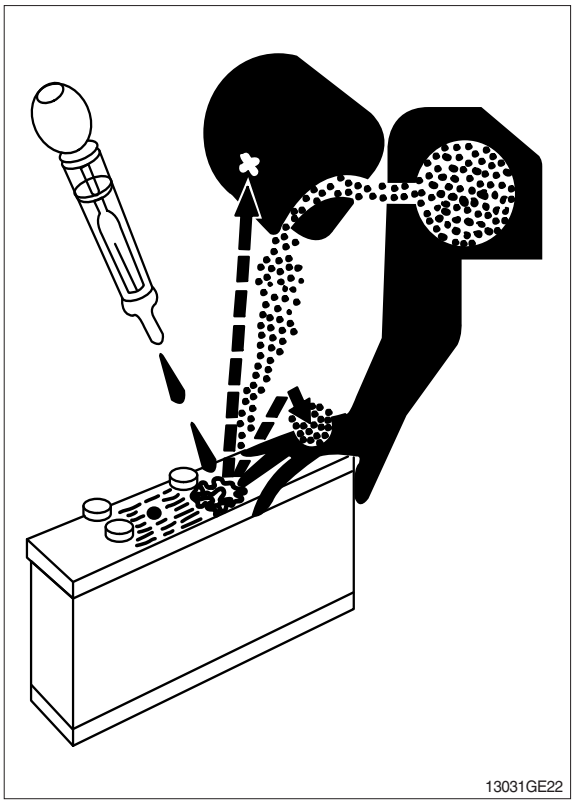
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling of dripping electrolyte.
5. Use proper jump start procedure.

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.



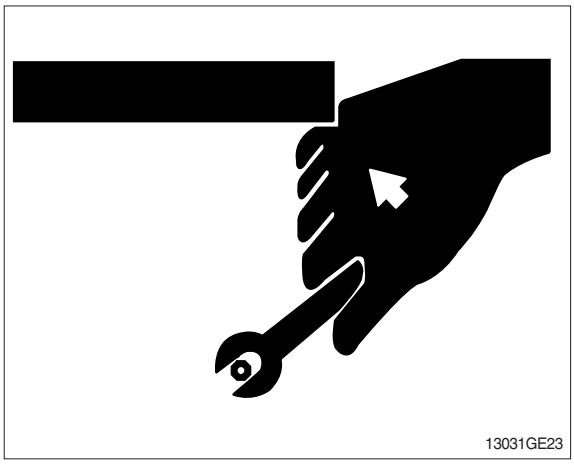
USE TOOLS PROPERLY

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.)

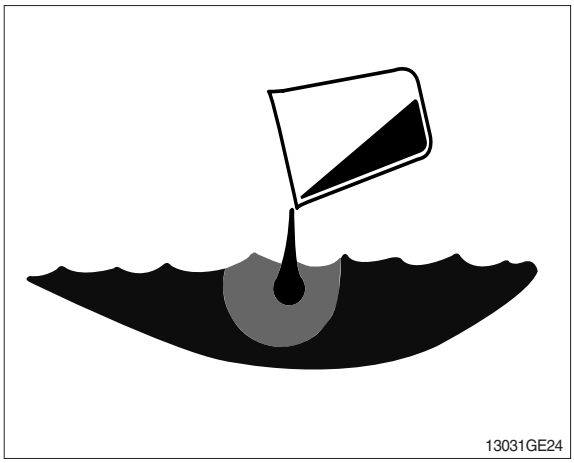


DISPOSE OF FLUIDS PROPERLY

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.

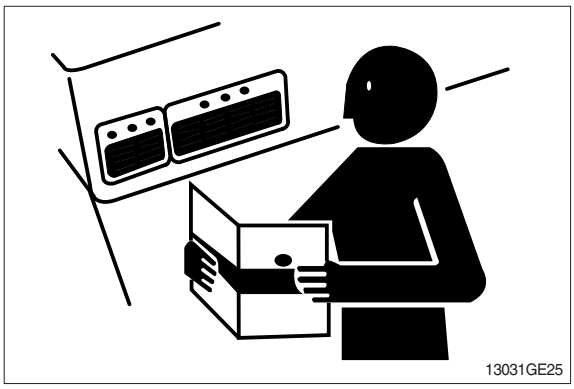
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

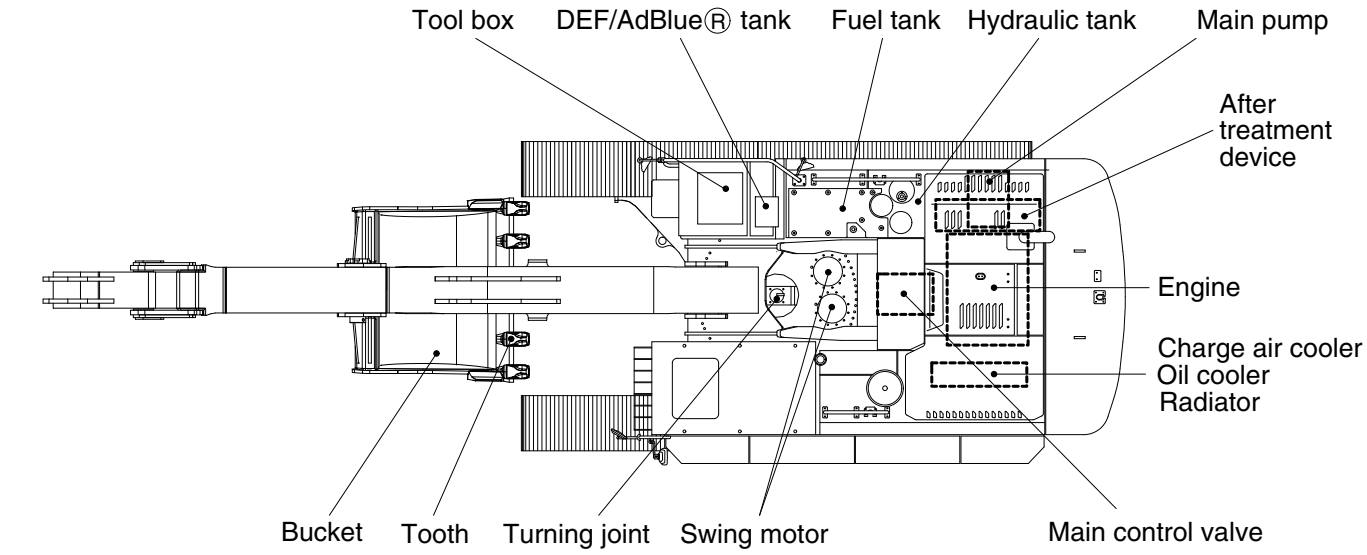


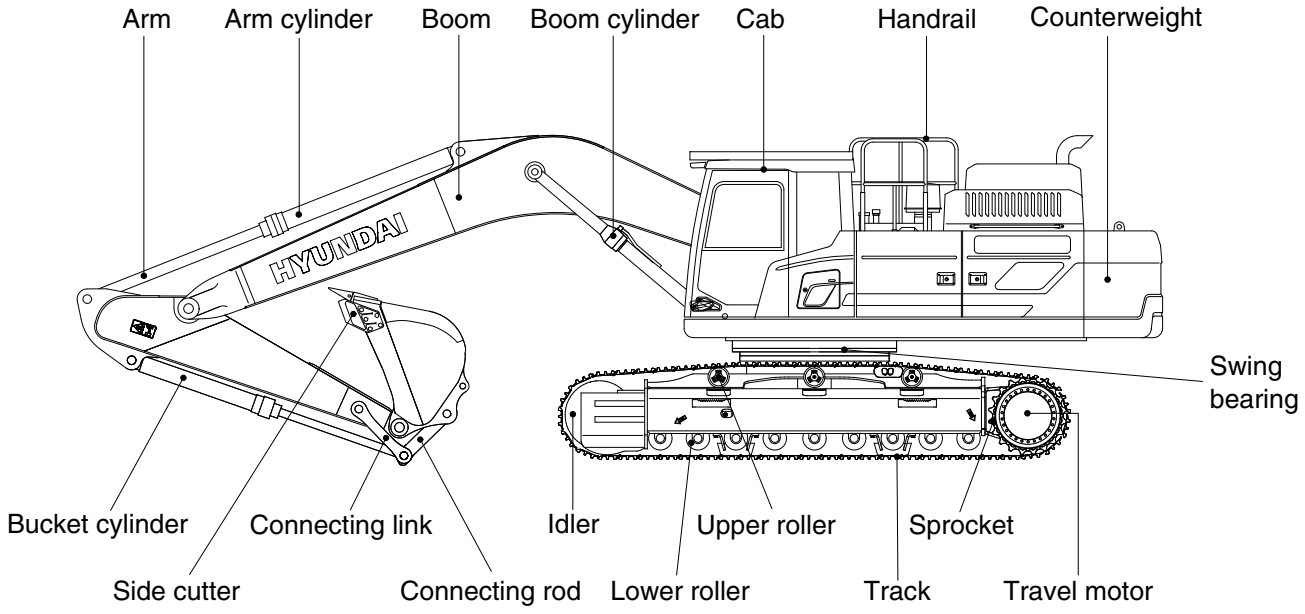
LIVE WITH SAFETY

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

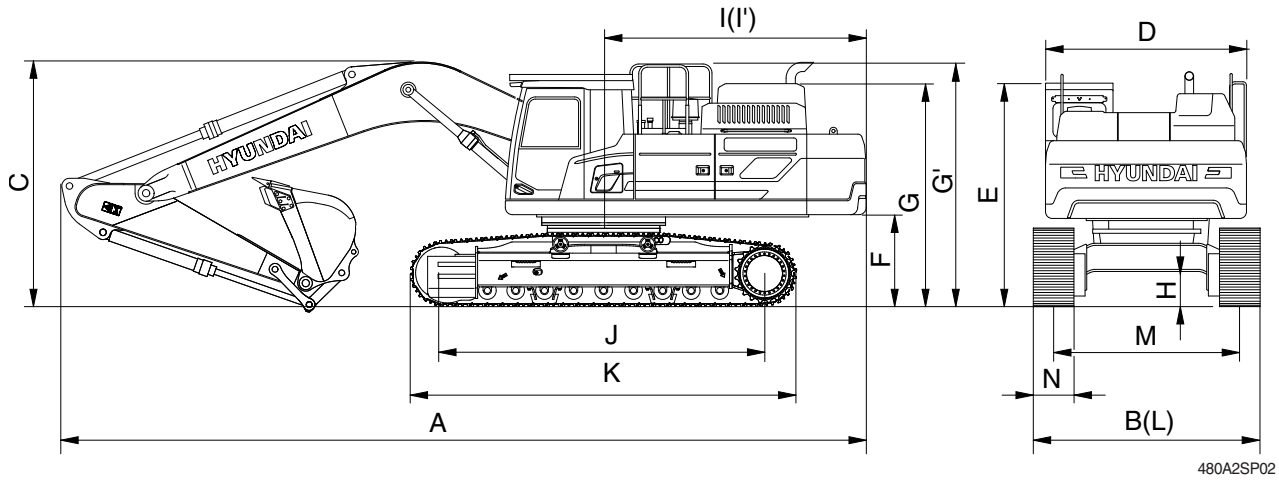




480A2SP01

2. SPECIFICATIONS

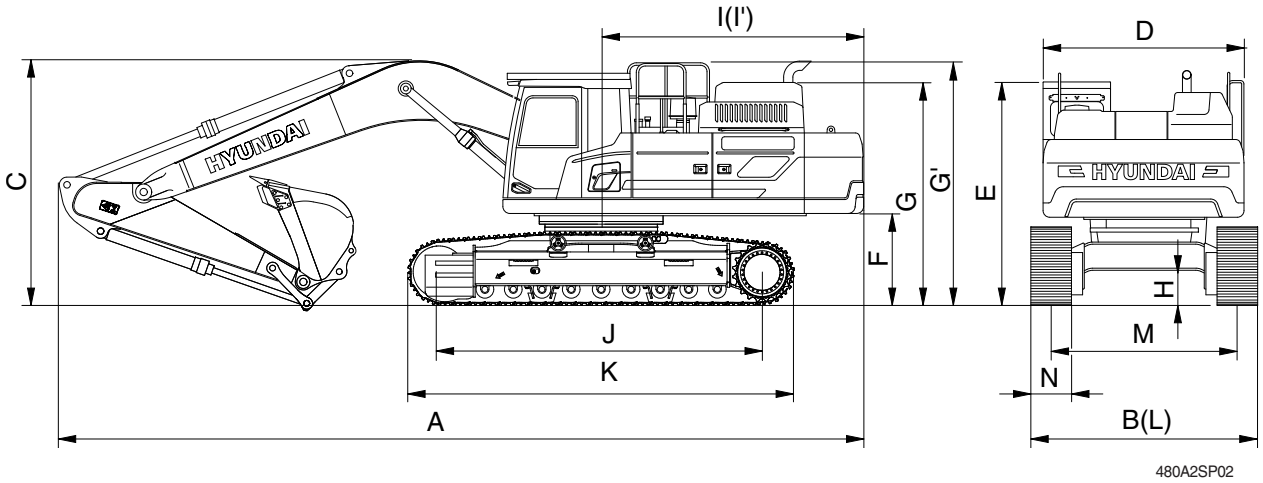
1) HX480A L (1/4)



480A2SP02

Description		Unit		Specification	
		m (ft-in)	Boom	7.06 (23' 2")	
			Arm	3.38 (11' 1")	
		mm (in)	Shoe	600 (24)	800 (32)
Operating weight		kg (lb)		50870 (112150)	51920 (114460)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		2.20 (2.88)	2.20 (2.88)
Overall length	A	mm (ft-in)		12160 (39' 11")	12160 (39' 11")
Overall width	B			3340 (10' 11")	3540 (11' 7")
Overall height of boom	C			3850 (12' 8")	3850 (12' 8")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3220 (10' 7")	3220 (10' 7")
Ground clearance of counterweight	F			1300 (4' 3")	1300 (4' 3")
Overall height of engine hood	G			3016 (9' 11")	3016 (9' 11")
Overall height of handrail	G'			3450 (11' 4")	3450 (11' 4")
Minimum ground clearance	H			565 (1' 10")	565 (1' 10")
Rear-end distance	I			3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")	4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")	5416 (17' 9")
Undercarriage length (with grouser)				5490 (18' 0")	5490 (18' 0")
Undercarriage width	L			3340 (10' 11")	3340 (10' 11")
Track gauge	M			2740 (9' 0")	2740 (9' 0")
Track shoe width, standard	N			600 (24")	800 (32")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.8	8.8
Gradeability		Degree (%)		35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.88 (12.6)	0.68 (9.6)
Max traction force		kg (lb)		39674 (87446)	39674 (87466)

