

R215L **SMART PLUS**

OPERATING WEIGHT: 22200 kgs

GROSS POWER : 148 HP @ 2000 rpm

BUCKET CAPACITY: 0.87 - 1.7m³



R215L **SMART PLUS**

BEST-IN CLASS PERFORMANCE

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



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



DESIGNED FOR SMART WORK



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-Track)



Performance

PRIDE AT WORK

Hyundai construction equipment strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality.

New technologies designed to improve performance and precision, make the Hyundai excavator smooth, fast and easy to control.

Take pride in your work with Hyundai!



ENGINE

The water cooled, 4 cycle diesel, 6 cylinder in line, direct injection turbocharged, charge air cooled engine is built for power, reliability, efficiency and reduced emissions.

The engine is manufactured to perform in wide range of heat, humidity and dust conditions without compromising productivity.



R215L **SMART PLUS**



HYDRAULIC SYSTEM

Electro hydraulic control system provides wide range of flow at various workloads for paramount productivity. Open center design of Main Control Valve (MCV) ensures fast response and maximum efficiency in tough conditions.



CHARGE AIR COOLER

- Cools the air as it passes through turbocharger
- Resulting in cool high density, bigger mass of air being pumped to engine
- Increasing the burning efficiency

CHOICE OF OPERATING MODE

Working Mode	Advantage
H Mode	<ul style="list-style-type: none"> • Maximum Power • Fast Cycle time
S Mode	<ul style="list-style-type: none"> • Balance between power and fuel efficiency
Eco Mode	<ul style="list-style-type: none"> • Better fuel efficiency
Breaker Mode	<ul style="list-style-type: none"> • Sets pump flow to optimal level and boosts efficiency



EFFICIENT COMBINED OPERATION

Inbuild flow summation system and Swing priority function leads to faster swing cycle results in excellent output



BEST IN CLASS TRAVEL PERFORMANCE

- Higher traction force
- Dual travel option
- High maneuverability

Traction Force : 21100 kgf



DIGGING FORCES

Higher output even in tough working conditions

- **Bucket - 15500 kgf**
- **Arm - 12000 kgf**



Fuel Efficiency



IMPROVED FUEL EFFICIENCY

Advanced CAPO system, newly designed CMCU, power & working mode options results in excellent fuel efficiency.

FUEL SAVING KIT

- Monitor undue load and cut down losses.
- Provides better fuel efficiency



ARM REGENERATION SYSTEM

- Smooth operation
- Prevent cavitation
- Increased performance & fuel efficiency

NEGATIVE FLOW CONTROL

Optimum balance between pump and engine output for better fuel efficiency



ONE TOUCH IDLE & AUTO DECELERATION

Prevents fuel losses by reducing engine rpm during no-load condition

EXCLUSIVE BREAKER MODE

Excellent fuel saving due to exclusive power for breaker operation



NEW ECO MODE

MULTI LANGUAGE



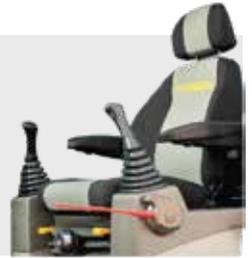
MOBILE CHARGING POINT



Operator Comfort

OPERATOR DELIGHT

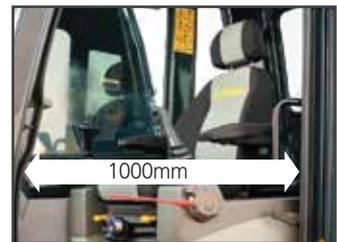
More space, better visibility, powerful air-conditioning and adjustable fully suspension seat, easy to access controls ensure that the operator can work for longer hours without stress or fatigue in the comfortable and safe working environment.



360 degree visibility, fully open sunroof, added side lamp & mirror ensure comfortable, safe working environment.

