

SECTION 1 GENERAL

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SECTION 1 GENERAL

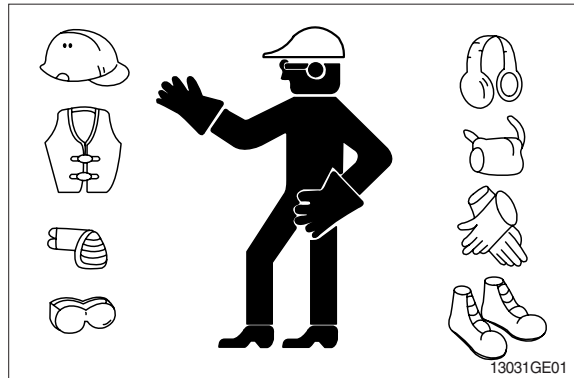
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

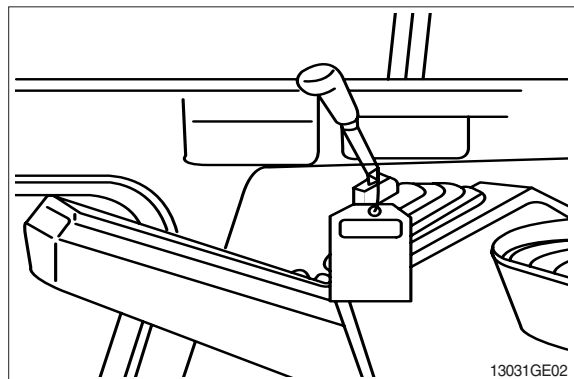
Wear close fitting clothing and safety equipment appropriate to the job.



WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

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



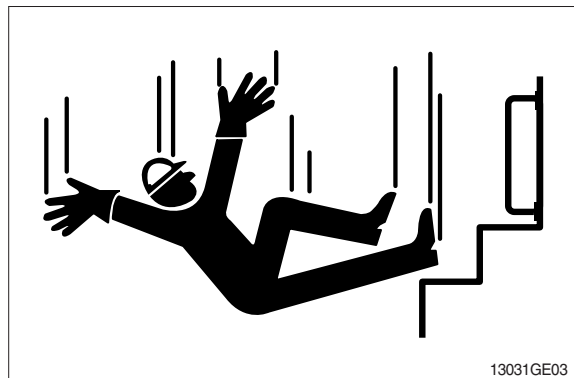
USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

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

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

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

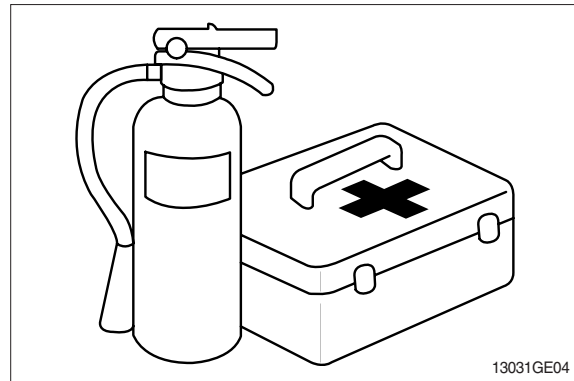


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

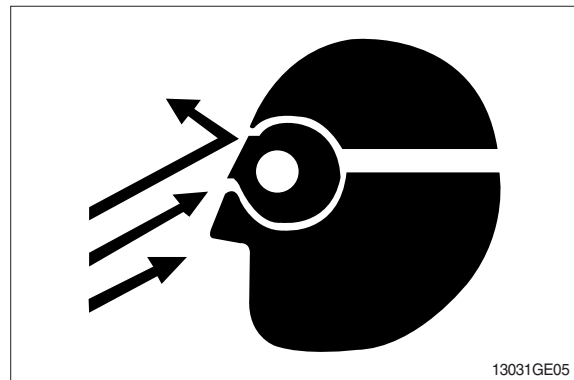
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

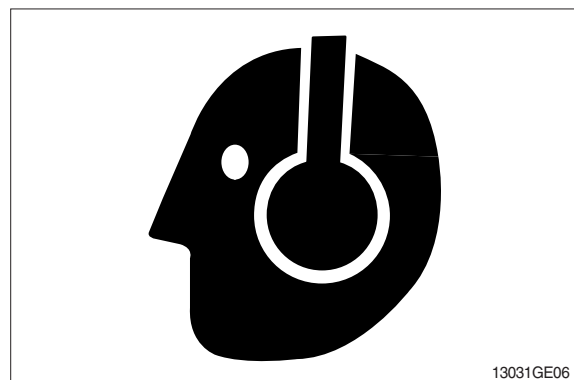
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

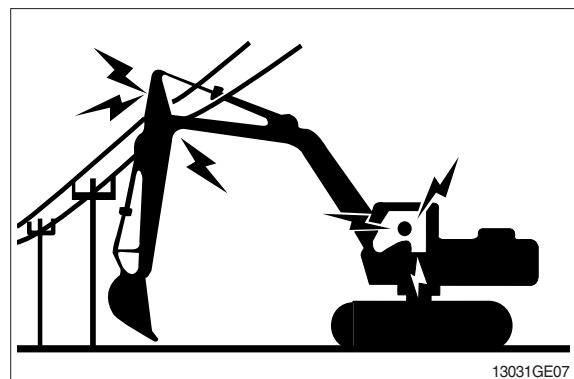
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

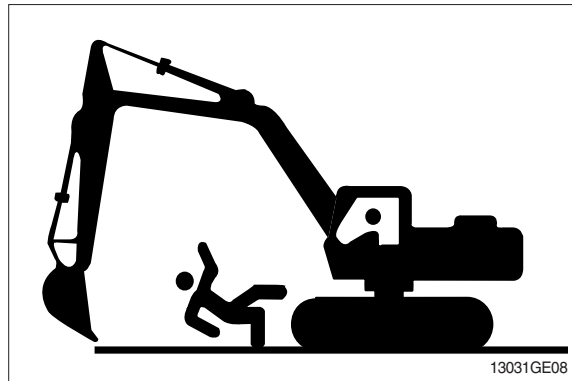
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



KEEP RIDERS OFF EXCAVATOR

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

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

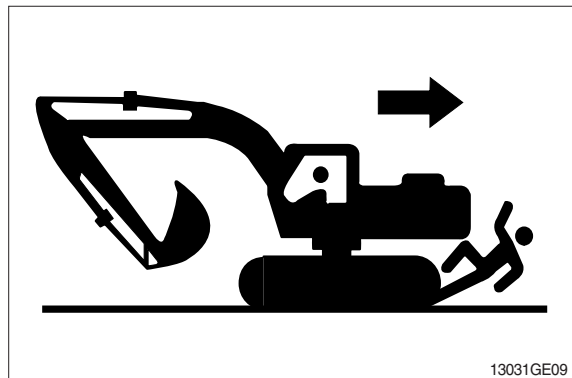


MOVE AND OPERATE MACHINE SAFELY

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

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

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



OPERATE ONLY FROM OPERATOR'S SEAT

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

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



PARK MACHINE SAFELY

Before working on the machine:

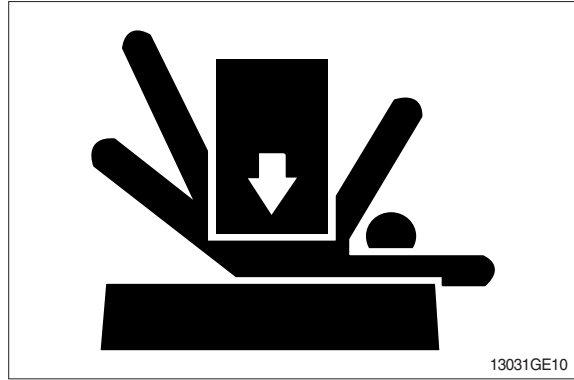
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine.
Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

SUPPORT MACHINE PROPERLY

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

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

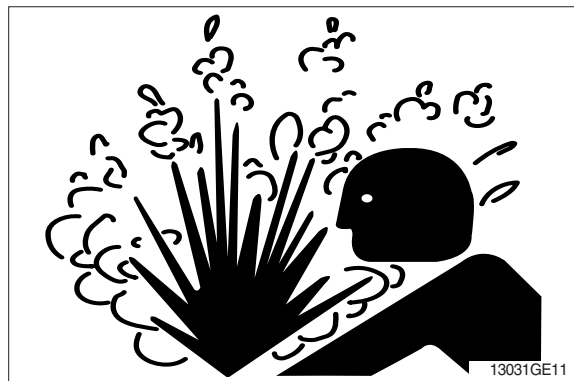
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

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

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



HANDLE FLUIDS SAFELY-AVOID FIRES

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



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

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

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



BEWARE OF EXHAUST FUMES

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

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

REMOVE PAINT BEFORE WELDING OR HEATING

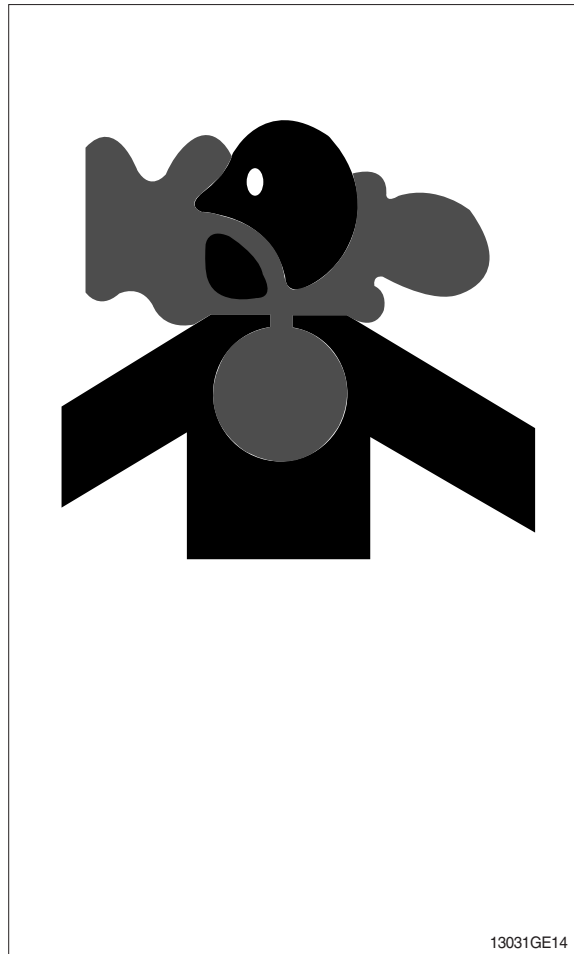
Avoid potentially toxic fumes and dust.

