www.hd-hyundaice.com

R220LS SMART





Head Office(Sales Office)

11F, GLOBAL R&D CENTER, 477 BUNDANG SUSEO-RO, BUNDANG-GU, SEONGNAM-SI, GYEONGGI-DO, 13553, KOREA

OPERATING WEIGHT 22000kgs

GROSS POWER 148 HP @ 2000 rpm

PLEASE CONTACT



BUCKET CAPACITYY 0.95~1.05m³



DESIGNED FOR SMART WORK

HYUNDAI

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Rohex

22015

R220LS SMART

HYUNDAI

GENUINE

GENUINE PARTS

PARTS

BEST-IN CLASS PERFORMANCE

- Advanced CAPO system
- Hydraulic flow summation
- Regeneration system
- Excellent digging forces
- Swing priority

OPERATOR COMFORT

- Spacious cabin
- Fully adjustable seat
- Enhanced visibility
- User friendly functionality

IMPROVED FUEL EFFICIENCY

- New ECO mode
- Fuel saving kit
- Electro hydraulic system
- Auto deceleration system
- Efficient breaker mode



INCREASED MACHINE DURABILITY

- Strengthened undercarriage
- Proven upper structure
- Forged ring body
- Reinforced front attachment

SIMPLIFIED MAINTENANCE

- Easy serviceability
- Extended maintenance
- Large capacity fluid tank
- Low life cycle cost

PARTS & SUPPORT

- Hyundai genuine parts
- Max parts availability
- On-site product support
- Remote management system (Hi-Mate)

RELIABILITY



REINFORCED FRONT STRUCTURE

Use of specialized advance steel plates and reinforced design for higher strength and durability

ULTIMATE RELIABILITY



Reinforced idler frame



Lower frame belly guard







Reinforced bucket link



SWING & TRAVEL SYSTEM Highly efficient Hyundai designed swing and travel system ensure maximum reliability & performance.



RELIABLE ELECTRICALS

- Dust and water proof connectors
- Longer component life



AIR PRE-CLEANER

- Removes dirt and Debris from air before entering air filter
- Improves air filter life
- Low maintenance cost



RUGGED UNDERCARRIAGE

X frame provides excellent resistance to torsional bending to enhance structure life

SERVICEABILITY

LEADING SERVICE INTERVAL

More efficient cooling system which extend service intervals, minimize operating cost and reduce machine down time.

CHANGE INTERVAL	
Hydraulic oil	5000 hrs
Hydraulic filter	1000 hrs
Engine oil	500 hrs New!
Engine Filter	500 hrs New!



LARGE LCD MONITOR

Operator can check the machine's vital signs without any difficulties

- Maintenance Management
- Proactive maintenance
- Self Diagnostic Reduces down time
- Warning Indicator Ensures safe working

Hinged type front glass guard for easy cleaning

EASY ACCESSIBILITY

Easy access for maintenance means regular checks get done faster. Hyundai's SMART PLUS machines feature easy service access to increase uptime and reduce operating costs







DURABLE MOUNTING PIN BUSH

IMPROVED COOLING EFFICIENCY

• Radiator and oil cooler are arranged in line to maximize efficiency

• Easily accessible from ground level to

clean





SAFETY

SAFETY - PEACE OF MIND AND OPERATOR CONFIDENCE

Cabin is integrally welded with low-stress using high strength steel to provide enhanced protection. Handrails and steps are provided for easy operation. Engine fan guard avoid chances of accidental injury.











COUNTER BALANCE VALVE

Works as a hydrostatic brake and prevents machine against accidental roll down in steep gradients.



BOOM & ARM HOLDING SYSTEM

Prevent attachments from drifting against gravity due to prolonged overhanging.



ANTI RESTART FUNCTION Prevents starter from damage during engine operation



BATTERY DISCONNECT SWITCH

Cut off power during maintenance and protect batteries from excessive drain



AUTO ENGINE OVERHEAT PREVENTION

Auto Deceleration with activation of engine overheat warning to avoide catastrophic failure

PARTS & SUPPORT

HYUNDAI GENUINE PARTS

Developed in synergy with our machines, Hyundai parts and lubricants ensure that you get the high levels of performance, reliability and safety that come with the complete Hyundai experience. Enjoy the confidence and assurance of the most stringent testing procedures and the high quality manufacturing processes safeguarding your machine's health. Experience the versatility of our 200+ strong outlet network across India WHY RISK IT?

