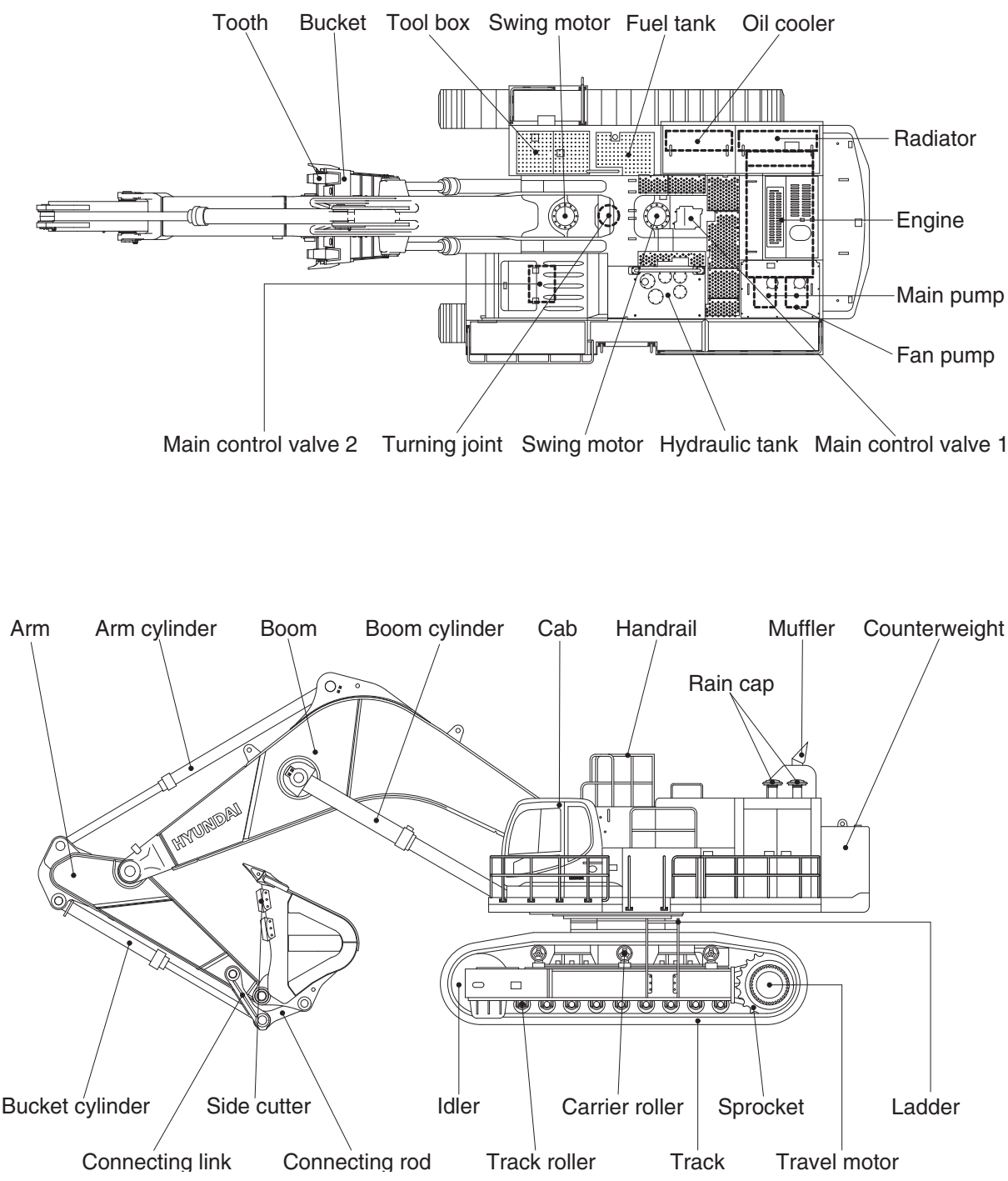


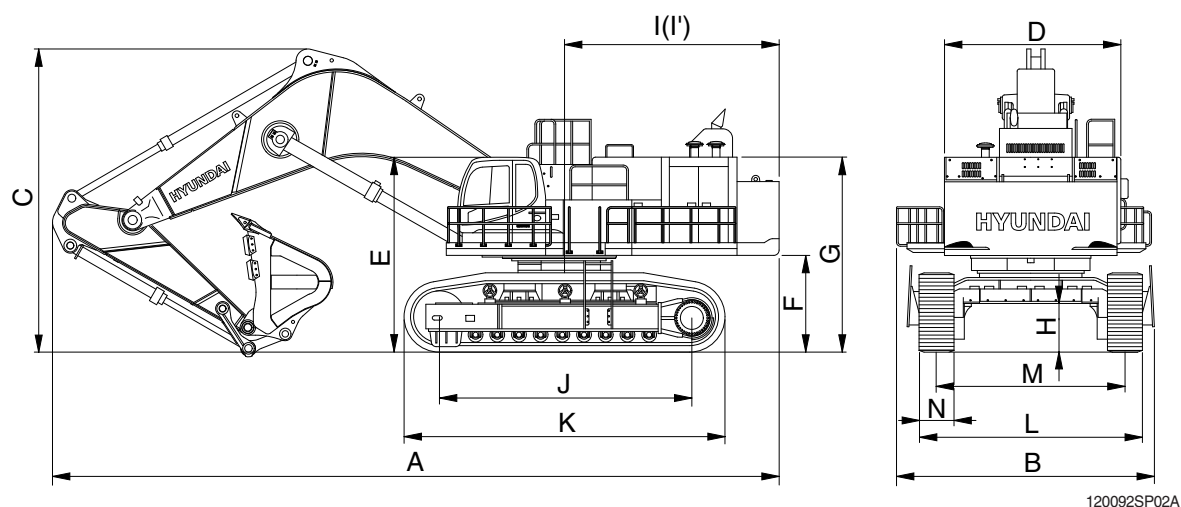
SPECIFICATIONS

1. MAJOR COMPONENT



120092SP01A

2. SPECIFICATIONS



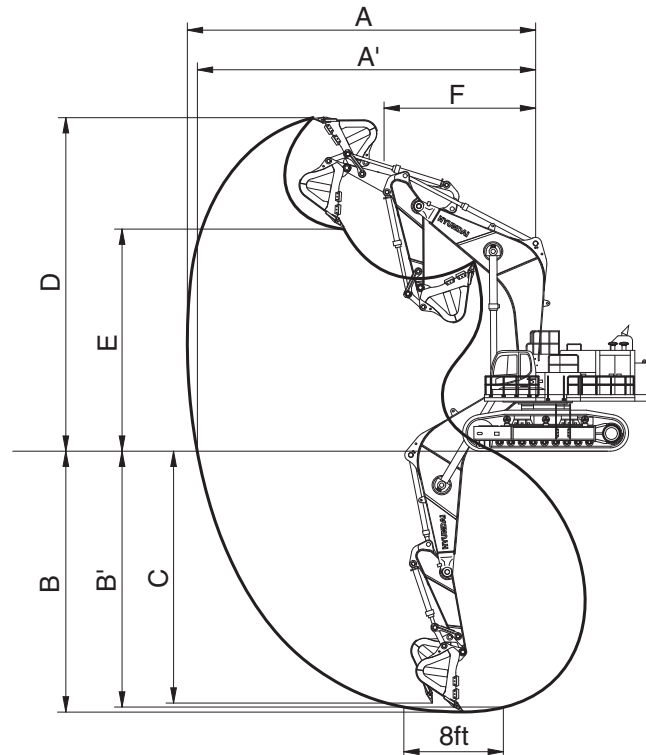
120092SP02A

Description		Unit	Specification
Operating weight		kg (lb)	118000 (260140) <118860 (262036)>
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	6.70 (8.76)
Overall length	A	mm (ft-in)	14580 (47' 10")
Overall width, with 700 mm shoe	B		5560 (18' 3")
Overall height	C		6210 (20' 4")
Superstructure width	D		3520 (11' 7")
Overall height of cab	E		4250 (13' 11") <5450 (17' 11")>
Ground clearance of counterweight	F		1825 (6' 0")
Body height	G		4460 (14' 8")
Minimum ground clearance	H		990 (3' 3")
Rear-end distance	I		4805 (15' 9")
Rear-end swing radius	I'		4870 (16' 0")
Distance between tumblers	J		5010 (16' 5")
Undercarriage length	K		6400 (21' 0")
Undercarriage width	L		4600 (15' 1")
Track gauge	M		3900 (12' 10")
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/cm ² (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	A	13760 mm (45' 2")
Max digging reach on ground	A'	13380 mm (43' 11")
Max digging depth	B	8010 mm (26' 3")
Max digging depth (8ft level)	B'	7840 mm (25' 9")
Max vertical wall digging depth	C	5230 mm (17' 2")
Max digging height	D	12420 mm (40' 9")
Max dumping height	E	7840 mm (25' 9")
Min swing radius	F	6550 mm (21' 6")
Bucket digging force	SAE	511.9[558.5] kN
		52200[56950] kgf
		115080[125550] lbf
	ISO	581.5[636.0] kN
		59300[64690] kgf
		130730[142610] lbf
Arm crowd force	SAE	423.7[462.2] kN
		43200[47130] kgf
		95240[103900] lbf
	ISO	429.5[468.6] kN
		43800[47780] kgf
		96560[105340] lbf

