SECTION 1 GENERAL

Group	1	Safety Hints	1-1
Group	2	Specifications	1-10

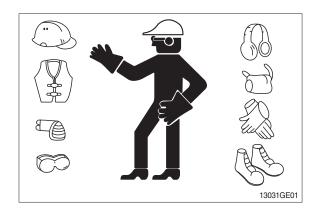
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

WEAR PROTECTIVE CLOTHING

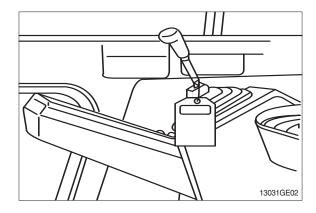
Wear close fitting clothing and safety equipment appropriate to the job.



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.



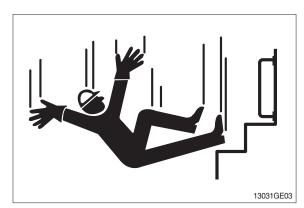
USE HANDHOLDS AND STEPS

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.

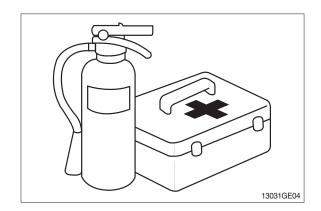


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

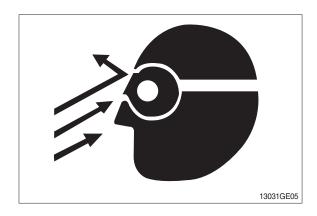
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

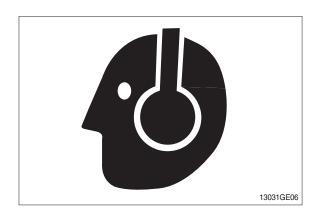
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

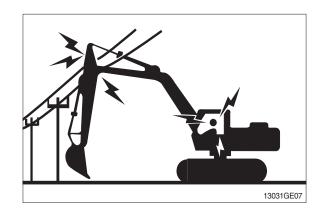
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

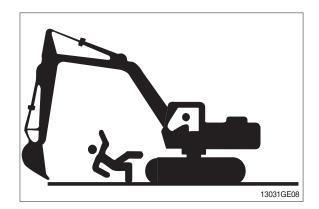
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

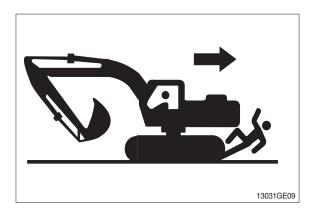


MOVE AND OPERATE MACHINE SAFELY

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 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.



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.

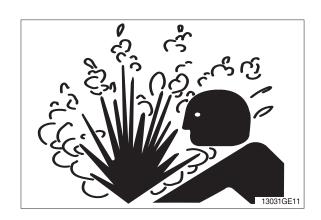
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

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

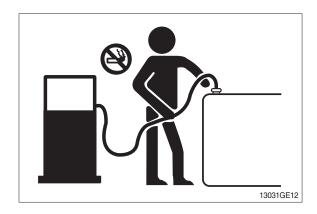
Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



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.

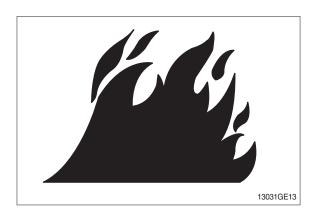
Fill fuel tank outdoors.



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:

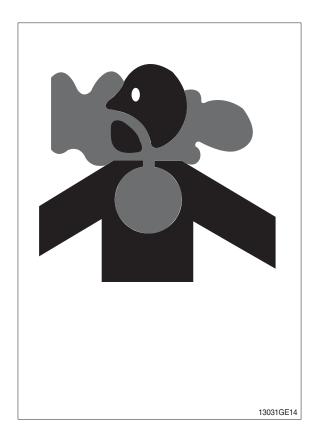
 If you sand or grind paint, avoid breathing the dust.

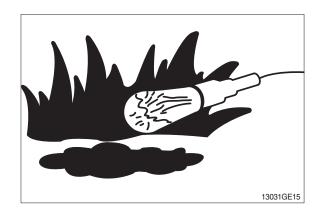
Wear an approved respirator.

 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.