Maximize profits and extend your machine's life.













BENEFITS OF USING GENUINE HYUNDAI PARTS AND LUBRICANTS

- Genuine Hyundai Parts meet strict specifications and standards in Chemistry, Microstructure and Tensile Strength.
- Benefit from the continuous improvements and advancements made by Hyundai's technical team
- Improved performance of hydraulics and engine components
- Enjoy greater productivity with higher uptime
- Higher resale values
- Reduced oil consumption and unexpected breakdowns
- Enhanced component life





SPECIFICATIONS

Our Unique remote management system allows customers to access machine operating information & obtain service & maintenance alerts at the touch of a button.

INCREASED PRODUCTIVITY

HI MATE empowers you to enhance the efficiency of your operations. Make better decisions by comparing the machine's operating time with its travelling, idling & breaker use duration.

CONVENIENT & EASY MONITORING

Enjoy round the clock & on the move access to your machine's information through the website or the mobile app.



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i in	Defailt	Setting	Brid	Hormeter	Replace Date		ing time to ing manyonia (PD	d Alama	
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PROACTIVE MAINTENANCE

Access your machine's service & maintenance history with the utmost convenience. Plan your service schedules intelligently with our regular reminders.



SECURITY & FLEET MONITORING

Protect your machines from theft or unauthorized use. HI MATE's GPS feature allows you to create a geo-fence & alerts you if the machine moves out of the defined boundary.

*	Date 14 Ma	-2018	- 19-Apr-201	E	-	1.0	· Alarm Type All	M			
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ALARMS

Get notified of system alarms & protect your machine from critical faults & experience repairs.