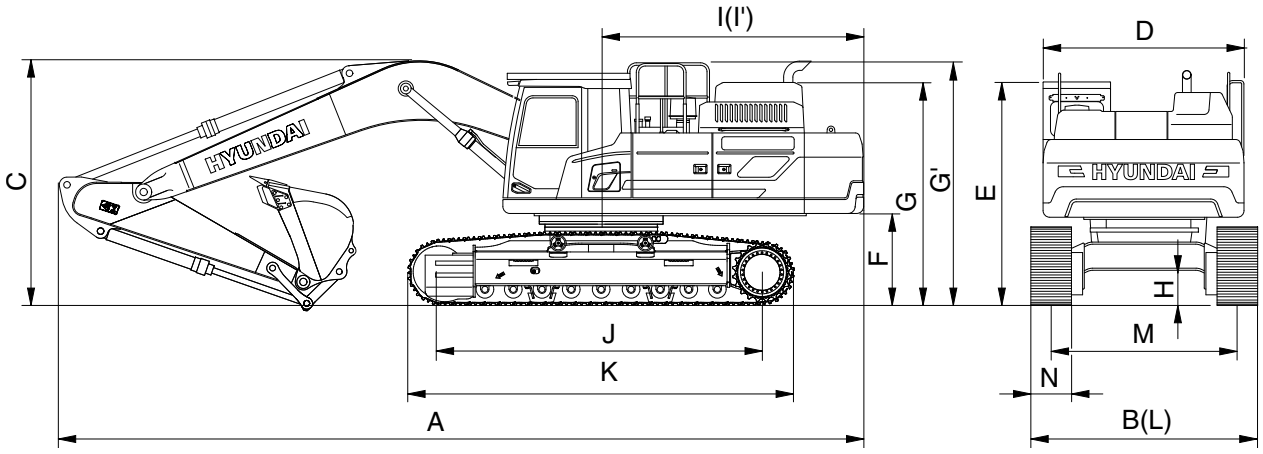
HX480A L (2/4)



480A2SP02

Description		Unit		Specification		
		m (ft-in)	Boom	7.06 (23' 2")		
			Arm	2.90 (9' 6")	4.00 (13' 1")	2.55 (8' 4")
		mm (in)	Shoe	600 (24)		
Operating weight		kg (lb)		50850 (112100)	50920 (112260)	50690 (111750)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		2.20 (2.88)	2.20 (2.88)	2.20 (2.88)
Overall length	A	mm (ft-in)		12220 (40' 1")	12150 (39' 10")	12210 (40' 1")
Overall width	B			3340 (10' 11")	3340 (10' 11")	3340 (10' 11")
Overall height of boom	C			3850 (12' 8")	3890 (12' 9")	3790 (12' 5")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3220 (10' 7")	3220 (10' 7")	3220 (10' 7")
Ground clearance of counterweight	F			1300 (4' 3")	1300 (4' 3")	1300 (4' 3")
Overall height of engine hood	G			3016 (9' 11")	3016 (9' 11")	3016 (9' 11")
Overall height of handrail	G'			3450 (11' 4")	3450 (11' 4")	3450 (11' 4")
Minimum ground clearance	H			565 (1' 10")	565 (1' 10")	565 (1' 10")
Rear-end distance	I			3745 (12' 3")	3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")	3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")	4470 (14' 8")	4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")	5416 (17' 9")	5416 (17' 9")
Undercarriage length (with grouser)				5490 (18' 0")	5490 (18' 0")	5490 (18' 0")
Undercarriage width	L			3340 (10' 11")	3340 (10' 11")	3340 (10' 11")
Track gauge	M			2740 (9' 0")	2740 (9' 0")	2740 (9' 0")
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.8	8.8	8.8
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.88 (12.6)	0.88 (12.6)	0.88 (12.5)
Max traction force		kg (lb)		39674 (87446)	39674 (87446)	39674 (87446)

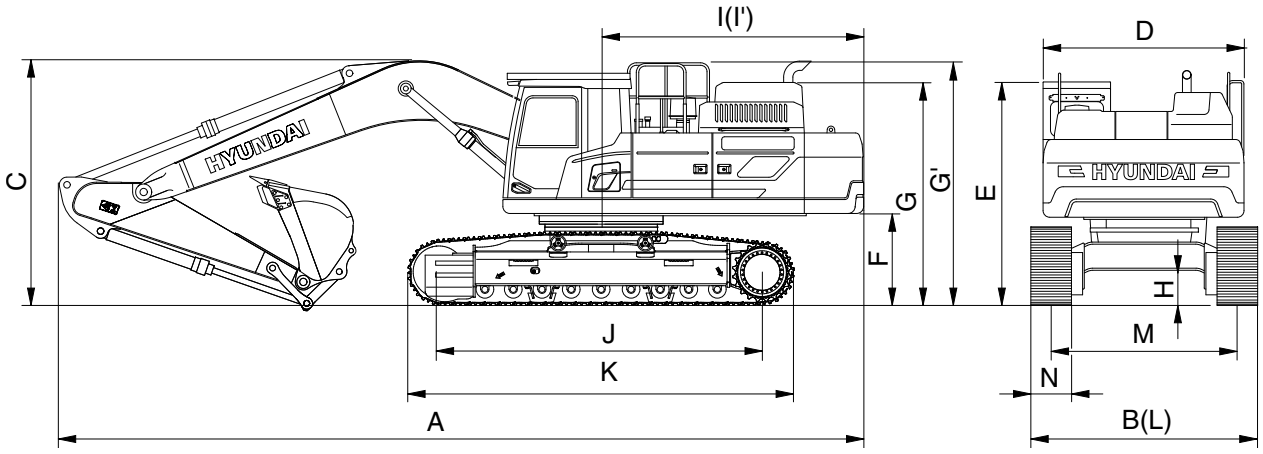
HX480A L (3/4)



480A2SP02

Description		Unit		Specification	
		m (ft-in)	Boom	6.55 (21' 6")	
			Arm	2.90 (9' 6")	2.55 (8' 4")
		mm (in)	Shoe	600 (24)	
Operating weight		kg (lb)		50680 (111730)	50510 (111360)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		2.20 (2.88)	2.20 (2.88)
Overall length	A	mm (ft-in)		11690 (38' 4")	11680 (38' 4")
Overall width	B			3340 (10' 11")	3340 (10' 11")
Overall height of boom	C			3950 (13' 0")	3790 (12' 5")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3220 (10' 7")	3220 (10' 7")
Ground clearance of counterweight	F			1300 (4' 3")	1300 (4' 3")
Overall height of engine hood	G			3016 (9' 11")	3016 (9' 11")
Overall height of handrail	G'			3450 (11' 4")	3450 (11' 4")
Minimum ground clearance	H			565 (1' 10")	565 (1' 10")
Rear-end distance	I			3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")	4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")	5416 (17' 9")
Undercarriage length (with grouser)				5490 (18' 0")	5490 (18' 0")
Undercarriage width	L			3340 (10' 11")	3340 (10' 11")
Track gauge	M			2740 (9' 0")	2740 (9' 0")
Track shoe width, standard	N			600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.8	8.8
Gradeability		Degree (%)		35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.88 (12.5)	0.88 (12.5)
Max traction force		kg (lb)		39674 (87466)	39674 (87466)

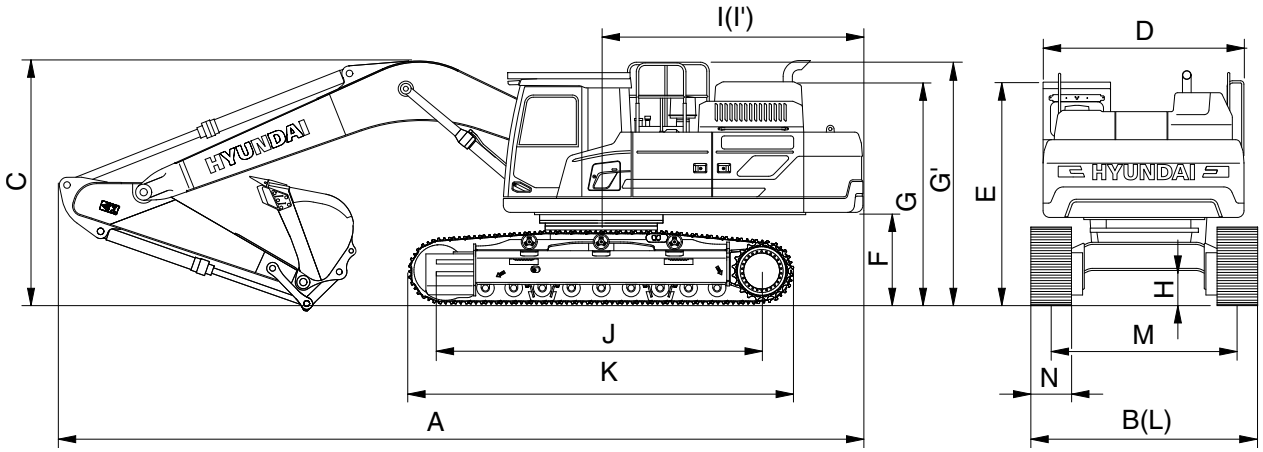
HX480A L (4/4)



480A2SP02

Description		Unit		Specification
		m (ft-in)	Boom	9.00 (29' 6")
			Arm	6.00 (19' 8")
		mm (in)	Shoe	600 (24)
Operating weight		kg (lb)		51790 (114180)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		1.38 (1.8)
Overall length	A	mm (ft-in)		14070 (46' 2")
Overall width	B			3340 (10' 11")
Overall height of boom	C			3970 (13' 0")
Superstructure width	D			2980 (9' 9")
Overall height of cab	E			3220 (10' 7")
Ground clearance of counterweight	F			1300 (4' 3")
Overall height of engine hood	G			3016 (9' 11")
Overall height of handrail	G'			3450 (11' 4")
Minimum ground clearance	H			565 (1' 10")
Rear-end distance	I			3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")
Undercarriage length (with grouser)				5490 (18' 0")
Undercarriage width	L			3340 (10' 11")
Track gauge	M			2740 (9' 0")
Track shoe width, standard	N			600 (24")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.8
Gradeability		Degree (%)		35 (70)
Ground pressure		kgf/cm^2 (psi)		0.90 (12.8)
Max traction force		kg (lb)		39674 (87466)

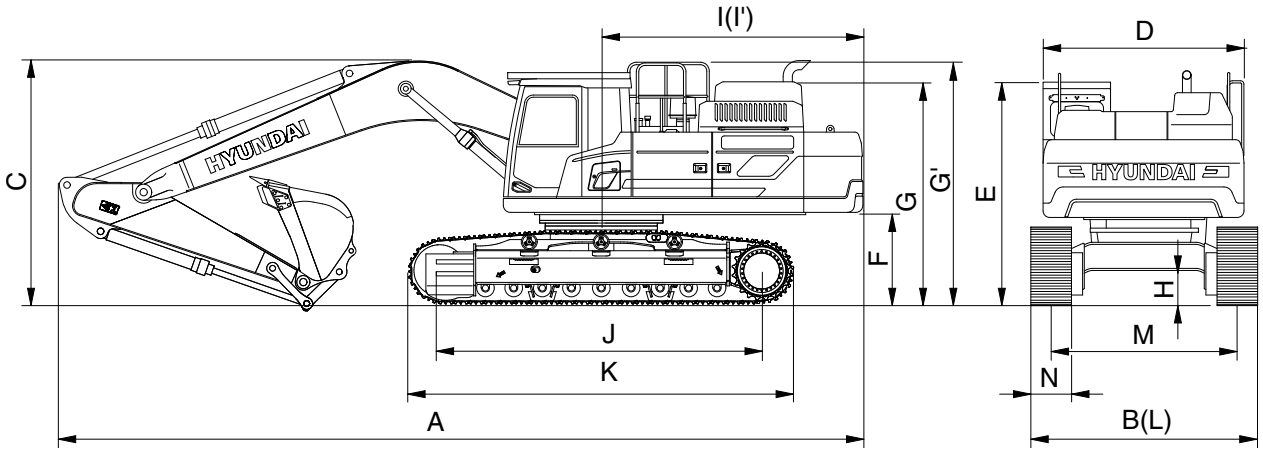
2) HX520A L (1/4)



520A2SP03

Description		Unit		Specification	
		m (ft-in)	Boom	7.06 (23' 2")	
			Arm	3.38 (11' 1")	
		mm (in)	Shoe	600 (24)	800 (32)
Operating weight		kg (lb)		52900 (116620)	53950 (118940)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		2.20 (2.88)	2.20 (2.88)
Overall length	A	mm (ft-in)		12160 (39' 11")	12160 (39' 11")
Overall width (transport position)	B			2980 (9' 9")	3180 (10' 5")
Overall width (working position)				3540 (11' 7")	3740 (12' 3")
Overall height of boom	C			3850 (12' 8")	3850 (12' 8")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3365 (11' 0")	3365 (11' 0")
Ground clearance of counterweight	F			1445 (4' 9")	1445 (4' 9")
Overall height of engine hood	G			3310 (10' 10")	3310 (10' 10")
Overall height of handrail	G'			3595 (11' 10")	3595 (11' 10")
Minimum ground clearance	H			770 (2' 6")	770 (2' 6")
Rear-end distance	I			3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")	4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")	5416 (17' 9")
Undercarriage length (with grouser)				5490 (18' 0")	5490 (18' 0")
Undercarriage width (transport position)	L			2980 (9' 9")	2980 (9' 9")
Undercarriage width (working position)				3540 (11' 7")	3540 (11' 7")
Track gauge (transport position)	M			2380 (7' 10")	2380 (7' 10")
Track gauge (working position)				2940 (9' 8")	2940 (9' 8")
Track shoe width, standard	N			600 (24")	800 (32")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.8	8.8
Gradeability		Degree (%)		35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.92 (13.1)	0.70 (10.0)
Max traction force		kg (lb)		39674 (87466)	39674 (87466)

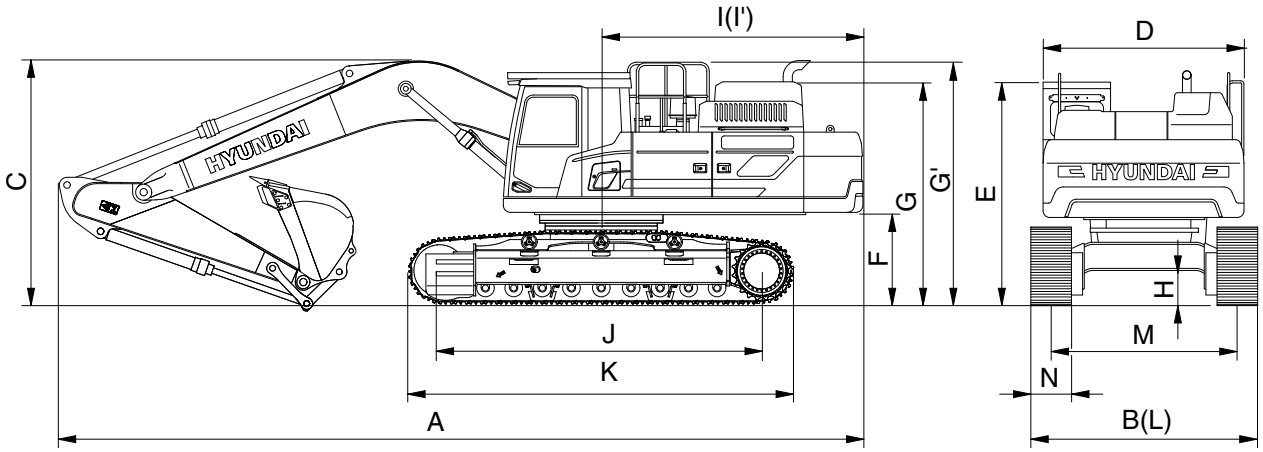
HX520A L (2/4)



