

STANDARD / OPTIONAL LIST

R145L QUARRY SMART PLUS

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
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-overheat Prevention System
Self Diagnostic System
Centralized Monitoring
LCD Display
Engine Speed
Clock and Error Code
Mobile Charging Point
Fuel Level Indicator
Engine Coolant Temperature Indicator
Hyd. oil Temperature Indicator

Warning

Fuel Level
Engine Oil Pressure
Engine Coolant Temperature
Hyd. Oil Temperature
Low Battery
Air Cleaner Clogging
Tool Kit
Door, Cab Locks & One Key
Fully Adjustable Suspension Seat
Pilot-operated Joystick
Two Front Working Lights and Two Cabin Work Lights
Electric Horn
Batteries (2 x 12V x 72 AH)
Battery Master Switch
Removable Clean Out Screen for Oil Cooler
24V Power Socket
Automatic Swing Brake
Removable Reservoir Tank
Fuel Pre-filter

Boom Holding System
Arm Holding System
Counter Weight (2500kg)
HD Mono Boom (4.6m, 15' 1")
HD Arm (2.1m, 6' 11")
Track Shoes (500mm) (10 mm Thickness)
FM Radio/USB player
Cabin Front Glass Protector
Track Rail Guard
Operator Kit
Cabin Lights
Heavy-duty Bucket (0.65m³)
Air Pre-cleaner
Remote Management System (Hi-track)

Optional Equipment

Single Acting Piping Kit
Travel Alarm
Beacon Lamp
Cabin Fan
Rock Breaker
Cabin Top Guard



* Design aesthetics & features may vary from actual

HD Construction Equipment India Pvt. Ltd.

Factory Location

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

Scan the QR code
with your phone
camera & visit



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OPERATING WEIGHT : 15040 kg

GROSS POWER 105 HP @ 2200 rpm

BUCKET CAPACITY : 0.65 HD

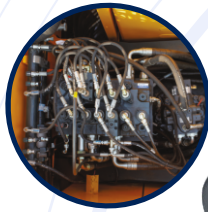
HD CONSTRUCTION EQUIPMENT | INDIA

DESIGNED FOR SMART WORK

R145L QUARRY **SMART** *plus*

BEST-IN-CLASS PERFORMANCE

- Advanced CAPO System
- Hydraulic Flow Summation
- Swing Priority
- Regeneration System
- Excellent Digging Forces
- Air Pre-cleaner



OPERATOR COMFORT

- Spacious AC Cabin
- Multi Adjustable Premium Seat
- Enhanced Visibility
- 7" Intelligent Display
- Front Cabin Guard



IMPROVED FUEL EFFICIENCY

- Electro-hydraulic Control System
- Auto-deceleration System
- Breaker Mode for Enhanced Efficiency
- Fuel Saving Kit



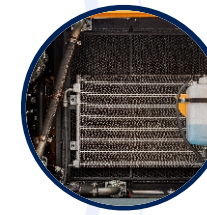
ENHANCED MACHINE DURABILITY

- Longest Undercarriage in Class
- Proven and Durable Structure
- Heavy-duty Boom & Arm
- Heavy-duty Undercarriage



SIMPLIFIED MAINTENANCE

- Easy Serviceability
- Extended Maintenance Interval
- Low Life Cycle Cost
- Bigger Size Radiator for Higher Cooling Efficiency



PARTS & SUPPORT

- Hyundai Genuine Parts
- Max Parts Availability
- On-site Product Support
- Remote Management System (Hi-Track)



PERFORMANCE

USER ADVANTAGES

Lower fuel and oil consumption as compared to other engines in this class.

Components like fuel pump, lube oil and lube oil filters on one side of the machine helps for easy maintenance.

Highly acceptable Kirloskar engine with easy parts availability.

HEAVY-DUTY ATTACHMENTS

Designed to meet demanding quarry application.



ENGINE

The four cylinder, turbocharged, water cooled diesel engine is built for heavy operation, maximum economy & reliability. The power units are produced to meet the high precision and quality standards.

R145L QUARRY **SMART PLUS**



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.



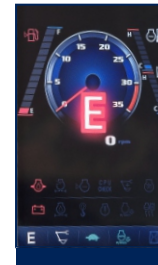
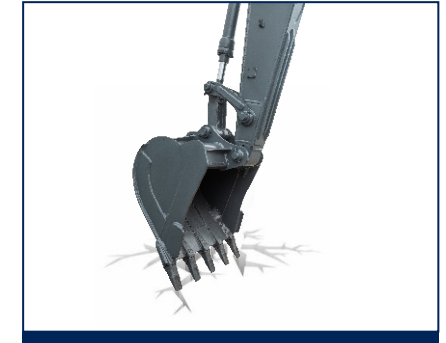
CHOICE OF OPERATING MODE

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

EXCELLENT DIGGING FORCES

Higher output even in tough working condition

- Bucket -10290kgf
- Arm -7510 kgf



SWING PRIORITY

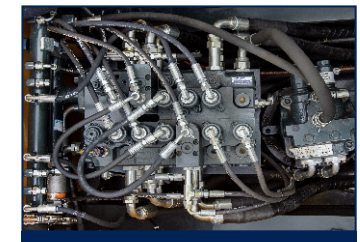
- Boost higher hydraulic flow to swing system
- Improved cycle time.