Rated flywheel horse power SAE J1995 (Gross) J1349 (Net) 148 HP (110KW) @2000rpm 145 HP (108KW) @2000rpm 1580acc Swing reduction Planetary gear reduct Swing bearing lubrication Max Torque 63.7gfm @1300 rpm 580occ Swing reduction Ground pressure kgf/cm2 (psi) Hydraulic System 580occ Shoe Width kg (lb) Operating Weight kg (lb) Ground pressure kgf/cm2 (psi) Type Two variable displacement piston pumps Sub-pump for pilot ciruit Gear pump Goo mm (24") 22,000 (48,502) 0.47 (6.68) Hydraulic Motors Two speed axis piston motor with counter balance valve and parking brake Dimensions (mm) Relief Valve Settings Travel 330kgf/cm ² Swing Circuit 330kgf/cm ² 230kgf/cm ² A Tumbler distance 3640 B Overall length of crawler 4440 G Ground dearance of counter weight 1060	Maker/M	odel		Cummins6BTAA-5.9C	Swir	ng motor		Ax	kial piston motor	
Hywheel horse power SAE J1995 (Gross) J1349 (Net) 148 HP (110KW) @2000rpm 145 HP (108KW) @2000rpm 145 HP (108KW) @2000rpm 145 HP (108KW) @2000rpm 5800cc Swing bearing lubrication Grease bath Swing bearing lubrication Max Torque Displacement 63.7gfm @1300 rpm 5800cc Swing bearing lubrication Grease bath Swing brake Hydraulic System 63.7gfm @1300 rpm 5800cc Swing bearing lubrication Ground pressure kgf/cm2 (psi) Type Two variable displacement piston pumps Sub-pump for pilot ciruit Ground pressure kgf/cm2 (psi) Multi wet of Swing Second at the same pump Cross-sensing & fuel saving pump system Hydraulic Motors Two speed axis piston motor with counter balance valve and parking brake Swing Circuit Two speed axis piston motor with axial piston motor with automatic brake Dimensions (mm) Relief Valve Settings A tumbler distance 3640 Implement Circuit 330kgf/cm ² Swing Circuit A tumbler distance 3640 B Overall length of crawler 4440 C Ground dearance of counter weight 1060 D Tail swing radius 2830 D' Rear-end length 2770						5		Planetary gear reduction		
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Max Torque 63.7gfm @1300 rpm Max Torque 63.7gfm @1300 rpm Displacement 5800cc Hydraulic System Skoop Main pump Two variable displacement piston pumps Type Two variable displacement piston pumps Max. flow 2x220 lpm Sub-pump for pilot ciruit Gear pump Cross-sensing & fuel saving pump system Gear pump Hydraulic Motors Two speed axis piston motor with automatic brake Swing Axial piston motor with automatic brake Relief Valve Settings May Stokf/cm² Implement Circuit 330kgf/cm² Swing Circuit 240kgf/cm² Swing Circuit 35kgf/cm² Service valve Installed D' Rear-end length 2770		SAE	J1349 (Net)	145 HP (108KW) @2000rpm		5 5		Multi wet dis		
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Main pumpTypeTwo variable displacement piston pumpsMax. flow2x220 lpmSub-pump for pilot ciruitGear pumpCross-sensing & fuel saving pump system600 mm (24")Hydraulic MotorsTwo speed axis piston motor with counter balance valve and parking brakeSwingAxial piston motor with automatic brakeRelief Valve Settings330kgf/cm²Implement Circuit330kgf/cm²Travel330kgf/cm²Swing Circuit240kgf/cm²Pilot Circuit35kgf/cm²Service valveInstalledCondent & Lubricent ConstitutCGround PressureKg (lb)0.47 (6.68)Dimensions(mm)Condent & Lubricent Constitut320kgf/cm²Pilot Circuit35kgf/cm²Pilot Circuit35kgf/cm²Service valveInstalledDTail swing radiusDTail swing radiusDTai			a m	500000	Ор	erating We	ight			
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Cross-sensing & fuel saving pump system Hydraulic Motors Travel Two speed axis piston motor with counter balance valve and parking brake Swing Axial piston motor with automatic brake Implement Circuit 330kgf/cm² Travel 330kgf/cm² Swing Circuit 240kgf/cm² Pilot Circuit 35kgf/cm² Service valve Installed Orealet & Lubricout Cooxity 2430kgf/cm² Pilot Circuit 35kgf/cm² Service valve Installed				2x220 lpm						
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Swing circuit 240spircht Pilot Circuit 35kgf/cm² Service valve Installed Coolent & Lubricout Cooocity 0 Goolent & Lubricout Cooocity 1060 D' Rear-end length 2770	Travel			330kgf/cm ²						
D Tail swing radius 2830 D' Rear-end length 2770	Swing Circu	Circuit 240kgf/cm ²				5				
Coolent & Lubricont Consolity	Pilot Circuit	Circuit 35kgf/cm ²					5			
	Service valv	/e		Installed		5				
	Caslant	0 1			D'	Rear-end leng	th		2770	

REFILLING	LITER
Fuel tank	340
Engine coolant	25.5
Engine oil	21
Swing device	5
Final drive (each)	5.8
Hydraulic system / Hydraulic tank	260 / 150

Drives & Brakes	
Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Max.drawbar pull	21100kgf (46500 lbf)
Max.travel speed (high/low)	5.3kmph/3.4kmph
Gradeability	35 Degree (70%)
Parking brake	Multi wet disc

Undercarriage

X-Leg type centre frame is integrally welded with reinforced box section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing spring and sprockets and trackchain with triple grouse shoes.

Centre frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	49
No. of carrier rollers each side	2
No. of track rollers. each side	9
No. of rail guard each side	2



SPECIFICATIONS

Wo	rking Ranges			(mm)
	Arm length	2000	*2400	2920
А	Max. digging reach	9,105(29'10")	9,474(31'1")	9,945(32'8")
Α'	Max. digging reach on ground	8,928(29'4")	9,305(30'6")	9,783(32'1")
В	Max. digging depth	5,680(18'8")	6,079(19'11")	6,600(21'8")
В'	Max. diggign depth(8ft level)	5,448(17'11")	5,876(19'3")	6,424(21'1")
С	Max. Vertical wall digging depth	4,743(15'7")	5,094(16'9")	5,726(18'9")
D	Max. digging height	9,225(30'3")	9,433(30'11")	9,685(31'9")
E	Max. dumping height	6,424(21'1")	6,635(21'9")	6,873(22'7")
F	Min. swing radius	3,759(12'4")	3,573(11'9")	3,508(11'6")



 Force
 15729 kgf

 ce(2.4m)
 12571 kgf

BUCKETS

All buckets are welded with high-strength steel.