520A2SP03

Description		Unit		Specification		
		m (ft-in)	Boom	7.06 (23' 2")		
			Arm	2.90 (9' 6")	4.00 (13' 1")	2.55 (8' 4")
		mm (in)	Shoe	600 (24)		
Operating weight		kg (lb)		52830 (116470)	52880 (116580)	52650 (116070)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		2.20 (2.88)	2.20 (2.88)	2.20 (2.88)
Overall length	A	mm (ft-in)		12210 (40' 1")	12150 (39' 10")	12200 (40' 0")
Overall width (transport position)	B			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall width (working position)				3540 (11' 7")	3540 (11' 7")	3540 (11' 7")
Overall height of boom	C			3890 (12' 9")	3980 (13' 1")	3830 (12' 7")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3365 (11' 0")	3365 (11' 0")	3365 (11' 0")
Ground clearance of counterweight	F			1445 (4' 9")	1445 (4' 9")	1445 (4' 9")
Overall height of engine hood	G			3310 (10' 10")	3310 (10' 10")	3310 (10' 10")
Overall height of handrail	G'			3595 (11' 10")	3595 (11' 10")	3595 (11' 10")
Minimum ground clearance	H			770 (2' 6")	770 (2' 6")	770 (2' 6")
Rear-end distance	I			3745 (12' 3")	3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")	3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")	4470 (14' 8")	4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")	5416 (17' 9")	5416 (17' 9")
Undercarriage length (with grouser)				5490 (18' 0")	5490 (18' 0")	5490 (18' 0")
Undercarriage width (transport position)	L			2980 (9' 9")	2980 (9' 9")	2980 (9' 9")
Undercarriage width (working position)				3540 (11' 7")	3540 (11' 7")	3540 (11' 7")
Track gauge (transport position)	M			2380 (7' 10")	2380 (7' 10")	2380 (7' 10")
Track gauge (working position)				2940 (9' 8")	2940 (9' 8")	2940 (9' 8")
Track shoe width, standard	N			600 (24")	600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.8	8.8	8.8
Gradeability		Degree (%)		35 (70)	35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.92 (13.0)	0.92 (13.1)	0.91 (13.0)
Max traction force		kg (lb)		39674 (87466)	39674 (87466)	39674 (87466)

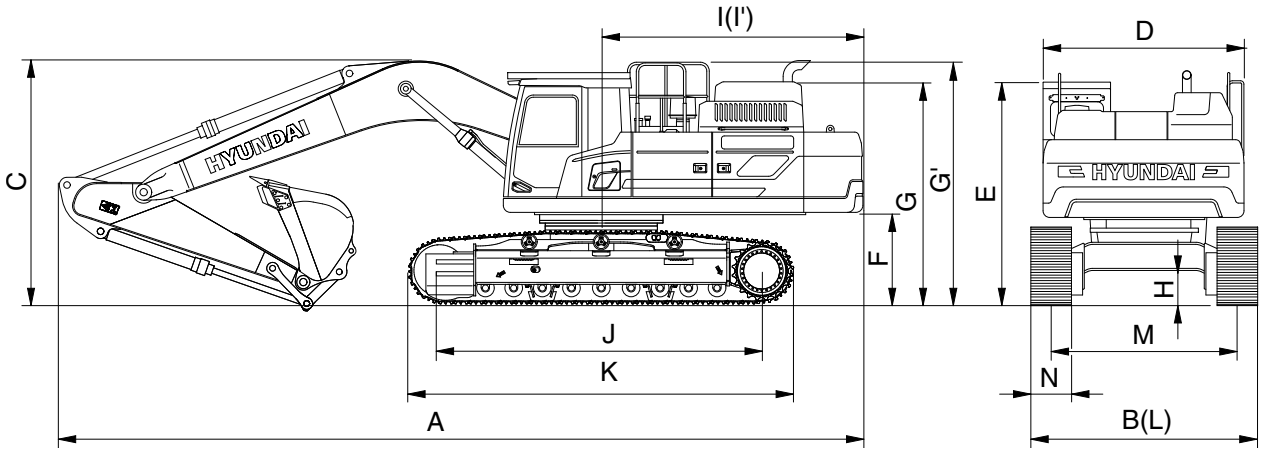
HX520A L (3/4)



520A2SP03

Description		Unit		Specification	
		m (ft-in)	Boom	6.55 (21' 6")	
			Arm	2.90 (9' 6")	2.55 (8' 4")
		mm (in)	Shoe	600 (24)	
Operating weight		kg (lb)		52610 (115990)	52440 (115610)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		2.20 (2.88)	2.20 (2.88)
Overall length	A	mm (ft-in)		11690 (38' 4")	11680 (38' 4")
Overall width (transport position)	B			2980 (9' 9")	2980 (9' 9")
Overall width (working position)				3540 (11' 7")	3540 (11' 7")
Overall height of boom	C			3970 (13' 0")	3920 (12' 10")
Superstructure width	D			2980 (9' 9")	2980 (9' 9")
Overall height of cab	E			3365 (11' 0")	3365 (11' 0")
Ground clearance of counterweight	F			1445 (4' 9")	1445 (4' 9")
Overall height of engine hood	G			3310 (10' 10")	3310 (10' 10")
Overall height of handrail	G'			3595 (11' 10")	3595 (11' 10")
Minimum ground clearance	H			770 (2' 6")	770 (2' 6")
Rear-end distance	I			3745 (12' 3")	3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")	3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")	4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")	5416 (17' 9")
Undercarriage length (with grouser)				5490 (18' 0")	5490 (18' 0")
Undercarriage width (transport position)	L			2980 (9' 9")	2980 (9' 9")
Undercarriage width (working position)				3540 (11' 7")	3540 (11' 7")
Track gauge (transport position)	M			2380 (7' 10")	2380 (7' 10")
Track gauge (working position)				2940 (9' 8")	2940 (9' 8")
Track shoe width, standard	N			600 (24")	600 (24")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)	3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.8	8.8
Gradeability		Degree (%)		35 (70)	35 (70)
Ground pressure		kgf/cm^2 (psi)		0.91 (13.0)	0.91 (12.9)
Max traction force		kg (lb)		39674 (87466)	39674 (87466)

HX520A L (4/4)

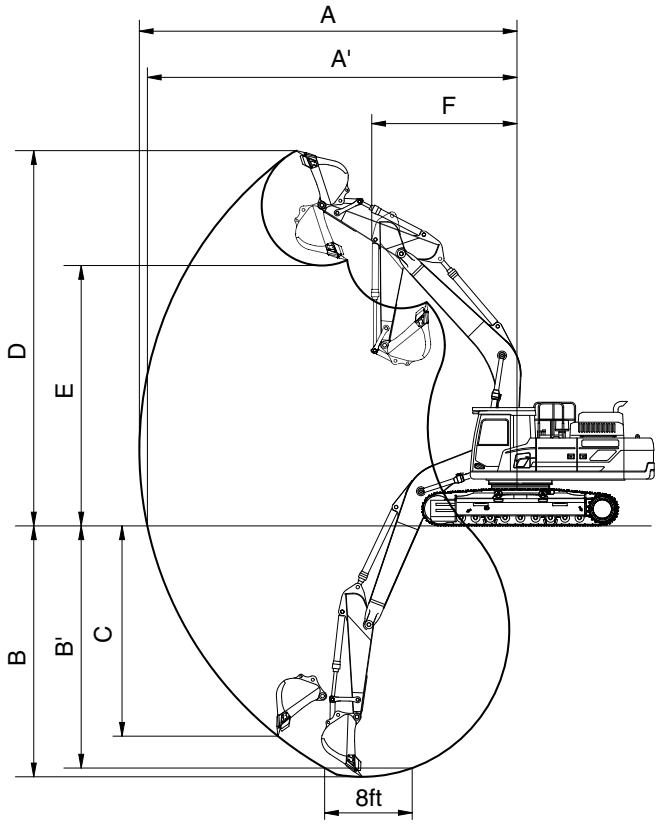


520A2SP03

Description		Unit		Specification
		m (ft-in)	Boom	9.00 (29' 6")
			Arm	6.00 (19' 8")
		mm (in)	Shoe	600 (24)
Operating weight		kg (lb)		53450 (117840)
Bucket capacity (SAE heaped), standard		m^3 (yd^3)		1.38 (1.8)
Overall length	A	mm (ft-in)		14080 (46' 2")
Overall width (transport position)	B			2980 (9' 9")
Overall width (working position)				3540 (11' 7")
Overall height of boom	C			3970 (13' 0")
Superstructure width	D			2980 (9' 9")
Overall height of cab	E			3365 (11' 0")
Ground clearance of counterweight	F			1445 (4' 9")
Overall height of engine hood	G			3310 (10' 10")
Overall height of handrail	G'			3595 (11' 10")
Minimum ground clearance	H			770 (2' 6")
Rear-end distance	I			3745 (12' 3")
Rear-end swing radius	I'			3800 (12' 6")
Distance between tumblers	J			4470 (14' 8")
Undercarriage length (without grouser)	K			5416 (17' 9")
Undercarriage length (with grouser)				5490 (18' 0")
Undercarriage width (transport position)	L			2980 (9' 9")
Undercarriage width (working position)				3540 (11' 7")
Track gauge (transport position)	M			2380 (7' 10")
Track gauge (working position)				2940 (9' 8")
Track shoe width, standard	N			600 (24")
Travel speed (low/high)		km/hr (mph)		3.3/5.3 (2.1/3.3)
Swing speed		rpm		8.8
Gradeability		Degree (%)		35 (70)
Ground pressure		kgf/cm^2 (psi)		0.93 (13.2)
Max traction force		kg (lb)		39674 (87466)

3. WORKING RANGE AND DIGGING FORCE

1) HX480A L (1/2)

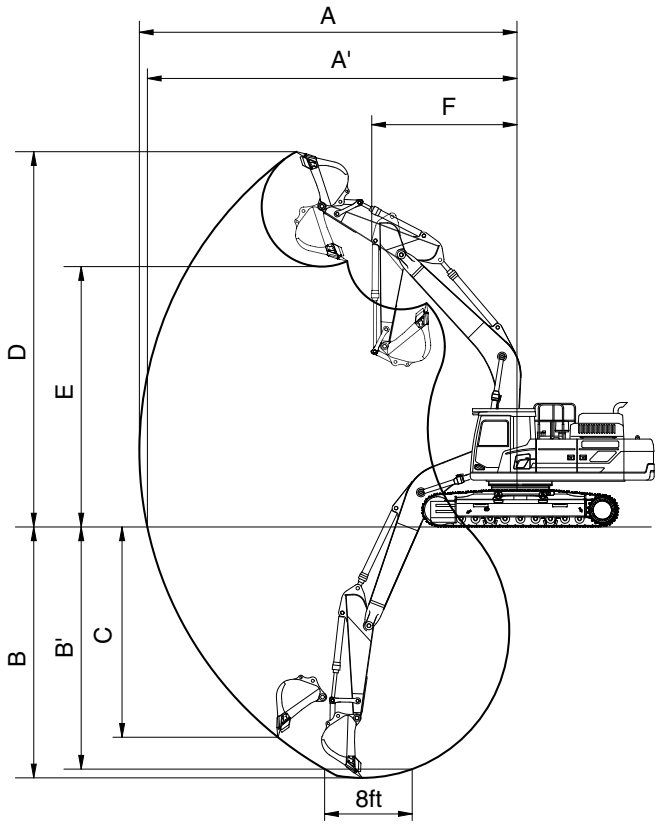


480A2SP05

Description	m (ft-in)	Boom	7.06 (23' 2")			
		Arm	2.55 (8' 4")	2.90 (9' 6")	3.38 (11' 1")	4.00 (13' 1")
Max digging reach	mm (ft-in)	A	11410 (37' 5")	11670 (38' 3")	12060 (39' 7")	12610 (41' 4")
Max digging reach on ground		A'	11190 (36' 9")	11460 (37' 7")	11850 (38' 11")	12410 (40' 9")
Max digging depth		B	6900 (22' 8")	7250 (23' 9")	7730 (25' 4")	8350 (27' 5")
Max digging depth (8 ft level)		B'	6730 (22' 1")	7090 (23' 3")	7590 (24' 11")	8220 (27' 0")
Max vertical wall digging depth		C	5280 (17' 4")	5710 (18' 9")	5490 (18' 0")	6170 (20' 3")
Max digging height		D	11070 (36' 4")	11090 (36' 5")	11060 (36' 3")	11330 (37' 2")
Max dumping height		E	7600 (24' 11")	7630 (25' 0")	7710 (25' 4")	7920 (26' 0")
Min swing radius		F	4820 (15' 10")	4880 (16' 0")	4870 (16' 0")	4630 (15' 2")
Bucket digging force	kN	SAE	212.8 [231.0]	212.8 [231.0]	212.8 [231.0]	212.8 [231.0]
	kgf		21700 [23560]	21700 [23560]	21700 [23560]	21700 [23560]
	lbf		47840 [51941]	47840 [51941]	47840 [51941]	47840 [51941]
	kN	ISO	247.1 [268.3]	247.1 [268.3]	247.1 [268.3]	247.1 [268.3]
	kgf		25200 [27360]	25200 [27360]	25200 [27360]	25200 [27360]
	lbf		55556 [60318]	55556 [60318]	55556 [60318]	55556 [60318]
Arm digging force	kN	SAE	235.4 [255.6]	218.7 [237.4]	198.1 [215.1]	173.6 [188.5]
	kgf		24000 [26060]	22300 [24210]	20200 [21930]	17700 [19220]
	lbf		52911 [57452]	49163 [53374]	44533 [48347]	39022 [42373]
	kN	ISO	246.1 [267.2]	227.5 [247.0]	205.0 [222.5]	179.5 [194.9]
	kgf		25100 [27250]	23200 [25190]	20900 [22690]	18300 [19870]
	lbf		55336 [60076]	51147 [55534]	46077 [50023]	40345 [43806]

[ ] : Power boost

HX480A L (2/2)

