

R150L

SMART *plus*



* Design aesthetics & features may vary from actual

OPERATING WEIGHT: 14200 kgs

GROSS POWER : 105 HP @ 2200 rpm

BUCKET CAPACITY: 0.65 - 0.75m³

DESIGNED FOR SMART WORK

BEST-IN CLASS PERFORMANCE

- Advanced CAPO system
- Hydraulic flow summation
- Swing Priority, Regeneration system
- Excellent digging forces
- Power Boost feature



OPERATOR COMFORT

- Spacious cabin
- Multi Adjustable Premium Seat
- Enhanced visibility
- 7" Intelligent display
- Smooth joystick



IMPROVED FUEL EFFICIENCY

- Electro hydraulic control system
- Auto deceleration system
- One touch deceleration
- Breaker mode for enhanced efficiency
- Fuel saving kit



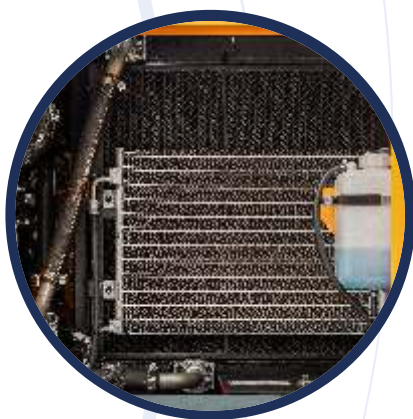
R150L

SMART *PLUS*



ENHANCED MACHINE DURABILITY

- Longest undercarriage in class
- Proven and durable structure
- HD reinforced front attachment
- 600mm Track chain
- New design muffler hood support



SIMPLIFIED MAINTENANCE

- Easy serviceability
- Extended maintenance interval
- Low life cycle cost
- Bigger size radiator for higher cooling efficiency
- New design Side cowl for improved heat dissipation



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.

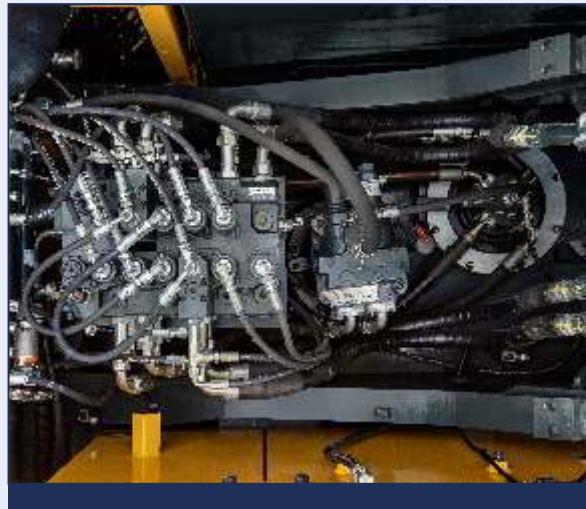


ENGINE

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.



R150L **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.

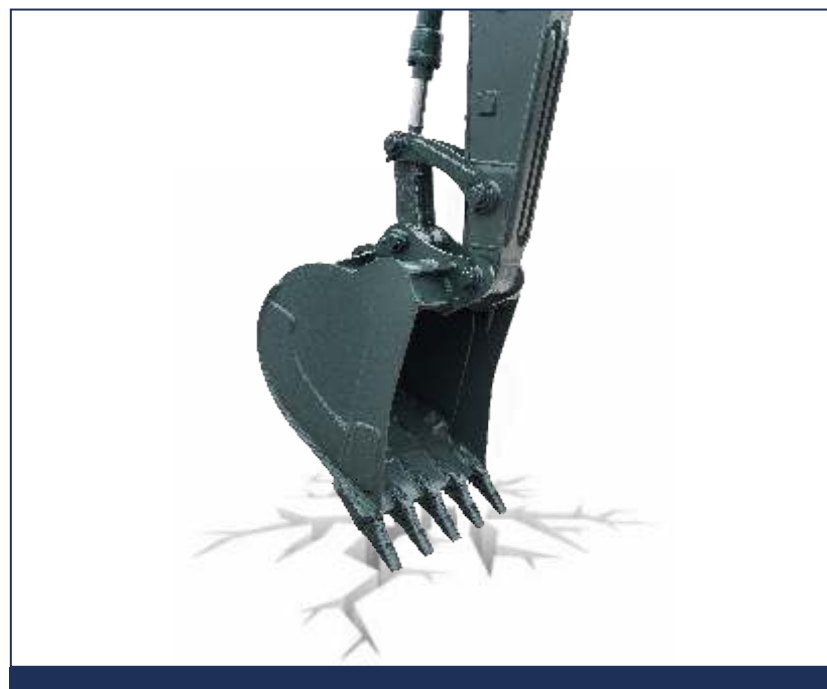
CHOICE OF OPERATING MODE

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 - 11826 Kgf**
- **Arm - 8642 Kgf**



POWER BOOST SYSTEM

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

SWING PRIORITY

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

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.



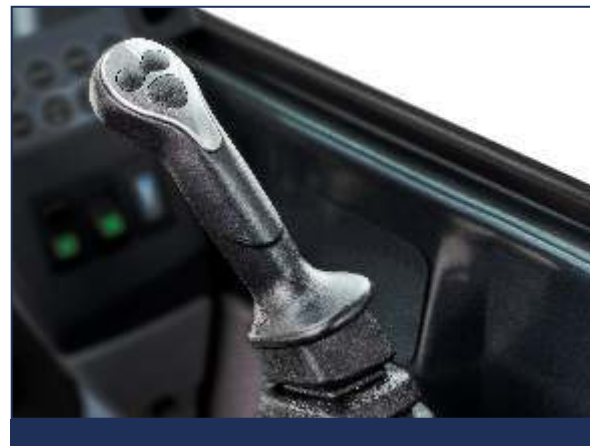
EXCLUSIVE BREAKER MODE

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.



