





R85A SMART

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

- Electro mechanical control system
- One touch deceleration
- Auto deceleration system
- Efficient breaker mode



DESIGNED FOR SMART WORK



Increased Machine Durability

- Strengthened undercarriage
- Proven upper structure
- Durable parts
- 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 improve to performance and precision, make the Hyundai excavator smooth, fast and easy to control. Take pride in your work with Hyundai!



The 76 HP, Kirloskar 4R1040NA engine is built for power, reliability, efficiency to delivers high perfromance and low fuel consumption.









ADVANCED 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.

POWER MODE

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

IMPROVED SWING TORQUE & DUAL TRAVEL SPEED

10% increase in swing torque & efficient travel system improves overall cycle time.



BEST IN CLASS DIGGING FORCES

Higher output even in tough working condition

- Bucket 5200 kgf
- Arm 4000 kgf



AUTO KICK DOWN FUNCTION & MAX TRACTION FORCE

Results in excellent maneuverability and climbing performance

• Drawbar Pull - 5900 kgf



Fuel Efficiency



IMPROVED FUEL EFFICIENCY

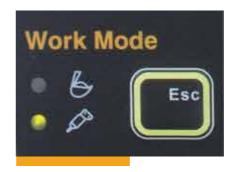
- Improved MCU with auto deceleration function
- Advanced hydraulics
- Increased return line diameter by 3/4 "





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



LARGE DIAMETER RETURN HOSES

Improve hydraulic performance for smooth loading operation & improved cycle time

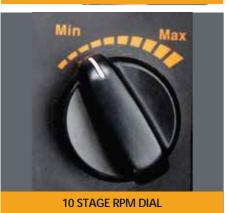


Operator Comfort



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

CABIN FAN







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



MODERN INSTRUMENT PANEL

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



TRAVEL PEDAL

- Rubber coated travel pedal
- Added Foot rest





DURABLE FRONT STRUCTURE

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



RUGGED UNDERCARRIAGE

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



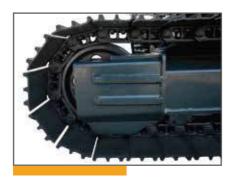
BALANCED SWING SYSTEM

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



RELIABLE ELECTRICALS

- Dust and water proof connectors
- Longer component life



CASTED IDLER

Built to withstand high shock & impact load



BELLY GUARD

Additional protection from external damage



TRACK LINK

Thicker track link for longer life



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





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



FULLY OPENING ENGINE HOOD

Fully openable engine hood makes daily service checks easier even from the ground



SAFETY - MORE THAN A PEACE OF MIND AND OPERATOR 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



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



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







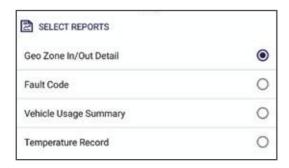
Our unique remote management system allows customers to access machine operating information & obtain service & maintenance alerts at the touch of a button





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 4R1040NA	
Rated flywheel horse power	SAE	J1995 (Gross) J1349 (Net)	76 HP (56.7 kW) @ 2200 rpm 73 HP (54.4 kW) @ 2200 rpm 77 PS (56.7 kW) @ 2200 rpm 74 PS (54.4 kW) @ 2000 rpm	
		6271/1 (Gross) 6271/1 (Net)		

Max Torque 29.5 kgf.m (214 lbf.ft) @ 1320 rpm

Hydraulic System

Main pump	
Туре	Two variable displacement piston pumps
Max. flow	2 x 75.6 lpm
Sub-pump for pilot ciruit	Gear pump
Cross-sensing & fuel saving	g pump system
Hydraulic motors	
Travel	Two speed axial piston motor with

Travel	counter balance valve and pairing brake
Swing	Axial piston motor with automatic brake
Relief valve settings	
Implement circuits	280 kgf/cm²
Travel	290 kaf/cm²

Travel280 kgf/cm²Swing Circuit210 kgf/cm²Pilot Circuit35 kgf/cm²Service valveInstalled

Coolant & Lubricant Capacity

REFILLING	LITRE
Fuel tank	135
Engine coolant	10.8
Engine oil	11.5
Swing device-gear oil	1.5
Final drive (each)	1.2
Hydraulic system / Hydraulic tank	130 / 75

Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	5900 kgf (13,000 lbf)
Max. travel speed (high/low)	4.8 kmph (3 mph) / 3.0 kmph (1.9 mph)
Gradeability	35 Degree (70%)
Parking brake	Multi wet disc

Undercarriage

The X-leg type center 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 grouser shoes.