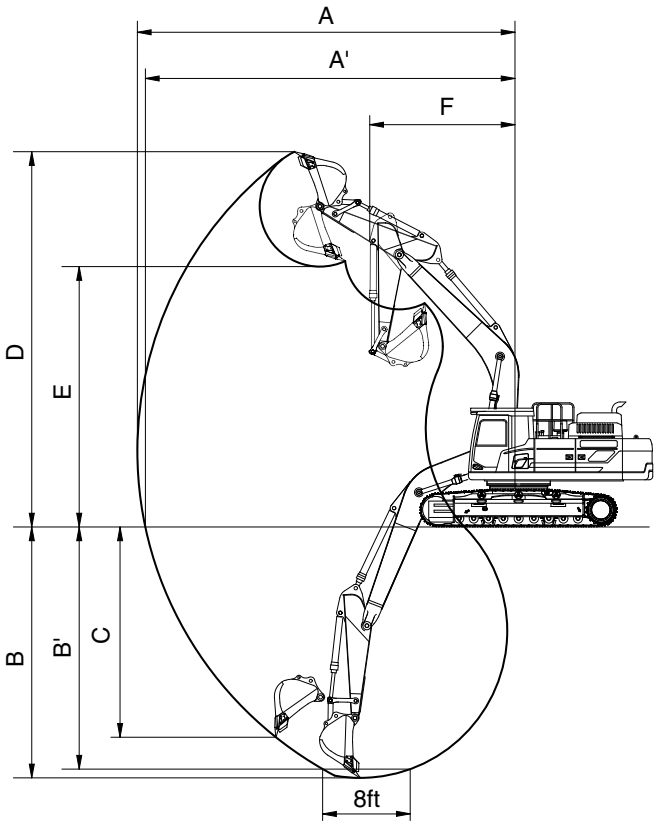


480A2SP05

Description	m (ft-in)	Boom	6.55 (21' 6")		9.00 (29' 6")
		Arm	2.90 (9' 6")	2.55 (8' 4")	6.00 (19' 8")
Max digging reach	mm (ft-in)	A	11130 (36' 6")	10870 (35' 8")	16110 (52' 10")
Max digging reach on ground		A'	10910 (35' 10")	10640 (34' 11")	15950 (52' 4")
Max digging depth		B	6810 (22' 4")	6460 (21' 2")	11710 (38' 5")
Max digging depth (8 ft level)		B'	6650 (21' 10")	6290 (20' 8")	11620 (38' 1")
Max vertical wall digging depth		C	4750 (15' 7")	4840 (15' 11")	8660 (28' 5")
Max digging height		D	10630 (34' 11")	10670 (35' 0")	13100 (43' 0")
Max dumping height		E	7240 (23' 9")	7210 (23' 8")	9800 (32' 2")
Min swing radius		F	4450 (14' 7")	4440 (14' 7")	5630 (18' 6")
Bucket digging force	kN	SAE	212.8 [231.0]	240.3 [260.9]	212.8 -
	kgf		21700 [23560]	24500 [26600]	21700 -
	lbf		47840 [51941]	54013 [58643]	47840 -
	kN	ISO	247.1 [268.3]	279.5 [303.4]	247.1 -
	kgf		25200 [27360]	28500 [30940]	25200 -
	lbf		55556 [60318]	62832 [68211]	55556 -
Arm digging force	kN	SAE	218.7 [237.4]	235.4 [255.6]	127.5 -
	kgf		22300 [24210]	24000 [26060]	13000 -
	lbf		49163 [53374]	52911 [57452]	28660 -
	kN	ISO	227.5 [247.0]	246.1 [267.2]	130.4 -
	kgf		23200 [25190]	25100 [27250]	13300 -
	lbf		51147 [55534]	55336 [60076]	29321 -

[ ] : Power boost

2) HX520A L (1/2)

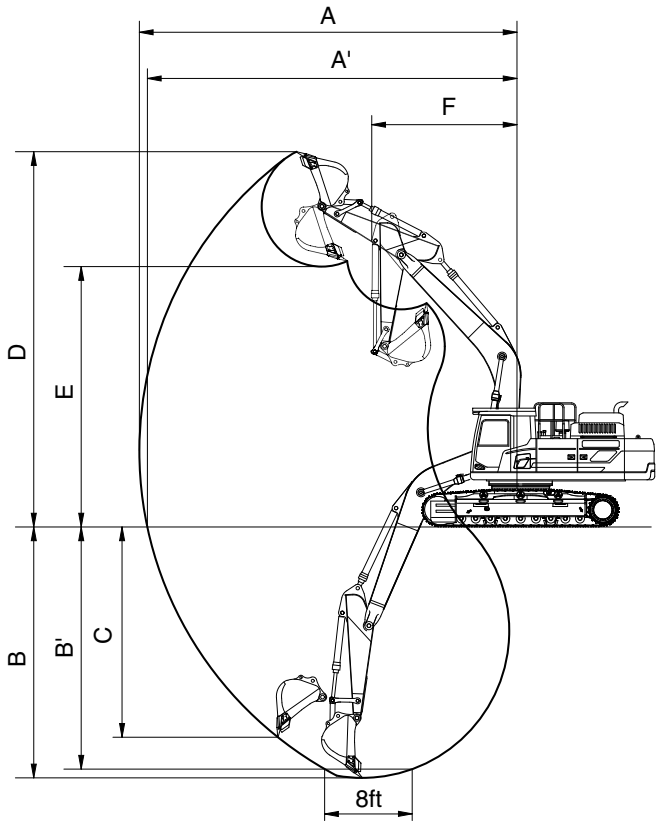


520A2SP06

Description	m (ft-in)	Boom	7.06 (23' 2")			
		Arm	2.55 (8' 4")	2.90 (9' 6")	3.38 (11' 1")	4.00 (13' 1")
Max digging reach	mm (ft-in)	A	11410 (37' 5")	11670 (38' 3")	12060 (39' 7")	12610 (41' 4")
Max digging reach on ground		A'	11170 (36' 8")	11440 (37' 6")	11840 (38' 10")	12400 (40' 8")
Max digging depth		B	6820 (22' 5")	7170 (23' 6")	7650 (25' 1")	8270 (27' 2")
Max digging depth (8 ft level)		B'	6650 (21' 10")	7010 (23' 0")	7510 (24' 8")	8140 (26' 8")
Max vertical wall digging depth		C	5200 (17' 1")	5630 (18' 6")	5410 (17' 9")	6090 (20' 0")
Max digging height		D	11150 (36' 7")	11170 (36' 8")	11140 (36' 7")	11410 (37' 5")
Max dumping height		E	7680 (25' 2")	7710 (25' 4")	7790 (25' 7")	8000 (26' 3")
Min swing radius		F	4820 (15' 10")	4880 (16' 0")	4870 (16' 0")	4630 (15' 2")
Bucket digging force	kN	SAE	240.3 [260.9]	240.3 [260.9]	240.3 [260.9]	240.3 [260.9]
	kgf		24500 [26600]	24500 [26600]	24500 [26600]	24500 [26600]
	lbf		54013 [58643]	54013 [58643]	54013 [58643]	54013 [58643]
	kN	ISO	279.5 [303.4]	279.5 [303.4]	279.5 [303.4]	279.5 [303.4]
	kgf		28500 [30940]	28500 [30940]	28500 [30940]	28500 [30940]
	lbf		62832 [68211]	62832 [68211]	62832 [68211]	62832 [68211]
Arm digging force	kN	SAE	235.4 [255.6]	218.7 [237.4]	198.1 [215.1]	173.6 [188.5]
	kgf		24000 [26060]	22300 [24210]	20200 [21930]	17700 [19220]
	lbf		52911 [57452]	49163 [53374]	44533 [48347]	39022 [42373]
	kN	ISO	246.1 [267.2]	227.5 [247.0]	205.0 [222.5]	179.5 [194.9]
	kgf		25100 [27250]	23200 [25190]	20900 [22690]	18300 [19870]
	lbf		55336 [60076]	51147 [55534]	46077 [50023]	40345 [43806]

[ ] : Power boost

HX520A L (2/2)



520A2SP06

Description	m (ft-in)	Boom	6.55 (21' 6")		9.00 (29' 6")
		Arm	2.90 (9' 6")	2.55 (8' 4")	6.00 (19' 8")
Max digging reach	mm (ft-in)	A	11130 (36' 6")	10870 (35' 8")	16110 (52' 10")
Max digging reach on ground		A'	10890 (35' 9")	10610 (34' 10")	15940 (52' 4")
Max digging depth		B	6730 (22' 1")	6380 (20' 11")	11550 (37' 11")
Max digging depth (8 ft level)		B'	6570 (21' 7")	6210 (20' 4")	11450 (37' 7")
Max vertical wall digging depth		C	4820 (15' 10")	4760 (15' 7")	8580 (28' 2")
Max digging height		D	10710 (35' 2")	10760 (35' 4")	13180 (43' 3")
Max dumping height		E	7320 (24' 0")	7290 (23' 11")	9880 (32' 5")
Min swing radius		F	4450 (14' 7")	4440 (14' 7")	5630 (18' 6")
Bucket digging force	kN	SAE	240.3 [260.9]	240.3 [260.9]	212.8 -
	kgf		24500 [26600]	24500 [26600]	21700 -
	lbf		54013 [58643]	54013 [58643]	47840 -
	kN	ISO	279.5 [303.4]	279.5 [303.4]	247.1 -
	kgf		28500 [30940]	28500 [30940]	25200 -
	lbf		62832 [68211]	62832 [68211]	55556 -
Arm digging force	kN	SAE	218.7 [237.4]	235.4 [255.6]	127.5 -
	kgf		22300 [24210]	24000 [26060]	13000 -
	lbf		49163 [53374]	52911 [57452]	28660 -
	kN	ISO	227.5 [247.0]	246.1 [267.2]	130.4 -
	kgf		23200 [25190]	25100 [27250]	13300 -
	lbf		51147 [55534]	55336 [60076]	29321 -

[ ] : Power boost

4. WEIGHT

Item	HX480A L		HX520A L	
	kg	lb	kg	lb
Upperstructure assembly				
· Main frame weld assembly	4,334	9,555	4,334	9,555
· Engine assembly	860	1,896	860	1,896
· Aftertreatment assembly	149	328	149	328
· Main pump assembly	194	428	194	428
· Main control valve assembly	421	928	421	928
· Swing motor assembly	680	1,499	680	1,499
· Hydraulic oil tank WA	290	639	290	639
· Fuel tank WA	347	765	347	765
· Counterweight	9,200	20,282	10,200	22,487
· Cab assembly	495	1,092	495	1,092
Lower chassis assembly				
· Track frame weld assembly	7,107	15,668	7,888	17,390
· Swing bearing	719	1,585	719	1,585
· Travel motor assembly (2EA)	1,264	2,787	1,264	2,787
· Turning joint	96	212	96	212
· Sprocket (2EA)	188	415	188	415
· Track recoil spring (2EA)	653	1,440	653	1,440
· Idler (2EA)	639	1,408	639	1,408
· Upper roller (HX480LA - 4EA / HX520LA - 4EA / 6EA)	350.92	774	243.84	538
· Lower roller (18EA)	1,579	3,481	1,531	3,375
· Track-chain assembly (600 mm triple grouser shoe) (2EA)	5,534	12,200	5,534	12,200
· Track-chain assembly (700 mm triple grouser shoe) (2EA)	6,054	13,347	6,054	13,347
· Track-chain assembly (800 mm triple grouser shoe) (2EA)	6,584	14,515	6,584	14,515
· Track-chain assembly (900 mm triple grouser shoe) (2EA)	7,092	15,635	-	
· Track-chain assembly (600 mm double grouser shoe) (2EA)	5,566	12,271	5,566	12,271
· Track-chain assembly (700 mm double grouser shoe) (2EA)	6,096	13,439	6,096	13,439
Front attachment assembly				
· 7.06 m boom assembly	3,640	8,025	3,640	8,025
· 3.38 m arm assembly	1,845	4,067	1,845	4,067
· 2.20 m^3 SAE heaped bucket	2,020	4,453	2,020	4,453
· Boom cylinder assembly (2EA)	370	816	370	816
· Arm cylinder assembly	589	1,299	589	1,299
· Bucket cylinder assembly	363	800	363	800
· Bucket control linkage total	280	617	280	617

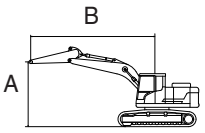
※ This information is different with operating and transportation weight because it is not including harness, pipe, oil, fuel so on.

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

5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX480A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	3380	9200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg							*9510	*9510			*9450	*9450	7.51
	lb							*20970	*20970			*20830	*20830	(24.6)
7.5 m (24.6 ft)	kg							*10350	*10350			*8950	8370	8.65
	lb							*22820	*22820			*19730	18450	(28.4)
6.0 m (19.7 ft)	kg							*10850	10480	*9990	7740	*8830	7130	9.41
	lb							*23920	23100	*22020	17060	*19470	15720	(30.9)
4.5 m (14.8 ft)	kg			*18480	*18480	*14010	*14010	*11700	10060	*10330	7540	*8960	6420	9.89
	lb			*40740	*40740	*30890	*30890	*25790	22180	*22770	16620	*19750	14150	(32.5)
3.0 m (9.8 ft)	kg					*15810	13210	*12650	9580	*10790	7290	*9350	6040	10.12
	lb					*34860	29120	*27890	21120	*23790	16070	*20610	13320	(33.2)
1.5 m (4.9 ft)	kg					*17100	12500	*13410	9160	*11150	7050	*9890	5910	10.13
	lb					*37700	27560	*29560	20190	*24580	15540	*21800	13030	(33.2)
0.0 m (0.0 ft)	kg			*17130	*17130	*17540	12080	*13740	8860	*11240	6880	*9970	6010	9.91
	lb			*37770	*37770	*38670	26630	*30290	19530	*24780	15170	*21980	13250	(32.5)
-1.5 m (-4.9 ft)	kg	*12220	*12220	*22260	18360	*17080	11920	*13470	8730	*10780	6820	*10000	6400	9.44
	lb	*26940	*26940	*49070	40480	*37650	26280	*29700	19250	*23770	15040	*22050	14110	(31.0)
-3.0 m (-9.8 ft)	kg	*20690	*20690	*19920	18560	*15660	11980	*12340	8760			*9900	7230	8.69
	lb	*45610	*45610	*43920	40920	*34520	26410	*27210	19310			*21830	15940	(28.5)
-4.5 m (-14.8 ft)	kg	*19790	*19790	*16250	*16250	*12920	12250	*9580	9040			*9390	8940	7.57
	lb	*43630	*43630	*35830	*35830	*28480	27010	*21120	19930			*20700	19710	(24.8)

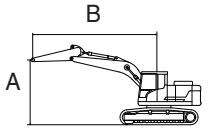
Note 1. Lifting capacity are based on ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *Indicates load limited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

⚠ Failure to comply to the rated load can cause serious injury, death, or property damage.
Make adjustments to the rated load as necessory for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX480A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	2550	9200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*12380	*12380	6.60
	lb											*27290	*27290	(21.6)
7.5 m (24.6 ft)	kg							*11560	10500			*11490	9630	7.87
	lb							*25490	23150			*25330	21230	(25.8)
6.0 m (19.7 ft)	kg					*13640	*13640	*11840	10300			*11100	8030	8.71
	lb					*30070	*30070	*26100	22710			*24470	17700	(28.6)
4.5 m (14.8 ft)	kg					*15260	13770	*12560	9920	*11060	7470	*10910	7170	9.22
	lb					*33640	30360	*27690	21870	*24380	16470	*24050	15810	(30.3)
3.0 m (9.8 ft)	kg					*16820	12950	*13340	9490	*11320	7280	*10840	6730	9.47
	lb					*37080	28550	*29410	20920	*24960	16050	*23900	14840	(31.1)
1.5 m (4.9 ft)	kg					*17670	12390	*13860	9150	*11470	7100	*10810	6600	9.48
	lb					*38960	27320	*30560	20170	*25290	15650	*23830	14550	(31.1)
0.0 m (0.0 ft)	kg					*17570	12130	*13880	8940	*11210	7010	*10770	6770	9.24
	lb					*38740	26740	*30600	19710	*24710	15450	*23740	14930	(30.3)
-1.5 m (-4.9 ft)	kg			*20510	18740	*16560	12110	*13170	8900			*10610	7320	8.74
	lb			*45220	41310	*36510	26700	*29030	19620			*23390	16140	(28.7)
-3.0 m (-9.8 ft)	kg	*19190	*19190	*17720	*17720	*14510	12280	*11260	9060			*10150	8480	7.92
	lb	*42310	*42310	*39070	*39070	*31990	27070	*24820	19970			*22380	18700	(26.0)
-4.5 m (-14.8 ft)	kg			*13240	*13240	*10610	*10610					*8830	*8830	6.66
	lb			*29190	*29190	*23390	*23390					*19470	*19470	(21.9)

Note 1. Lifting capacity are based on ISO 10567.

