

# R130 **SMART**

OPERATING WEIGHT: 12100 kgs

GROSS POWER : 94 HP @ 1950 rpm

BUCKET CAPACITY: 0.45 - 0.65m<sup>3</sup>



# 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
<b>H Mode</b>	<ul style="list-style-type: none"><li>• Uses 100% engine power for mass production</li></ul>
<b>S Mode</b>	<ul style="list-style-type: none"><li>• Uses 85% engine power for all work</li></ul>
<b>L Mode</b>	<ul style="list-style-type: none"><li>• Uses 70% of engine power for reduced fuel consumption</li></ul>
<b>Breaker Mode</b>	<ul style="list-style-type: none"><li>• Sets pump flow to optimal level and boosts efficiency</li></ul>

## EFFICIENT COMBINED OPERATION

Inbuilt 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



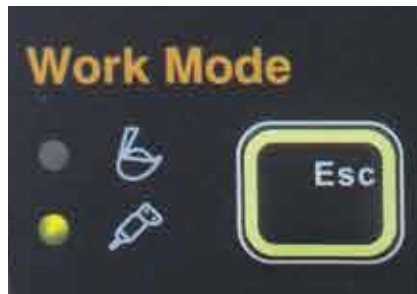
## ARM REGENERATION SYSTEM

- 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

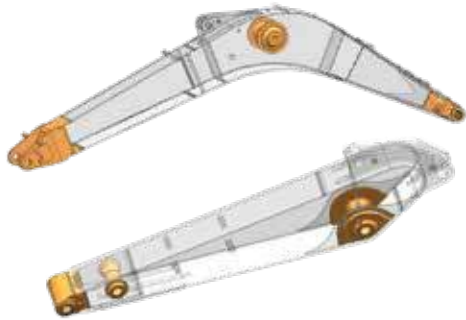
Ergonomically placed lever controls reduces fatigue over long working hours.

## 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 built 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 airborne 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.



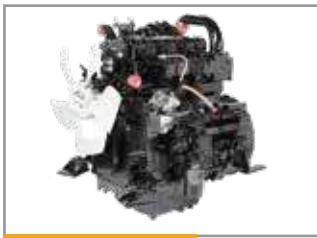
### BOOM & ARM HOLDING SYSTEM

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





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

## Engine

<b>Maker/Model</b>		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
<b>Max Torque</b>		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 circuit	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/cm <sup>2</sup>
Travel	330kgf/cm <sup>2</sup>
Swing Circuit	240 kgf/cm <sup>2</sup>
Pilot Circuit	35 kgf/cm <sup>2</sup>
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 undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing spring and sprockets, and track chain with 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

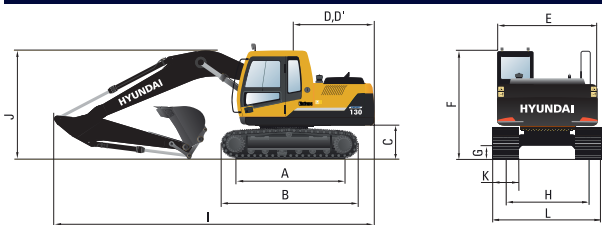
## Swing System

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/cm <sup>2</sup> (psi)
500 mm (20")	12,100 (26,676)	0.35 (4.98)

## Dimensions (mm)

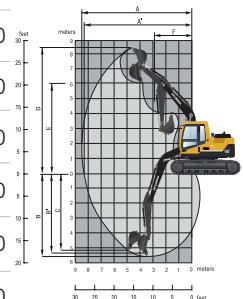


## Dimensions mm

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 Overall 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 Maximum 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

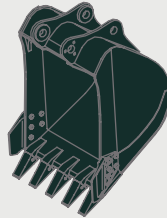


# Specifications

## BUCKETS

All buckets are welded with high-strength steel.