	Capacity M ³					Recommendation				
	Capacity - M ³		Width - mm	Weight - kg	Tooth EA	5.68m Boom				
			width - mm	Weight - Kg	IOUTILA	3.8t CWT				
Bucket Type	SAE Heaped	CECE heaped				2.0m Arm	2.92m Arm			
GP	0.92	0.81	1148	758	5	•	Ð	Ð		
GP	1.20	1.06	1398	790	5	-	-	A		
GP	1.00	0.88	1232	797	5	•	Ð	-		
GP	1.05	0.92	1248	803	5	O				
HD	0.87	0.77	1147	926	5	•	Ð	-		
HD	0.92	0.81	1220	978	5	•	Ð	-		
HD	0.95	0.84	1270	1056	5	O	O	-		
HD	1.10	0.97	1435	1112	5	-	-	A		

• : Applicable for materials with density of 2,100 kg/m³ (3,500 lb/yd³) or less ${\rm I\hspace{-0.5mm}O}$: Applicable for materials with density of 1,800 kg/m³ (3,000 lb/yd³) or less ■ : Applicable for materials with density of 1,500 kg/m³ (2,500 lb/yd³) or less

▲ : Applicable for materials with density of 1,200 kg/m³ (2,000 lb/yd³) or less

x : Not Recommended

SPECIFICATIONS

ATTACHMENT

Boom and arm are of all-welded with a low-stress, full-box section desing. 5.68m (18'8) mono boom and 2.m (6'7"), 2.4m (7,10") 2.92m(97") Arm are available. Buckets are all-welded, high-steel implements.

	Length	mm(ft.in)	2,000 (6'7'')	*2,400 (7'10")	2,920 (9'7")
Arm	Weight	kg(lb)	614 (1,354)	718 (1,583)	735 (1,620)
		kN	133	133	134
	SAE	kgf	13,591	13,596	13,646
Bucket Digging Force		lbf	29,963	29,973	30,084
		kN	154	154	155
	ISO	kgf	15,724	15,729	15,788
		lbf	34,666	34,677	34,806
		kN	140	118	99
	SAE	kgf	14,290	11,995	10,111
Arm Crowd Force		lbf	31,504	26,445	22,292
		kN	148	123	103
	ISO	kgf	15,065	12,571	10,543
		lbf	33,213	27,715	23,244

Note: Arm weight includes cylinder and linkage *Standard arm

LIFTING CAPACITIES

LIFTING CAPACITIES R215 SMART PLUS



3800 600[mr GP 2000 GP NONE CABIN 5680 NONE Lift-point radius At max. reach Lift-point 3.0m (9.8ft) 4.5m (14.8ft) 6.0m (19.7ft) 7.5m (24.6ft) Capacity Reach height ₽ ∎₽ ₽ -£) -£Ĵ 4 4 ŀ -£Ĵ (m/ft) m(ft) *5,520 4.97 *12,170 (16.3) 7.5m 24.6ft kg Ib *5,520 ___ ___ - --- ------*12,170 (16.3) 6.0m *5,200 4,530 *5,250 4,120 6.33 kg *11,460 9,990 9,080 19.7ft *11,570 (20.8) lb *6,590 *6,590 *5,500 4,410 *5,230 3,340 7.13 4.5m kg 14.8ft *14,530 *14,530 *12,130 9,720 7,360 lb *11,530 (23.4) *6,150 4,190 *13,560 9,240 3.0m 9.8ft 2,970 7.54 kg 5,280 3,000 5,230 11.640 6,610 6,550 (24.7) 11,530 lb kg Ib *6,780 3,990 5,190 *14,950 8,800 11,440 2,930 5,050 6,460 11,130 2,850 6,280 7.64 (25.1) 1.5m 4.9ft *7,120 3,880 0.0m kg *9,740 5,210 2,920 7.43 5,770 0.0ft lb *21,470 12,720 *15,700 8,550 11,490 6,440 (24.4) -1.5m kg *9,370 5,790 *6,980 3,870 5,830 3,240 6.89 -4.9ft lb *20,660 12,760 *15,390 8,530 12,850 7,140 (22.6) kg lb *10,990 *10,990 *8,230 *24,230 *24,230 *18,140 5,930 13,070 4,070 8,970 *5,960 5.93 -3.0m -9.8ft *13,140 (19.4) -4.5m -14.8ft kg lb