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

4. *Indicates load limited by hydraulic capacity.

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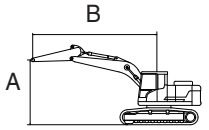
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX480A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	2900	9200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*11510	*11510	6.97
	lb											*25380	*25380	(22.9)
7.5 m (24.6 ft)	kg							*10980	10580			*10810	9050	8.19
	lb							*24210	23320			*23830	19950	(26.9)
6.0 m (19.7 ft)	kg					*13030	*13030	*11370	10330			*10500	7610	8.99
	lb					*28730	*28730	*25070	22770			*23150	16780	(29.5)
4.5 m (14.8 ft)	kg			*19780	*19780	*14660	13840	*12140	9910	*10690	7450	*10370	6810	9.49
	lb			*43610	*43610	*32320	30510	*26760	21850	*23570	16420	*22860	15010	(31.1)
3.0 m (9.8 ft)	kg					*16310	12960	*12980	9450	*11040	7220	*10340	6390	9.74
	lb					*35960	28570	*28620	20830	*24340	15920	*22800	14090	(31.9)
1.5 m (4.9 ft)	kg					*17350	12310	*13600	9070	*11280	7010	*10360	6250	9.74
	lb					*38250	27140	*29980	20000	*24870	15450	*22840	13780	(32.0)
0.0 m (0.0 ft)	kg			*14480	*14480	*17470	11980	*13750	8820	*11190	6880	*10380	6390	9.51
	lb			*31920	*31920	*38510	26410	*30310	19440	*24670	15170	*22880	14090	(31.2)
-1.5 m (-4.9 ft)	kg			*21210	18400	*16700	11910	*13230	8740	*10370	6880	*10320	6860	9.02
	lb			*46760	40570	*36820	26260	*29170	19270	*22860	15170	*22750	15120	(29.6)
-3.0 m (-9.8 ft)	kg	*21630	*21630	*18580	*18580	*14930	12040	*11720	8840			*10040	7870	8.23
	lb	*47690	*47690	*40960	*40960	*32910	26540	*25840	19490			*22130	17350	(27.0)
-4.5 m (-14.8 ft)	kg			*14450	*14450	*11610	*11610					*9130	*9130	7.04
	lb			*31860	*31860	*25600	*25600					*20130	*20130	(23.1)

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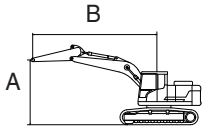
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX480A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	3380	9200	800	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg							*9510	*9510			*9450	*9450	7.51
	lb							*20970	*20970			*20830	*20830	(24.6)
7.5 m (24.6 ft)	kg							*10350	*10350			*8950	8570	8.65
	lb							*22820	*22820			*19730	18890	(28.4)
6.0 m (19.7 ft)	kg							*10850	10720	*9990	7920	*8830	7310	9.41
	lb							*23920	23630	*22020	17460	*19470	16120	(30.9)
4.5 m (14.8 ft)	kg			*18480	*18480	*14010	*14010	*11700	10290	*10330	7730	*8960	6590	9.89
	lb			*40740	*40740	*30890	*30890	*25790	22690	*22770	17040	*19750	14530	(32.5)
3.0 m (9.8 ft)	kg					*15810	13530	*12650	9810	*10790	7480	*9350	6210	10.12
	lb					*34860	29830	*27890	21630	*23790	16490	*20610	13690	(33.2)
1.5 m (4.9 ft)	kg					*17100	12810	*13410	9390	*11150	7240	*9890	6070	10.13
	lb					*37700	28240	*29560	20700	*24580	15960	*21800	13380	(33.2)
0.0 m (0.0 ft)	kg			*17130	*17130	*17540	12390	*13740	9100	*11240	7070	*9970	6180	9.91
	lb			*37770	*37770	*38670	27320	*30290	20060	*24780	15590	*21980	13620	(32.5)
-1.5 m (-4.9 ft)	kg	*12220	*12220	*22260	18830	*17080	12240	*13470	8970	*10780	7000	*10000	6580	9.44
	lb	*26940	*26940	*49070	41510	*37650	26980	*29700	19780	*23770	15430	*22050	14510	(31.0)
-3.0 m (-9.8 ft)	kg	*20690	*20690	*19920	19030	*15660	12290	*12340	9000			*9900	7430	8.69
	lb	*45610	*45610	*43920	41950	*34520	27090	*27210	19840			*21830	16380	(28.5)
-4.5 m (-14.8 ft)	kg	*19790	*19790	*16250	*16250	*12920	12570	*9580	9280			*9390	9170	7.57
	lb	*43630	*43630	*35830	*35830	*28480	27710	*21120	20460			*20700	20220	(24.8)

Note 1. Lifting capacity are based on ISO 10567.
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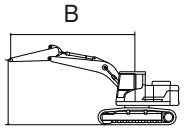
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX480A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	4000	9200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)														At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		Capacity		Reach
																		m (ft)
9.0m	kg															*7340	*7340	8.24
29.5ft	lb															*16180	*16180	(27.0)
7.5m	kg											*8410	8030			*7010	*7010	9.29
24.6ft	lb											*18540	17700			*15450	*15450	(30.5)
6.0m	kg									*10200	*10200	*9450	7920			*6930	6560	10.01
19.7ft	lb									*22490	*22490	*20830	17460			*15280	14460	(32.8)
4.5m	kg							*13140	*13140	*11140	10280	*9910	7700			*7030	5960	10.46
14.8ft	lb							*28970	*28970	*24560	22660	*21850	16980			*15500	13140	(34.3)
3.0m	kg					*20800	20710	*15100	13570	*12210	9780	*10480	7420	*8720	5790	*7320	5630	10.68
9.8ft	lb					*45860	45660	*33290	29920	*26920	21560	*23100	16360	*19220	12760	*16140	12410	(35.0)
1.5m	kg					*20070	19240	*16700	12770	*13140	9320	*10990	7150	*9480	5660	*7820	5510	10.68
4.9ft	lb					*44250	42420	*36820	28150	*28970	20550	*24230	15760	*20900	12480	*17240	12150	(35.0)
0.0m	kg					*19100	18580	*17520	12250	*13700	8980	*11260	6950			*8600	5580	10.47
0.0ft	lb					*42110	40960	*38620	27010	*30200	19800	*24820	15320			*18960	12300	(34.4)
-1.5m	kg			*12230	*12230	*23290	18400	*17450	12000	*13710	8780	*11110	6830			*9540	5890	10.03
-4.9ft	lb			*26960	*26960	*51350	40570	*38470	26460	*30230	19360	*24490	15060			*21030	12990	(32.9)
-3.0m	kg	*14130	*14130	*18540	*18540	*21430	18500	*16470	11980	*12980	8750	*10210	6850			*9570	6540	9.33
-9.8ft	lb	*31150	*31150	*40870	*40870	*47250	40790	*36310	26410	*28620	19290	*22510	15100			*21100	14420	(30.6)
-4.5m	kg			*23840	*23840	*18340	*18340	*14340	12150	*11120	8900					*9360	7810	8.30
-14.8ft	lb			*52560	*52560	*40430	*40430	*31610	26790	*24520	19620					*20640	17220	(27.2)
-6.0m	kg					*13350	*13350	*10290	*10290							*8450	*8450	6.78
-19.7ft	lb					*29430	*29430	*22690	*22690							*18630	*18630	(22.3)

Note 1. Lifting capacity are based on ISO 10567.
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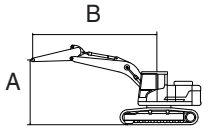
Make adjustments to the rated load as necessory for non-standard configurations.

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX480A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6550	2550	9200	600	-	-	-	-	-

· : Rating over-front



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*13880	*13880	5.79
	lb											*30600	*30600	(19.0)
7.5 m (24.6 ft)	kg					*13190	*13190					*12600	11120	7.22
	lb					*29080	*29080					*27780	24520	(23.7)
6.0 m (19.7 ft)	kg					*13980	*13980	*12410	10350			*12070	9040	8.12
	lb					*30820	*30820	*27360	22820			*26610	19930	(26.6)
4.5 m (14.8 ft)	kg			*20370	*20370	*15430	14080	*12960	10050			*11830	7970	8.67
	lb			*44910	*44910	*34020	31040	*28570	22160			*26080	17570	(28.4)
3.0 m (9.8 ft)	kg					*16960	13300	*13650	9670			*11730	7440	8.94
	lb					*37390	29320	*30090	21320			*25860	16400	(29.3)
1.5 m (4.9 ft)	kg					*17890	12720	*14120	9340			*11690	7300	8.94
	lb					*39440	28040	*31130	20590			*25770	16090	(29.3)
0.0 m (0.0 ft)	kg			*21030	18920	*17850	12420	*14030	9140			*11620	7520	8.69
	lb			*46360	41710	*39350	27380	*30930	20150			*25620	16580	(28.5)
-1.5 m (-4.9 ft)	kg	*15060	*15060	*21280	19020	*16720	12370	*13030	9120			*11390	8210	8.15
	lb	*33200	*33200	*46910	41930	*36860	27270	*28730	20110			*25110	18100	(26.7)
-3.0 m (-9.8 ft)	kg	*20530	*20530	*17830	*17830	*14160	12560					*10720	9750	7.26
	lb	*45260	*45260	*39310	*39310	*31220	27690					*23630	21500	(23.8)
-4.5 m (-14.8 ft)	kg			*12770	*12770							*9300	*9300	5.90
	lb			*28150	*28150							*20500	*20500	(19.4)

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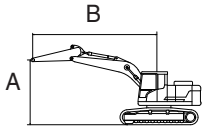
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX480A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6550	2900	9200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb											*11820 *26060	*11820 *26060	6.19 (20.3)
7.5 m (24.6 ft)	kg lb							*11250 *24800	10500 23150			*10890 *24010	10410 22950	7.54 (24.7)
6.0 m (19.7 ft)	kg lb					*13340 *29410	*13340 *29410	*11880 *26190	10400 22930			*10600 *23370	8550 18850	8.41 (27.6)
4.5 m (14.8 ft)	kg lb			*19300 *42550	*19300 *42550	*14830 *32690	14150 31200	*12520 *27600	10050 22160			*10710 *23610	7570 16690	8.94 (29.3)
3.0 m (9.8 ft)	kg lb			*22770 *50200	20130 44380	*16450 *36270	13320 29370	*13290 *29300	9640 21250	*11400 *25130	7320 16140	*11180 *24650	7070 15590	9.20 (30.2)
1.5 m (4.9 ft)	kg lb			*19910 *43890	19030 41950	*17560 *38710	12660 27910	*13870 *30580	9270 20440	*11500 *25350	7140 15740	*11210 *24710	6920 15260	9.20 (30.2)
0.0 m (0.0 ft)	kg lb			*23720 *52290	18690 41200	*17760 *39150	12280 27070	*13950 *30750	9030 19910			*11220 *24740	7090 15630	8.96 (29.4)
-1.5 m (-4.9 ft)	kg lb	*16270 *35870	*16270 *35870	*21890 *48260	18720 41270	*16900 *37260	12180 26850	*13220 *29150	8960 19750			*11120 *24520	7690 16950	8.44 (27.7)
-3.0 m (-9.8 ft)	kg lb	*22850 *50380	*22850 *50380	*18760 *41360	*18760 *41360	*14740 *32500	12320 27160	*10960 *24160	9130 20130			*10700 *23590	9000 19840	7.58 (24.9)
-4.5 m (-14.8 ft)	kg lb			*13560 *29890	*13560 *29890	*10150 *22380	*10150 *22380					*9330 *20570	*9330 *20570	6.27 (20.6)

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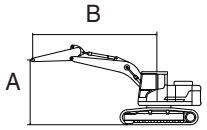
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX480A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		9000	6000	10200	600	-	-	-	-	-

· : Rating over-front



Lift-point height (A)		Lift-point radius (B)																		At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		Capacity		Reach
10.5m	kg																			*4060	*4060	11.51
34.4ft	lb																			*8950	*8950	(37.7)
9.0m	kg															*4870	*4870			*3950	*3950	12.46
29.5ft	lb															*10740	*10740			*8710	*8710	(40.9)
7.5m	kg													*5930	*5930	*5620	5080			*3940	*3940	13.17
24.6ft	lb													*13070	*13070	*12390	11200			*8690	*8690	(43.2)
6.0m	kg													*6270	*6270	*5810	4930	*4500	3830	*3990	3710	13.69
19.7ft	lb													*13820	*13820	*12810	10870	*9920	8440	*8800	8180	(44.9)
4.5m	kg									*8790	*8790	*7540	*7540	*6680	6040	*6060	4720	*5520	3720	*4110	3420	14.02
14.8ft	lb									*19380	*19380	*16620	*16620	*14730	13320	*13360	10410	*12170	8200	*9060	7540	(46.0)
3.0m	kg					*17920	*17920	*12630	*12630	*9890	9670	*8240	7320	*7130	5690	*6350	4500	*5750	3580	*4300	3230	14.18
9.8ft	lb					*39510	*39510	*27840	*27840	*21800	21320	*18170	16140	*15720	12540	*14000	9920	*12680	7890	*9480	7120	(46.5)
1.5m	kg					*9790	*9790	*14170	12140	*10870	8900	*8880	6820	*7550	5360	*6610	4280	*5890	3450	*4580	3120	14.19
4.9ft	lb					*21580	*21580	*31240	26760	*23960	19620	*19580	15040	*16640	11820	*14570	9440	*12990	7610	*10100	6880	(46.5)
0.0m	kg					*9020	*9020	*15100	11270	*11570	8300	*9370	6410	*7880	5080	*6810	4090	*5960	3330	*4970	3100	14.03
0.0ft	lb					*19890	*19890	*33290	24850	*25510	18300	*20660	14130	*17370	11200	*15010	9020	*13140	7340	*10960	6830	(46.0)
-1.5m	kg	*4710	*4710	*6130	*6130	*10400	*10400	*15390	10790	*11920	7900	*9650	6100	*8060	4860	*6890	3940	*5910	3250	*5510	3160	13.70
-4.9ft	lb	*10380	*10380	*13510	*13510	*22930	*22930	*33930	23790	*26280	17420	*21270	13450	*17770	10710	*15190	8690	*13030	7170	*12150	6970	(45.0)
-3.0m	kg	*7100	*7100	*8690	*8690	*12720	*12720	*15140	10590	*11890	7680	*9660	5920	*8040	4720	*6790	3860			*5880	3330	13.20
-9.8ft	lb	*15650	*15650	*19160	*19160	*28040	*28040	*33380	23350	*26210	16930	*21300	13050	*17730	10410	*14970	8510			*12960	7340	(43.3)
-4.5m	kg	*9580	*9580	*11500	*11500	*15760	*15760	*14400	10580	*11470	7620	*9360	5850	*7750	4680	*6400	3850			*5950	3640	12.50
-14.8ft	lb	*21120	*21120	*25350	*25350	*34740	*34740	*31750	23320	*25290	16800	*20640	12900	*17090	10320	*14110	8490			*13120	8020	(41.0)
-6.0m	kg	*12310	*12310	*14730	*14730	*16720	*16720	*13140	10740	*10590	7690	*8650	5900	*7060	4740					*5980	4160	11.55
-19.7ft	lb	*27140	*27140	*32470	*32470	*36860	*36860	*28970	23680	*23350	16950	*19070	13010	*15560	10450					*13180	9170	(37.9)
-7.5m	kg			*18050	*18050	*13990	*13990	*11240	11050	*9120	7910	*7360	6090							*5870	5060	10.31
-24.6ft	lb			*39790	*39790	*30840	*30840	*24780	24360	*20110	17440	*16230	13430							*12940	11160	(33.8)
-9.0m	kg					*10190	*10190	*8390	*8390	*6720	*6720									*5410	*5410	8.62
-29.5ft	lb					*22470	*22470	*18500	*18500	*14820	*14820									*11930	*11930	(28.3)