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

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

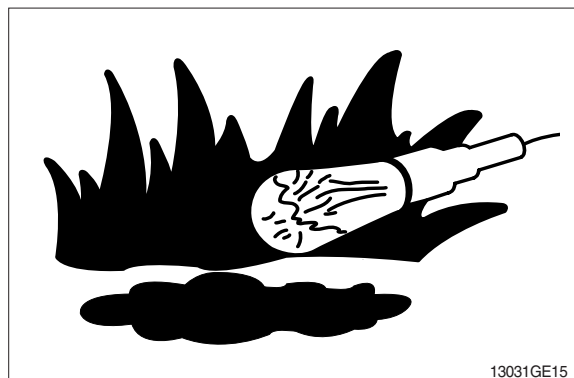
Remove paint before welding or heating:

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



ILLUMINATE WORK AREA SAFELY

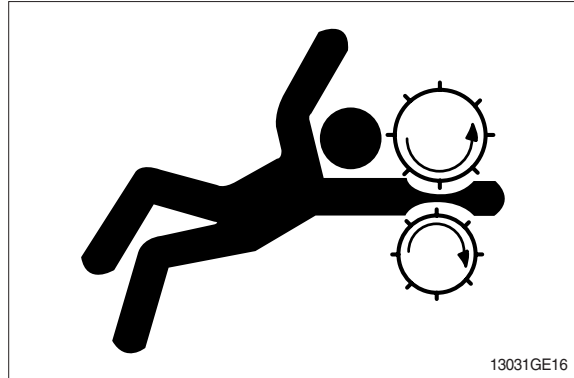
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



SERVICE MACHINE SAFELY

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

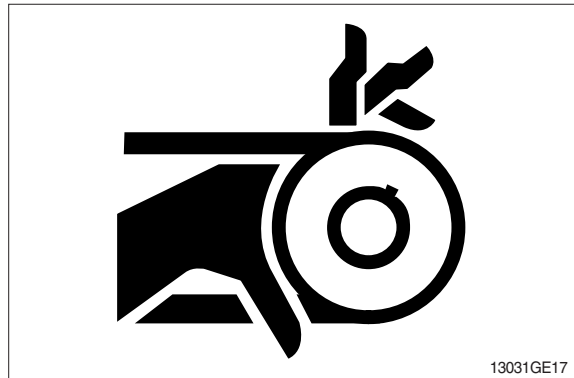
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



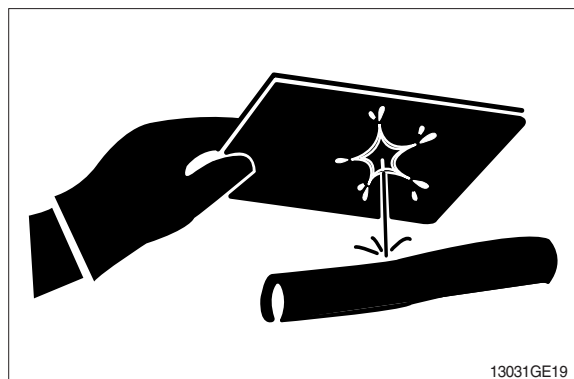
AVOID HIGH PRESSURE FLUIDS

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

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

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

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



AVOID HEATING NEAR PRESSURIZED FLUID LINES

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

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



PREVENT BATTERY EXPLOSIONS

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

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

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



PREVENT ACID BURNS

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

Avoid the hazard by:

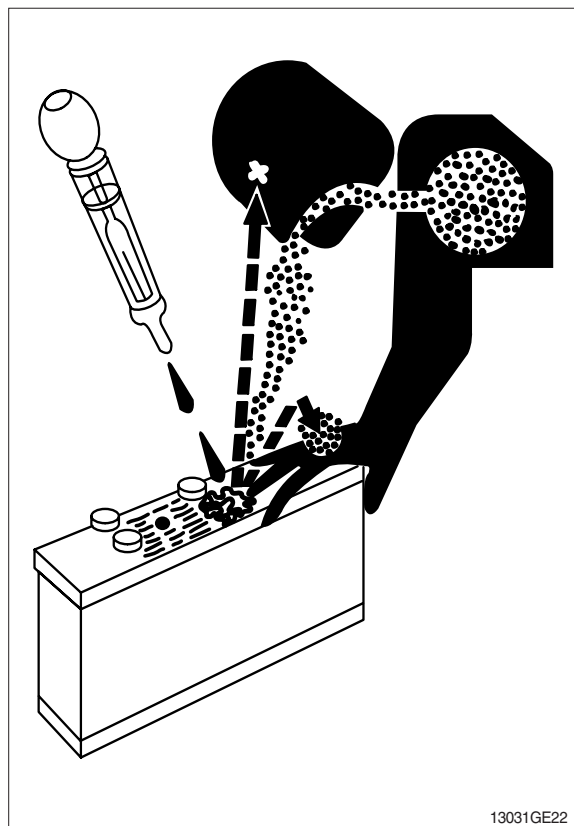
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

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

If acid is swallowed:

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



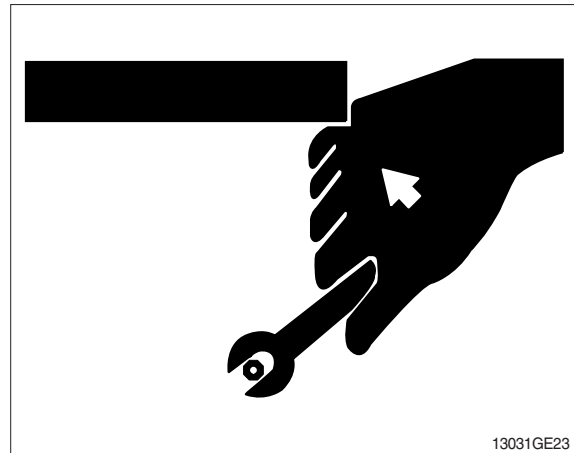
USE TOOLS PROPERLY

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

Use power tools only to loosen threaded tools and fasteners.

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

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

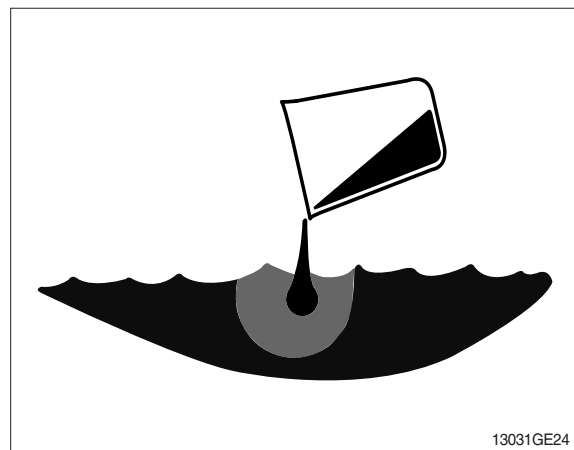


DISPOSE OF FLUIDS PROPERLY

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

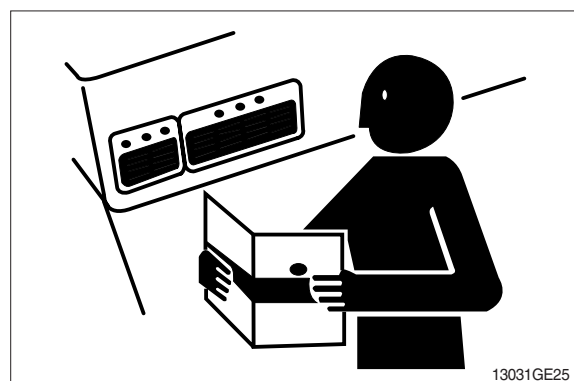
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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



