HYUNDAI
CONSTRUCTION EQUIPMENT
INDIA

R340L SMART

OPERATING WEIGHT: 33800 kgs

GROSS POWER : 276 HP @ 1900 rpm

BUCKET CAPACITY: 1.44 - 2.1m^3

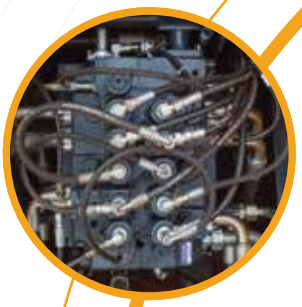
MOVING YOU FURTHER

*Design, aesthetics & features may vary from actual

R340L 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

- Fuel saving kit
- Electro hydraulic system
- Deceleration system
- Efficient breaker mode

DESIGNED FOR SMART WORK

Increased Machine Durability

- Strengthened undercarriage
- Proven upper structure
- Durable parts
- Heavy duty 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 to improve performance and precision, make the Hyundai excavator smooth, fast and easy to control.

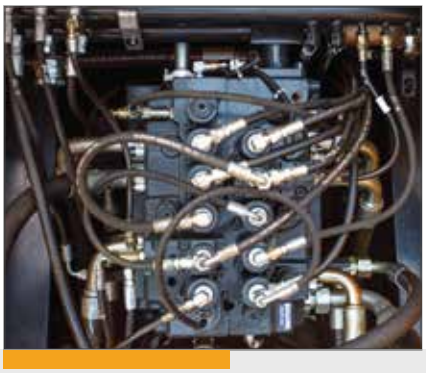
Take pride in your work with Hyundai!

ENGINE

The water cooled, 4 cycle diesel, 6 cylinder in line, direct injection turbocharged, charge air cooled engine is built for power, reliability, efficiency and reduced emissions.

The engine is manufactured to perform in wide range of heat, humidity and dust conditions without compromising productivity.

R340L SMART



HYDRAULIC SYSTEM

Electro hydraulic control system provides wide range of flow at various workloads for paramount productivity. Open center design of Main Control Valve (MCV) ensures fast response and maximum efficiency in tough conditions.

CHOICE OF OPERATING MODE

Working Mode	Advantage
Power mode	• **H Mode** - Max speed & Power for mass production • **S Mode** - Fixed RPM for optimum performance & fuel economy
Work Mode	• **Heavy Duty Work Mode** modifies power to meet higher productivity level • **General Work Mode** is selected automatically for conventional loading operation • **Breaker Operation Mode** sets the pump flow to the optimal level and boosts efficiency
User Mode	• **M mode**: Maximum power mode is selected to meet extreme duty operation • **U mode**: Used to Memorize Operator's Preferable Power Setting

MAX DRAWBAR PULL

Excellent maneuvarability, slope climbing performance and ability to change direction smoothly.

- **Tractive Force : 28500 kgf**

POWER BOOST SYSTEM

Increased digging forces by 10% then normal system pressure for short duration.

- **Bucket - 23000 (25050) kgf**
- **Arm - 16600 (18080) kgf**

RELIABLE FILTRATION SYSTEM

Removes water and contaminants in the fuel to ensure clean fuel flow.

EFFICIENT COMBINED OPERATION

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

SWING PRIORITY

Swing priority spool is auto piloted which boosts higher hydraulic energy to swing circuitry. This leads to faster swing cycle which in turn results in more output & better performance.

Fuel Efficiency

IMPROVED FUEL EFFICIENCY

Advanced CAPO system, newly designed CMCU, power & working mode options results in excellent fuel efficiency.

FUEL SAVING KIT

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

NEGATIVE FLOW CONTROL

Optimum balance between pump and engine output for better fuel efficiency

ONE TOUCH IDLE

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

AUTO DECELERATION SYSTEM

Moderates engine RPM to idle state when machine remains idle for 4 seconds to reduce fuel consumption and operation cost

EXCLUSIVE BREAKER MODE

Excellent fuel saving due to exclusive power for breaker operation

ARM REGENERATION SYSTEM

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

Operator Cabin

OPERATOR DELIGHT

More space, better visibility, powerful air-conditioning and adjustable fully suspension seat, easy to access controls ensure that the operator can work for longer hours without stress or fatigue in the comfortable and safe working environment.