Centre frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	38
No. of carrier rollers each side	1
No. of track rollers. each side	5
No. of rail guard 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	12.0 rpm

Operating Weight				
Shoe Width mm (in)	Operating weight kg (lb)	Ground pressure kgf/cm2 (psi)		
450 mm (18")	8,000 (17,637)	0.26 (3.70)		

Dimensions mm Tail swing radius 1750 Rear-end length 1727 Overall height of boom 2750 C Overall length 6080 D Ground clearance of blade up 400 Ε Depth of blade down 280 F 760 Ground clearance of counterweight Tumbler distance 2130 Length of lower blade with dozer blade 3340 Min. ground clearance 360 Track shoe width 450

1750

2260

2640

Working Ranges mm

Overall height of cabin

Overall width of upperstructure

Track gauge

V۱	vorking hanges	1111111
	Boom length (std.)	3,700
	Arm length (std.)	1,670
Α	Maximun Digging Reach	6,330
A'	Digging Reach on Ground	6,190
В	Max Digging Depth	4,150
B'	Max- Digging Depth (8' level)	3,810
C	Vertical Digging Depth	3,200
D	Maximum Digging Height	7,260
Е	Maximum Dumping Height	5,170
F	Minimum Swing Radius	1,750



LIFTING CAPACITIES R85A SMART



• Boom: 3.7m (12'2")	• Arm: 1.67m (5'6")	• Bucket: 0.35m³ (0.42	vd³) SAF Heaped
• DOOM: 3.7111 (12 2)	• / IIIII. 1.0/111 (5 0)	Ducket. 0.33111 (0.12)	ya / J/L Heapea

٠	Shoe: 450mm	(18") triple grouser	dozer blade down with	400ka (890lb) Counterv	voight
ч	Snoe: 450mm	1 (18) trible arouser.	. dozer biade down with	i 400ka (890ib) Counterv	velani

		Load radius						At max. reach			
Load point height		1.5 m (5.0 ft)		3 m (10.0 ft)		4.5 m (15.0 ft)		Capacity		Reach	
m (ft)										m (ft)	
4.5m	kg			*1800	*1800			*1680	1090	5.06	
(15.0ft)	lb			*3970	*3970			*3700	2400	(16.6)	
3.0m	kg	*3890	*3890	*2370	*2370	*1930	1300	*1710	820	5.75	
(10.0ft)	lb	*8580	*8580	*5220	*5220	*4250	2870	*3770	1810	(18.9)	
1.5m	kg			*3330	2350	*2230	1210	*1760	740	5.95	
(5.0ft)	lb			*7340	5180	*4920	2670	*3880	1630	(19.5)	
Ground	kg			*3820	2160	*2430	1140	*1810	770	5.70	
Line	lb			*8420	4760	*5360	2510	*3990	1700	(18.7)	
-1.5m	kg	*4810	*4810	*3580	2130	*2230	1120	*1790	990	4.93	
(-5.0ft)	lb	*10600	*10600	*7890	4700	*4320	2470	*3950	2180	(16.2)	
-3.0m	kg	*4000	*4000	*2360	2220						
(-10.0ft)	lb	*8820	*8820	*5200	4980						

- 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.





BUCKETS

All buckets are welded with high-strength steel.





Capacity	Capacity m³(yd³)		Width mm (in)		Recommendation mm (ft -in)	
	· · · ·				3.70m (12' 2") Boom	
SAE heaped	CECE heaped	Without side cutters	With side cutters		1.67m (5' 6") Arm	
* 0.32m³(0.42yd³)GP	0.27m³(0.35yd³)	754 (30")	900 (35")	317 (699)	•	
● 0.32m³(0.38yd³)HD	0.27m³(0.35yd³)	720 (28.3")	815 (32.1")	313 (690)		
* 0.35m³(0.42yd³)GP	0.29m³(0.38yd³)	754 (30")	900 (35")	330 (728)	A	
* : Standard backhoe bucket • : Heavy Duty bucket			■ Applicable for materials with density of 1,600 kg/m³ (2,700lb yd³)or less ▲ Applicable for materials with density of 1,100 kg/m³ (1,850 lb/yd³) or less			

ATTACHMENT

Boom and arm are of all-welded with a low-stress, full-box section design. 3.70m (12'2") mono boom and 1.67m (5'6") Arm is available. Buckets are all-welded, high-strength steel implements.

Arm	Length Weight	mm (ft.in) kg (lb)	*1,670 (5' 6") 310 (680)
	SAE	kN	44.1
Bucket digging force		kgf	4,500
		lbf	9,920
	ISO	kN	51.0
		kgf	5,200
		lbf	11,460
	SAE	kN	38.2
		kgf	3900
Arm crowd force		lbf	8600
	ISO	kN	39.2
		kgf	4000
		lbf	8820

 $[\]ensuremath{^{*:}}$ Standard arm weight including cylinder and linkage



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

Door and Cab locks, One key

Operators seat

Slidable joystick, pilot operated

Self diagnostic system

Centralized monitoring

Fuel level gauge

Engine coolant temperature gauge

Hydraulic oil temperature gauge

Sun visor for cabin inside

Warning

Engine coolant & fuel level

Engine oil pressure

Engine coolant temperature

Hyd. oil temperature

Low battery

Air cleaner clogging

Counterweight (400kg, 882lb)

Mono boom (3.7m, 12'2")

Arm (1.67m, 5' 6")

Standard bucket (0.35m³, 0.42yd³)

Track shoes (450m, 18")

Track rail guard

Lower frame under cover

Operator kit

Tool kit

Remote management system (Hi-Track)

Optional Equipment

Beacon lamp

Single acting piping kit

Travel alarm

Operator seat belt

Fire extinguisher

Track shoes (600mm, 24")

HD bucket (0.32m³, 0.38yd³)

General purpose bucket (0.32m³, 0.42yd³)

Salt bucket (0.70m³, 0.84yd³)



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