HYUNDAI
CONSTRUCTION EQUIPMENT
INDIA

R130 SMART

OPERATING WEIGHT: 12100 kgs

GROSS POWER : 94 HP @ 1950 rpm

BUCKET CAPACITY: 0.45 - 0.65m³

MOVING YOU FURTHER

*Design, aesthetics & features may vary from actual

R130 SMART

BEST-IN CLASS PERFORMANCE

- Advanced CAPO system
- 3 power mode
- Regeneration system
- Excellent digging forces

OPERATOR COMFORT

- Spacious AC cabin
- Fully adjustable seat
- Sunvisor New!
- User friendly digital cluster

IMPROVED FUEL EFFICIENCY

- Electro hydraulic system
- Dual Deceleration system New!
- Efficient breaker mode

DESIGNED FOR SMART WORK

Increased Machine Durability

- Strengthened undercarriage
- Rugged upper structure
- Durable components
- 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

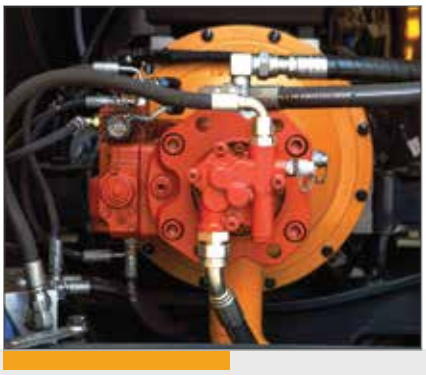
IMPROVED PERFORMANCE

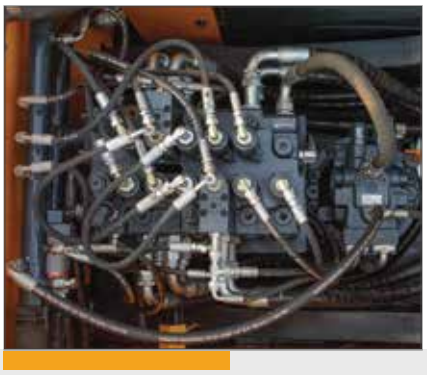
The well-matched combination of the Kirloskar engine with CAPO system has resulted in an unbeatable Hydraulic Excavator that offers great Performance.

ENGINE

The 94 HP, Kirloskar engine coupled with proven electro hydraulic system and intelligent CAPO system ensures optimum utilization of power and increased fuel efficiency.

R130 SMART





ADVANCE HYDRAULIC SYSTEM

Hydraulic pressure sensing system provides wide range of flow at various workloads. Open center Main Control Valve (MCV) ensures faster response and maximum efficiency. Travel & swing motor provides excellent mobility and faster cycle time

CHOICE OF OPERATING MODE

Working Mode	Advantage
H Mode	• Uses 100% engine power for mass production
S Mode	• Uses 85% engine power for all work
L Mode	• Uses 70% of engine power for reduced fuel consumption
Breaker Mode	• Sets pump flow to optimal level and boosts efficiency