Boom type	Length[mm]	Arm type	Length[mm]	BK type	Capa.[m]	QC	Swing Post	CWT[kg]	Shoe(wheel)	Outtriger[F]	Outtriger[R]	Cabin type	
GP	5680	GP	2400	GP	1.05	NO	NO	3800	600[mm]	NONE	NONE	CABIN	
					Lift-poir	nt radius				At max. reach			
	point	3.0m	(9.8ft)	4.5m (14.8ft)	6.0m (19.7ft)	7.5m	(24.6ft)	Capacity		Reach	
height (m/ft)				ŀ	-50	ŀ	-50	ŀ		ŀ	-50	m(ft)	
7.5m	kg									*5,000	*5,000	5.53	
24.6ft	lb									*11,020	*11,020	(18.1)	
6.0m	kg					*4,770	4,570			*4,840	3,700	6.78	
19.7ft	lb					*10,520	10,080			*10,670	8,160	(22.2)	
4.5m	kg			*6,050	*6,050	*5,150	4,420	*4,850	3,060	*4,850	3,040	7.52	
14.8ft	lb			*13,340	*13,340	*11,350	9,740	*10,690	6,750	*10,690	6,700	(24.7)	
3.0m	kg			*7,650	6,330	*5,830	4,180	*5,040	2,980	4,830	2,730	7.92	
9.8ft	lb			*16,870	13,960	*12,850	9,220	*11,110	6,570	10,650	6,020	(26.0)	
1.5m	kg			*9,030	5 <i>,</i> 870	*6,530	3 <i>,</i> 950	5,150	2,880	4,670	2,610	8.01	
4.9ft	lb			*19,910	12,940	*14,400	8,710	11,350	6,350	10,300	5,750	(26.3)	
0.0m	kg			*9,600	5,680	*6,970	3,810	5,080	2,810	4,790	2,660	7.81	
0.0ft	lb			*21,160	12,520	*15,370	8,400	11,200	6,190	10,560	5,860	(25.6)	
-1.5m	kg	*9,680	*9,680	*9,430	5,660	*6,970	3,770			5,280	2,920	7.30	
-4.9ft	lb	*21,340	*21,340	*20,790	12,480	*15,370	8,310			11,640	6,440	(24.0)	
-3.0m	kg	*11,800	11,130	*8,540	5,770	*6,260	3,860			*5,650	3,560	6.40	
-9.8ft	lb	*26,010	24,540	*18,830	12,720	*13,800	8,510			*12,460	7,850	(21.0)	
-4.5m	kg			*6,220	6,070					*5,490	5,420	4.89	
-14.8ft	lb			*13,710	13,380				T	*12,100	11,950	(16.0)	