[] : Power boost

4. WEIGHT

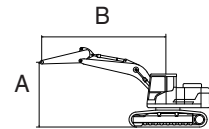
Item	R1250-9	
	kg	lb
Upperstructure assembly	43700	96340
Main frame weld assembly	11960	26370
Engine assembly	2720	6000
Main pump assembly	160	350
Fan pump	55	120
Gear box	580	1280
Main control valve assembly 1	450	990
Main control valve assembly 2	160	350
Swing motor assembly	440	970
Hydraulic oil tank 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, 6.70 m³ SAE heaped bucket)	28360	62520
7.55 m boom assembly	10310	22730
3.40 m arm assembly	4010	8840
6.70 m³ 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	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
R1250-9	MONO BOOM	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 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)
9.0 m (29.5 ft)	kg lb									*19580 *43170	*19580 *43170			*14850 *32740	*14850 *32740	9.27 (30.4)
7.5 m (24.6 ft)	kg lb									*25900 *57100	*25900 *57100			*14460 *31880	*14460 *31880	10.10 (33.1)
6.0 m (19.7 ft)	kg lb							*31100 *68560	*31100 *68560	*26900 *59300	*26900 *59300	*17990 *39660	*17990 *39660	*14490 *31940	*14490 *31940	10.64 (34.9)
4.5 m (14.8 ft)	kg lb					*42940 *94670	*42940 *94670	*33570 *74010	*33570 *74010	*28140 *62040	*27500 60630	*24560 *54150	*21560 47530	*14900 *32850	*14900 *32850	10.95 (35.9)
3.0 m (9.8 ft)	kg lb							*35510 *78290	34730 76570	*29150 *64260	26530 58490	*24820 *54720	21030 46360	*15720 *34660	*15720 *34660	11.03 (36.2)
1.5 m (4.9 ft)	kg lb					*46700 *102960	*46700 *102960	*36270 *79960	33510 73880	*29500 *65040	25740 56750	*24570 *54170	20580 45370	*17040 *37570	*17040 *37570	10.90 (35.8)
0.0 m (0.0 ft)	kg lb					*44880 *98940	*44880 *98940	*35540 *78350	32800 72310	*28800 *63490	25240 55640	*21090 *46500	20350 44860	*19150 *42220	*19150 *42220	10.55 (34.6)
-1.5 m (-4.9 ft)	kg lb			*50120 *110500	*50120 *110500	*41080 *90570	*41080 *90570	*33070 *72910	32570 71800	*26540 *58510	25090 55310			*22370 *49320	21940 48370	9.94 (32.6)
-3.0 m (-9.8 ft)	kg lb	*45200 *99650	*45200 *99650	*41780 *92110	*41780 *92110	*35030 *77230	*35030 *77230	*28320 *62430	*28320 *62430	*21290 *46940	*21290 *46940			*21030 *46360	*21030 *46360	9.04 (29.7)
-4.5 m (-14.8 ft)	kg lb			*29670 *65410	*29670 *65410	*25510 *56240	*25510 *56240	*19220 *42370	*19220 *42370					*17860 *39370	*17860 *39370	7.73 (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.

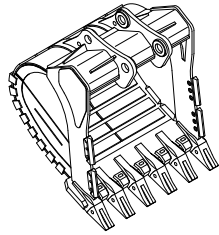
The difference between the weight of a work tool attachment must be subtracted.

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

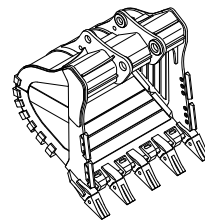
▲ Failure to comply to the rated load can cause serious injury, death, or property damage.

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





6. BUCKET SELECTION GUIDE



Heavy duty



Rock heavy duty

Type	Capacity		Width	Weight	Tooth	MONO
						Recommendation
	SAE Heaped	CECE heaped	Without side cutter			7.55 m (24' 9") Boom
				m³ (yd³)	m³ (yd³)	mm (in)
Heavy duty	6.70 (8.76)	5.90 (7.72)	2535 (99.8")	7385 (16280)	6	
	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/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.