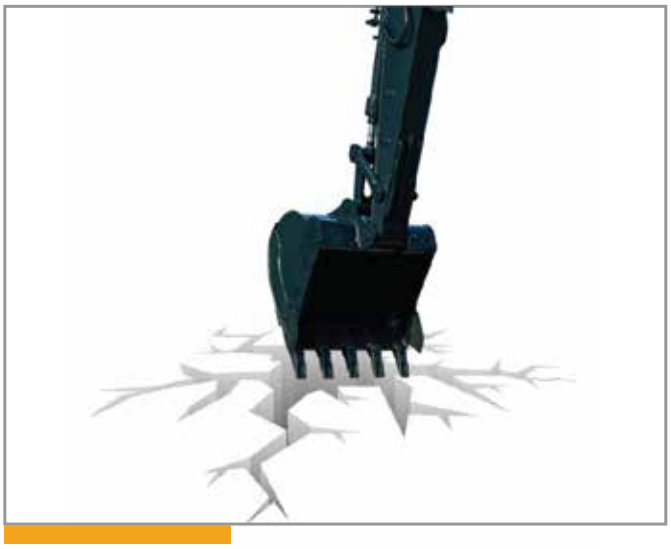
EFFICIENT COMBINED OPERATION

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

BEST IN CLASS DIGGING FORCES

Higher output even in tough working condition

- **Bucket - 9200 kgf**
- **Arm - 6410 kgf**



TOP-CLASS TRAVEL PERFORMANCE

- Higher traction force
- Dual travel option
- High maneuverability

Drawbar Pull - 10400 kgf

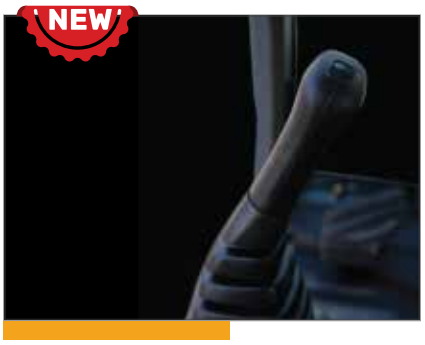
Fuel Efficiency

IMPROVED FUEL EFFICIENCY

New MCV, Improved MCU with auto deceleration function, Advanced CAPO system, Power & working mode options results in excellent fuel efficiency

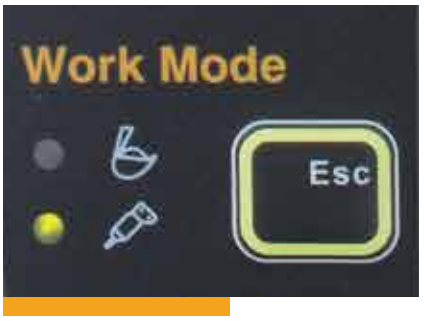
ARM REGENERATION SYSTEM

- Smooth operation
- Prevent cavitation
- Increased performance & 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

Operator Comfort

EXCELLENT VISIBILITY

360 degree visibility, fully open sunroof, ergonomic controls, adjustable fully suspension seat, air conditioning system (Opt) ensure comfortable, safe working environment.

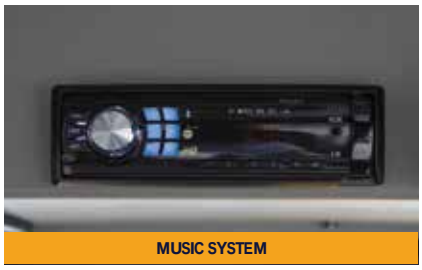
MODERN INSTRUMENT PANEL

- Hydraulic oil temperature
- Fuel level
- Engine oil temperature
- 12 warning indicators
- Self diagnostic
- Maintenance management

SUNVISOR

RUBBER COATED TRAVEL PEDAL

CABIN TOP LIGHT



MUSIC SYSTEM

10 STAGE RPM DIAL

SUNROOF

AIR CONDITIONING SYSTEM
(OPTIONAL)

- 9 air ducts
- Advanced AC console
- Allround air circulation

OPERATOR SEAT

Easily adjustable Full suspension seat with adjustable arm rest

SMOOTH LEVER CONTROLS

Ergonomically placed lever controls reduces fatigue over long working hours.

SPACIOUS CABIN

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

Reliability

REINFORCED FRONT STRUCTURE

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

- Thicker plates
- Casted component
- Internal baffle plate
- Added wear plates on arm
- Reinforced bucket

RUGGED UNDERCARRIAGE

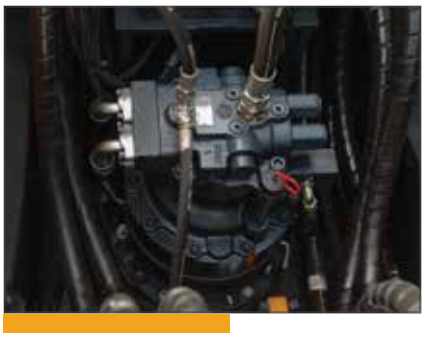
X frame provides excellent resistance to torsional bending to enhance structure life