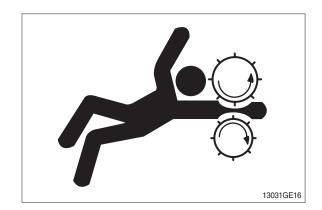




SERVICE MACHINE SAFELY

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.

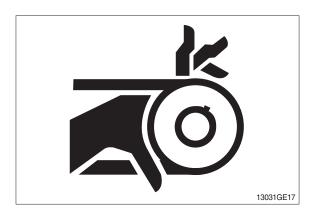
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



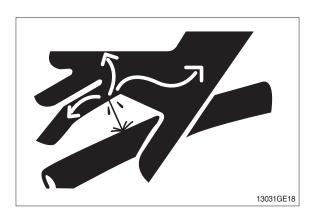
AVOID HIGH PRESSURE FLUIDS

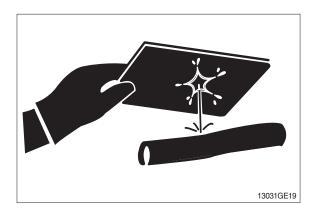
Escaping fluid under pressure can penetrate the skin causing serious injury.

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.

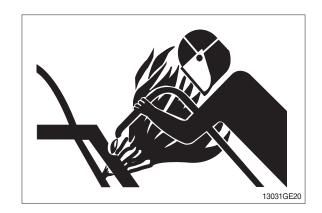




AVOID HEATING NEAR PRESSURIZED FLUID LINES

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:

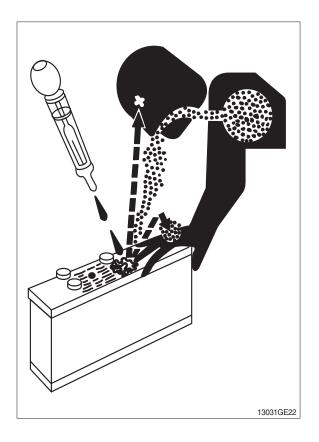
- 1. Filling batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling of dripping electrolyte.
- 5. Use proper jump start procedure.

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.



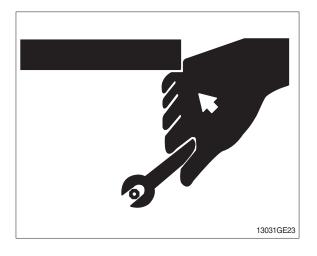
USE TOOLS PROPERLY

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.)

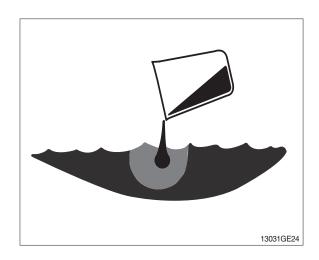


DISPOSE OF FLUIDS PROPERLY

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.