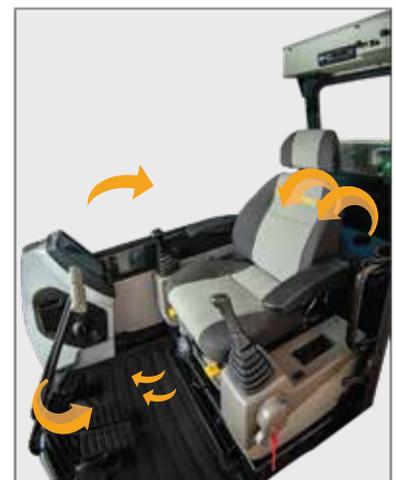
OPERATOR SEAT

Easily adjustable fully suspension seat with adjustable arm rest



SPACIOUS CABIN

More head room, large space, large door for easy entry and exit



INSTRUMENT PANEL

The user-friendly multi language option cluster making it easy to check all critical systems like

- Hydraulic oil temperature,
- Coolant temperature
- Fuel level
- Self diagnostic checks
- Maintenance management

to optimizing productivity needs ensuring fuel efficiency



AIR CONDITIONER

- High performance air conditioner
- Improved AC ducting
- Water bottle cooling system



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



1 pc cast H link



Reinforced bucket link



HD TRACK LINK



ROCK GUARD



TANK SAFETY COVER



SWING & TRAVEL SYSTEM

Highly efficient Hyundai designed swing and travel system ensure maximum reliability and 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 
Engine Filter	500 hrs 



IMPROVED COOLING EFFICIENCY

- Radiator and oil cooler are arranged in line to maximize efficiency
- Easily accessible from ground level to clean



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

DURABLE MOUNTING PIN BUSH



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.





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 avoid 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



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

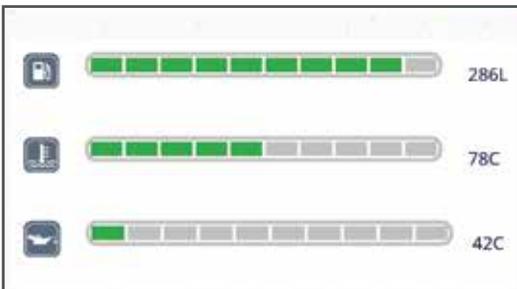


INCREASED PRODUCTIVITY

Remote management system empowers you to enhance the efficiency of your operations. Make better decision by comparing the machine's operating time with its travelling idling & breaker use duration.

CONVENIENT & EASY MONITORING

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



PROACTIVE MAINTENANCE

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

SELECT REPORTS	
Geo Zone In/Out Detail	<input checked="" type="radio"/>
Fault Code	<input type="radio"/>
Vehicle Usage Summary	<input type="radio"/>
Temperature Record	<input type="radio"/>



ALARMS

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

SECURITY & FLEET MONITORING

Protect your machine from theft or unauthorized use. GPS features allows you to create a geo-fence & alerts you if the machine moves out of the defined boundary.



Specifications

Specifications

Engine

Maker/Model		Cummins6BTAA-5.9C	
Rated flywheel horse power	SAE	J1995 (Gross) J1349 (Net)	148HP (110KW) @2000rpm 145HP (108KW) @2000rpm
Max Torque Displacement		63.7kgfm @1300rpm 5800cc	

Hydraulic System

Main pump

Type	Two variable displacement piston pumps
Max. flow	2x220 lpm
Sub-pump for pilot circuit	Gear pump
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

Relief valve settings

Implement Circuit	330kgf/cm ²
Travel	330kgf/cm ²
Swing Circuit	240kgf/cm ²
Pilot Circuit	35kgf/cm ²
Service valve	Installed

Coolant & Lubricant Capacity

REFILLING	LITER
Fuel tank	340
Engine coolant	35
Engine oil	21
Swing device	5
Final drive (each)	5.8
Hydraulic system / Hydraulic tank	290 / 180

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

Swing System

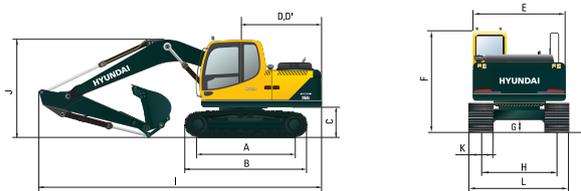
Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease bathed
Swing brake	Multi wet disc
Swing speed	11 rpm

Operating Weight

Shoe Width mm (in)	Operating weight kg (lb)	Ground pressure kgf/cm ² (psi)
600 mm (24")	22,200 (18,943)	0.47 (6.68)

Dimensions

(mm)

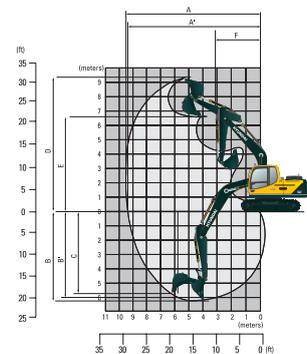


A	Tumbler distance	3640
B	Overall distance of crawler	4440
C	Ground clearance of counter weight	1060
D	Tail swing radius	2830
D'	Rear-end length	2770
E	Overall width of upper structure	2700
F	Overall height of cabin	2920
G	Min. ground clearance	480
H	Track gauge	2390
I	Overall length	9570
J	Overall height of boom	3110
K	Track shoe width	600
L	Overall width	2990