TRACK GUIDES : Reinforced track guide on each side of track

BELLY GUARD : Protects rotary joint and hydraulic hoses from external damage

REINFORCED IDLER GUIDE AREA : Prevents deformation caused by impact of loose stones

CASTED IDLER : The track spring and the casted idler have been joined directly to achieve optimum structural integrity



BALANCED SWING SYSTEM

Swing gear uses a ball bearing to absorb radial and thrust load

RELIABLE ELECTRICALS

- Dust and water proof connectors
- Longer component life

LONG LIFE STRUCTURE

Tank cover & air breather safety guard protects from external damages.

The reinforced upper structure and lower frame are build to withstand tougher working conditions and contribute towards a well-balanced & solid machine while operating in adverse terrains.

Reinforced front attachment supports excellent bucket digging and arm crowd force.

Serviceability

EXTENDED MAINTENANCE INTERVAL

Enhanced filtration system extends hydraulic life upto 5000 hrs and Engine oil life upto 500 hrs, which reduces the maintenance cost

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

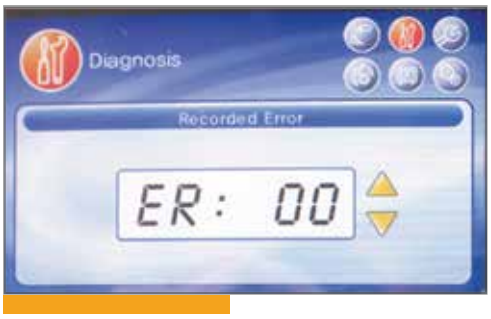
MAINTENANCE MANAGEMENT

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

SELF DIAGNOSTIC SYSTEM



AIR PRE-CLEANER

The large capacity air cleaner removes 99% of airbone particles, reducing the risk of engine contamination.
Reliability is improved by a new radial seal design.

EASY ACCESSIBILITY

Hyundai's SMART machines feature helps easy service access to increase machine uptime and reduces maintenance cost

Safety

SAFETY - MORE THAN A PEACE OF MIND AND CONFIDENCE

Cabin is integrally welded using high strength steel to provide enhanced protection. Handrails and steps are provided for easy operation. Anti-slip pads provide safety against skidding while climbing machine.




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

AUTO ENGINE OVERHEAT & WARM UP FUNCTION

BATTERY DISCONNECT SWITCH

ENGINE FAN GUARD

SLIP RESISTANT STICKES

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?

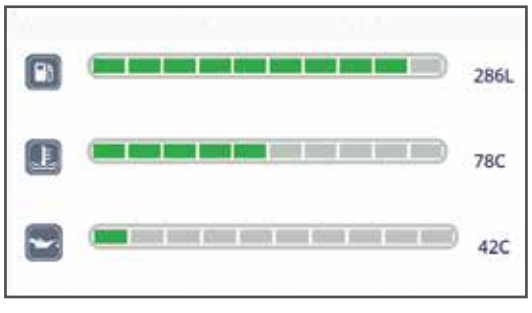
Maximize profits and extend your machine's life.