REPLACE SAFETY SIGNS

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

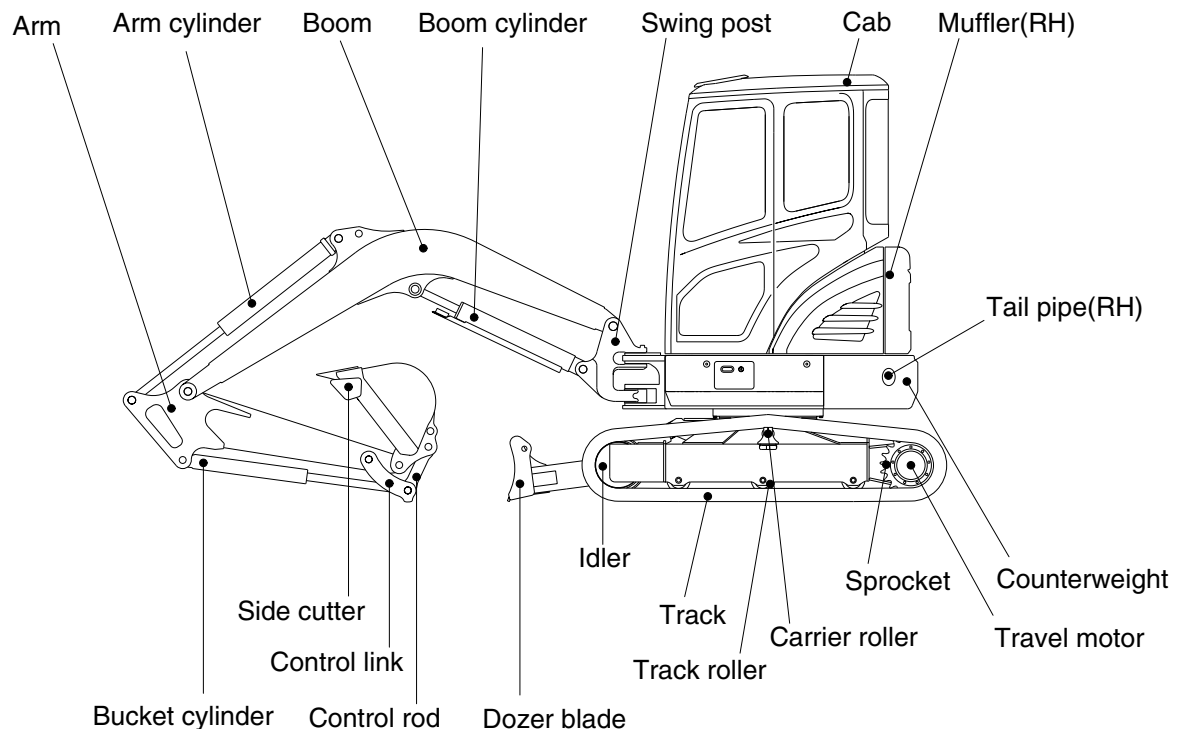
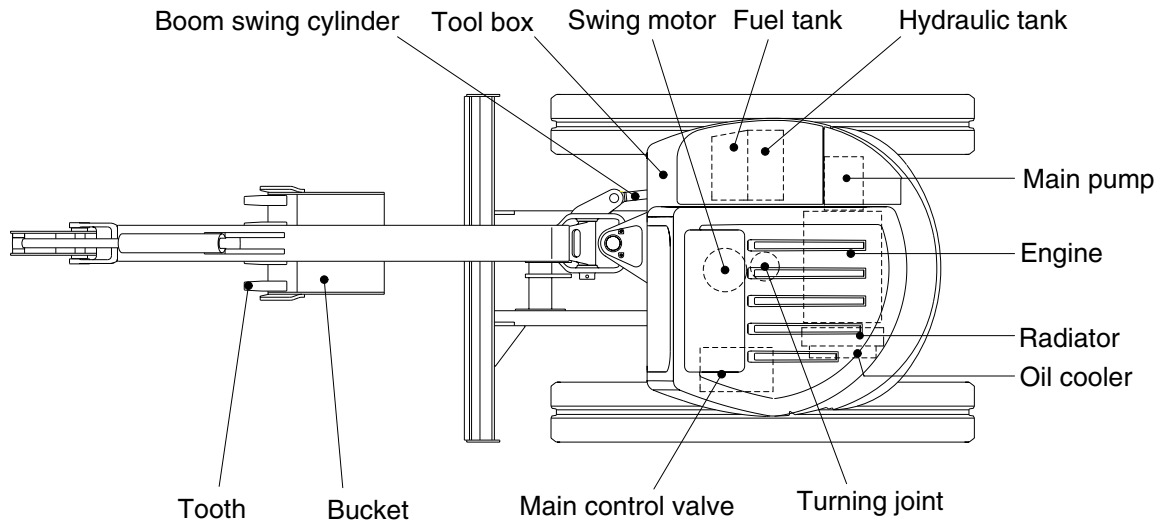


LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

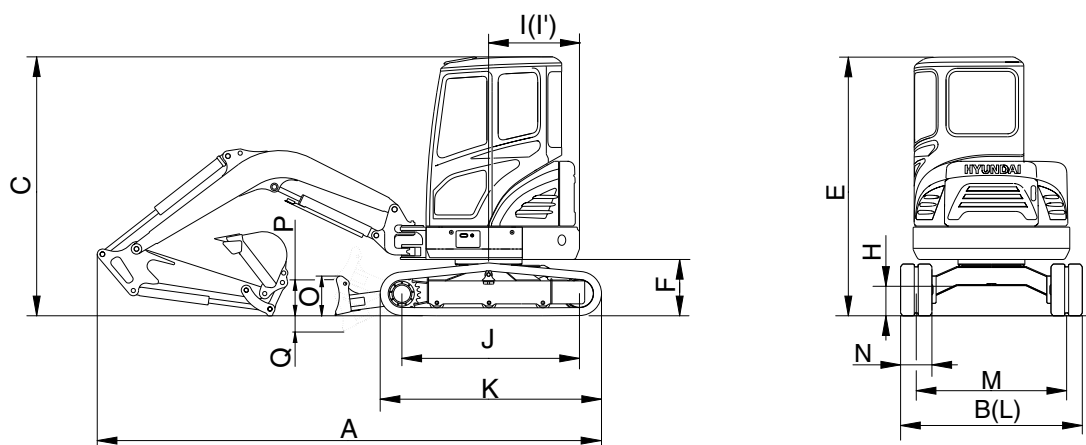
1. MAJOR COMPONENT



R25Z9AK2SP01

2. SPECIFICATIONS

1) 1.945 m (6' 5") MONO BOOM, 1.12 m (3' 8") ARM, WITH BOOM SWING POST

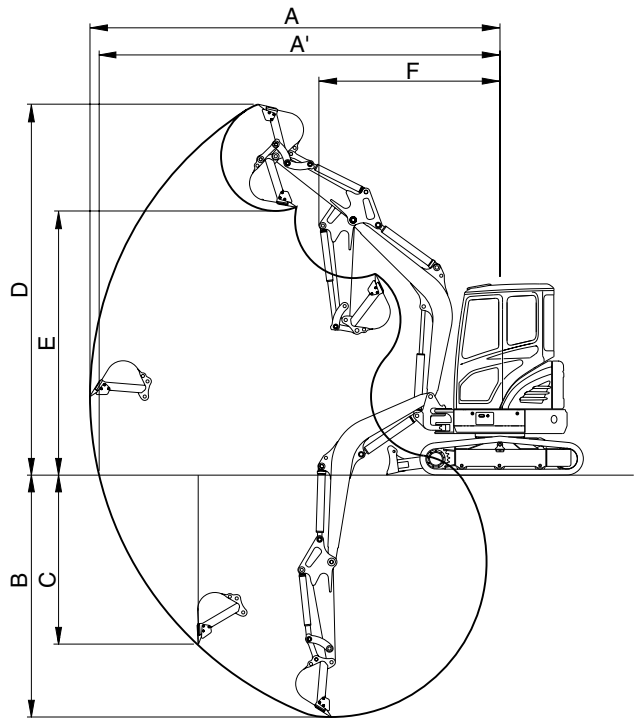


R25Z9AK2SP02

Description		Unit	Specification
Operating weight (cabin / canopy)		kg (lb)	2580 (5690) / 2430 (5360)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.07 (0.09)
Overall length	A	mm (ft-in)	4030 (13' 3")
Overall width, with 250 mm shoe	B		1500 (4' 11")
Overall height	C		2500 (8' 2")
Overall height of cab	E		2500 (8' 2")
Ground clearance of counterweight	F		510 (1' 8")
Minimum ground clearance	H		290 (0' 11")
Rear-end distance	I		775 (2' 7")
Rear-end swing radius	I'		775 (2' 7")
Distance between tumblers	J		1490 (4' 11")
Undercarriage length	K		1910 (6' 3")
Undercarriage width	L		1500 (4' 11")
Track gauge	M		1250 (4' 1")
Track shoe width, standard	N		250 (9.8")
Height of blade	O		300 (1' 0")
Ground clearance of blade up	P		330 (1' 1")
Depth of blade down	Q		380 (1' 3")
Travel speed (low/high)		km/hr (mph)	2.4/4.3 (1.5/2.7)
Swing speed		rpm	9.1
Gradeability		Degree (%)	30 (58)
Ground pressure 250 mm rubber shoe (cab / canopy)		kgf/cm ² (psi)	0.32 (4.6) / 0.3 (4.34)

3. WORKING RANGE

1) 1.945 m (6' 5") MONO BOOM WITH BOOM SWING POST



R27Z92SP03

Description		1.12 m (3' 8") Arm
Max digging reach	A	4480 mm (14' 8")
Max digging reach on ground	A'	4340 mm (14' 3")
Max digging depth	B	2420 mm (7' 11")
Max vertical wall digging depth	C	1460 mm (4' 9")
Max digging height	D	4150 mm (13' 7")
Max dumping height	E	2930 mm (9' 7")
Min swing radius	F	1980 mm (6' 6")
Boom swing radius (left/right)		75°/50°
Bucket digging force	SAE	19.2 kN
		1960 kgf
		4320 lbf
	ISO	21.1 kN
		2150 kgf
		4740 lbf
Arm crowd force	SAE	14.2 kN
		1450 kgf
		3200 lbf
	ISO	14.6 kN
		1490 kgf
		3280 lbf