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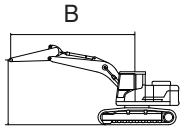
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX520A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	3380	10200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg							*10020	*10020			*9400	*9400	7.61
	lb							*22090	*22090			*20720	*20720	(25.0)
7.5 m (24.6 ft)	kg							*10370	*10370			*8930	*8930	8.71
	lb							*22860	*22860			*19690	*19690	(28.6)
6.0 m (19.7 ft)	kg							*10900	*10900	*10010	9030	*8830	8280	9.46
	lb							*24030	*24030	*22070	19910	*19470	18250	(31.0)
4.5 m (14.8 ft)	kg			*18770	*18770	*14140	*14140	*11770	11690	*10360	8820	*8980	7530	9.92
	lb			*41380	*41380	*31170	*31170	*25950	25770	*22840	19440	*19800	16600	(32.5)
3.0 m (9.8 ft)	kg					*15920	15450	*12710	11200	*10820	8560	*9390	7130	10.13
	lb					*35100	34060	*28020	24690	*23850	18870	*20700	15720	(33.2)
1.5 m (4.9 ft)	kg					*17160	14740	*13450	10780	*11170	8330	*9890	7020	10.12
	lb					*37830	32500	*29650	23770	*24630	18360	*21800	15480	(33.2)
0.0 m (0.0 ft)	kg			*17510	*17510	*17540	14330	*13750	10500	*11230	8160	*9970	7170	9.88
	lb			*38600	*38600	*38670	31590	*30310	23150	*24760	17990	*21980	15810	(32.4)
-1.5 m (-4.9 ft)	kg	*12800	*12800	*22130	22020	*17010	14190	*13420	10370	*10720	8100	*10000	7660	9.40
	lb	*28220	*28220	*48790	48550	*37500	31280	*29590	22860	*23630	17860	*22050	16890	(30.8)
-3.0 m (-9.8 ft)	kg	*21350	*21350	*19710	*19710	*15510	14270	*12210	10420			*9880	8680	8.62
	lb	*47070	*47070	*43450	*43450	*34190	31460	*26920	22970			*21780	19140	(28.3)
-4.5 m (-14.8 ft)	kg	*19320	*19320	*15920	*15920	*12650	*12650					*9320	*9320	7.47
	lb	*42590	*42590	*35100	*35100	*27890	*27890					*20550	*20550	(24.5)

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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX520A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	2550	10200	600	-	-	-	-	-

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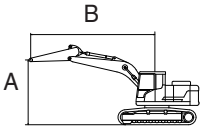

Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*12280	*12280	6.71
	lb											*27070	*27070	(22.0)
7.5 m (24.6 ft)	kg							*11560	*11560			*11450	11020	7.94
	lb							*25490	*25490			*25240	24290	(26.1)
6.0 m (19.7 ft)	kg					*13750	*13750	*11880	*11880			*11080	9300	8.75
	lb					*30310	*30310	*26190	*26190			*24430	20500	(28.7)
4.5 m (14.8 ft)	kg					*15380	*15380	*12620	11550	*11070	8750	*10910	8370	9.25
	lb					*33910	*33910	*27820	25460	*24410	19290	*24050	18450	(30.3)
3.0 m (9.8 ft)	kg					*16910	15190	*13390	11120	*11340	8560	*10840	7920	9.48
	lb					*37280	33490	*29520	24520	*25000	18870	*23900	17460	(31.1)
1.5 m (4.9 ft)	kg					*17700	14640	*13880	10780	*11470	8380	*10810	7810	9.47
	lb					*39020	32280	*30600	23770	*25290	18470	*23830	17220	(31.1)
0.0 m (0.0 ft)	kg					*17530	14400	*13850	10580	*11160	8290	*10760	8050	9.21
	lb					*38650	31750	*30530	23320	*24600	18280	*23720	17750	(30.2)
-1.5 m (-4.9 ft)	kg			*20350	*20350	*16450	14390	*13080	10550			*10600	8730	8.69
	lb			*44860	*44860	*36270	31720	*28840	23260			*23370	19250	(28.5)
-3.0 m (-9.8 ft)	kg	*18970	*18970	*17470	*17470	*14320	*14320	*11040	10730			*10090	*10090	7.84
	lb	*41820	*41820	*38510	*38510	*31570	*31570	*24340	23660			*22240	*22240	(25.7)
-4.5 m (-14.8 ft)	kg			*12820	*12820	*10190	*10190					*8660	*8660	6.55
	lb			*28260	*28260	*22470	*22470					*19090	*19090	(21.5)

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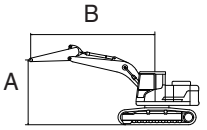
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX520A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	2900	10200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*11430	*11430	7.08
	lb											*25200	*25200	(23.2)
7.5 m (24.6 ft)	kg							*10990	*10990			*10780	10370	8.26
	lb							*24230	*24230			*23770	22860	(27.1)
6.0 m (19.7 ft)	kg					*13130	*13130	*11410	*11410	*10500	8890	*10480	8820	9.04
	lb					*28950	*28950	*25150	*25150	*23150	19600	*23100	19440	(29.7)
4.5 m (14.8 ft)	kg			*20070	*20070	*14790	*14790	*12200	11540	*10710	8730	*10370	7970	9.52
	lb			*44250	*44250	*32610	*32610	*26900	25440	*23610	19250	*22860	17570	(31.2)
3.0 m (9.8 ft)	kg					*16410	15200	*13040	11080	*11060	8500	*10340	7530	9.74
	lb					*36180	33510	*28750	24430	*24380	18740	*22800	16600	(32.0)
1.5 m (4.9 ft)	kg					*17390	14560	*13630	10690	*11290	8290	*10370	7420	9.73
	lb					*38340	32100	*30050	23570	*24890	18280	*22860	16360	(31.9)
0.0 m (0.0 ft)	kg			*15060	*15060	*17450	14240	*13740	10450	*11160	8160	*10380	7610	9.48
	lb			*33200	*33200	*38470	31390	*30290	23040	*24600	17990	*22880	16780	(31.1)
-1.5 m (-4.9 ft)	kg			*21050	*21050	*16610	14180	*13170	10380			*10310	8200	8.98
	lb			*46410	*46410	*36620	31260	*29030	22880			*22730	18080	(29.5)
-3.0 m (-9.8 ft)	kg	*21360	*21360	*18340	*18340	*14760	14330	*11550	10510			*10000	9440	8.16
	lb	*47090	*47090	*40430	*40430	*32540	31590	*25460	23170			*22050	20810	(26.8)
-4.5 m (-14.8 ft)	kg			*14070	*14070	*11280	*11280					*9020	*9020	6.93
	lb			*31020	*31020	*24870	*24870					*19890	*19890	(22.7)

Note 1. Lifting capacity are based on ISO 10567.

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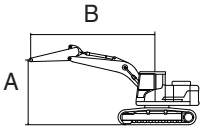
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX520A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	3380	10200	800	-	-	-	-	-

· : Rating over-front ·



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg							*10020	*10020			*9400	*9400	7.61
	lb							*22090	*22090			*20720	*20720	(25.0)
7.5 m (24.6 ft)	kg							*10370	*10370			*8930	*8930	8.71
	lb							*22860	*22860			*19690	*19690	(28.6)
6.0 m (19.7 ft)	kg							*10900	*10900	*10010	9170	*8830	8420	9.46
	lb							*24030	*24030	*22070	20220	*19470	18560	(31.0)
4.5 m (14.8 ft)	kg			*18770	*18770	*14140	*14140	*11770	*11770	*10360	8970	*8980	7660	9.92
	lb			*41380	*41380	*31170	*31170	*25950	*25950	*22840	19780	*19800	16890	(32.5)
3.0 m (9.8 ft)	kg					*15920	15700	*12710	11390	*10820	8710	*9390	7260	10.13
	lb					*35100	34610	*28020	25110	*23850	19200	*20700	16010	(33.2)
1.5 m (4.9 ft)	kg					*17160	14990	*13450	10970	*11170	8470	*9890	7150	10.12
	lb					*37830	33050	*29650	24180	*24630	18670	*21800	15760	(33.2)
0.0 m (0.0 ft)	kg			*17510	*17510	*17540	14580	*13750	10680	*11230	8310	*9970	7310	9.88
	lb			*38600	*38600	*38670	32140	*30310	23550	*24760	18320	*21980	16120	(32.4)
-1.5 m (-4.9 ft)	kg	*12800	*12800	*22130	*22130	*17010	14440	*13420	10560	*10720	8250	*10000	7810	9.40
	lb	*28220	*28220	*48790	*48790	*37500	31830	*29590	23280	*23630	18190	*22050	17220	(30.8)
-3.0 m (-9.8 ft)	kg	*21350	*21350	*19710	*19710	*15510	14520	*12210	10610			*9880	8840	8.62
	lb	*47070	*47070	*43450	*43450	*34190	32010	*26920	23390			*21780	19490	(28.3)
-4.5 m (-14.8 ft)	kg	*19320	*19320	*15920	*15920	*12650	*12650					*9320	*9320	7.47
	lb	*42590	*42590	*35100	*35100	*27890	*27890					*20550	*20550	(24.5)

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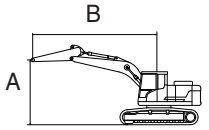
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX520A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		7060	4000	10200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)												At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		Capacity		Reach
																m (ft)
9.0m	kg													*7310	*7310	8.33
29.5ft	lb													*16120	*16120	(27.3)
7.5m	kg									*8630	*8630			*6990	*6990	9.35
24.6ft	lb									*19030	*19030			*15410	*15410	(30.7)
6.0m	kg							*10230	*10230	*9440	9210			*6930	*6930	10.05
19.7ft	lb							*22550	*22550	*20810	20300			*15280	*15280	(33.0)
4.5m	kg					*13240	*13240	*11180	*11180	*9910	8960			*7050	6970	10.48
14.8ft	lb					*29190	*29190	*24650	*24650	*21850	19750			*15540	15370	(34.4)
3.0m	kg			*20970	*20970	*15180	*15180	*12230	11390	*10470	8680	*8810	6820	*7350	6630	10.69
9.8ft	lb			*46230	*46230	*33470	*33470	*26960	25110	*23080	19140	*19420	15040	*16200	14620	(35.1)
1.5m	kg			*19680	*19680	*16710	14970	*13130	10920	*10960	8400	*9440	6680	*7860	6510	10.67
4.9ft	lb			*43390	*43390	*36840	33000	*28950	24070	*24160	18520	*20810	14730	*17330	14350	(35.0)
0.0m	kg			*19280	*19280	*17450	14450	*13650	10570	*11200	8190			*8670	6630	10.45
0.0ft	lb			*42510	*42510	*38470	31860	*30090	23300	*24690	18060			*19110	14620	(34.3)
-1.5m	kg	*12650	*12650	*23060	21950	*17320	14200	*13600	10370	*11010	8070			*9490	7020	9.99
-4.9ft	lb	*27890	*27890	*50840	48390	*38180	31310	*29980	22860	*24270	17790			*20920	15480	(32.8)
-3.0m	kg	*19040	*19040	*21120	*21120	*16250	14180	*12810	10340	*10030	8100			*9500	7800	9.27
-9.8ft	lb	*41980	*41980	*46560	*46560	*35830	31260	*28240	22800	*22110	17860			*20940	17200	(30.4)
-4.5m	kg	*23210	*23210	*17930	*17930	*14030	*14030	*10830	10510					*9250	*9250	8.21
-14.8ft	lb	*51170	*51170	*39530	*39530	*30930	*30930	*23880	23170					*20390	*20390	(26.9)
-6.0m	kg			*12760	*12760	*9770	*9770							*8240	*8240	6.65
-19.7ft	lb			*28130	*28130	*21540	*21540							*18170	*18170	(21.8)

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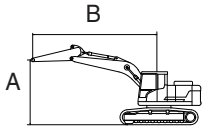
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX520A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6550	2550	10200	600	-	-	-	-	-

· : Rating over-front



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*13740	*13740	5.92
	lb											*30290	*30290	(19.4)
7.5 m (24.6 ft)	kg					*13220	*13220					*12550	*12550	7.29
	lb					*29150	*29150					*27670	*27670	(23.9)
6.0 m (19.7 ft)	kg					*14060	*14060	*12430	12010			*12050	10420	8.17
	lb					*31000	*31000	*27400	26480			*26570	22970	(26.8)
4.5 m (14.8 ft)	kg			*20650	*20650	*15550	*15550	*13010	11690			*11820	9280	8.70
	lb			*45530	*45530	*34280	*34280	*28680	25770			*26060	20460	(28.5)
3.0 m (9.8 ft)	kg					*17050	15550	*13700	11300			*11730	8720	8.94
	lb					*37590	34280	*30200	24910			*25860	19220	(29.3)
1.5 m (4.9 ft)	kg					*17930	14970	*14130	10980			*11690	8600	8.93
	lb					*39530	33000	*31150	24210			*25770	18960	(29.3)
0.0 m (0.0 ft)	kg			*21780	*21780	*17810	14690	*14000	10790			*11610	8900	8.66
	lb			*48020	*48020	*39260	32390	*30860	23790			*25600	19620	(28.4)
-1.5 m (-4.9 ft)	kg	*16090	*16090	*21090	*21090	*16590	14660	*12900	10780			*11370	9770	8.10
	lb	*35470	*35470	*46500	*46500	*36570	32320	*28440	23770			*25070	21540	(26.6)
-3.0 m (-9.8 ft)	kg	*20140	*20140	*17510	*17510	*13900	*13900					*10640	*10640	7.18
	lb	*44400	*44400	*38600	*38600	*30640	*30640					*23460	*23460	(23.6)
-4.5 m (-14.8 ft)	kg			*12770	*12770							*9300	*9300	5.90
	lb			*28150	*28150							*20500	*20500	(19.4)