Working Ranges (mm)

Arm length (std.)	2400	2920	Boom length (std.)	5680
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A	Maximum Digging Reach.	9500	9940
A'	Digging Reach on Ground.	9330	9780
B	Max Digging Depth	6220	6740
B'	Max- Digging Depth (8' level).	6010	6550
C	Vertical Wall Digging Depth	5720	6120
D	Maximum Digging Height	9340	9470
E	Maximum Dumping Height.	6520	6670
F	Minimum Swing Radius.	3740	3640



Bucket Digging Force	15500kgf
Arm Crowd Force	12000kgf



Lifting Capacities

LIFTING CAPACITIES R215L SMART PLUS



Rating over-front



Rating over-side

5.68m (18' 8") boom, 2.40 m (7' 10") arm equipped with 1.05m ³ (SAE heaped) bucket, 600mm (24") triple grouser shoe and 4000kg counterweight.														
Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5.0 ft)		3 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)
7.5m (25.0ft)	kg lb											*3360 *7410	*3360 *7410	7.15 (23.5)
6.0m (20.0ft)	kg lb						*3660 *8070	*3660 *8070				*3420 *7540	2700 5950	8.20 (26.9)
4.5m (15.0ft)	kg lb						*4100 *9040	*4100 *9040	*3840 *8470	3060 6750		*3530 *7780	2270 5000	8.82 (28.9)
3.0m (10.0ft)	kg lb					*6330 *13960	*6330 *13960	*4820 *10630	4320 9520	*4150 *9150	2940 6480	3680 8110	2070 4560	9.11 (29.9)
1.5m (5.0ft)	kg lb					*7850 *17310	6270 13820	*5590 *12320	4040 8910	*4530 *9990	2810 6190	3640 8020	2020 4450	9.10 (29.9)
Ground	kg lb			*8380 *18470	*8380 *18470	*8710 *19200	5960 13140	*6160 *13580	3840 8470	*4820 *10630	2710 5970	3810 8400	2110 4650	8.81 (28.9)
-1.5m (-5.0ft)	kg lb	*9290 *24480	*9290 *20480	*12830 *28290	11840 26100	*8860 *19530	5870 12940	*6360 *14020	3760 8290			*4210 *9280	2410 5310	8.18 (26.8)
-3.0m (-10.0ft)	kg lb	*13420 *29590	*13420 *29590	*12170 *26830	12070 26610	*8330 *18360	5950 13120	*6010 *13250	3810 8400			*4270 *9410	3110 6860	7.12 (23.4)
-4.5m (-15.0ft)	kg lb			*9730 *21450	*9730 *21450	*6750 *14880	6210 13690							

5.68m (18' 8") boom, 2.92 m (9' 7") arm equipped with 1.05m ³ (SAE heaped) bucket, 600mm (24") triple grouser shoe and 4000kg counterweight.																
Load point height m (ft)		Load radius										At max. reach				
		1.5 m (5.0 ft)		3 m (10.0 ft)		4.5 m (15 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)		
7.5m (25.0ft)	kg lb											*3030 *6680	*3030 *6680	7.72 (25.3)		
6.0m (20.0ft)	kg lb											*3120 *6880	2450 5400	8.69 (28.5)		
4.5m (15.0ft)	kg lb							*3670 *8090	*3670 *8090	*3490 *7690	3130 6900	*3240 *7140	2080 4590	9.27 (30.4)		
3.0m (10.0ft)	kg lb					*9050 *19950	*9050 *19950	*5670 *12500	*5670 *12500	*4440 *9790	4410 9720	*3860 *8510	2990 6590	*3390 *7470	1900 4190	9.55 (31.3)
1.5m (5.0ft)	kg lb					*8750 *19290	*8750 *19290	*7330 *16160	6410 14130	*5280 *11640	4100 9040	*4300 *9480	2830 6240	3360 7410	1850 4080	9.54 (31.3)
Ground	kg lb			*9390 *20700	*9390 *20700	*8440 *18610	6010 13250	*5960 *13140	3860 8510	*4680 *10320	2700 5950	3490 7690	1920 4230	9.26 (30.4)		
-1.5m (-5.0ft)	kg lb	*8630 *19030	*8630 *19030	*12250 *27010	11720 25840	*8840 *19490	5850 12900	*6300 *13890	3740 8250	4790 10560	2640 5820	3890 8580	2150 4740	8.67 (28.4)		
-3.0m (-10.0ft)	kg lb	*11780 *25970	*11780 *25970	*12900 *28440	11880 26190	*8580 *18920	5870 12940	*6180 *13620	3730 8220			*4130 *9110	2680 5910	7.69 (25.2)		
-4.5m (-15.0ft)	kg lb			*10920 *24070	*10920 *24070	*7450 *16420	6050 13340					*4050 *8930	*4050 *8930	6.09 (20.0)		