AIR PRE-CLEANER

REDESIGNED MCV

- Redesigned wider oil galleries
- Quick response and better power output

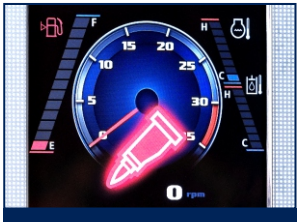


FUEL EFFICIENCY



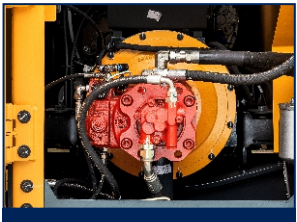
IMPROVED FUEL EFFICIENCY

New CMCU with auto deceleration function, Advanced CAPO system, Power & working mode options and Fuel saving kit results in excellent fuel efficiency.



EXCLUSIVE BREAKER MODE

Excellent fuel saving due to exclusive power for breaker operation



PUMP FLOW CONTROL SYSTEM

Reduced pump flow during machine idle condition to minimize power loss.



ONE TOUCH IDLE & AUTO DECELERATION

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

ARM REGENERATION SYSTEM

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



OPERATOR COMFORT

COMFORTABLE OPERATOR ENVIRONMENT

The ergonomically placed control levers and seat can be adjusted to provide maximum operator comfort.

The seat is fully adjustable for optimum operating position, reducing operator fatigue.

360 degree visibility for better and safe operations.



AIR CONDITIONING SYSTEM



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

Operator comfort results in increased productivity

OTHER FEATURES



MP3/USB PLAYER WITH REMOTE



SUNROOF WITH HINGED COVER

MULTI ADJUSTMENT SEAT



10 STAGE RPM DIAL



CABIN TOP LIGHT
CABIN FRONT PROTECTOR



RUBBER COATED TRAVEL PEDAL,
MOBILE HOLDER, CHARGING SOCKET

INSTRUMENT PANEL

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

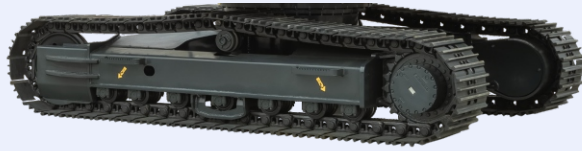
- Hydraulic oil temperature,
- Coolant temperature
- Fuel level
- Self diagnostic checks
- Maintenance management

to optimizing productivity needs ensuring fuel efficiency

RELIABILITY

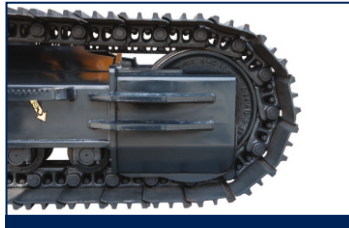
STRONG & STABLE LOWER FRAME

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



HD FRONT STRUCTURE

- Thicker plates
- Casted component
- Internal baffle plate
- Added wear plates on arm
- Bucket pin direction change for operator visibility

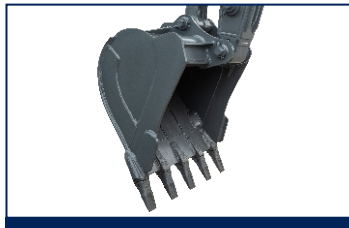


REINFORCED IDLER GUIDE AREA



RUGGED UNDERCARRIAGE

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



HEAVY DUTY BUCKET



RELIABLE COMPONENTS

Swing system and travel system exclusively designed by Hyundai ensuring reliable performance.



TRACK LINKS



BELLY GUARD



RELIABLE ELECTRICALS

- Dust and water proof connectors
- Longer component life

SERVICEABILITY

EASY ACCESSIBILITY

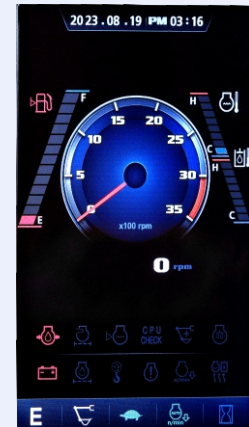
Easy access for maintenance means regular checks get done faster. Hyundai's SMART PLUS machines feature easy service access to increase uptime to reduce operating costs.