4. WEIGHT

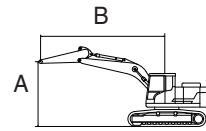
Item	kg	lb
Upperstructure assembly	979	2158
Main frame weld assembly	305	672
Engine assembly	124	273
Main pump assembly	19	42
Main control valve assembly	25	55
Swing motor assembly	34	75
Hydraulic oil tank assembly	50	110
Fuel tank assembly	30	70
Boom swing post	65	143
Counterweight	117	258
Cab assembly	210	460
Lower chassis assembly	828	1825
Track frame weld assembly	220	485
Swing bearing	47	100
Travel motor assembly	36	80
Turning joint	11	24
Track recoil spring	16	35
Idler	20	44
Carrier roller	3	7
Track roller	10	22
Sprocket	7	15
Rubber track (250 mm)	117	258
Dozer blade assembly	92	200
Front attachment assembly (1.945 m boom, 1.12 m arm, 0.07 m ³ SAE heaped bucket)	318	701
1.945 m boom assembly	80	176
1.12 m arm assembly	45	99
0.07 m ³ SAE heaped bucket	57	126
Boom cylinder assembly	26	57
Arm cylinder assembly	26	57
Bucket cylinder assembly	20	44
Bucket control link assembly	20	45
Dozer cylinder assembly	21	46
Boom swing cylinder assembly	23	51

5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R25Z-9AK	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1120	117	250	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb									*700 *1540	390 860			*720 *1590	370 820	3.08 (10.1)
2.5 m (8.2 ft)	kg lb									*680 *1500	390 860			*720 *1590	310 680	3.45 (11.3)
2.0 m (6.6 ft)	kg lb							*780 *1720	520 1150	*740 *1630	380 840	*720 *1590	300 660	*700 *1540	270 600	3.69 (12.1)
1.5 m (4.9 ft)	kg lb					*1390 *3060	710 1570	*1010 *2230	500 1100	*850 *1870	370 820	*770 *1700	290 640	*710 *1570	250 550	3.82 (12.5)
1.0 m (3.3 ft)	kg lb							*1250 *2760	470 1040	*970 *2140	360 790	*830 *1830	280 620	*750 *1650	240 530	3.86 (12.7)
0.5 m (1.6 ft)	kg lb					*1190 *2620	630 1390	*1420 *3130	450 990	*1070 *2360	350 770	*880 *1940	280 620	*790 *1740	240 530	3.82 (12.5)
Ground Line	kg lb			*810 *1790	*810 *1790	*1640 *3620	630 1390	*1480 *3260	450 990	*1120 *2470	340 750	*890 *1960	270 600	*820 *1810	250 550	3.69 (12.1)
-0.5 m (-1.6 ft)	kg lb	*1220 *2690	*1220 *2690	*1460 *3220	1060 2340	*2020 *4450	630 1390	*1440 *3170	440 970	*1090 *2400	340 750			*850 *1870	280 620	3.46 (11.3)
-1.0 m (-3.3 ft)	kg lb	*1820 *4010	*1820 *4010	*2280 *5030	1070 2360	*1770 *3900	640 1410	*1280 *2820	450 990	*940 *2070	340 750			*870 *1920	330 730	3.09 (10.1)
-1.5 m (-4.9 ft)	kg lb			*1900 *4190	1090 2400	*1280 *2820	650 1430	*870 *1920	460 1010					*870 *1920	460 1010	2.50 (8.2)

Note 1. Lifting capacity are based on SAE J1097 and ISO 10567.

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

3. The load point is a hook located on the back of the bucket.

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

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

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

Consult your Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

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

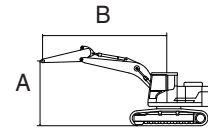
▲ Failure to comply to the rated load can cause possible personal injury or property damage.

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

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R25Z-9AK	Cabin	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1120	117	250	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

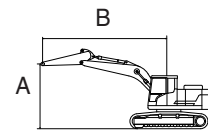


Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb									*580 *1280	410 900			*610 *1340	370 820	3.16 (10.4)
2.5 m (8.2 ft)	kg lb									*580 *1280	410 900	*610 *1340	300 660	*590 *1300	300 660	3.52 (11.5)
2.0 m (6.6 ft)	kg lb									*650 *1430	400 880	*640 *1410	300 660	*590 *1300	260 570	3.75 (12.3)
1.5 m (4.9 ft)	kg lb					*1160 *2560	760 1680	*880 *1940	520 1150	*760 *1680	380 840	*690 *1520	290 640	*610 *1340	240 530	3.88 (12.7)
1.0 m (3.3 ft)	kg lb					*1740 *3840	700 1540	*1140 *2510	500 1100	*890 *1960	370 820	*760 *1680	290 640	*650 *1430	230 510	3.92 (12.9)
0.5 m (1.6 ft)	kg lb					*1630 *3590	670 1480	*1330 *2930	470 1040	*1000 *2200	360 790	*820 *1810	280 620	*720 *1590	230 510	3.88 (12.7)
Ground Line	kg lb	*830 *1830	*830 *1830	*970 *2140	*970 *2140	*1850 *4080	660 1460	*1420 *3130	460 1010	*1060 *2340	350 770	*850 *1870	270 600	*770 *1700	240 530	3.75 (12.3)
-0.5 m (-1.6 ft)	kg lb	*1220 *2690	*1220 *2690	*1480 *3260	1120 2470	*2030 *4480	660 1460	*1410 *3110	460 1010	*1060 *2340	340 750	*820 *1810	270 600	*810 *1790	270 600	3.52 (11.6)
-1.0 m (-3.3 ft)	kg lb	*1690 *3730	*1690 *3730	*2110 *4650	1130 2490	*1810 *3990	670 1480	*1290 *2840	460 1010	*960 *2120	350 770			*860 *1900	320 710	3.17 (10.4)
-1.5 m (-4.9 ft)	kg lb	*2260 *4980	*2260 *4980	*2180 *4810	1160 2560	*1410 *3110	680 1500	*990 *2180	470 1040					*920 *2030	440 970	2.60 (8.5)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R25Z-9AK	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1120	117	250	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

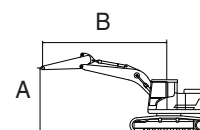


Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb													520 1150	430 950	2.88 (9.5)
2.5 m (8.2 ft)	kg lb								490 1080	410 900				410 900	340 750	3.32 (10.9)
2.0 m (6.6 ft)	kg lb								480 1060	410 900	370 820	310 680	350 770	300 660	300 660	3.61 (11.8)
1.5 m (4.9 ft)	kg lb					920 2030	750 1650	630 1390	530 1170	470 1040	390 860	370 820	310 680	320 710	270 600	3.78 (12.4)
1.0 m (3.3 ft)	kg lb							610 1340	500 1100	460 1010	380 840	360 790	300 660	310 680	260 570	3.86 (12.7)
0.5 m (1.6 ft)	kg lb							580 1280	480 1060	440 970	370 820	350 770	300 660	310 680	260 570	3.85 (12.6)
Ground Line	kg lb					820 1810	660 1460	570 1260	470 1040	440 970	360 790	350 770	290 640	310 680	260 570	3.75 (12.3)
-0.5 m (-1.6 ft)	kg lb	*1010 *2230	*1010 *2230	*1190 *2620	1080 2380	810 1790	650 1430	570 1260	470 1040	430 950	360 790	350 770	290 680	340 750	280 620	3.56 (11.7)
-1.0 m (-3.3 ft)	kg lb	*1570 *3460	*1570 *3460	1420 3130	1090 2400	820 1810	660 1460	570 1260	470 1040	430 950	360 790			390 860	320 710	3.25 (10.7)
-1.5 m (-4.9 ft)	kg lb	*2290 *5050	*2290 *5050	1440 3170	1110 2450	830 1830	670 1480	580 1280	480 1060					500 1100	410 900	2.77 (9.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R25Z-9AK	Cabin	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1120	117	250	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

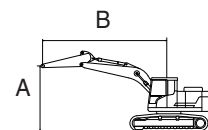


Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb									460 1010	380 840			410 900	350 770	3.16 (10.4)
2.5 m (8.2 ft)	kg lb									460 1010	380 840	340 750	280 620	340 750	280 620	3.52 (11.5)
2.0 m (6.6 ft)	kg lb									450 990	370 820	340 750	280 620	300 660	250 550	3.75 (12.3)
1.5 m (4.9 ft)	kg lb					870 1920	710 1570	590 1300	490 1080	430 950	360 790	330 730	270 600	280 620	230 510	3.88 (12.7)
1.0 m (3.3 ft)	kg lb					810 1790	650 1430	560 1230	460 1010	420 930	340 750	320 710	260 570	260 570	220 490	3.92 (12.9)
0.5 m (1.6 ft)	kg lb					780 1720	620 1370	540 1190	440 970	400 880	330 730	310 680	260 570	270 600	220 490	3.88 (12.7)
Ground Line	kg lb	*830 *1830	*830 *1830	*970 *2140	*970 *2140	760 1680	610 1340	530 1170	430 950	390 860	320 710	310 680	250 550	280 620	230 510	3.75 (12.3)
-0.5 m (-1.6 ft)	kg lb	*1220 *2690	*1220 *2690	1350 2980	1020 2250	760 1680	610 1340	520 1150	420 930	390 860	320 710	310 680	250 550	300 660	250 550	3.52 (11.6)
-1.0 m (-3.3 ft)	kg lb	*1690 *3730	*1690 *3730	1360 3000	1030 2270	770 1700	610 1340	530 1170	420 930	390 860	320 710			360 790	300 660	3.17 (10.4)
-1.5 m (-4.9 ft)	kg lb	*2260 *4980	*2260 *4980	1390 3060	1060 2340	790 1740	630 1390	540 1190	440 970					500 1100	410 900	2.60 (8.5)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R25Z-9AK	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1120	247	250	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