SPACIOUS CABIN

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

OPERATOR SEAT

Easily adjustable fully suspension seat with adjustable arm rest

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

INSTRUMENT PANEL

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

- Hydraulic oil temperature,
- Coolant temperature
- Fuel level
- 12 warning indicators.
- Self diagnostic checks
- Maintenance management

to optimizing productivity needs ensuring fuel efficiency

AIR CONDITIONER

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

SMOOTH LEVER CONTROLS

Ergonomically placed lever controls reduces fatigue over long working hours.

Reliability

RUGGED UNDERCARRIAGE

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

GP BUCKET

- Features high tensile strength steel with internal reinforcements
- Specially designed for light duty to moderate application
- Excellent for earthwork cutting & loading operation

ROCK BUCKET

- Wear resistant special alloy steel added to blade & side attack plates
- Heavy duty reinforcement added to inner & outer body
- Excellent for stone Quarry or application featuring high abrasion & impact.

MARBLE BUCKET

- Wear resistant special alloy steel added to blade & side attack plates
- Additional thicker reinforcement plates & lateral plate on cutting edge section
- Special profile to handle Marble & Granite boulders

HEAVY DUTY FRONT STRUCTURE

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

AIR PRE-CLEANER

- Removes dirt and Debris from air before entering air filter
- Improves air filter life
- Low maintenance cost

RELIABLE ELECTRICALS

- Dust and water proof connectors
- Longer component life

BALANCED SWING SYSTEM

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

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

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	250 hrs
Engine Filter	250 hrs

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

IMPROVED COOLING EFFICIENCY

- Radiator and oil cooler are arranged in line to maximize efficiency
- Easily accessible from ground level to clean

DURABLE MOUNTING PIN BUSH

EASY ACCESSIBILITY

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

Safety

SAFETY - MORE THAN A PEACE OF MIND. TOTAL CONFIDENCE.

Cabin is integrally welded with low-stress 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

LOWER BELLY GUARD

TANK SAFETY 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?

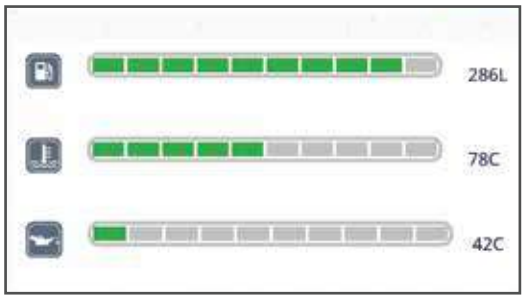
Maximize profits and extend your machine's life.

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

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

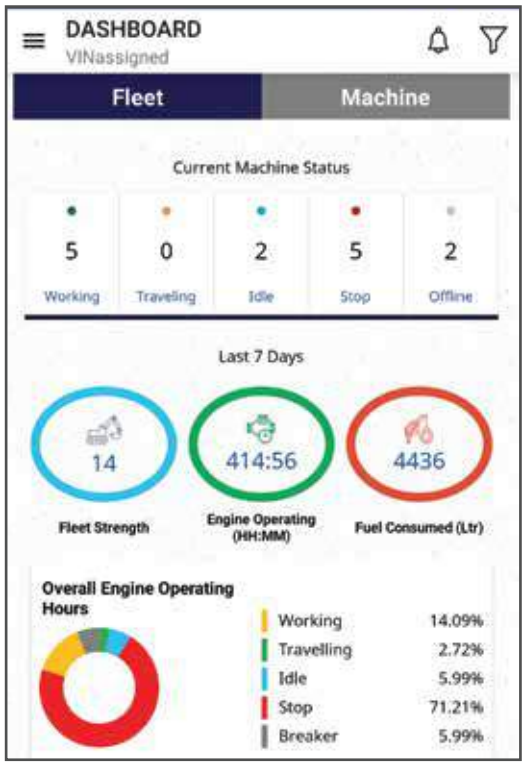
Get notified of system alarms & protect your machine from critical faults & experience repairs.

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			HYUNDAI D6AC-C1
Rated flywheel horse power	SAE	J1995 (Gross) J1349 (Net)	276HP (206KW) @1900rpm 271HP (202KW) @1900rpm
Max Torque			120.0Kgfm(868 lbf.ft)@1400rpm

Hydraulic System

Main pump

Type	Two variable displacement piston pumps
Max. flow	2x260 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 parking brake
Swing	Axial piston motor with automatic brake

Relief valve settings

Implement circuits	330kgf/cm²
Travel	330kgf/cm²
Power Boost	360kgf/cm²
Swing Circuit	265kgf/cm²
Pilot Circuit	35kgf/cm²
Service valve	Installed