LIFTING CAPACITIES

Boom type	Length[mm]	Arm type	Length[mm]	BK type	Capa.[㎡]	QC	Swing Post	CWT[kg]	Shoe(wheel)	Outtriger[F]	Outtriger[R]		Cabin type		
GP	5680	GP	2920	GP	1.05	NO	NO	3800	600[mm]	NONE	NONE		CABIN		
1.16						Lift-poir	nt radius					A	t max. read	:h	
	Lift-point		(4.9ft)	3.0m	(9.8ft)	4.5m (14.8ft)		6.0m (19.7ft)		7.5m (24.6ft)		Сара	acity	Reach	
	ght /ft)					ŀ	-	Ŀ	-50	ŀ		Ŀ	-	m(ft)	
7.5m	kg							*4,400	*4,400			*3,840	*3,840	6.19	
24.6ft	lb							*9,700	*9,700			*8,470	*8,470	(20.3)	
6.0m	kg							*4,290	*4,290			*3 <i>,</i> 550	3,290	7.33	
19.7ft	lb							*9,460	*9,460			*7,830	7,250	(24.0)	
4.5m	kg							*4,750	4,510	*4,460	3,120	*3,480	2,770	8.02	
14.8ft	lb							*10,470	9,940	*9,830	6,880	*7,670	6,110	(26.3)	
3.0m	kg					*7,060	6,540	*5,500	4,260	*4,780	3,020	*3 <i>,</i> 560	2,500	8.39	
9.8ft	lb					*15,560	14,420	*12,130	9,390	*10,540	6,660	*7,850	5,510	(27.5)	
1.5m	kg					*8,620	6,030	*6,290	4,020	*5,160	2,900	*3,780	2,400	8.48	
4.9ft	lb					*19,000	13,290	*13,870	8,860	*11,380	6,390	*8,330	5,290	(27.8)	
0.0m	kg			*5,110	*5,110	*9,490	5,750	*6,850	3,850	5,080	2,810	*4,190	2,440	8.29	
0.0ft	lb			*11,270	*11,270	*20,920	12,680	*15,100	8,490	11,200	6,190	*9,240	5,380	(27.2)	
-1.5m	kg	*5,680	*5,680	*9,430	*9,430	*9,600	5,670	7,010	3,780	5 <i>,</i> 050	2,790	4,770	2,640	7.82	
-4.9ft	lb	*12,520	*12,520	*20,790	*20,790	*21,160	12,500	15,450	8,330	11,130	6,150	10,520	5,820	(25.6)	
-3.0m	kg	*10,230	*10,230	*12,880	11,040	*9,000	5,730	*6,630	3,810			*5,370	3,130	6.98	
-9.8ft	lb	*22,550	*22,550	*28,400	24,340	*19,840	12,630	*14,620	8,400			*11,840	6,900	(22.9)	
-4.5m	kg			*10,310	*10,310	*7,340	5,940					*5,460	4,360	5.63	
-14.8ft	lb			*22,730	*22,730	*16,180	13,100					*12,040	9,610	(18.5)	

Notes: 1. Liftingcapacity are based on ISO 10567.

2. Liftingcapacity of the Robex Series does not exceed 75% of tippin load with

the machine on firm, level ground or 87% of full hydraulic capacity. 3. The Lif-point is bucket pivot mounnng pin on the arm(without bucket mass).

4. (*) indicates load limited by hydraulic capacity.



STANDARD / OPTIONAL LIST

NOTES

Standard Equipment

Standard Equipment
ISO standard cabin
All-weather steel cab with all-around visibility
Safety glass windows
Sliding fold-in front window
Sliding side window
Air-conditioner (5000kcal/hr, 20000 BTU/hr)
Accessory box & Ashtray
Computer Aided Power Optimization (New CAPO) system
3-power mode, 2-work mode
Auto deceleration & one touch deceleration system
Auto engine overheat prevention system
Self diagnostic system
Centralized monitoring
LCD display
Engine speed
Clock & Error code
Mobile charging point
Fuel level gauge
Engine coolant temperature gauge
Hyd. oil temperature gauge
Warning
Fuel level
CPU
Engine oil pressure
Engine coolant temperature
Hyd. oil temperature
Low battery Air cleaner clogging
Door and cab locks, one key One outside rearview mirror
Dual channel fully adjustable suspension seat
Slidable joystick. pilot-operated
Two front working lights and two cabin work lights
Electric horn
Batteries (2 x 12V x 100 AH)
Battery master switch
Removable clean out screen for oil cooler
Automatic swing brake
Removable reservoir tank
24V Power Socket

Fuel pre-filter
Boom holding system
Arm holding system
Counter weight (3800kg)
Radio / USB player
Mono boom (5.68m, 18' 8")
Arm (2.4m, 7′ 10″) 2.m(6'7"),
Standard bucket (1.05GP m ³ , 1.37 yd ³)
Track shoes (600mm, 24")
Track rail guard
Cabin front protector
Operator kit
Tool kit
Remote management system (HI-MATE)

Optional Equipment

Fuel Refilling Pump
Beacon lamp
Single acting piping kit
Sun visor for cabin inside

Various optional Arms (SAE heaped)

Arm 2.0 m (6'7") & 2.92 m, (9'7")
Remote management system (Hi-Mate)
Travel alarm
Operator seat belt
Fire extinguisher
Rock Breaker

R150LS SMART PLUS 15