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



LARGE LCD MONITOR

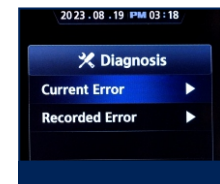
Operator can check the machine's vital signs without any difficulties

- **Self Diagnostic**
Reduces down time
- **Maintenance Management**
Proactive maintenance
- **Warning Indicator**
Ensures safe working

MAINTENANCE MANAGEMENT

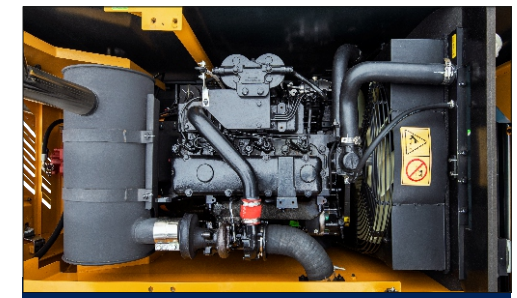


SELF DIAGNOSTIC SYSTEM



EASY ENGINE MAINTENANCE

- Redesigned Radiator- Oil cooler assembly. Bigger size radiator for higher cooling efficiency
- Longer engine & hydraulic component life
- Servicing the engine and the hydraulics has been considerably simplified



SAFETY

SAFETY - PEACE OF MIND AND OPERATOR CONFIDENCE

Cabin is integrally welded with 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 PREVENTION



BATTERY DISCONNECT SWITCH



AIR BREATHER GUARD



UPPER UNDER COVER

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.

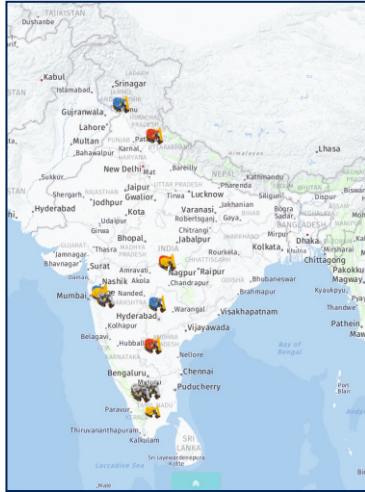


BENEFITS OF USING GENUINE HYUNDAI PARTS AND LUBRICANTS

- 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.

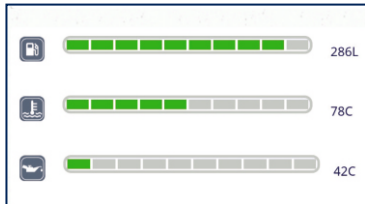


INCREASED PRODUCTIVITY

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 dock and on the move access to your machine information through the website or mobile app.



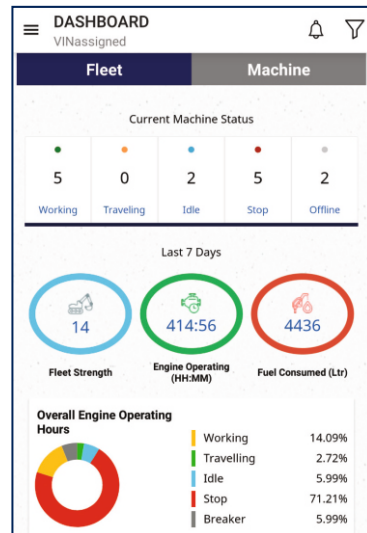
PROACTIVE MAINTENANCE

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	☒
Fault Code	☐
Vehicle Usage Summary	☐
Temperature Record	☐

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

Maker/Model		Kirloskar4R1040T
Rated flywheel horse power	ISO3046 (Gross)	105HP@ 2200rpm
Max Torque		37.5@ 1500rpm

Hydraulic System

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2x112 lpm
Sub-pump for pilot circuit	Gear pump
Cross-sensing & fuel saving pump system	

Hydraulic Motors

Travel	Two speed axial piston motor with brake 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	285kgf/cm ²
Pilot Circuit	40kgf/cm ²
Service valve	Installed

Coolant & Lubricant Capacity

REFILLING	LITER
Fuel tank	270
Engine coolant	22
Engine oil	11.5
Swing device	2.5
Final drive (each)	3
Hydraulic system / Hydraulic tank	210 / 124

Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Traction Force	13300 kgf (130KN)
Max.travel speed (high/low)	5.5kmph/3.2kmph
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 under carriage 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	46
No. of carrier rollers each side	1
No. of track rollers, each side	7
No. of rail guard each side	1

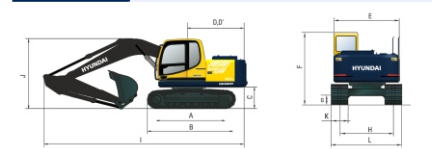
Swing System

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/cm ²
500 mm (20")	15,040 (33,157)	0.45