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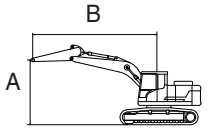
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX520A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6550	2900	10200	600	-	-	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg lb											*11720 *25840	*11720 *25840	6.31 (20.7)
7.5 m (24.6 ft)	kg lb							*11790 *25990	*11790 *25990			*10850 *23920	*10850 *23920	7.61 (25.0)
6.0 m (19.7 ft)	kg lb					*13430 *29610	*13430 *29610	*11920 *26280	*11920 *26280			*10600 *23370	9880 21780	8.45 (27.7)
4.5 m (14.8 ft)	kg lb			*19570 *43140	*19570 *43140	*14950 *32960	*14950 *32960	*12570 *27710	11690 25770			*10730 *23660	8830 19470	8.97 (29.4)
3.0 m (9.8 ft)	kg lb			*22960 *50620	*22960 *50620	*16550 *36490	15560 34300	*13340 *29410	11270 24850	*11410 *25150	8600 18960	*11190 *24670	8300 18300	9.21 (30.2)
1.5 m (4.9 ft)	kg lb			*19880 *43830	*19880 *43830	*17610 *38820	14910 32870	*13890 *30620	10900 24030	*11490 *25330	8420 18560	*11210 *24710	8170 18010	9.19 (30.2)
0.0 m (0.0 ft)	kg lb			*23620 *52070	22350 49270	*17730 *39090	14550 32080	*13920 *30690	10670 23520			*11210 *24710	8420 18560	8.93 (29.3)
-1.5 m (-4.9 ft)	kg lb	*17060 *37610	*17060 *37610	*21710 *47860	*21710 *47860	*16790 *37020	14460 31880	*13120 *28920	10610 23390			*11100 *24470	9170 20220	8.39 (27.5)
-3.0 m (-9.8 ft)	kg lb	*22460 *49520	*22460 *49520	*18470 *40720	*18470 *40720	*14520 *32010	*14520 *32010	*10680 *23550	*10680 *23550			*10650 *23480	*10650 *23480	7.51 (24.6)
-4.5 m (-14.8 ft)	kg lb			*13060 *28790	*13060 *28790	*9620 *21210	*9620 *21210					*9150 *20170	*9150 *20170	6.15 (20.2)

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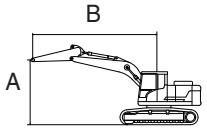
Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX520A L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		9000	6000	11700	600	-	-	-	-	-

· : Rating over-front



Lift-point height (A)		Lift-point radius (B)																		At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		Capacity		Reach
																						m (ft)
10.5m	kg																			*4050	*4050	11.58
34.4ft	lb																			*8930	*8930	(38.0)
9.0m	kg															*4970	*4970			*3950	*3950	12.52
29.5ft	lb															*10960	*10960			*8710	*8710	(41.1)
7.5m	kg													*5950	*5950	*5630	*5630			*3940	*3940	13.22
24.6ft	lb													*13120	*13120	*12410	*12410			*8690	*8690	(43.4)
6.0m	kg													*6290	*6290	*5830	*5830	*4580	*4580	*3990	*3990	13.71
19.7ft	lb													*13870	*13870	*12850	*12850	*10100	*10100	*8800	*8800	(45.0)
4.5m	kg									*8870	*8870	*7590	*7590	*6720	*6720	*6080	5790	*5580	4650	*4120	*4120	14.03
14.8ft	lb									*19550	*19550	*16730	*16730	*14820	*14820	*13400	12760	*12300	10250	*9080	*9080	(46.0)
3.0m	kg					*18150	*18150	*12750	*12750	*9970	*9970	*8290	*8290	*7160	6950	*6370	5570	*5760	4510	*4320	4100	14.19
9.8ft	lb					*40010	*40010	*28110	*28110	*21980	*21980	*18280	*18280	*15790	15320	*14040	12280	*12700	9940	*9520	9040	(46.5)
1.5m	kg					*9590	*9590	*14260	*14260	*10930	10830	*8920	8340	*7580	6620	*6620	5350	*5900	4380	*4610	4000	14.18
4.9ft	lb					*21140	*21140	*31440	*31440	*24100	23880	*19670	18390	*16710	14590	*14590	11790	*13010	9660	*10160	8820	(46.5)
0.0m	kg					*9080	*9080	*15140	13920	*11610	10230	*9400	7930	*7900	6330	*6820	5160	*5960	4260	*5000	4000	14.01
0.0ft	lb					*20020	*20020	*33380	30690	*25600	22550	*20720	17480	*17420	13960	*15040	11380	*13140	9390	*11020	8820	(46.0)
-1.5m	kg	*4880	*4880	*6310	*6310	*10540	*10540	*15390	13460	*11930	9840	*9660	7630	*8070	6120	*6890	5010	*5900	4180	*5560	4100	13.67
-4.9ft	lb	*10760	*10760	*13910	*13910	*23240	*23240	*33930	29670	*26300	21690	*21300	16820	*17790	13490	*15190	11050	*13010	9220	*12260	9040	(44.9)
-3.0m	kg	*7270	*7270	*8890	*8890	*12910	*12910	*15110	13270	*11880	9630	*9650	7450	*8030	5980	*6770	4930			*5880	4310	13.16
-9.8ft	lb	*16030	*16030	*19600	*19600	*28460	*28460	*33310	29260	*26190	21230	*21270	16420	*17700	13180	*14930	10870			*12960	9500	(43.2)
-4.5m	kg	*9770	*9770	*11720	*11720	*16010	*16010	*14330	13270	*11420	9580	*9320	7390	*7710	5950	*6360	4930			*5960	4700	12.44
-14.8ft	lb	*21540	*21540	*25840	*25840	*35300	*35300	*31590	29260	*25180	21120	*20550	16290	*17000	13120	*14020	10870			*13140	10360	(40.8)
-6.0m	kg	*12520	*12520	*14980	*14980	*16550	*16550	*13030	*13030	*10510	9660	*8580	7450	*6980	6010					*5970	5340	11.48
-19.7ft	lb	*27600	*27600	*33030	*33030	*36490	*36490	*28730	*28730	*23170	21300	*18920	16420	*15390	13250					*13160	11770	(37.6)
-7.5m	kg			*17690	*17690	*13760	*13760	*11070	*11070	*8990	*8990	*7230	*7230							*5850	*5850	10.20
-24.6ft	lb			*39000	*39000	*30340	*30340	*24410	*24410	*19820	*19820	*15940	*15940							*12900	*12900	(33.5)
-9.0m	kg					*9860	*9860	*8140	*8140	*6490	*6490									*5350	*5350	8.48
-29.5ft	lb					*21740	*21740	*17950	*17950	*14310	*14310									*11790	*11790	(27.8)

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.

⚠ Failure to comply to the rated load can cause serious injury, death, or property damage.
Make adjustments to the rated load as necessory for non-standard configurations.

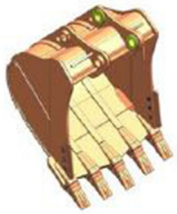
6. BUCKET SELECTION GUIDE

1) HX480A L

(1) 9200 kg counterweight

General bucket

Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
						Recommendation						
	SAE Heaped	CECE heaped	Without side cutter			6.55 m (21' 6") Boom		7.06 m (23' 2") Boom				9.00 m (29' 6") Boom
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	3.38 m (11' 1') Arm	4.00 m (13' 1') Arm	6.00 m (19' 8') Arm
General bucket	1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	-	-	-	-	-	-	-
	2.20 (2.88)	1.93 (2.52)	1,575 (62.0")	2,030 (4,480)	5	●	●	●	◐	◐	■	-
	3.00 (3.92)	2.70 (3.53)	1,905 (75.0")	2,460 (5,420)	6	■	■	■	▲	▲	X	-
Heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,320 (5,110)	5	●	●	◐	◐	■	■	-
	2.61 (3.41)	2.33 (3.05)	1,525 (60.0")	2,395 (5,280)	6	◐	◐	■	■	■	▲	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,630 (5,800)	5	◐	■	■	▲	▲	X	-
	2.92 (3.82)	2.60 (3.40)	1,675 (65.9")	2,525 (5,570)	6	■	■	■	▲	▲	X	-
Rock heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,610 (5,750)	5	●	●	◐	◐	■	■	-
	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,730 (6,020)	5	◐	◐	■	■	■	▲	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,950 (6,500)	5	■	■	■	▲	▲	X	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	3,230 (7,120)	6	▲	▲	▲	X	X	X	-

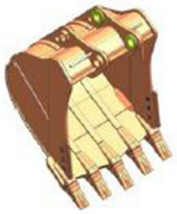
●	Applicable for materials with density of 2100 kg/m^3 (3500 lb/yd^3) or less
◐	Applicable for materials with density of 1800 kg/m^3 (3000 lb/yd^3) or less
■	Applicable for materials with density of 1500 kg/m^3 (2500 lb/yd^3) or less
▲	Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less
X	Not recommended
-	Not available

※ 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.

(2) 9700 kg counterweight

General bucket

Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
						Recommendation						
	SAE Heaped	CECE heaped	Without side cutter			6.55 m (21' 6") Boom		7.06 m (23' 2") Boom				9.00 m (29' 6") Boom
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	3.38 m (11' 1') Arm	4.00 m (13' 1') Arm	6.00 m (19' 8') Arm
General bucket	1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	-	-	-	-	-	-	-
	2.20 (2.88)	1.93 (2.52)	1,575 (62.0")	2,030 (4,480)	5	●	●	●	●	◐	■	-
	3.00 (3.92)	2.70 (3.53)	1,905 (75.0")	2,460 (5,420)	6	◐	■	■	▲	▲	▲	-
Heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,320 (5,110)	5	●	●	●	◐	◐	■	-
	2.61 (3.41)	2.33 (3.05)	1,525 (60.0")	2,395 (5,280)	6	◐	◐	◐	■	■	▲	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,630 (5,800)	5	◐	■	■	■	▲	▲	-
	2.92 (3.82)	2.60 (3.40)	1,675 (65.9")	2,525 (5,570)	6	◐	■	■	▲	▲	▲	-
Rock heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,610 (5,750)	5	●	●	●	◐	◐	■	-
	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,730 (6,020)	5	●	◐	◐	■	■	▲	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,950 (6,500)	5	◐	■	■	▲	▲	X	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	3,230 (7,120)	6	■	▲	▲	▲	X	X	-

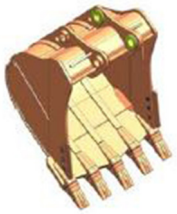
●	Applicable for materials with density of 2100 kg/m^3 (3500 lb/yd^3) or less
◐	Applicable for materials with density of 1800 kg/m^3 (3000 lb/yd^3) or less
■	Applicable for materials with density of 1500 kg/m^3 (2500 lb/yd^3) or less
▲	Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less
X	Not recommended
-	Not available

※ 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.

(3) 10200 kg counterweight

General bucket

Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
						Recommendation						
	SAE Heaped	CECE heaped	Without side cutter			6.55 m (21' 6") Boom		7.06 m (23' 2") Boom				9.00 m (29' 6") Boom
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	3.38 m (11' 1') Arm	4.00 m (13' 1') Arm	6.00 m (19' 8') Arm
General bucket	1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	-	-	-	-	-	-	▲
	2.20 (2.88)	1.93 (2.52)	1,575 (62.0")	2,030 (4,480)	5	●	●	●	●	◐	◐	-
	3.00 (3.92)	2.70 (3.53)	1,905 (75.0")	2,460 (5,420)	6	◐	■	■	■	▲	▲	-
Heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,320 (5,110)	5	●	●	●	●	◐	■	-
	2.61 (3.41)	2.33 (3.05)	1,525 (60.0")	2,395 (5,280)	6	●	◐	◐	■	■	▲	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,630 (5,800)	5	◐	◐	■	■	▲	▲	-
	2.92 (3.82)	2.60 (3.40)	1,675 (65.9")	2,525 (5,570)	6	◐	■	■	■	▲	▲	-
Rock heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,610 (5,750)	5	●	●	●	◐	◐	■	-
	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,730 (6,020)	5	●	●	◐	◐	■	▲	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,950 (6,500)	5	◐	■	■	■	▲	X	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	3,230 (7,120)	6	■	▲	▲	▲	X	X	-

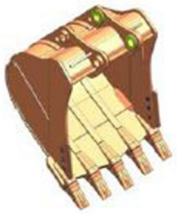
●	Applicable for materials with density of 2100 kg/m^3 (3500 lb/yd^3) or less
◐	Applicable for materials with density of 1800 kg/m^3 (3000 lb/yd^3) or less
■	Applicable for materials with density of 1500 kg/m^3 (2500 lb/yd^3) or less
▲	Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less
X	Not recommended
-	Not available

※ 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.

(4) 10700 kg counterweight

General bucket

Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
						Recommendation						
	SAE Heaped	CECE heaped	Without side cutter			6.55 m (21' 6") Boom		7.06 m (23' 2") Boom				9.00 m (29' 6") Boom
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	3.38 m (11' 1') Arm	4.00 m (13' 1') Arm	6.00 m (19' 8') Arm
General bucket	1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	-	-	-	-	-	-	▲
	2.20 (2.88)	1.93 (2.52)	1,575 (62.0")	2,030 (4,480)	5	●	●	●	●	●	◐	-
	3.00 (3.92)	2.70 (3.53)	1,905 (75.0")	2,460 (5,420)	6	◐	◐	■	■	▲	▲	-
Heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,320 (5,110)	5	●	●	●	●	◐	◐	-
	2.61 (3.41)	2.33 (3.05)	1,525 (60.0")	2,395 (5,280)	6	●	●	◐	◐	■	■	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,630 (5,800)	5	◐	◐	◐	■	■	▲	-
	2.92 (3.82)	2.60 (3.40)	1,675 (65.9")	2,525 (5,570)	6	◐	◐	■	■	■	▲	-
Rock heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,610 (5,750)	5	●	●	●	●	◐	■	-
	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,730 (6,020)	5	●	●	◐	◐	■	■	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,950 (6,500)	5	◐	◐	■	■	▲	▲	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	3,230 (7,120)	6	■	■	▲	▲	▲	X	-

●	Applicable for materials with density of 2100 kg/m^3 (3500 lb/yd^3) or less
◐	Applicable for materials with density of 1800 kg/m^3 (3000 lb/yd^3) or less
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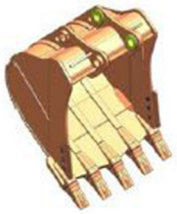
▲	Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less
X	Not recommended
-	Not available

※ 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.