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the 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 the load limited by hydraulic capacity.

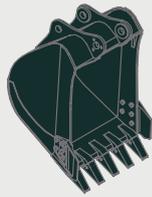


Specifications

BUCKETS

All buckets are welded with high-strength steel.

GENERAL PURPOSE



*1.05 m³ (1.37 yd³) / 1.20 m³ (1.57 yd³) / 0.92 m³ (1.20 yd³)

HEAVY DUTY



0.87 m³ (1.14 yd³) / 0.95 m³ (1.25 yd³)

Capacity m ³ (yd ³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft.in)	
SAE heaped	CECE heaped	Without side cutters	With side cutters		5,680 (18' 8") Boom	
					*2,400 (7' 10") Arm	2,920 (9' 7") Arm
* 1.05 (1.37)	0.92 (1.20)	1250 (49.2)	1370 (53.9)	807 (1779)	●	■
● 0.95 (1.25)	0.83 (1.09)	1240 (44.9)	-	1026 (2262)	●	■
● 0.87 (1.14)	0.75 (0.98)	1140 (44.9)	-	946 (2086)	●	■
1.20 (1.57)	1.05 (1.37)	1400 (55.1)	1520 (59.8)	811 (1788)	▲	-
0.92 (1.20)	0.80 (1.05)	1150 (45.3)	1270 (50.0)	785 (1731)	●	■

* : Standard backhoe bucket
● : Rock-Heavy duty bucket

● Applicable for materials with density of 2,000 kg/m³ (3,370 lb / yd³) or less
■ Applicable for materials with density of 1,600 kg/m³ (2,700 lb / yd³) or less
▲ Applicable for materials with density of 1,100 kg/m³ (1,850 lb / yd³) or less

ATTACHMENT

Boom and arms are welded with a low-stress, full-box section design 5.68m (18' 8") mono boom and 2.4m (7' 10"), 2.92m (9' 7") Arms available. Buckets are all-welded, high-strength steel equipments.

DIGGING FORCE

Arm	Length	mm (ft.in)	*2,400 (7' 10")	2,920 (9' 7")
	Weight	kg (lb)	950 (2,090)	990 (2,180)
Bucket digging force	SAE	kN	133.4	133.4
		kgf	13,600	13,600
		lbf	29,980	29,980
	ISO	kN	152.0	152.0
		kgf	15,500	15,500
		lbf	34,170	34,170
Arm crowd force	SAE	kN	112.8	97.1
		kgf	11,500	9,900
		lbf	25,350	21,830
	ISO	kN	117.7	101.0
		kgf	12,000	10,300
		lbf	26,460	22,710

Note: Arm weight includes bucket cylinder and linkage *Standard arm



Standard / Optional List

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
 Fuel pre-filter
 Boom holding system
 Arm holding system
 Counter weight (4000kg)
 Radio / USB player

Mono boom (5.68m, 18' 8")
 Arm (2.4m, 7' 10")
 Standard bucket (1.05GP m³, 1.37 yd³)
 Track shoes (600mm, 24")
 Track rail guard
 Cabin front protector
 Operator kit
 Tool kit
 Remote management system (Hi-Track)

Optional Equipment

Sun visor for cabin inside
 Beacon lamp
 Single acting piping kit

Various optional Arms (SAE heaped)

Arm (2.92 m, 9' 7")

Various optional Buckets (SAE heaped)

Light duty bucket (1.20 m³, 1.57 yd³)
 Rock Heavy Duty bucket (0.95 m³, 1.25 yd³)
 Rock Heavy Duty bucket (0.87 m³, 1.14 yd³)
 General Purpose bucket (0.92 m³, 1.20 yd³)
 Coal Bucket (1.7 m³, 2.2 yd³)
 Travel alarm
 Operator seat belt
 Fire extinguisher