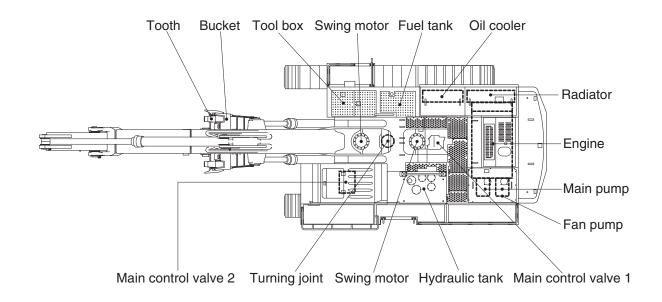


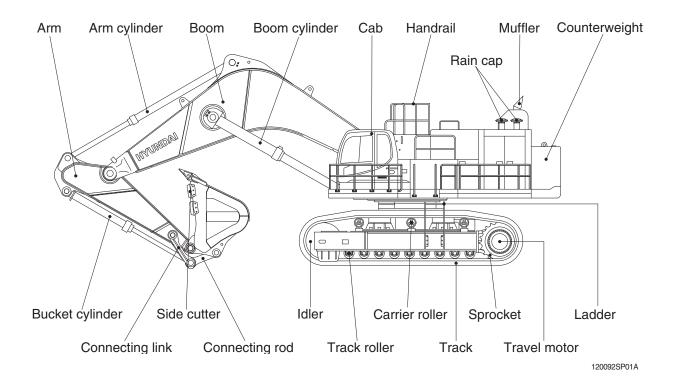
LIVE WITH SAFETY

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

GROUP 2 SPECIFICATIONS

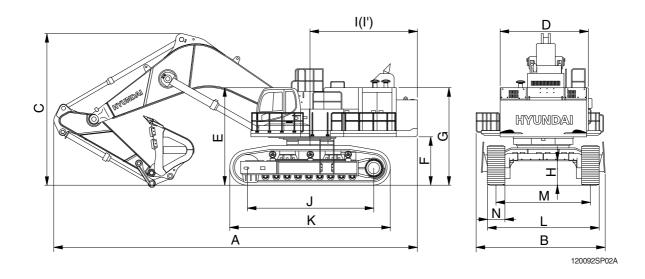
1. MAJOR COMPONENT





2. SPECIFICATIONS

 \cdot 7.55 m (24' 9") BOOM, 3.40 m (11' 2") ARM

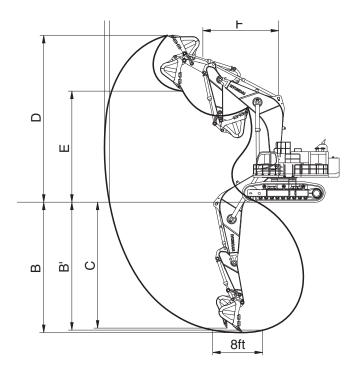


Description		Unit	Specification
Operating weight		kg (lb)	118000 (260140) <118860 (262036)>
Bucket capacity (SAE heaped), standard		m³ (yd³)	6.70 (8.76)
Overall length	Α		14580 (47' 10")
Overall width, with 700 mm shoe	В		5560 (18' 3")
Overall height	С		6210 (20' 4")
Superstructure width	D		3520 (11' 7")
Overall height of cab	Е		4250 (13' 11") <5450 (17' 11")>
Ground clearance of counterweight	F		1825 (6' 0")
Body height	G	mm (ft-in)	4460 (14' 8")
Minimum ground clearance	Н		990 (3' 3")
Rear-end distance	I		4805 (15' 9")
Rear-end swing radius	l'		4870 (16' 0")
Distance between tumblers	J		5010 (16' 5")
Undercarriage length	K		6400 (21' 0")
Undercarriage width	L		4600 (15' 1")
Track gauge	М		3900 (12' 10")
Track shoe width, standard	Track shoe width, standard N		700 (28")
Travel speed (low/high)		km/hr (mph)	2.3/3.2 (1.4/2.0)
Swing speed		rpm	5.6
Gradeability		Degree (%)	35 (70)
Ground pressure (700 mm shoe)		kgf/cm²(psi)	1.51 (21.47)
Max traction force		kg (lb)	70200 (154760)

< >: Cabin riser

3. WORKING RANGE

· 7.55 m (24' 9") BOOM



120092SP03A

Description		3.40 m (11' 2") Arm			
Max digging reach		13760 mm (45' 2")			
Max digging reach on ground		13380 mm (43'11")			
Max digging depth	В	8010 mm (26' 3")			
Max digging depth (8ft level)	B'	7840 mm (25' 9")			
Max vertical wall digging depth	С	5230 mm (17' 2")			
Max digging height	D	12420 mm (40' 9")			
Max dumping height	Е	7840 mm (25' 9")			
Min swing radius	F	6550 mm (21' 6")			
		511.9[558.5] kN			
	SAE	52200[56950] kgf			
Rucket diaging force		115080[125550] lbf			
Bucket digging force		581.5[636.0] kN			
	ISO	59300[64690] kgf			
		130730[142610] lbf			
		423.7[462.2] kN			
	SAE	43200[47130] kgf			
Arm crowd force		95240[103900] lbf			
Ann crowd lorce		429.5[468.6] kN			
	ISO	43800[47780] kgf			
		96560[105340] lbf			