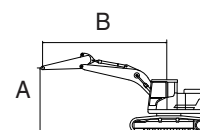


Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb													*720 *1590	530 1170	2.88 (9.5)
2.5 m (8.2 ft)	kg lb								*670 *1480	500 1100				*720 *1590	420 930	3.32 (10.9)
2.0 m (6.6 ft)	kg lb								*710 *1570	490 1080	*720 *1590	390 860	*710 *1570	370 820	3.61 (11.8)	
1.5 m (4.9 ft)	kg lb					*1150 *2540	920 2030	*910 *2010	640 1410	*800 *1760	480 1060	*750 *1650	380 840	*710 *1570	340 750	3.78 (12.4)
1.0 m (3.3 ft)	kg lb							*1160 *2560	620 1370	*920 *2030	470 1040	*810 *1790	380 840	*730 *1610	320 710	3.86 (12.7)
0.5 m (1.6 ft)	kg lb							*1360 *3000	600 1320	*1040 *2290	460 1010	*860 *1900	370 820	*780 *1720	320 710	3.85 (12.6)
Ground Line	kg lb					*1430 *3150	820 1810	*1470 *3240	590 1300	*1110 *2450	450 990	*890 *1960	360 790	*810 *1790	330 730	3.75 (12.3)
-0.5 m (-1.6 ft)	kg lb	*1010 *2230	*1060 *2230	*1190 *2620	*1190 *2620	*2080 *4590	820 1810	*1470 *3240	580 1280	*1110 *2450	450 990	*870 *1920	360 790	*840 *1850	350 770	3.56 (11.7)
-1.0 m (-3.3 ft)	kg lb	*1570 *3460	*1570 *3460	*1920 *4230	1370 3020	*1880 *4140	820 1810	*1360 *3000	580 1280	*1020 *2250	450 990			*860 *1900	400 880	3.25 (10.7)
-1.5 m (-4.9 ft)	kg lb	*2290 *5050	*2290 *5050	*2280 *5030	1390 3060	*1510 *3330	830 1830	*1090 *2400	590 1300					*880 *1940	510 1120	2.77 (9.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R25Z-9AK	Cabin	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1120	247	250	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

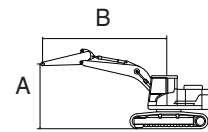


Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb									*580 *1280	470 1040			*610 *1340	430 950	3.16 (10.4)
2.5 m (8.2 ft)	kg lb									*580 *1280	470 1040	*610 *1340	360 790	*590 *1300	350 770	3.52 (11.5)
2.0 m (6.6 ft)	kg lb									*650 *1430	460 1010	*640 *1410	350 770	*590 *1300	310 680	3.75 (12.3)
1.5 m (4.9 ft)	kg lb					*1160 *2560	870 1920	*880 *1940	600 1320	*760 *1680	450 990	*690 *1520	350 770	*610 *1340	290 640	3.88 (12.7)
1.0 m (3.3 ft)	kg lb					*1740 *3840	810 1790	*1140 *2510	580 1280	*890 *1960	430 950	*760 *1680	340 750	*650 *1430	280 620	3.92 (12.9)
0.5 m (1.6 ft)	kg lb					*1630 *3590	780 1720	*1330 *2930	550 1210	*1000 *2200	420 930	*820 *1810	330 730	*720 *1590	280 620	3.88 (12.7)
Ground Line	kg lb	*830 *1830	*830 *1830	*970 *2140	*970 *2140	*1850 *4080	770 1700	*1420 *3130	540 1190	*1060 *2340	410 900	*850 *1870	320 710	*770 *1700	290 640	3.75 (12.3)
-0.5 m (-1.6 ft)	kg lb	*1220 *2690	*1220 *2690	*1480 *3260	1300 2870	*2030 *4480	770 1700	*1410 *3110	540 1190	*1060 *2340	410 900	*820 *1810	320 710	*810 *1790	320 710	3.52 (11.6)
-1.0 m (-3.3 ft)	kg lb	*1690 *3730	*1690 *3730	*2110 *4650	1310 2890	*1810 *3990	780 1720	*1290 *2840	540 1190	*960 *2120	410 900			*860 *1900	380 840	3.17 (10.4)
-1.5 m (-4.9 ft)	kg lb	*2260 *4980	*2260 *4980	*2180 *4810	1340 2950	*1410 *3110	790 1740	*990 *2180	550 1210					*920 *2030	520 1150	2.60 (8.5)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R25Z-9AK	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1120	247	250	-	Up	-	-	-

·  : Rating over-front

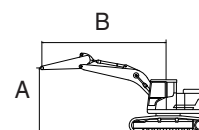
·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb													590 1300	500 1100	2.88 (9.5)
2.5 m (8.2 ft)	kg lb								550 1210	470 1040				470 1040	400 880	3.32 (10.9)
2.0 m (6.6 ft)	kg lb								550 1210	470 1040	430 950	360 790		410 900	340 750	3.61 (11.8)
1.5 m (4.9 ft)	kg lb					1040 2290	860 1900	720 1590	600 1320	540 1190	460 1010	420 930	360 790	370 820	320 710	3.78 (12.4)
1.0 m (3.3 ft)	kg lb							690 1520	580 1280	520 1150	440 970	420 930	350 770	360 790	300 660	3.86 (12.7)
0.5 m (1.6 ft)	kg lb							670 1480	560 1230	510 1120	430 950	410 900	350 770	360 790	300 660	3.85 (12.6)
Ground Line	kg lb					940 2070	760 1680	660 1460	550 1210	500 1100	420 930	400 880	340 750	370 820	310 680	3.75 (12.3)
-0.5 m (-1.6 ft)	kg lb	*1010 *2230	*1010 *2230	*1190 *2620	*1190 *2620	940 2070	760 1680	650 1430	540 1190	500 1100	420 930	400 880	340 750	390 860	330 730	3.56 (11.7)
-1.0 m (-3.3 ft)	kg lb	*1570 *3460	*1570 *3460	1630 3590	1260 2780	940 2070	760 1680	660 1460	540 1190	500 1100	420 930			450 990	380 840	3.25 (10.7)
-1.5 m (-4.9 ft)	kg lb	*2290 *5050	*2290 *5050	1650 3640	1280 2820	950 2090	780 1720	660 1460	550 1210					570 1260	480 1060	2.77 (9.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R25Z-9AK	Cabin	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1120	247	250	-	Up	-	-	-

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

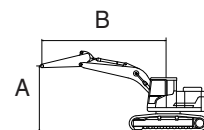


Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb									520 1150	440 970			480 1060	400 880	3.16 (10.4)
2.5 m (8.2 ft)	kg lb									520 1150	440 970	400 880	330 730	390 860	330 730	3.52 (11.5)
2.0 m (6.6 ft)	kg lb									510 1120	430 950	390 860	330 730	350 770	290 640	3.75 (12.3)
1.5 m (4.9 ft)	kg lb					1000 2200	810 1790	680 1500	560 1230	500 1100	420 930	390 860	320 710	320 710	270 600	3.88 (12.7)
1.0 m (3.3 ft)	kg lb					940 2070	760 1680	650 1430	540 1190	490 1080	400 880	380 840	310 680	310 680	260 570	3.92 (12.9)
0.5 m (1.6 ft)	kg lb					900 1980	720 1590	630 1390	510 1120	470 1040	390 860	370 820	310 680	310 680	260 570	3.88 (12.7)
Ground Line	kg lb	*830 *1830	*830 *1830	*970 *2140	*970 *2140	890 1960	710 1570	610 1340	500 1100	460 1010	380 840	360 790	300 660	330 730	270 600	3.75 (12.3)
-0.5 m (-1.6 ft)	kg lb	*1220 *2690	*1220 *2690	*1480 *3260	1190 2620	890 1960	710 1570	610 1340	500 1100	460 1010	380 840	360 790	300 660	360 790	300 660	3.52 (11.6)
-1.0 m (-3.3 ft)	kg lb	*1690 *3730	*1690 *3730	1570 3460	1200 2650	890 1960	720 1590	610 1340	500 1100	460 1010	380 840			430 950	350 770	3.17 (10.4)
-1.5 m (-4.9 ft)	kg lb	*2260 *4980	*2260 *4980	1600 3530	1220 2690	910 2010	730 1610	630 1390	510 1120					590 1300	480 1060	2.60 (8.5)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R25Z-9AK	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1350	117	250	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