(5) 11700 kg counterweight

General bucket

Heavy duty
(with side cutter)



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
						Recommendation						
	SAE Heaped	CECE heaped	Without side cutter			6.55 m (21' 6") Boom		7.06 m (23' 2") Boom				9.00 m (29' 6") Boom
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	3.38 m (11' 1') Arm	4.00 m (13' 1') Arm	6.00 m (19' 8') Arm
General bucket	1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	-	-	-	-	-	-	■
	2.20 (2.88)	1.93 (2.52)	1,575 (62.0")	2,030 (4,480)	5	●	●	●	●	●	◐	-
	3.00 (3.92)	2.70 (3.53)	1,905 (75.0")	2,460 (5,420)	6	●	◐	◐	■	■	▲	-
Heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,320 (5,110)	5	●	●	●	●	●	◐	-
	2.61 (3.41)	2.33 (3.05)	1,525 (60.0")	2,395 (5,280)	6	●	●	●	◐	◐	■	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,630 (5,800)	5	●	◐	◐	◐	■	■	-
	2.92 (3.82)	2.60 (3.40)	1,675 (65.9")	2,525 (5,570)	6	●	◐	◐	■	■	▲	-
Rock heavy duty	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,610 (5,750)	5	●	●	●	●	●	◐	-
	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,730 (6,020)	5	●	●	●	◐	◐	■	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,950 (6,500)	5	●	◐	◐	■	■	▲	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	3,230 (7,120)	6	◐	■	■	▲	▲	X	-

●	Applicable for materials with density of 2100 kg/m^3 (3500 lb/yd^3) or less
◐	Applicable for materials with density of 1800 kg/m^3 (3000 lb/yd^3) or less
■	Applicable for materials with density of 1500 kg/m^3 (2500 lb/yd^3) or less
▲	Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less
X	Not recommended
-	Not available

※ 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.

2) HX520A L

(1) 10200 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
						Recommendation						
	SAE Heaped	CECE heaped	Without side cutter			6.55 m (21' 6") Boom		7.06 m (23' 2") Boom				9.00 m (29' 6") Boom
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	3.38 m (11' 1') Arm	4.00 m (13' 1') Arm	6.00 m (19' 8') Arm
General bucket	1.00 (1.31)	0.90 (1.18)	950 (37.4")	1,450 (3,200)	3	-	-	-	-	-	-	●
	1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	-	-	-	-	-	-	■
	2.20 (2.88)	1.93 (2.52)	1,575 (62.0")	2,030 (4,480)	5	●	●	●	●	●	●	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,300 (5,070)	5	●	●	◐	◐	■	■	-
	3.00 (3.92)	2.70 (3.53)	1,905 (75.0")	2,460 (5,420)	6	●	◐	◐	■	■	▲	-
Heavy duty	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,450 (5,400)	5	●	●	●	●	◐	■	-
	2.61 (3.41)	2.33 (3.05)	1,525 (60.0")	2,395 (5,280)	6	●	●	●	◐	◐	■	-
	2.92 (3.82)	2.60 (3.40)	1,675 (65.9")	2,525 (5,570)	6	●	◐	◐	■	■	▲	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	2,870 (6,330)	6	◐	◐	■	■	▲	▲	-
Rock heavy duty	1.81 (2.37)	1.50 (1.96)	1,460 (57.5")	2,650 (5,840)	4	●	●	●	●	●	●	-
	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,610 (5,750)	5	●	●	●	●	●	◐	-
	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,730 (6,020)	5	●	●	●	●	◐	■	-
	2.70 (3.53)	2.39 (3.13)	1,755 (69.1")	2,770 (6,110)	5	●	●	◐	◐	■	■	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,950 (6,500)	5	●	◐	◐	■	■	▲	-
	3.00 (3.92)	2.76 (3.61)	1,950 (76.8")	3,040 (6,770)	6	◐	◐	■	■	■	▲	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	3,230 (7,120)	6	◐	■	■	▲	▲	▲	-

●	Applicable for materials with density of 2100 kg/m^3 (3500 lb/yd^3) or less
◐	Applicable for materials with density of 1800 kg/m^3 (3000 lb/yd^3) or less
■	Applicable for materials with density of 1500 kg/m^3 (2500 lb/yd^3) or less
▲	Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less
X	Not recommended
-	Not available

※ 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.

(2) 10700 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
						Recommendation						
	SAE Heaped	CECE heaped	Without side cutter			6.55 m (21' 6") Boom		7.06 m (23' 2") Boom				9.00 m (29' 6") Boom
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	3.38 m (11' 1') Arm	4.00 m (13' 1') Arm	6.00 m (19' 8') Arm
General bucket	1.00 (1.31)	0.90 (1.18)	950 (37.4")	1,450 (3,200)	3	-	-	-	-	-	-	●
	1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	-	-	-	-	-	-	■
	2.20 (2.88)	1.93 (2.52)	1,575 (62.0")	2,030 (4,480)	5	●	●	●	●	●	●	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,300 (5,070)	5	●	●	●	◐	◐	■	-
	3.00 (3.92)	2.70 (3.53)	1,905 (75.0")	2,460 (5,420)	6	●	◐	◐	◐	■	■	-
Heavy duty	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,450 (5,400)	5	●	●	●	●	◐	◐	-
	2.61 (3.41)	2.33 (3.05)	1,525 (60.0")	2,395 (5,280)	6	●	●	●	●	◐	■	-
	2.92 (3.82)	2.60 (3.40)	1,675 (65.9")	2,525 (5,570)	6	◐	◐	■	■	■	▲	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	2,870 (6,330)	6	●	●	◐	◐	■	■	-
Rock heavy duty	1.81 (2.37)	1.50 (1.96)	1,460 (57.5")	2,650 (5,840)	4	●	●	●	●	●	●	-
	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,610 (5,750)	5	●	●	●	●	●	◐	-
	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,730 (6,020)	5	●	●	●	●	◐	■	-
	2.70 (3.53)	2.39 (3.13)	1,755 (69.1")	2,770 (6,110)	5	●	●	◐	◐	◐	■	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,950 (6,500)	5	●	●	◐	◐	■	■	-
	3.00 (3.92)	2.76 (3.61)	1,950 (76.8")	3,040 (6,770)	6	◐	◐	◐	■	■	▲	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	3,230 (7,120)	6	◐	■	■	■	▲	▲	-

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▲	Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less
X	Not recommended
-	Not available

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(3) 11700 kg counterweight

General bucket

Heavy duty
(with side cutter)

Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO						
						Recommendation						
	SAE Heaped	CECE heaped	Without side cutter			6.55 m (21' 6") Boom		7.06 m (23' 2") Boom				9.00 m (29' 6") Boom
	m^3 (yd^3)	m^3 (yd^3)	mm (in)	kg (lb)	EA	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	2.55 m (8' 4') Arm	2.90 m (9' 6') Arm	3.38 m (11' 1') Arm	4.00 m (13' 1') Arm	6.00 m (19' 8') Arm
General bucket	1.00 (1.31)	0.90 (1.18)	950 (37.4")	1,450 (3,200)	3	-	-	-	-	-	-	●
	1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	-	-	-	-	-	-	◐
	2.20 (2.88)	1.93 (2.52)	1,575 (62.0")	2,030 (4,480)	5	●	●	●	●	●	●	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,300 (5,070)	5	●	●	●	●	◐	■	-
	3.00 (3.92)	2.70 (3.53)	1,905 (75.0")	2,460 (5,420)	6	●	●	◐	◐	◐	■	-
Heavy duty	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,450 (5,400)	5	●	●	●	●	●	◐	-
	2.61 (3.41)	2.33 (3.05)	1,525 (60.0")	2,395 (5,280)	6	●	●	●	●	●	◐	-
	2.92 (3.82)	2.60 (3.40)	1,675 (65.9")	2,525 (5,570)	6	●	◐	◐	■	■	▲	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	2,870 (6,330)	6	●	●	●	◐	◐	■	-
Rock heavy duty	1.81 (2.37)	1.50 (1.96)	1,460 (57.5")	2,650 (5,840)	4	●	●	●	●	●	●	-
	2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,610 (5,750)	5	●	●	●	●	●	●	-
	2.43 (3.18)	2.11 (2.76)	1,750 (68.9")	2,730 (6,020)	5	●	●	●	●	●	◐	-
	2.70 (3.53)	2.39 (3.13)	1,755 (69.1")	2,770 (6,110)	5	●	●	●	●	◐	■	-
	2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,950 (6,500)	5	●	●	●	◐	◐	■	-
	3.00 (3.92)	2.76 (3.61)	1,950 (76.8")	3,040 (6,770)	6	●	●	◐	◐	■	■	-
	3.20 (4.19)	2.82 (3.69)	1,995 (78.5")	3,230 (7,120)	6	◐	◐	◐	■	■	▲	-

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▲	Applicable for materials with density of 1200 kg/m^3 (2000 lb/yd^3) or less
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7. UNDERCARRIAGE

1) TYPES OF SHOES

Model	Description	Unit		Triple grouser								Double grouser			
	width	mm	(in)	600	(24)	700	(28)	800	(32)	900	(36)	600	(24)	700	(28)
HX480A L	Operating weight	kg	(lb)	50870	112150	51390	113300	51920	114460	52420	115570	50900	112220	51430	113380
	Ground pressure	kgf/cm²	(psi)	0.88	12.6	0.77	10.9	0.68	9.6	0.61	8.6	0.88	12.6	0.77	10.9
	Overall width	mm	(ft-in)	3340	10' 11"	3440	11' 3"	3540	11' 7"	3640	11' 11"	3340	10' 11"	3440	11' 3"
	Link quantity	EA		53		53		53		53		53		53	
HX520A L	Operating weight	kg	(lb)	52900	116620	53420	117770	53950	118940			52930	116690	53460	117860
	Ground pressure	kgf/cm²	(psi)	0.92	13.1	0.80	11.3	0.70	10.0			0.92	13.1	0.80	11.3
	Overall width	mm	(ft-in)	3540	11' 7"	3640	11' 11"	3740	12' 3"			3540	11' 7"	3640	11' 11"
	Link quantity	EA		53		53		53				53		53	

2) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

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

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

Table 1

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
700 mm triple grouser	Option	B
800 mm triple grouser	Option	C
900 mm triple grouser	Option	C
600 mm double grouser	Option	A
700 mm double grouser	Option	B

Table 2

Category	Applications	Precautions
A	Rocky ground, river beds, normal soil	· Travel at low speed on rough ground with large obstacles such as boulders or fallen trees or a wide range of general civil engineering work
B	Normal soil, soft ground	· These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees · Travel at high speed only on flat ground · Travel slowly at low speed if it is impossible to avoid going over obstacles
C	Extremely soft ground (swampy ground)	· Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B · These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees · Travel at high speed only on flat ground · Travel slowly at low speed if it is impossible to avoid going over obstacles

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Maker / Model	CUMMINS / X12
Type	4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine
Cooling method	Water cooled
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	132 × 144 mm (5.2" × 5.67")
Displacement	11.8 ℓ (720 cu in)
Compression ratio	17 : 1
Gross power	400 Hp (298 kW) at 2100 rpm
Net power	395 Hp (295 kW) at 2100 rpm
Max. power	402 Hp (300 kW) at 1800 rpm
Peak Torque	1898 N·m (1400 lbf·ft) at 1400 rpm
Engine oil quantity	34 ℓ (9 U.S. gal)
Wet weight	860 kg (1896 lb)
Starter motor	24 V-7.5 kW
Alternator	24 V-110 A

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 225 cc/rev
Maximum pressure	330 kgf/cm^2 (4690 psi) [360 kgf/cm^2 (5120 psi)]
Rated oil flow	2 × 394 ℓ /min (104 U.S. gpm/86.7 U.K. gpm)
Rated speed	1750 rpm

[ ] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	13.7 cc/rev
Maximum pressure	40 kgf/cm^2 (570 psi)
Rated oil flow	23.5 ℓ/min (6.3 U.S. gpm/5.3 U.K. gpm)

4) MAIN CONTROL VALVE

Item		Specification
Type		9 spools
Operating method		Hydraulic pilot system
Main relief valve pressure		330 kgf/cm^2 (4690 psi) [360 kgf/cm^2 (5120 psi)] *1 330 kgf/cm^2 (4690 psi) [Not applied power boost]
Port relief valve pressure	Boom	400 kgf/cm^2 (5690 psi), *1 380 kgf/cm^2 (5400 psi)
	Arm	400 kgf/cm^2 (5690 psi), *1 280 kgf/cm^2 (3980 psi)
	Bucket	400 kgf/cm^2 (5690 psi), *1 280 kgf/cm^2 (3980 psi)

[ ] : Power boost *1 : Long reach only

5) SWING MOTOR

Item		Specification
Type		Axial piston motor
Capacity		142.8 cc/rev
Relief pressure		285 kgf/cm^2 (4054 psi)
Braking system		Automatic, spring applied hydraulic released
Braking torque		63 kgf · m (456 lbf·ft) over
Brake release pressure	Cranking	20.9~35.5 kgf ·m (151~257 lbf·ft)
	Full stroke	20.9~35.5 kgf ·m (151~257 lbf·ft)
Reduction gear type		2 - stage planetary

6) TRAVEL MOTOR (Type 1, 2)

Item	Specification
Type	Variable displacement axial piston motor
Capacity	281.7/175.9 cc/rev
Relief pressure	360 kgf/cm^2 (5120 psi)
Braking system	Auto matic, spring applied hydraulic released
Braking torque	119.7 kgf · m (866 lbf · ft)
Brake release pressure	11.3~15.7 kgf/cm^2 (161~223 psi)
Reduction gear type	2-stage planetary

7) CYLINDER

Item			Specification
Boom cylinder	Bore dia × Stroke		Ø170 × 1580 mm
	Cushion		Extend only
Arm cylinder	Bore dia × Stroke		Ø190 × 1850 mm
	Cushion		Extend and retract
Bucket cylinder	Bore dia × Stroke	HX480A L	Ø160 × 1360 mm
		HX480A L★ HX520A L	Ø170 × 1360 mm
	Cushion		Extend only

★ Only for 6.55 m (21' 6") boom and 2.55 m (8' 4") arm

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

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

9. RECOMMENDED OILS

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

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

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature ˚C (˚F) -50 (-58) -30 (-22) -20 (-4) -10 (14) 0 (32) 10 (50) 20 (68) 30 (86) 40 (104)
Engine oil pan	Engine oil	34.0 (9.0)	★SAE 5W-40 SAE 30 SAE 10W SAE 10W-30 SAE 15W-40
DEF/ AdBlue® tank	Mixture of urea and deionized water	70 (18.5)	ISO 22241, High-purity urea + deionized water (32.5:67.5)
Swing drive	Gear oil	7.0 (1.8) × 2	★SAE 75W-90
Final drive		12.0 (3.0) × 2	SAE 80W-90
Hydraulic tank	Hydraulic oil	Tank : 275 (72.6) System : 499 (132)	★ISO VG 15 ISO VG 32 ISO VG 46, HBHO VG 46★3 ISO VG 68
Fuel tank	Diesel fuel★1	600 (159)	★ASTM D975 NO.1 ASTM D975 NO.2
Fitting (grease nipple)	Grease	As required	★NLGI NO.1 NLGI NO.2
Radiator (reservoir tank)	Mixture of antifreeze and soft water★2	43.0 (11.4)	Ethylene glycol base permanent type (50 : 50) ★Ethylene glycol base permanent type (60 : 40)

SAE : Society of Automotive Engineers
API : American Petroleum Institute
ISO : International Organization for Standardization
NLGI : National Lubricating Grease Institute
ASTM : American Society of Testing and Material
DEF : Diesel Exhaust Fluid DEF compatible with AdBlue®

★ : Cold region (Russia, CIS, Mongolia)
★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 your local HD Hyundai Construction Equipment dealers.