### GENERAL PURPOSE



\*0.65m<sup>3</sup>SAE heaped bucket

0.45m<sup>3</sup>SAE heaped bucket

Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight. kg (lb)	Recommendation mm (ft -in)	
SAE heaped	CECE heaped	Without side cutters	With side cutters		4.3m (14' 1") Boom	
				1.9m (6' 5") Arm	2.2m (7' 5") Arm	
* 0.65m <sup>3</sup> (0.85yd <sup>3</sup> )	0.52m <sup>3</sup> (0.68yd <sup>3</sup> )	1020mm (40.2")	1130mm (44.5")	531 kg (1171 lb)	■	▲
0.45m <sup>3</sup> (0.93yd <sup>3</sup> )	0.40m <sup>3</sup> (0.52yd <sup>3</sup> )	830mm (32.7")	940mm (37.0")	430 kg (940 lb)	●	●

\* : Standard backhoe bucket

- Applicable for materials with density of 2,000 kg/m<sup>3</sup> (3,370lb yd<sup>3</sup>) or less
- Applicable for materials with density of 1,600 kg/m<sup>3</sup> (2,700 lb/yd<sup>3</sup>) or less
- ▲ Applicable for materials with density of 1,100 kg/m<sup>3</sup> (1,850lb yd<sup>3</sup>) 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

<ul style="list-style-type: none"> <li>Boom: 4.3m (14'1") • Arm: 1.96m (6'5") • Bucket: 0.65m<sup>3</sup> SAE Heaped</li> <li>1600kg Counterweight</li> </ul>												
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 (20ft)	kg lb					*1730 *3810	*1730 *3810			*1770 *3900	*1670 3680	5.62 (18.4)
4.5m (15.0ft)	kg lb					*1900 *4190	*1900 *4190			1570 3460	1140 2510	6.62 (21.7)
3.0m (10.0ft)	kg lb			*3110 *6860	*3110 *6860	*2360 *5220	2350 5180	*1830 *4030	1340 2950	1310 2890	930 2050	7.10 (23.3)
1.5m (5.0ft)	kg lb			*4890 *10780	4110 9060	2890 6370	2110 4650	1740 3840	1250 2760	1240 2730	870 1920	7.18 (23.6)
Ground Line	kg lb			5440 11990	4750 8270	2700 5950	1940 4280	1660 3660	1180 3660	1320 2910	920 2030	6.89 (22.6)
-1.5m (-5.0ft)	kg lb	*6140 *13540	*6140 *13540	5390 11880	3700 8160	2630 5800	1870 4120			1630 3590	1160 2560	6.15 (20.2)
-3.0m (-10.0ft)	kg lb	*9120 *20110	*9120 *20110	*5020 *11070	3830 8440	2710 5910	1940 4280					

- Lifting capacity is based on SAE J1097, ISO 10567.
- 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.
- The load point is a hook (standard equipment) located on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.

<ul style="list-style-type: none"> <li>Boom: 4.3m (14'1") • Arm: 2.26m (7'5") • Bucket: 0.60m<sup>3</sup> SAE Heaped</li> <li>1600kg Counterweight</li> </ul>												
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 (20ft)	kg lb					*1710 *3770	*1170 *3770			*1700 *3750	1520 3350	5.99 (19.7)
4.5m (15.0ft)	kg lb					*1740 *3840	*1740 *3840	*1490 *3280	1450 3200	1480 3260	1080 2380	6.92 (22.7)
3.0m (10.0ft)	kg lb			*2770 *6110	*2770 *6110	*2220 *4890	*2220 *4890	1900 4190	1410 3110	1260 2780	900 1980	7.38 (24.2)
1.5m (5.0ft)	kg lb			*4650 *10250	4330 9550	*2920 *6440	2210 4870	1800 3970	1320 2910	1190 2620	840 1850	7.46 (24.5)
Ground Line	kg lb			5620 12390	3910 8620	2790 6150	2020 4450	1720 3790	1240 2730	1260 2780	890 1960	7.18 (23.6)
-1.5m (-5.0ft)	kg lb	*5620 *12390	*5620 *12390	5500 12130	3810 8400	2700 5950	1940 4280	1680 3700	1200 2650	1510 3330	1080 2380	6.49 (21.3)
-3.0m (-10.0ft)	kg lb	*8580 *18920	*8580 *18920	*5380 *11860	3880 8550	2730 6020	1960 4320			*2220 *4890	1690 3730	5.17 (17.0)

- Lifting capacity is based on SAE J1097, ISO 10567.
- 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.
- The load point is a hook (standard equipment) located on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.



# 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<sup>3</sup>, 0.85yd<sup>3</sup>)  
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<sup>3</sup>, 0.59 yd<sup>3</sup>)  
Air-conditioner (5000kcal/hr, 20000 BTU/hr)