Coolant & Lubricant Capacity

REFILLING	LITRE
Fuel tank	570
Engine coolant	45
Engine oil	27.3
Swing device-gear oil	11
Final drive (each)	5.5
Hydraulic system / Hydraulic tank	380/210

Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	28,500kgf(62830 lbf)
Max. travel speed (high/low)	5.4 kmph/3.2kmph
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	48
No. of carrier rollers each side	2
No. of track guard each side	9
No. of rail guard each side	3

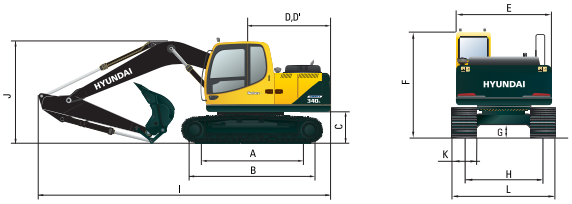
Swing System

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease bathed
Swing brake	Multi wet disc
Swing speed	9.5 rpm

Operating Weight

Shoe Width mm (in)	Operating weight kg (lb)	Ground pressure kgf/cm2 (psi)
600 mm (24")	33,800 (74,516)	0.65 (9.24)

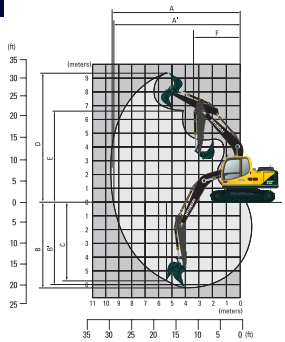
Dimensions (mm)



A	Tumbler distance		4030
B	Overall length of crawler		4940
C	Ground clearance of counter weight		1200
D	Tail swing radius		3460
D'	Rear-end length		3400
E	Overall width of upper structure		2980
F	Overall height of cab		3090
G	Min. ground clearance		500
H	Track gauge		2680
I	Overall length	2.2 m ARM	11310
		2.65 m ARM	11200
J	Overall height of boom		3420
K	Track shoe width		600
L	Overall width		3280

Working Ranges | (mm)

	Boom length (std.)	6450	
	Arm length (std.)	2200	*2650
A	Maximun Digging Reach.	10210	10710
A'	Digging Reach on Ground.	10010	10580
B	Max Digging Depth	6305	6820
B'	Max- Digging Depth (8' level).	6110	6650
C	Vertical Digging Depth	5110	6320
D	Maximum Digging Height	9830	10190
E	Maximum Dumping Height.	6840	7120
F	Minimum Swing Radius.	4840	4620



Bucket Digging Force	23000kgf
Arm Crowd Force	16600kgf

Lifting Capacities

LIFTING CAPACITIES 340L SMART

Rating over-front Rating over-side

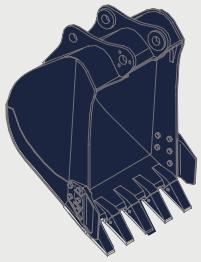
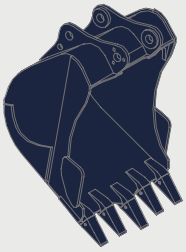
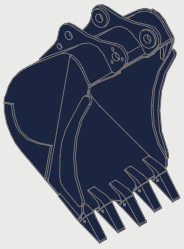
6.45 m (21 '2") boom, 2.65 m (8'8") arm equipped with 2.1m³ SAE heaped bucket and 600 mm (24") triple grouser shoe														
Load point height m (ft)		Load radius										At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0ft)		Capacity		Reach
														m (ft)
7.5m	kg											*5660	4350	8.53
(25.0ft)	lb											*12480	9590	(28.0)
6.0m	kg							*6280	*5490			*5690	3480	9.35
(20.0ft)	lb							*13850	*12100			*12540	7670	(30.7)
4.5m	kg			*10130	*10130	*7920	7860	*6830	*5250			*5050	3010	9.84
(15.0ft)	lb			*22330	*22330	*17460	17330	*15060	*11570			*11130	6640	(32.3)
3.0m	kg			*13280	11390	*9400	7230	*7600	*4950	5800	3480	*4740	2780	10.05
(10.0ft)	lb			*29280	25110	*20720	15940	*16760	*10910	12790	7670	*10450	6130	(33.0)
1.5 m	kg			*15570	10410	*10730	6700	7730	4660	5650	3340	*4700	2730	10.01
(5.0ft)	lb			*34330	22950	*23660	14770	17040	10270	12460	7360	*10360	6020	(32.8)
Ground	kg			*16360	10050	10850	6370	7510	4450			4930	2870	9.70
Line	lb			*36070	22160	23920	14040	16560	16560			10870	6330	(31.8)
-1.5m	kg	*15210	*15210	*16110	10030	10720	6260	7420	4370			5520	3250	9.10
(-5.0ft)	lb	*33530	*33530	*35520	22110	23630	13800	16360	9630			12170	7170	(29.9)
-3.0m	kg	*21030	*21030	*14990	10210	10810	6330	7510	4460			*6780	4080	8.12
(-10.0ft)	lb	*46360	*46360	*33050	22510	23830	13960	16560	9830			*14950	8990	(26.6)
-4.5m	kg	*17350	*17350	*12640	10620	*9240	6630					*6280	6120	6.58
(-15.0ft)	lb	*38250	*38250	*27870	23410	*20370	14620					*13850	13490	(21.6)