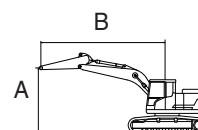


Lift-point height (A)		Lift-point radius (B)												At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		Capacity		Reach
																m (ft)
3.0 m (9.8 ft)	kg lb									*600 *1320	440 970			*640 *1410	400 880	3.17 (10.4)
2.5 m (8.2 ft)	kg lb									*570 *1260	440 970	*640 *1410	310 680	*590 *1300	330 730	3.56 (11.7)
2.0 m (6.6 ft)	kg lb									*620 *1370	440 970	*640 *1410	340 750	*580 *1280	290 640	3.82 (12.5)
1.5 m (4.9 ft)	kg lb							*770 *1700	570 1260	*720 *1590	430 950	*680 *1500	330 730	*580 *1280	270 600	3.98 (13.1)
1.0 m (3.3 ft)	kg lb					*1470 *3240	770 1700	*1030 *2270	550 1210	*850 *1870	410 900	*750 *1650	320 710	*600 *1320	260 570	4.05 (13.3)
0.5 m (1.6 ft)	kg lb					*1720 *3790	730 1610	*1270 *2800	520 1150	*980 *2160	400 880	*820 *1810	320 710	*640 *1410	250 550	4.05 (13.3)
Ground Line	kg lb					*1580 *3480	700 1540	*1420 *3130	500 1100	*1070 *2360	390 860	*880 *1940	310 680	*700 *1540	260 570	3.96 (13.0)
-0.5 m (-1.6 ft)	kg lb	*900 *1980	*900 *1980	*1120 *2470	*1120 *2470	*1970 *4340	700 1540	*1470 *3240	500 1100	*1110 *2450	380 840	*890 *1960	310 680	*780 *1720	270 600	3.78 (12.4)
-1.0 m (-3.3 ft)	kg lb	*1330 *2930	*1330 *2930	*1660 *3660	1170 2580	*2000 *4410	700 1540	*1420 *3130	490 1080	*1070 *2360	380 840	*810 *1790	310 680	*820 *1810	310 680	3.50 (11.5)
-1.5 m (-4.9 ft)	kg lb	*1860 *4100	*1860 *4100	*2410 *5310	1180 2600	*1720 *3790	710 1570	*1230 *2710	500 1100	*900 *1980	380 840			*850 *1870	370 820	3.07 (10.1)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R25Z-9AK	Cabin	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1350	117	250	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

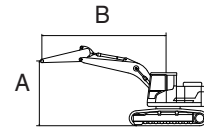


Lift-point height (A)		Lift-point radius (B)														At max. reach			
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		4.0 m (13.1 ft)		Capacity		Reach	
																		m (ft)	
3.5 m (11.5 ft)	kg lb																*530 *1170	420 930	2.94 (9.6)
3.0 m (9.8 ft)	kg lb																*500 *1100	320 710	3.43 (11.3)
2.5 m (8.2 ft)	kg lb											*530 *1170	310 680				*480 *1060	270 600	3.76 (12.3)
2.0 m (6.6 ft)	kg lb									*550 *1210	400 880	*560 *1230	300 660				*480 *1060	240 530	3.97 (13.0)
1.5 m (4.9 ft)	kg lb							*730 *1610	530 1170	*670 *1480	390 860	*630 *1390	300 660	*610 *1340	230 510		*490 *1080	220 490	4.09 (13.4)
1.0 m (3.3 ft)	kg lb					*1470 *3240	720 1590	*1010 *2230	500 1100	*810 *1790	370 820	*700 *1540	290 640	*640 *1410	220 490		*520 *1150	210 460	4.13 (13.6)
0.5 m (1.6 ft)	kg lb					*1910 *4210	680 1500	*1240 *2730	480 1060	*940 *2070	360 790	*780 *1720	280 620	*680 *1500	220 490		*570 *1260	210 460	4.09 (13.4)
Ground Line	kg lb	*700 *1540	*700 *1540	*930 *2050	*930 *2050	*1880 *4140	660 1460	*1380 *3040	460 1010	*1030 *2270	350 770	*830 *1830	270 600				*650 *1430	220 490	3.98 (13.0)
-0.5 m (-1.6 ft)	kg lb	*1030 *2270	*1030 *2270	*1310 *2890	1100 2430	*2080 *4590	650 1430	*1420 *3130	450 990	*1060 *2340	340 750	*840 *1850	270 600				*740 *1630	240 530	3.77 (12.4)
-1.0 m (-3.3 ft)	kg lb	*1410 *3110	*1410 *3110	*1790 *3950	1110 2450	*1940 *4280	650 1430	*1360 *3000	450 990	*1020 *2250	340 750						*790 *1740	270 600	3.44 (11.3)
-1.5 m (-4.9 ft)	kg lb	*1850 *4080	*1850 *4080	*2430 *5360	1130 2490	*1640 *3620	660 1460	*1160 *2560	460 1010								*860 *1900	350 770	2.96 (9.7)
-2.0 m (-6.6 ft)	kg lb			*1640 *3620	1170 2580	*1050 *2310	690 1520										*950 *2090	620 1370	2.12 (7.0)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R25Z-9AK	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1350	117	250	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

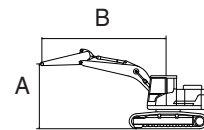


Lift-point height (A)		Lift-point radius (B)														At max. reach			
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		4.0 m (13.1 ft)		Capacity		Reach	
																		m (ft)	
3.0 m (9.8 ft)	kg lb									490 1080	410 900						450 990	380 840	3.17 (10.4)
2.5 m (8.2 ft)	kg lb									490 1080	420 930	380 840	320 710				360 790	310 680	3.56 (11.7)
2.0 m (6.6 ft)	kg lb									490 1080	410 900	380 840	320 710				320 710	270 600	3.82 (12.5)
1.5 m (4.9 ft)	kg lb							640 1410	530 1170	470 1040	400 880	370 820	310 680				300 660	250 550	3.98 (13.1)
1.0 m (3.3 ft)	kg lb					880 1940	720 1590	610 1340	510 1120	460 1010	380 840	360 790	300 660	290 640	240 530		280 620	240 530	4.05 (13.3)
0.5 m (1.6 ft)	kg lb					830 1830	670 1480	590 1300	480 1060	440 970	370 820	350 770	290 640	290 640	240 530		280 620	240 530	4.05 (13.3)
Ground Line	kg lb					810 1790	650 1430	570 1260	470 1040	430 950	360 790	350 770	290 640				290 640	240 530	3.96 (13.0)
-0.5 m (-1.6 ft)	kg lb	*900 *1980	*900 *1980	*1120 *2470	1060 2340	800 1760	640 1410	560 1230	460 1010	430 950	350 770	340 750	280 620				310 680	260 570	3.78 (12.4)
-1.0 m (-3.3 ft)	kg lb	*1330 *2930	*1330 *2930	1400 3090	1070 2360	800 1760	650 1430	560 1230	460 1010	430 950	350 770	340 750	290 640				340 750	290 640	3.50 (11.5)
-1.5 m (-4.9 ft)	kg lb	*1860 *4100	*1860 *4100	1410 3110	1080 2380	810 1790	650 1430	570 1260	460 1010	430 950	360 790						420 930	350 770	3.07 (10.1)
-2.0 m (-6.6 ft)	kg lb			1450 3200	1110 2450	830 1830	670 1480										630 1390	520 1150	2.37 (7.8)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R25Z-9AK	Cabin	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1350	117	250	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

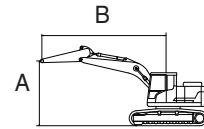


Lift-point height (A)		Lift-point radius (B)														At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		4.0 m (13.1 ft)		Capacity	Reach	
																		m (ft)
3.5 m (11.5 ft)	kg lb															470 1040	390 860	2.94 (9.6)
3.0 m (9.8 ft)	kg lb															360 790	300 660	3.43 (11.3)
2.5 m (8.2 ft)	kg lb											350 770	290 640			300 660	250 550	3.76 (12.3)
2.0 m (6.6 ft)	kg lb								450 990	370 820	340 750	280 620				270 600	220 490	3.97 (13.0)
1.5 m (4.9 ft)	kg lb						600 1320	500 1100	440 970	360 790	330 730	270 600	260 570	210 460		250 550	200 440	4.09 (13.4)
1.0 m (3.3 ft)	kg lb				830 1830	670 1480	570 1260	470 1040	420 930	340 750	320 710	260 570	250 550	210 460		240 530	190 420	4.13 (13.6)
0.5 m (1.6 ft)	kg lb				780 1720	620 1370	540 1190	440 970	400 880	330 730	310 680	250 550	250 550	200 440		240 530	190 420	4.09 (13.4)
Ground Line	kg lb	*700 *1540	*700 *1540	*930 *2050	*930 *2050	760 1680	600 1320	530 1170	420 930	390 860	320 710	310 680	250 550			250 550	200 440	3.98 (13.0)
-0.5 m (-1.6 ft)	kg lb	*1030 *2270	*1030 *2270	*1310 *2890	1000 2200	760 1680	600 1320	520 1150	420 930	390 860	310 680	300 660	240 530			270 600	220 490	3.77 (12.4)
-1.0 m (-3.3 ft)	kg lb	*1410 *3110	*1410 *3110	1340 2950	1010 2230	760 1680	600 1320	520 1150	420 930	380 840	310 680					310 680	250 550	3.44 (11.3)
-1.5 m (-4.9 ft)	kg lb	*1850 *4080	*1850 *4080	1360 3000	1030 2270	770 1700	610 1340	520 1150	420 930							400 880	330 730	2.96 (9.7)
-2.0 m (-6.6 ft)	kg lb			1400 3090	1070 2360	790 1740	630 1390									720 1590	570 1260	2.12 (7.0)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R25Z-9AK	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1350	247	250	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

