HYUNDAI
CONSTRUCTION EQUIPMENT

R220LS SMART plus

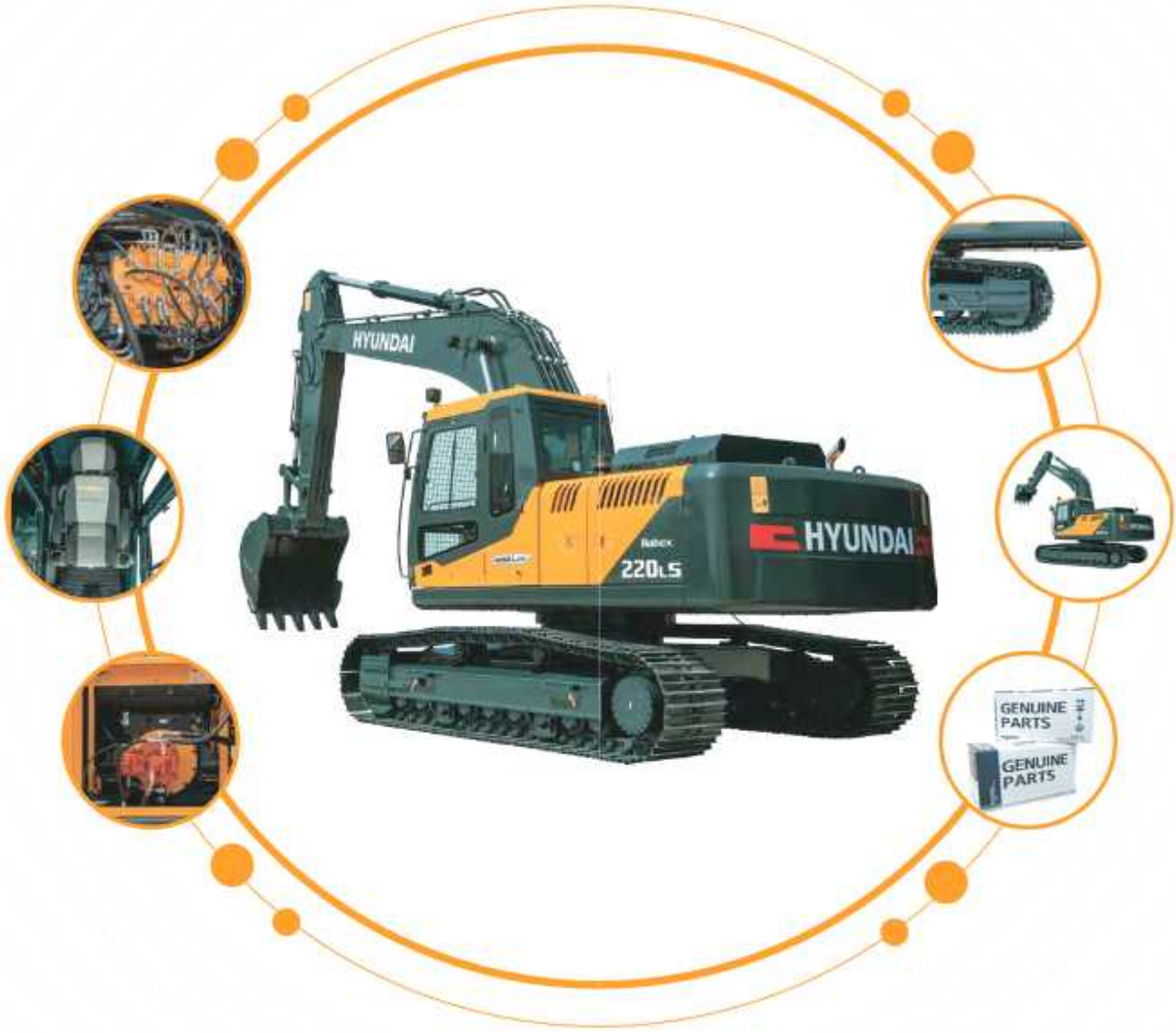
OPERATING WEIGHT: 22000 kgs

GROSS POWER : 148 HP @ 2000 rpm

BUCKET CAPACITY: 0.95 - 1.05 m^3

MOVING YOU FURTHER

DESIGNED FOR SMART WORK



Best-in Class Performance

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

Increased Machine Durability

- Strengthened undercarriage
- Proven upper structure
- Forged ring body
- Heavy duty front attachment

Operator Comfort

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

Simplified Maintenance

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

Improved Fuel Efficiency

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

Parts & Support

- Hyundai genuine parts
- Max parts availability
- On-site product support
- Hi-Track (RMS - Optional)

Performance

CHOICE OF OPERATING MODE

Working Mode	H Mode	S Mode	Eco Mode	Breaker Mode
Advantage	• Maximum Power • Fast Cycle time	• Balance between power and fuel efficiency	• Better fuel efficiency	• Sets pump flow to optimal level and boosts efficiency

Fuel Efficiency

FUEL SAVING KIT

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

EXCLUSIVE BREAKER MODE

Excellent fuel saving due to exclusive power for breaker operation

Reliability

ULTIMATE RELIABILITY

REINFORCED IDLER FRAME

REINFORCED BUCKET LINK

HD TRACK LINK

SWING & TRAVEL SYSTEM

Highly efficient Hyundai designed swing and travel system ensure minimum failure.

Serviceability

LEADING SERVICE INTERVAL

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

	Hydraulic oil	Hydraulic filter	Engine oil	Engine Filter
CHANGE INTERVAL	2000 hrs	500 hrs	500 hrs	500 hrs

Parts & Support

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 & 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

Engine

Maker/Model			Cummins6BTAA-5.9C
Rated flywheel horse power	SAE	J1995 (Gross) J1349 (Net)	148 HP (110KW) @2000rpm 145 HP (108KW) @2000rpm
Max Torque			63.7kgfm @1300 rpm
Displacement			5880cc

Hydraulic System

Main pump

Type	Two variable displacement piston pumps
Max. flow	2x220 lpm
Sub-pump for pilot ciruit	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/cm²
Travel	330kgf/cm²
Swing Circuit	240kgf/cm²
Pilot Circuit	35kgf/cm²
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

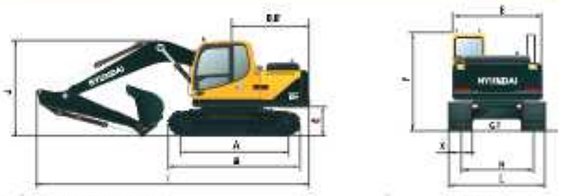
Swing System

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/cm² (psi)
600 mm (24")	22,000 (48,502)	0.47 (6.68)

Dimensions (mm)



A	Tumbler distance	3640
B	Overall length 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)

	Boom length (std.)		5680
	Arm length (std.)	2400	2920
A	Maximun 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	15500 kgf
Arm Crowd Force	12000 kgf

CONSTRUCTION SOLUTIONS PVT. LTD.
Thapathali, Kathmandu, Nepal | Tel: +977-1-4100543/44/45
Narayan: 9851095936 | Krishna: 9851111096
Rajendra: 9801143168 | Sunil: 9801142975 Fax:+977-1-4100542
Email: sales@cspl.com.np, info@cspl.com.np
Website: www.hyundaice-nepal.com

Service Center:
Khumaltar, Lalitpur
Tel: +977-1-5548970/71
Mob: 9851111094
Spare Parts: 9851111093

PLEASE CONTACT

December 2021