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.

Specifications

BUCKETS

All buckets are welded with high-strength steel.

GENERAL PURPOSE	HEAVY DUTY	MARBLE/ROCK
		
SAE heaped 2.10 m³(2.45 yd³)	SAE heaped 1.62 m³(2.12 yd³)	SAE heaped 1.44 m³(1.88 yd³)

Capacity m³(yd³)		Width mm (in)		Weight. kg (lb)	Recommendation mm (ft -in)
SAE heaped	CECE heaped	Without side cutters	With side cutters		6.45m (21' 2") Boom
					2.65m (8' 8") Arm
* 2.10m³(2.75yd³)	1.90m³(2.49yd3)	1645 mm (64.8")	1670mm (62.7")	1505 (3318)	■
▣ 1.62m³(2.12yd3)HD	1.43m³(1.87yd3)	1420 mm (55.9")	-	1541 (3397)	■
◉ 1.44m³(1.88yd3)HD	1.25m³(1.64yd3)	1180 mm (46.5")	-	1445 (3186)	●

* : Standard backhoe bucket
▣ : Heavy Duty bucket
◉ : Rock Heavy Duty 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

ATTACHMENT

Boom and arm are of all-welded with a low-stress, full-box section design 6450mm (21'2") boom and 2650mm (8'8") Arm is available.
Buckets are all-welded, high-strength steel implements.

DIGGING FORCE

Arm	Length	mm (ft.in)	*2650 [8' 8"]
	Weight	kg (lb)	1625 [3583]
Bucket digging force		kN	199.1 [217.2]
	SAE	kgf	20300 [22150]
		lbf	44750 [48820]
		kN	225.6 [246.1]
	ISO	kgf	23000 [25050]
		lbf	50710 [55320]
Arm crowd force		kN	156.9 [171.2]
	SAE	kgf	16000 [17480]
		lbf	35270 [38480]
		kN	162.8 [177.6]
	ISO	kgf	16600 [18080]
		lbf	36600 [39930]

*: 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
- Rise-up type windshield wiper
- Air-conditioner (5000kcal/hr, 20000 BTU/hr)
- Accessory box & Ashtray

Computer Aided Power Optimization (New CAPO) system

- 2-power mode, 3-work mode, 2-user mode
- Auto deceleration & one touch deceleration system
- Auto engine overheat prevention system
- Self diagnostic system
- Centralized monitoring
- LCD display
- Engine speed
- Clock & Error code
- Fuel level gauge
- Engine coolant temperature gauge
- Hyd. oil temperature gauge

Warning

- Fuel level
- Check CPU
- Engine oil pressure
- Engine coolant temperature
- Hyd. oil temperature
- Low battery
- Air cleaner clogging

- 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 160 AH)
- Battery master switch
- Removable clean out screen for oil cooler
- Automatic swing brake
- Removable reservoir tank
- Fuel pre-filter
- Boom holding system
- Arm holding system
- Counter weight (6600kg)
- Radio / USB player
- Water separator & fuel pre filter
- Mono boom (6.45m, 21’ 2”)
- Arm (2.65m, 8’ 8”)
- Standard bucket (2.10GP m^3, 2.75 yd^3)
- Track shoes (600mm, 24”)
- Track rail guard
- Cabin front protector
- Operator kit
- Tool kit
- Remote management system (Hi-Track)

Optional Equipment

- Beacon lamp
- Single acting piping kit
- Sun visor for cabin inside

Various optional Buckets (SAE heaped)

- Rock bucket (1.44 m^3, 1.88 yd^3)
- Heavy duty bucket (1.62 m^3, 2.12 yd^3)
- Fuel filler pump

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