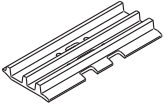
Consult with your local HD Hyundai Construction Equipment dealer for information on selecting the correct boom—arm—bucket combination.

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		Double grouser		
					
R1250-9	Shoe width	mm (in)	700 (28)	800 (32)	900 (36)
	Operating weight	kg (lb)	118000 (260140)	118670 (261620)	119470 (263380)
	Ground pressure	kgf/cm ² (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	B
900 mm double grouser	Option	C

※ **Table 2**

Category	Applications	Applications
A	Rocky ground, river beds, normal soil	<ul style="list-style-type: none">• Travel at low speed on rough ground with large obstacles such as boulders or fallen trees
B	Normal soil, soft ground	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• 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
Type	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 ± 50 rpm
Low idling speed	900 ± 50 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
Type	Variable displacement axis piston pumps
Capacity	3 × 280 cc/rev
Maximum pressure	320 kgf/cm ² (4550 psi) [350 kgf/cm ² (4980 psi)]
Rated oil flow	3 × 490 l /min (129.4 U.S. gpm / 107.8 U.K. gpm)
Rated speed	1800 rpm

[] : Power boost

4) FAN PUMP

Item		Specification
Type		Variable displacement axis piston pumps
Capacity		65 cc/rev
Maximum pressure		270 kgf/cm ² (3840 psi)
Rated speed		1800 rpm

5) GEAR PUMP

Item		Specification
Type		Fixed displacement gear pump single stage
Capacity		30 cc/rev
Maximum pressure		40 kgf/cm ² (570 psi)
Rated oil flow		54 l /min (14.3 U.S. gpm/11.9 U.K. gpm)

6) MAIN CONTROL VALVE

Item		Specification
Type		13 spools
Operating method		Hydraulic pilot system
Main relief valve pressure		320 kgf/cm ² (4550 psi) [350 kgf/cm ² (4980 psi)]
Overload relief valve pressure		360 kgf/cm ² (5120 psi)

[]: Power boost

7) SWING MOTOR

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

8) REMOTE CONTROL VALVE

Item			Specification
Type			Pressure reducing type
Operating pressure	Minimum		6.5 kgf/cm ² (92 psi)
	Maximum		25 kgf/cm ² (360 psi)
Single operation stroke	Lever		61 mm (2.4 in)
	Pedal		123 mm (4.84 in)

9) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	350 kgf/cm ² (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/cm ² (256 psi)
Braking torque	114 kgf · m (825 lbf · ft)

10) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	ø 230 × ø 160 × 2165 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	ø 260 × ø 180 × 2180 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	ø 240 × ø 170 × 1792 mm
	Cushion	Extend only

※ 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.

11) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R1250-9	Standard	※ 700 mm (28")	1.51 kgf/cm ² (21.47 psi)	52	4600 mm (15' 1")
	Option	※ 800 mm (32")	1.34 kgf/cm ² (19.05 psi)	52	4700 mm (15' 5")
		※ 900 mm (36")	1.20 kgf/cm ² (17.06 psi)	52	4800 mm (15' 9")

※ Double grouser

12) BUCKET

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

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	70 (18.5)	★SAE 5W-40								
							SAE 30				
			SAE 10W								
			SAE 10W-30								
			SAE 15W-40								
Gear box	Heavy duty gear oil	6.0 (1.6)	★SAE 75W-90								
						ISO VG 100~220					
Swing drive	Gear oil	8.0×2 (2.1×2)	★SAE 75W-90								
Final drive		20×2 (5.3×2)			SAE 80W-90						
Hydraulic tank	Hydraulic oil	Tank : 670 (177) System: 1160 (306)	★ISO VG 15								
			ISO VG 32								
			ISO VG 46								
			ISO VG 68								
Fuel tank	Diesel fuel	1475 (390)	★ASTM D975 NO.1								
						ASTM D975 NO.2					
Lower roller	Gear oil	1.08 (0.3)	★SAE 75W-90								
Upper roller		0.68 (0.18)			SAE 85W-140						
Idler		0.83 (0.22)									
Fitting (grease nipple)	Grease	As required	★NLGI NO.1								
			NLGI NO.2								
Radiator (reservoir tank)	Mixture of antifreeze and soft water★ ¹	100 (26.4)	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

★ : Cold region

Russia, CIS, Mongolia

★¹ : Soft water

City water or distilled water