[]: Power boost

4. WEIGHT

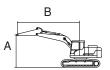
II	R1250-9			
Item	kg	lb		
Upperstructure assembly	43700	96340		
Main frame weld assembly	11960	26370		
Engine assembly	2720	6000		
Main pump assembly	160	350		
Fan pump	55	120		
Gear box	580	1280		
Main control valve assembly 1	450	990		
Main control valve assembly 2	160	350		
Swing motor assembly	440	970		
Hydraulic oil tank assembly	1770	3900		
Fuel tank assembly	1940	4280		
Counterweight	20400	44970		
Cab assembly	435	960		
Cab riser assy	860	1896		
Lower chassis assembly	45940	101280		
Lower track center frame	17700	39020		
Swing bearing	2170	4780		
Travel motor assembly	970	2140		
Turning joint	75	165		
Track recoil spring and tension body	1030	2270		
Idler	850	1870		
Sprocket	315	700		
Carrier roller	70	150		
Track roller	210	460		
Track-chain assembly (700 mm double grouser shoe)	5070	11180		
Front attachment assembly (7.55 m boom, 3.40m arm,	28360	62520		
6.70 m³ SAE heaped bucket)	20300	02320		
7.55 m boom assembly	10310	22730		
3.40 m arm assembly	4010	8840		
6.70 m ³ SAE heaped bucket	5860	12920		
Boom cylinder assembly	1190	2620		
Arm cylinder assembly	1510	3330		
Bucket cylinder assembly	1050	2310		
Bucket control rod assembly	1450	3200		

5. LIFTING CAPACITIES

Model	Туре	Boom	Arm	Counterweight	Shoe	Wheel	Do	zer	Outt	riger
R1250-9 MONO BOOM	MONO	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
	7550	3400	20400	700	-	-	-	-	-	

Rating over-front

· 🖶 : Rating over-side or 360 degree



			Lift-point radius (B)									At max. reach		ach		
Lift-point		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		9.0 m (9.0 m (29.5 ft) 10.5 m (3 ⁴		(34.4 ft)	34.4 ft) Capacity		Reach
height	(A)	ŀ		ŀ	#	r r	#	H	#	ŀ	#	ŀ	#	ŀ	#	m (ft)
9.0 m	kg									*19580	*19580			*14850	*14850	9.27
(29.5 ft)	lb									*43170	*43170			*32740	*32740	(30.4)
7.5 m	kg									*25900	*25900			*14460	*14460	10.10
(24.6 ft)	lb									*57100	*57100			*31880	*31880	(33.1)
6.0 m	kg							*31100	*31100	*26900	*26900	*17990	*17990	*14490	*14490	10.64
(19.7 ft)	lb							*68560	*68560	*59300	*59300	*39660	*39660	*31940	*31940	(34.9)
4.5 m	kg					*42940	*42940	*33570	*33570	*28140	27500	*24560	21560	*14900	*14900	10.95
(14.8 ft)	lb					*94670	*94670	*74010	*74010	*62040	60630	*54150	47530	*32850	*32850	(35.9)
3.0 m	kg							*35510	34730	*29150	26530	*24820	21030	*15720	*15720	11.03
(9.8 ft)	lb							*78290	76570	*64260	58490	*54720	46360	*34660	*34660	(36.2)
1.5 m	kg					*46700	*46700	*36270	33510	*29500	25740	*24570	20580	*17040	*17040	10.90
(4.9 ft)	lb					*102960	*102960	*79960	73880	*65040	56750	*54170	45370	*37570	*37570	(35.8)
0.0 m	kg					*44880	*44880	*35540	32800	*28800	25240	*21090	20350	*19150	*19150	10.55
(0.0 ft)	lb					*98940	*98940	*78350	72310	*63490	55640	*46500	44860	*42220	*42220	(34.6)
-1.5 m	kg			*50120	*50120	*41080	*41080	*33070	32570	*26540	25090			*22370	21940	9.94
(-4.9 ft)	lb			*110500	*110500	*90570	*90570	*72910	71800	*58510	55310			*49320	48370	(32.6)
-3.0 m	kg	*45200	*45200	*41780	*41780	*35030	*35030	*28320	*28320	*21290	*21290			*21030	*21030	9.04
(-9.8 ft)	lb	*99650	*99650	*92110	*92110	*77230	*77230	*62430	*62430	*46940	*46940			*46360	*46360	(29.7)
-4.5 m	kg			*29670	*29670	*25510	*25510	*19220	*19220					*17860	*17860	7.73
(-14.8 ft)	lb			*65410	*65410	*56240	*56240	*42370	*42370					*39370	*39370	(25.4)

Note 1. Lifting capacity are based on ISO 10567.

- 2. Lifting capacity of the ROBEX 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.

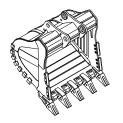
The difference between the weight of a work tool attachment must be subtracted.