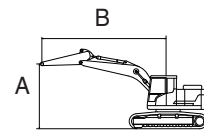


Lift-point height (A)		Lift-point radius (B)														At max. reach			
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		4.0 m (13.1 ft)		Capacity		Reach	
																		m (ft)	
3.0 m (9.8 ft)	kg lb									*600 *1320	500 1100						*640 *1410	460 1010	3.17 (10.4)
2.5 m (8.2 ft)	kg lb									*570 *1260	510 1120	*640 *1410	390 860				*590 *1300	380 840	3.56 (11.7)
2.0 m (6.6 ft)	kg lb									*620 *1370	500 1100	*640 *1410	390 860				*580 *1280	340 750	3.82 (12.5)
1.5 m (4.9 ft)	kg lb							*770 *1700	650 1430	*720 *1590	490 1080	*680 *1500	380 840				*580 *1280	310 680	3.98 (13.1)
1.0 m (3.3 ft)	kg lb					*1470 *3240	880 1940	*1030 *2270	620 1370	*850 *1870	470 1040	*750 *1650	380 840	*700 *1540	310 680		*600 *1320	300 660	4.05 (13.3)
0.5 m (1.6 ft)	kg lb					*1720 *3790	840 1850	*1270 *2800	600 1320	*980 *2160	460 1010	*820 *1810	370 820	*730 *1610	300 660		*640 *1410	300 660	4.05 (13.3)
Ground Line	kg lb					*1580 *3480	810 1790	*1420 *3130	580 1280	*1070 *2360	450 990	*880 *1940	360 790				*700 *1540	300 660	3.96 (13.0)
-0.5 m (-1.6 ft)	kg lb	*900 *1980	*900 *1980	*1120 *2470	*1120 *2470	*1970 *4340	810 1790	*1470 *3240	580 1280	*1110 *2450	440 970	*890 *1960	360 790				*780 *1720	320 710	3.78 (12.4)
-1.0 m (-3.3 ft)	kg lb	*1330 *2930	*1330 *2930	*1660 *3660	1350 2980	*2000 *4410	810 1790	*1420 *3130	570 1260	*1070 *2360	440 970	*810 *1790	360 790				*820 *1810	360 790	3.50 (11.5)
-1.5 m (-4.9 ft)	kg lb	*1860 *4100	*1860 *4100	*2410 *5310	1360 3000	*1720 *3790	820 1810	*1230 *2710	580 1280	*900 *1980	450 990						*850 *1870	430 950	3.07 (10.1)
-2.0 m (-6.6 ft)	kg lb			*1780 *3920	1390 3060	*1170 *2580	840 1850										*860 *1900	650 1430	2.37 (7.8)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R25Z-9AK	Cabin	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1350	247	250	-	Down	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

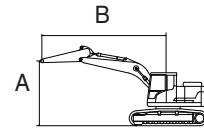


Lift-point height (A)		Lift-point radius (B)														At max. reach			
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		4.0 m (13.1 ft)		Capacity		Reach	
																		m (ft)	
3.5 m (11.5 ft)	kg lb																*530 *1170	490 1080	2.94 (9.6)
3.0 m (9.8 ft)	kg lb																*500 *1100	370 820	3.43 (11.3)
2.5 m (8.2 ft)	kg lb											*530 *1170	360 790				*480 *1060	310 680	3.76 (12.3)
2.0 m (6.6 ft)	kg lb									*550 *1210	460 1010	*560 *1230	350 770				*480 *1060	280 620	3.97 (13.0)
1.5 m (4.9 ft)	kg lb							*730 *1610	610 1340	*670 *1480	450 990	*630 *1390	350 770	*610 *1340	270 600		*490 *1080	260 570	4.09 (13.4)
1.0 m (3.3 ft)	kg lb					*1470 *3240	830 1830	*1010 *2230	580 1280	*810 *1790	430 950	*700 *1540	340 750	*640 *1410	270 600		*520 *1150	250 550	4.13 (13.6)
0.5 m (1.6 ft)	kg lb					*1910 *4210	790 1740	*1240 *2730	560 1230	*940 *2070	420 930	*780 *1720	330 730	*680 *1500	260 570		*570 *1260	250 550	4.09 (13.4)
Ground Line	kg lb	*700 *1540	*700 *1540	*930 *2050	*930 *2050	*1880 *4140	770 1700	*1380 *3040	540 1190	*1030 *2270	410 900	*830 *1830	320 710				*650 *1430	260 570	3.98 (13.0)
-0.5 m (-1.6 ft)	kg lb	*1030 *2270	*1030 *2270	*1310 *2890	1280 2820	*2080 *4590	760 1680	*1420 *3130	530 1170	*1060 *2340	400 880	*840 *1850	320 710				*740 *1630	280 620	3.77 (12.4)
-1.0 m (-3.3 ft)	kg lb	*1410 *3110	*1410 *3110	*1790 *3950	1290 2840	*1940 *4280	760 1680	*1360 *3000	530 1170	*1020 *2250	400 880						*790 *1740	330 730	3.44 (11.3)
-1.5 m (-4.9 ft)	kg lb	*1850 *4080	*1850 *4080	*2430 *5360	1310 2890	*1640 *3620	770 1700	*1160 *2560	540 1190								*860 *1900	420 930	2.96 (9.7)
-2.0 m (-6.6 ft)	kg lb			*1640 *3620	1350 2980	*1050 *2310	800 1760										*950 *2090	720 1590	2.12 (7.0)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R25Z-9AK	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1350	247	250	-	Up	-	-	-

·  : Rating over-front

·  : Rating over-side or 360 degree

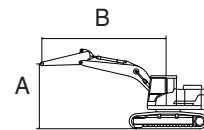


Lift-point height (A)		Lift-point radius (B)														At max. reach		
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		4.0 m (13.1 ft)		Capacity		Reach
																		m (ft)
3.0 m (9.8 ft)	kg lb									560 1230	470 1040					510 1120	430 950	3.17 (10.4)
2.5 m (8.2 ft)	kg lb									560 1230	480 1060	430 950	370 820			420 930	360 790	3.56 (11.7)
2.0 m (6.6 ft)	kg lb									550 1210	470 1040	430 950	370 820			370 820	320 710	3.82 (12.5)
1.5 m (4.9 ft)	kg lb							730 1610	610 1340	540 1190	460 1010	420 930	360 790			340 750	290 640	3.98 (13.1)
1.0 m (3.3 ft)	kg lb					1000 2200	820 1810	700 1540	590 1300	530 1170	440 970	420 930	350 770	340 750	290 640	330 730	280 620	4.05 (13.3)
0.5 m (1.6 ft)	kg lb					960 2120	780 1720	670 1480	560 1230	510 1120	430 950	410 900	340 750	330 730	280 620	330 730	280 620	4.05 (13.3)
Ground Line	kg lb					930 2050	760 1680	660 1460	540 1190	500 1100	420 930	400 880	340 750			340 750	280 620	3.96 (13.0)
-0.5 m (-1.6 ft)	kg lb	*900 *1980	*900 *1980	*1120 *2470	*1120 *2470	930 2050	750 1650	650 1430	540 1190	490 1080	410 900	400 880	330 730			360 790	300 660	3.78 (12.4)
-1.0 m (-3.3 ft)	kg lb	*1330 *2930	*1330 *2930	1600 3530	1240 2730	930 2050	750 1650	650 1430	540 1190	490 1080	410 900	400 880	330 730			400 880	340 750	3.50 (11.5)
-1.5 m (-4.9 ft)	kg lb	*1860 *4100	*1860 *4100	1620 3570	1250 2760	940 2070	760 1680	650 1430	540 1190	500 1100	420 930					480 1060	410 900	3.07 (10.1)
-2.0 m (-6.6 ft)	kg lb			1650 3640	1280 2820	960 2120	780 1720									730 1610	600 1320	2.37 (7.8)

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R25Z-9AK	Cabin	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1945	1350	247	250	-	Up	-	-	-

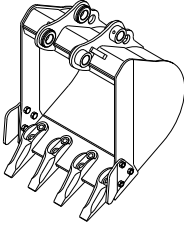
·  : Rating over-front

·  : Rating over-side or 360 degree



Lift-point height (A)		Lift-point radius (B)														At max. reach			
		1.0 m (3.3 ft)		1.5 m (4.9 ft)		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		3.5 m (11.5 ft)		4.0 m (13.1 ft)		Capacity		Reach	
																		m (ft)	
3.5 m (11.5 ft)	kg lb																*530 *1170	460 1010	2.94 (9.6)
3.0 m (9.8 ft)	kg lb																410 900	350 770	3.43 (11.3)
2.5 m (8.2 ft)	kg lb											400 880	340 750				350 770	290 640	3.76 (12.3)
2.0 m (6.6 ft)	kg lb									520 1150	440 970	400 880	330 730				310 680	260 570	3.97 (13.0)
1.5 m (4.9 ft)	kg lb							690 1520	570 1260	500 1100	420 930	390 860	320 710	310 680	250 550		290 640	240 530	4.09 (13.4)
1.0 m (3.3 ft)	kg lb					960 2120	780 1720	660 1460	540 1190	490 1080	400 880	380 840	310 680	300 660	250 550		280 620	230 510	4.13 (13.6)
0.5 m (1.6 ft)	kg lb					910 2010	730 1610	630 1390	520 1150	470 1040	390 860	370 820	300 660	300 660	240 530		280 620	230 510	4.09 (13.4)
Ground Line	kg lb	*700 *1540	*700 *1540	*930 *2050	*930 *2050	890 1960	710 1570	610 1340	500 1100	460 1010	380 840	360 790	300 660				290 640	240 530	3.98 (13.0)
-0.5 m (-1.6 ft)	kg lb	*1030 *2270	*1030 *2270	*1310 *2890	1170 2580	880 1940	700 1540	600 1320	490 1080	450 990	370 820	360 790	290 640				320 710	260 570	3.77 (12.4)
-1.0 m (-3.3 ft)	kg lb	*1410 *3110	*1410 *3110	1550 3420	1180 2600	880 1940	710 1570	600 1320	490 1080	450 990	370 820						370 820	300 660	3.44 (11.3)
-1.5 m (-4.9 ft)	kg lb	*1850 *4080	*1850 *4080	1570 3460	1200 2650	890 1960	720 1590	610 1340	500 1100								470 1040	390 860	2.96 (9.7)
-2.0 m (-6.6 ft)	kg lb			1610 3550	1230 2710	920 2030	740 1630										830 1830	670 1480	2.12 (7.0)