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

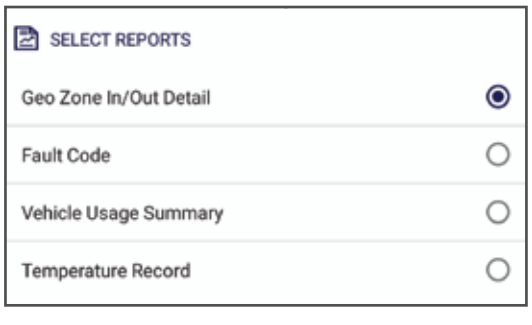
Hi-Track

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



PROACTIVE MAINTENANCE

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



ALARMS

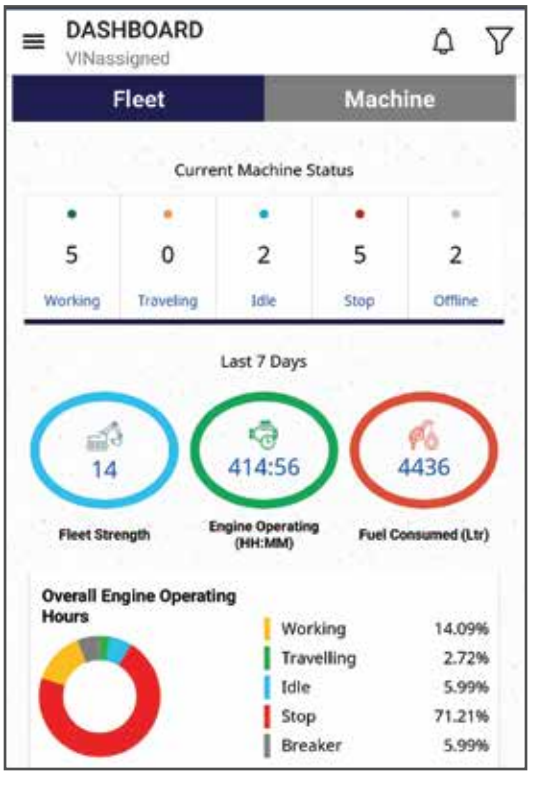
Get notified of system alarms & protect your machine from critical faults & experience repairs.

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.



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

Engine

Maker/Model			Kirloskar 4R1040T
Rated flywheel horse power	SAE	J1995 (Gross)	94 HP (70.1 KW) @1,950 rpm
		J1349 (Net)	91 HP (67.9 KW) @1,950 rpm
Max Torque			36.5 kgf.m (264 lbf.FT) @1,550 rpm

Hydraulic System

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2 x 112 lpm
Sub-pump for pilot ciruit	Gear pump
Cross-sensing & fuel saving pump system	
Hydraulic motors	
Travel	Two speed axial piston motor with counter balance valve and pairing brake
Swing	Axial piston motor with automatic brake
Relief valve settings	
Implement circuits	330kgf/cm²
Travel	330kgf/cm²
Swing Circuit	240 kgf/cm²
Pilot Circuit	35 kgf/cm²
Service valve	Installed

Coolant & Lubricant Capacity

REFILLING	LITRE
Fuel tank	250
Engine coolant	20
Engine oil	11.5
Swing device	2.5
Final drive (each)	2.5
Hydraulic system / Hydraulic tank	180 / 100

Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	10400 kgf
Max. travel speed (high/low)	5.5 kmph /3.4 kmph
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 underrcarriage includes lubricated rollers, idlers, track adjusters with shock absorbing spring and sprockets, and track chain wtth triple grouse shoes.

Centre frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	41
No. of carrier rollers each side	1
No. of track rollers. each side	6
No. of rail guard on each side	1

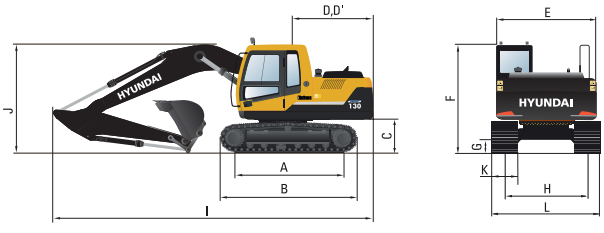
Swing System

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease bathed
Swing brake	Multi wet disc
Swing speed	12 rpm

Operating Weight

Shoe Width mm (in)	Operating weight kg (lb)	Ground pressure kgf/cm2 (psi)
500 mm (20")	12,100 (26,676)	0.35 (4.98)

Dimensions (mm)