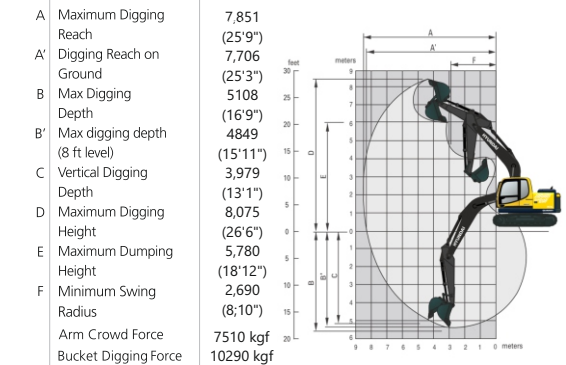
Dimensions



	mm	(ft-in)
A Tumbler distance	3000	9'10"
B Overall distance of crawler	3750	12'4"
C Ground clearance counter weight	940	3'1"
D Tail swing radius	2350	7'8"
D' Rear end length	2350	7'8"
E Overall width of upper structure	2475	8'1"
F Overall height of the cab	2860	9'4"
G Min. ground clearance	440	1'5"
H Track Gauge	2000	6'7"
I Overall length	7870	25'10"
J Overall height of boom	2760	9'1"
K Track shoe width	500	1'8"
L Overall width	2500	8'2"

Working Ranges

Boom Length : 4600 mm	Arm Length : 2100 mm
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* Standard Configuration

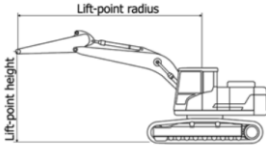
LIFTING CAPACITIES

LIFTING CAPACITIES R145L SMART PLUS

● Boom: 4.6m (15'1") ● Arm: 2.1m (6'11")
● Track Shoe: 500mm (24") triple grouser with 2500 Kg Counter Weight

Lift-point height (m/ft)		Lift-point radius								At max. reach		
		1.5m (4.9 ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity		Reach
												m(ft)
6.0m	kg					*3,590	*3,590			*3,260	*3,260	4.85
19.7ft	lb					*7,910	*7,910			*7,190	*7,190	(15.9)
4.5m	kg					*3,700	*3,700			*2,980	2,570	5.93
14.8ft	lb					*8,160	*8,160			*6,570	5,670	(19.5)
3.0m	kg			*6,420	*6,420	*4,480	3,850	3,680	2,470	*2,970	2,160	6.49
9.8ft	lb			*14,150	*14,150	*9,880	8,490	8,110	5,450	*6,550	4,760	(21.3)
1.5m	kg					*5,430	3,590	3,570	2,370	3,040	2,020	6.67
4.9ft	lb					*11,970	7,910	7,870	5,220	6,700	4,450	(21.9)
0.0m	kg			*5,480	*5,480	5,380	3,420	3,490	2,290	3,110	2,050	6.50
0.0ft	lb			*12,080	*12,080	11,860	7,540	7,690	5,050	6,860	4,520	(21.3)
-1.5m	kg	*4,750	*4,750	*9,030	6,250	5,330	3,380			3,530	2,320	5.94
-4.9ft	lb	*10,470	*10,470	*19,910	13,780	11,750	7,450			7,780	5,110	(19.5)
-3.0m	kg			*7,610	6,410	*5,090	3,470			*4,490	3,120	4.87
-9.8ft	lb			*16,780	14,130	*11,220	7,650			*9,900	6,880	(16.0)

1. Lifting capacity are based on ISO 10567.
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
4. (*) indicates load limited by hydraulic capacity.



SPECIFICATIONS

BUCKETS

All buckets are welded with high-strength steel.

HEAVY-DUTY

Capacity m³			Width mm (in)		Weight	Tooth	Recommendation
							4600 mm Boom
Type	SAE heaped	CECE heaped	Without side cutters	With side cutters	Kg	EA	2100 mm Arm
HD	0.65 m³	0.55 m³	1110	1210	571	5	●

- : Applicable for materials with density of ≤ 2,000 Kg/m³
- : Applicable for materials with density of ≤ 1,600 Kg/m³
- ▲ : Applicable for materials with density of ≤ 1,100 Kg/m³

ATTACHMENT

Boom and arm are welded with a low-stress, full-box section design. 4.6m (15' 1") mono Boom and 2.1m (6' 11"), Arm is available. Buckets are all-welded, high-strength steel implements.

DIGGING FORCE

Arm	Length	mm (ft.in)	*2100 (6'11")
Bucket Digging Force	SAE	kN	86.9
		kgf	8860
		lbf	19540
	ISO	kN	101
		kgf	10290
		lbf	22690
Arm Crowd Force	SAE	kN	70.7
		kgf	7210
		lbf	15890
	ISO	kN	73.7
		kgf	7510
		lbf	16550

*Standard arm