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





Heavy duty

Rock heavy duty

	Сар	acity	Width		MONO Recommendation	
Туре	SAE CECE Heaped heaped		Without side cutter	Weight	Tooth	7.55 m (24' 9") Boom
	m ³ (yd ³)	m³ (yd³)	mm (in)	kg (lb)	EA	3.40 m (11' 2') Arm
	6.70 (8.76)	5.90 (7.72)	2535 (99.8")	7385 (16280)	6	•
Heavy duty	7.00 (9.16)	6.15 (8.04)	2535 (99.8")	7565 (16680)	6	•
	8.57 (11.21)	7.68 (10.05)	2535 (99.8")	7295 (16080)	6	•
Rock heavy duty	6.00 (7.85)	5.30 (6.93)	2420 (95.3")	6605 (14560)	5	•

	Applicable for materials with density of 2100 kg/m³ (3500	lb/yd³) or less
	Applicable for materials with density of 1800 kg/m³ (3000	lb/yd³) or less
	Applicable for materials with density of 1500 kg/m³ (2500	lb/yd³) or less
	Applicable for materials with density of 1200 kg/m³ (2000	lb/yd³) 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.

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

			Double grouser				
Model	Shapes						
	Shoe width	mm (in)	700 (28)	800 (32)	900 (36)		
D1050.0	Operating weight	kg (lb)	118000 (260140)	118670 (261620)	119470 (263380)		
R1250-9	Ground pressure	kgf/cm² (psi)	1.51 (21.47)	1.34 (19.05)	1.20 (17.06)		
	Under carriage width	mm (ft-in)	4600 (15' 1")	4700 (15' 5")	4800 (15' 9")		

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	3 EA
Track rollers	8 EA
Track shoes	52 EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

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

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

* Table 1

Track shoe	Specification	Category
700 mm double grouser	Standard	A
800 mm double grouser	Option	В
900 mm double grouser	Option	С

* Table 2

Category	Applications	Applications
А	Rocky ground, river beds, normal soil	Travel at low speed on rough ground with large obstacles such as boulders or fallen trees
В	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
С	Extremely soft gound (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		
Model	Cummins QSK 23		
Туре	4-cycle turbocharged charge air cooled diesel engine		
Cooling method	Water cooling		
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	170 × 170 mm (6.7" × 6.7")		
Piston displacement	23000 cc (1404 cu in)		
Compression ratio	16:1		
Rated gross horse power(SAE J1995)	760 hp at 1800 rpm (567 kW at 1800 rpm)		
Maximum torque	354 kgf ⋅ m (2560 lbf ⋅ ft) at 1350 rpm		
Engine oil quantity	70 l (18.5 U.S. gal)		
Dry weight	2070 kg (6000 lb)		
High idling speed	$1800\pm50~\text{rpm}$		
Low idling speed	$900\pm50~\text{rpm}$		
Rated fuel consumption	153.6 g/Hp · hr at 1800 rpm		
Starting motor	Nikko (24 V-7.5 kW×2EA)		
Alternator	Sawafuji 24 V-75 A		
Battery	4×12 V×160 Ah		

2) GEAR BOX

Item Specification		
Model	Stiebel 4325	
Ratio	1.05452 (speed increae)	

3) MAIN PUMP

Item	Specification		
Туре	Variable displacement axis piston pumps		
Capacity	3×280 cc/rev		
Maximum pressure	320 kgf/cm² (4550 psi) [350 kgf/cm² (4980 psi)]		
Rated oil flow	3×490 / /min (129.4 U.S. gpm / 107.8 U.K. gpm)		
Rated speed	1800 rpm		

[]: Power boost

4) FAN PUMP

Item	Specification	
Туре	Variable displacement axis piston pumps	
Capacity	65 cc/rev	
Maximum pressure	270 kgf/cm² (3840 psi)	
Rated speed	1800 rpm	

5) GEAR PUMP

Item	Specification	
Туре	Fixed displacement gear pump single stage	
Capacity	30 cc/rev	
Maximum pressure	40 kgf/cm² (570 psi)	
Rated oil flow	54 ½ /min (14.3 U.S. gpm/11.9 U.K. gpm)	

6) MAIN CONTROL VALVE

Item	Specification	
Туре	13 spools	
Operating method	Hydraulic pilot system	
Main relief valve pressure	320 kgf/cm² (4550 psi) [350 kgf/cm² (4980 psi)]	
Overload relief valve pressure	360 kgf/cm² (5120 psi)	