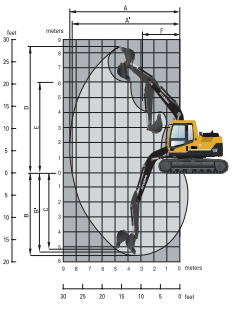


Dimensions mm

A	Tumbler distance	2610
B	Overall length of crawler	3340
C	Grand clearance of counterweight	900
D	Tall swing radius	2130
D'	Rear-end length	2110
E	Overall width of upperstructure	2475
F	Overall height of cab	2800
G	Min ground clearance	440
H	Track gauge	1990
I	Overall length of crawler	7240
J	Overal height of boom	2550
K	Track Shoe Width	500
L	Overall Width	2490

Working Ranges mm

Boom length (std.)		4300	
Arm length (std.)		*1960	2260
A	Maximun Digging Reach	7460	7740
A'	Digging Reach on Ground	7320	7610
B	Max Digging Depth	4770	5090
B'	Max- Digging Depth (8' level)	4510	4870
C	Vertical Wall Digging Depth	4070	4430
D	Maximum Digging Height	7900	8070
E	Maximum Dumping Height	5540	5710
F	Minimum Swing Radius	2340	2380



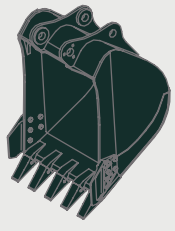
*Indicates standard configuration

Specifications

BUCKETS

All buckets are welded with high-strength steel.

GENERAL PURPOSE



*0.65m³ SAE heaped bucket

0.45m³ SAE heaped bucket

Capacity m³(yd³)		Width mm (in)		Weight. kg (lb)	Recommendation mm (ft -in)	
					4.3m (14' 1") Boom	
SAE heaped	CECE heaped	Without side cutters	With side cutters		1.9m (6' 5") Arm	2.2m (7' 5") Arm
* 0.65m³ (0.85yd³)	0.52m³ (0.68yd³)	1020mm (40.2")	1130mm (44.5")	531 kg (1171 lb)	■	▲
0.45m³ (0.93yd³)	0.40m³ (0.52yd³)	830mm (32.7")	940mm (37.0")	430 kg (940 lb)	●	●

* : Standard backhoe bucket

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

ATTACHMENT

Boom and arm are of all-welded full-box section design. 4.3m (14' 4") mono boom and 1.96 m (6'5"), 2.26m (7' 5") Arm is available. Buckets are all-welded, high-strength steel implements.

Arm	Length Weight	mm (ft.in) kg (lb)	*1,960 (6' 5") 320 (710)	2,260 (7' 5") 340 (750)
Bucket digging force	SAE	kN	78.5	78.5
		kgf	8,000	8,000
		lbf	17,640	17,640
	ISO	kN	90.2	90.2
		kgf	9,200	9,200
		lbf	20,280	20,280
Arm crowd force	SAE	kN	60.2	55.7
		kgf	6,140	5,680
		lbf	13,540	12,520
	ISO	kN	62.9	58.1
		kgf	6,410	5,920
		lbf	14,130	13,050

*: Standard Arm weight including cylinder and linkage

Lifting Capacities

LIFTING CAPACITIES R130 SMART

Rating over-front Rating over-side

- Boom: 4.3m (14'1") • Arm: 1.96m (6'5") • Bucket: 0.65m³ SAE Heaped
- 1600kg 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 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*1730	*1730			*1770	*1670	5.62
(20ft)	lb					*3810	*3810			*3900	3680	(18.4)
4.5m	kg					*1900	*1900			1570	1140	6.62
(15.0ft)	lb					*4190	*4190			3460	2510	(21.7)
3.0m	kg			*3110	*3110	*2360	2350	*1830	1340	1310	930	7.10
(10.0ft)	lb			*6860	*6860	*5220	5180	*4030	2950	2890	2050	(23.3)
1.5m	kg			*4890	4110	2890	2110	1740	1250	1240	870	7.18
(5.0ft)	lb			*10780	9060	6370	4650	3840	2760	2730	1920	(23.6
Ground Line	kg			5440	4750	2700	1940	1660	1180	1320	920	6.89
	lb			11990	8270	5950	4280	3660	3660	2910	2030	(22.6)
-1.5m	kg	*6140	*6140	5390	3700	2630	1870			1630	1160	6.15
(-5.0ft)	lb	*13540	*13540	11880	8160	5800	4120			3590	2560	(20.2)
-3.0m	kg	*9120	*9120	*5020	3830	2710	1940					
(-10.0ft)	lb	*20110	*20110	*11070	8440	5910	4280					