6. BUCKET SELECTION GUIDE

	
0.07 m ³ SAE heaped bucket	

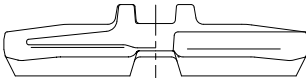
Capacity		Width		Weight	Recommendation
					1.945 m (6' 5") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.12 m (3' 8") arm
0.07m ³ (0.09 yd ³)	0.06 m ³ (0.07 yd ³)	435 mm (17.1")	490 mm (19.3")	57 kg (125 lb)	Applicable for materials with density of 1600 kgf/m ³ (2700 lb /yd ³) or less

7. UNDERCARRIAGE

(1) TRACKS

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

(2) TYPES OF SHOES

Model	Shapes		Rubber track	
				
			Cab	Canopy
R25Z-9AK	Shoe width	mm (in)	250 (10")	250 (10")
	Operating weight	kg (lb)	2580 (5690)	2430 (5360)
	Ground pressure	kgf/cm ² (psi)	0.32 (4.6)	0.30 (4.34)
	Overall width	mm (ft-in)	1500 (4' 11")	1500 (4' 11")

(3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1 EA
Track rollers	3 EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Kubota D1305
Type	4-cycle vertical overhead valve, diesel fuel
Cooling method	Water cooling
Number of cylinders and arrangement	3 cylinders, in-line
Firing order	1-2-3
Combustion chamber type	Swirl chamber type
Cylinder bore × stroke	78 × 88 mm (3.07" × 3.46")
Piston displacement	1261 cc (77.0 cu in)
Compression ratio	24 : 1
Rated gross horse power (SAE J1995)	24.9 Hp at 2400 rpm (18.5 kW at 2400 rpm)
Maximum torque at 1600 rpm	8.3 kgf · m (60.0 lbf · ft)
Engine oil quantity	5.7 ℓ (1.3 U.S. gal)
Dry weight	124 kg (273 lb)
High idling speed	2350 + 50 rpm
Low idling speed	1450 + 50 rpm
Rated fuel consumption	192 g/Hp · hr at 2400 rpm (257 g/kW · hr at 2400 rpm)
Starting motor	12V-1.4 kW
Alternator	12V-40 A
Battery	1 × 12 V × 58 Ah (5h rating)

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 12 cc/rev
Rated oil flow	2 × 27.6 ℓ /min (7.3 U.S. gpm / 6.1 U.K. gpm)
Rated speed	2300 rpm

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	8.5/4.5 cc/rev
Rated oil flow	19.6/10.4 ℓ /min (5.2/2.7 U.S. gpm / 4.3/2.3 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Sectional, 9 spools (12 blocks)
Operating method	Hydraulic pilot system
Main relief valve pressure : P1, P2 / P3	220 kgf/cm ² (3130 psi) / 175 kgf/cm ² (2490 psi)
Overload relief valve pressure	240 kgf/cm ² (3410 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	12.5 cc/rev
Relief pressure	170 kgf/cm ² (2420 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	7.0 kgf · m (50.6 lbf · ft)
Brake release pressure	25~50 kgf/cm ² (356~710 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	220 kgf/cm ² (3130 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	19 kgf/cm ² (270 psi)
Braking torque	5.7 kgf · m (41 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø75 × Ø45 × 565 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø70 × Ø45 × 500 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø60 × Ø35 × 420 mm
	Cushion	-
Boom swing cylinder	Bore dia × Rod dia × Stroke	Ø75 × Ø40 × 400 mm
	Cushion	-
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø85 × Ø45 × 140 mm
	Cushion	-

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

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

8) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
Standard	0.07 m ³ (0.09 yd ³)	0.06 m ³ (0.07 yd ³)	4	435 mm (17.1")	490 mm (19.3")

9. RECOMMENDED OILS

HYUNDAI 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 HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

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	5.7 (1.5)	★SAE 5W-40								
								SAE 30			
				SAE 10W							
				SAE 10W-30							
				SAE 15W-40							
Final drive	Gear oil	0.6×2 (0.16×2)	★SAE 75W-90								
					SAE 85W-140						
Hydraulic tank	Hydraulic oil	Tank; 27(7.1)	★ISO VG 15								
		System; 55 (14.5)			ISO VG 46, HBHO VG 46★ ³						
					ISO VG 68						
Fuel tank	Diesel fuel★ ¹	30 (7.9)	★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	5.0 (1.3)	Ethylene glycol base permanent type (50 : 50)								
			★Ethylene glycol base permanent type (60 : 40)								

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UTTO : Universal Tractor Transmission Oil

★ : Cold region

Russia, CIS, Mongolia

★¹ : Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

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City water or distilled water

★³ : Hyundai Bio Hydraulic Oil

- For more information, contact HYUNDAI dealers.

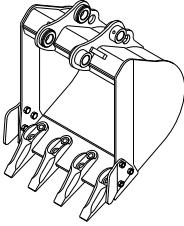
※ Using any lubricating oils other than HYUNDAI genuine products may lead to a deterioration of performance and cause damage to major components.

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6. BUCKET SELECTION GUIDE

					
0.07 m³ SAE heaped bucket					

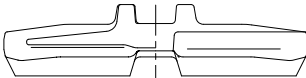
Capacity		Width		Weight	Recommendation
					1.945 m (6' 5") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.12 m (3' 8") arm
0.07m³ (0.09 yd³)	0.06 m³ (0.07 yd³)	435 mm (17.1")	490 mm (19.3")	57 kg (125 lb)	Applicable for materials with density of 1600 kgf/m³ (2700 lb /yd³) or less

7. UNDERCARRIAGE

(1) TRACKS

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

(2) TYPES OF SHOES

Model	Shapes		Rubber track	
				
			Cab	Canopy
R25Z-9AK	Shoe width	mm (in)	250 (10")	250 (10")
	Operating weight	kg (lb)	2580 (5690)	2430 (5360)
	Ground pressure	kgf/cm ² (psi)	0.32 (4.6)	0.30 (4.34)
	Overall width	mm (ft-in)	1500 (4' 11")	1500 (4' 11")

(3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1 EA
Track rollers	3 EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Kubota D1305
Type	4-cycle vertical overhead valve, diesel fuel
Cooling method	Water cooling
Number of cylinders and arrangement	3 cylinders, in-line
Firing order	1-2-3
Combustion chamber type	Swirl chamber type
Cylinder bore × stroke	78 × 88 mm (3.07" × 3.46")
Piston displacement	1261 cc (77.0 cu in)
Compression ratio	24 : 1
Rated gross horse power (SAE J1995)	24.9 Hp at 2400 rpm (18.5 kW at 2400 rpm)
Maximum torque at 1600 rpm	8.3 kgf · m (60.0 lbf · ft)
Engine oil quantity	5.7 ℓ (1.3 U.S. gal)
Dry weight	124 kg (273 lb)
High idling speed	2350 + 50 rpm
Low idling speed	1450 + 50 rpm
Rated fuel consumption	192 g/Hp · hr at 2400 rpm (257 g/kW · hr at 2400 rpm)
Starting motor	12V-1.4 kW
Alternator	12V-40 A
Battery	1 × 12 V × 58 Ah (5h rating)

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 12 cc/rev
Rated oil flow	2 × 27.6 ℓ /min (7.3 U.S. gpm / 6.1 U.K. gpm)
Rated speed	2300 rpm

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	8.5/4.5 cc/rev
Rated oil flow	19.6/10.4 ℓ /min (5.2/2.7 U.S. gpm / 4.3/2.3 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Sectional, 9 spools (12 blocks)
Operating method	Hydraulic pilot system
Main relief valve pressure : P1, P2 / P3	220 kgf/cm ² (3130 psi) / 175 kgf/cm ² (2490 psi)
Overload relief valve pressure	240 kgf/cm ² (3410 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	12.5 cc/rev
Relief pressure	170 kgf/cm ² (2420 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	7.0 kgf · m (50.6 lbf · ft)
Brake release pressure	25~50 kgf/cm ² (356~710 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	220 kgf/cm ² (3130 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	19 kgf/cm ² (270 psi)
Braking torque	5.7 kgf · m (41 lbf · ft)

7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø75 × Ø45 × 565 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø70 × Ø45 × 500 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø60 × Ø35 × 420 mm
	Cushion	-
Boom swing cylinder	Bore dia × Rod dia × Stroke	Ø75 × Ø40 × 400 mm
	Cushion	-
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø85 × Ø45 × 140 mm
	Cushion	-

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

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

8) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
Standard	0.07 m ³ (0.09 yd ³)	0.06 m ³ (0.07 yd ³)	4	435 mm (17.1")	490 mm (19.3")

9. RECOMMENDED OILS

HYUNDAI 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 HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

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	5.7 (1.5)	★SAE 5W-40								
								SAE 30			
				SAE 10W							
				SAE 10W-30							
				SAE 15W-40							
Final drive	Gear oil	0.6×2 (0.16×2)	★SAE 75W-90								
					SAE 85W-140						
Hydraulic tank	Hydraulic oil	Tank; 27(7.1)	★ISO VG 15								
		System; 55 (14.5)			ISO VG 46, HBHO VG 46★ ³						
					ISO VG 68						
Fuel tank	Diesel fuel★ ¹	30 (7.9)	★ASTM D975 NO.1								
						ASTM D975 NO.2					
Fitting (grease nipple)	Grease	As required	★NLGI NO.1								
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