[]: Power boost

7) SWING MOTOR

Item	Specification	
Туре	Fixed displacement axial piston motor	
Capacity	250 cc/rev	
Relief pressure	300 kgf/cm² (4270 psi)	
Braking system	Automatic, spring applied hydraulic released	
Braking torque	107 kgf · m (774 lbf · ft)	
Brake release pressure	30~50 kgf/cm² (427~711 psi)	
Reduction gear type	2 - stage planetary	

8) REMOTE CONTROL VALVE

Item		Specification	
Туре		Pressure reducing type	
Minimum		6.5 kgf/cm² (92 psi)	
Operating pressure	Maximum	25 kgf/cm² (360 psi)	
Cincile an evetion atvolve	Lever	61 mm (2.4 in)	
Single operation stroke Pedal		123 mm (4.84 in)	

9) TRAVEL MOTOR

Item	Specification	
Туре	Variable displacement axial piston motor	
Relief pressure	350 kgf/cm² (4980 psi)	
Capacity (max / min)	337.2/228.6 cc/rev	
Reduction gear type	3-stage planetary	
Braking system	Automatic, spring applied hydraulic released	
Brake release pressure	18 kgf/cm² (256 psi)	
Braking torque	114 kgf · m (825 lbf · ft)	

10) CYLINDER

It	Specification		
Doom adjudor	Bore dia \times Rod dia \times Stroke	Ø 230 × Ø 160 × 2165 mm	
Boom cylinder	Cushion	Extend only	
A year and in all a y	Bore dia \times Rod dia \times Stroke	Ø 260 × Ø 180 × 2180 mm	
Arm cylinder	Cushion	Extend and retract	
Diselect endimedes	Bore dia \times Rod dia \times Stroke	Ø 240 × Ø 170 × 1792 mm	
Bucket cylinder	Cushion	Extend only	

^{*} Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

11) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
	Standard	* 700 mm (28")	1.51 kgf/cm² (21.47 psi)	52	4600 mm (15' 1")
R1250-9	Ontion	* 800 mm (32")	1.34 kgf/cm² (19.05 psi)	52	4700 mm (15' 5")
Option	* 900 mm (36")	1.20 kgf/cm² (17.06 psi)	52	4800 mm (15' 9")	

^{*} Double grouser

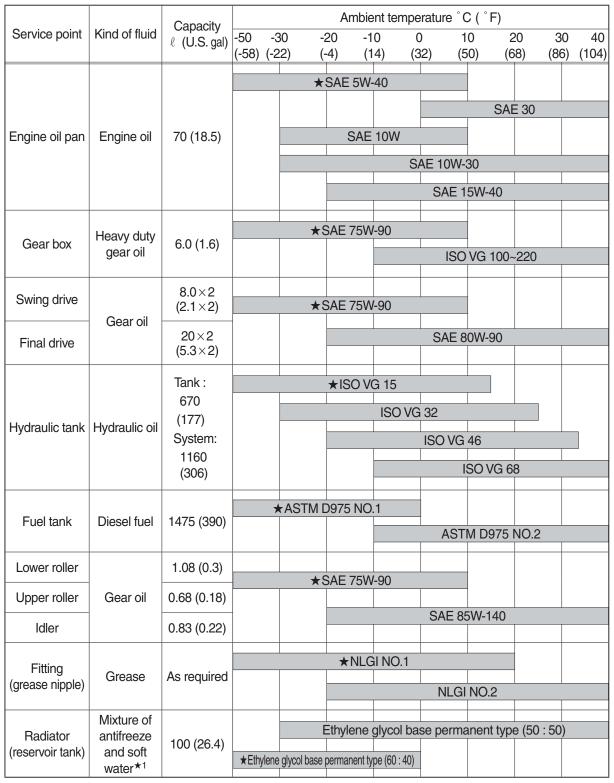
12) BUCKET

Capacity		Tooth	Width			
Item SAE heaped		SAE heaped	CECE heaped	quantity	Without side cutter	With side cutter
R1250-9	Standard	6.70 m ² (8.76 yd ³)	5.88 m² (7.69 yd³)	5	2390 mm (94.1")	-

^{*} Discoloration does not cause any harmful effect on the cylinder performance.

9. RECOMMENDED OILS

Use only oils listed below. Do not mix different brand oil. Please use HYUNDAI genuine oil and grease.



SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI: National Lubricating Grease Institute
ASTM: American Society of Testing and Material

★ : Cold region

Russia, CIS, Mongolia