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 (standard equipment) located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

- Boom: 4.3m (14'1") • Arm: 2.26m (7'5") • Bucket: 0.60m³ SAE Heaped
- 1600kg 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 ft)		Capacity		Reach
												m (ft)
6.0m	kg					*1710	*1170			*1700	1520	5.99
(20ft)	lb					*3770	*3770			*3750	3350	(19.7)
4.5m	kg					*1740	*1740	*1490	1450	1480	1080	6.92
(15.0ft)	lb					*3840	*3840	*3280	3200	3260	2380	(22.7)
3.0m	kg			*2770	*2770	*2220	*2220	1900	1410	1260	900	7.38
(10.0ft)	lb			*6110	*6110	*4890	*4890	4190	3110	2780	1980	(24.2)
1.5m	kg			*4650	4330	*2920	2210	1800	1320	1190	840	7.46
(5.0ft)	lb			*10250	9550	*6440	4870	3970	2910	2620	1850	(24.5)
Ground Line	kg			5620	3910	2790	2020	1720	1240	1260	890	7.18
	lb			12390	8620	6150	4450	3790	2730	2780	1960	(23.6)
-1.5m	kg	*5620	*5620	5500	3810	2700	1940	1680	1200	1510	1080	6.49
(-5.0ft)	lb	*12390	*12390	12130	8400	5950	4280	3700	2650	3330	2380	(21.3)
-3.0m	kg	*8580	*8580	*5380	3880	2730	1960			*2220	1690	5.17
(-10.0ft)	lb	*18920	*18920	*11860	8550	6020	4320			*4890	3730	(17.0)

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3. The load point is a hook (standard equipment) located on the back of the bucket.
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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
- Lockable door
- 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
- 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

- Tool kit
- Door and cab locks, one key
- One outside rearview mirror
- Fully adjustable suspension seat
- Slidable joystick. pilot-operated
- Two front working lights and two cabin work lights
- Electric horn
- Batteries (2 x 12V x 72 AH)
- Battery master switch
- Rear open window
- Removable clean out screen for oil cooler
- Automatic swing brake
- Removable reservoir tank
- Fuel pre-filter
- Boom holding system
- Arm holding system
- Counter weight (1600kg)
- Standard bucket (0.65m^3, 0.85yd^3)
- Mono boom (4.3m, 14' 1")
- Arm (1.96m, 6' 5")
- Track shoes (500mm)
- Track rail guard
- Radio / USB player
- Operator kit
- Sun visor for cabin inside
- Remote management system (Hi-Track)

Optional Equipment

- Beacon lamp
- Single acting piping kit
- Cabin front protector

Optional Arms (SAE heaped)

- Arm (2.2 m)

Various optional Buckets (SAE heaped)

- General purpose bucket (0.45 m^3, 0.59 yd^3)
- Air-conditioner (5000kcal/hr, 20000 BTU/hr)

E mail: hyundai.care@theconnectionsindia.com
Toll Free No.: 1800 209 8600

www.hyundaiindia.net c @hceindia
t @hyceindia f /hyundaiindia.net/
i Hyundai Construction Equipment India Pvt Ltd

Plot No. A-2, M.I.D.C. Chakan, Phase II, Village: Khalumbre, Taluka: Khed, Dist: Pune-410501

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