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



AIR CONDITIONING SYSTEM (OPTIONAL)



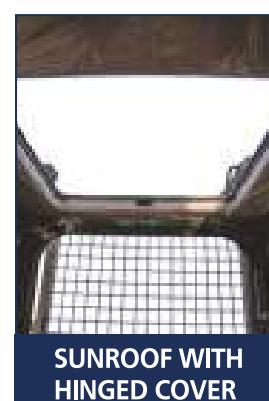
- High cooling performance
- Improved AC ducting
- Water bottle cooling system

Operator comfort results in increased productivity

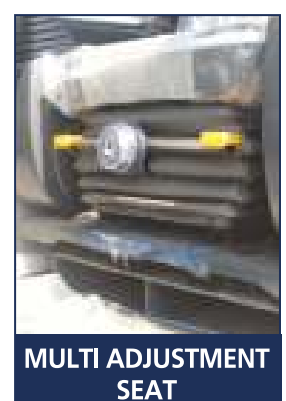
OTHER FEATURES



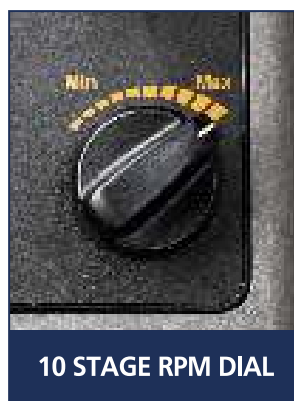
MP3/USB PLAYER WITH REMOTE



SUNROOF WITH HINGED COVER



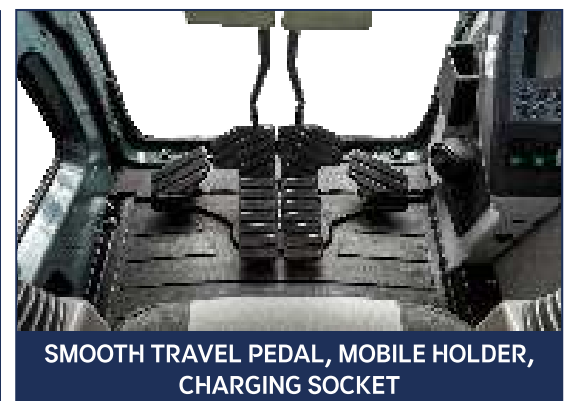
MULTI ADJUSTMENT SEAT



10 STAGE RPM DIAL



CABIN TOP LIGHT



SMOOTH TRAVEL PEDAL, MOBILE HOLDER, CHARGING SOCKET

RELIABILITY

STRONG & STABLE LOWER FRAME

Use of specialized steel plates and reinforced design for higher strength and durability.
Longest crawler length in class.



HD FRONT STRUCTURE

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

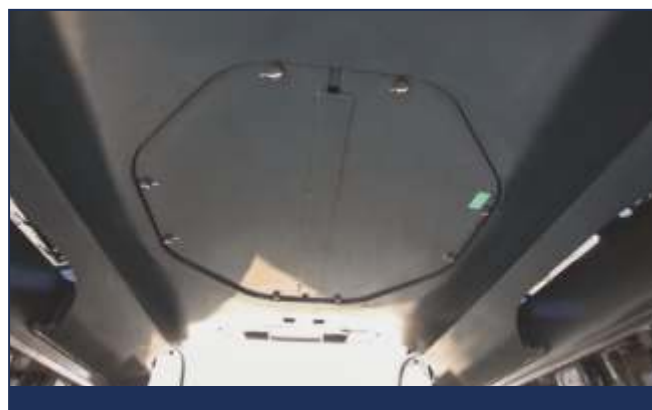


REINFORCED IDLER GUIDE AREA



RELIABLE COMPONENTS

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



BELLY GUARD



RUGGED UNDERCARRIAGE

- X frame provides excellent resistance to torsional bending to enhance structure life.
- Track shoe width upgraded to 600 for better manoeuvrability and stability.



REINFORCED BUCKET



TRACK LINKS



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

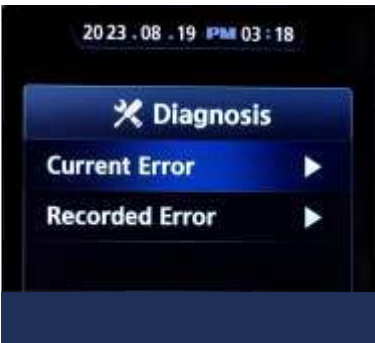
Operator can check the machine's vital signs without any difficulties

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

MAINTENANCE MANAGEMENT



SELF DIAGNOSTIC SYSTEM



EASY ENGINE MAINTENANCE

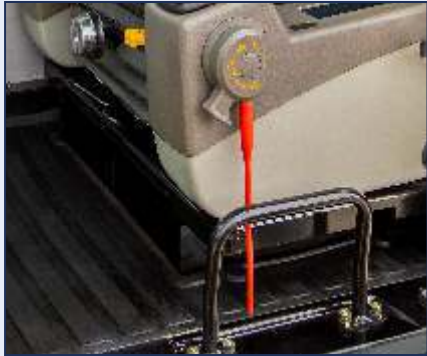
- Redesigned Radiator- Oil cooler assembly. Bigger size radiator for higher cooling efficiency
- Longer engine & hydraulic component life
- Servicing the engine and the hydraulics has been considerably simplified



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.



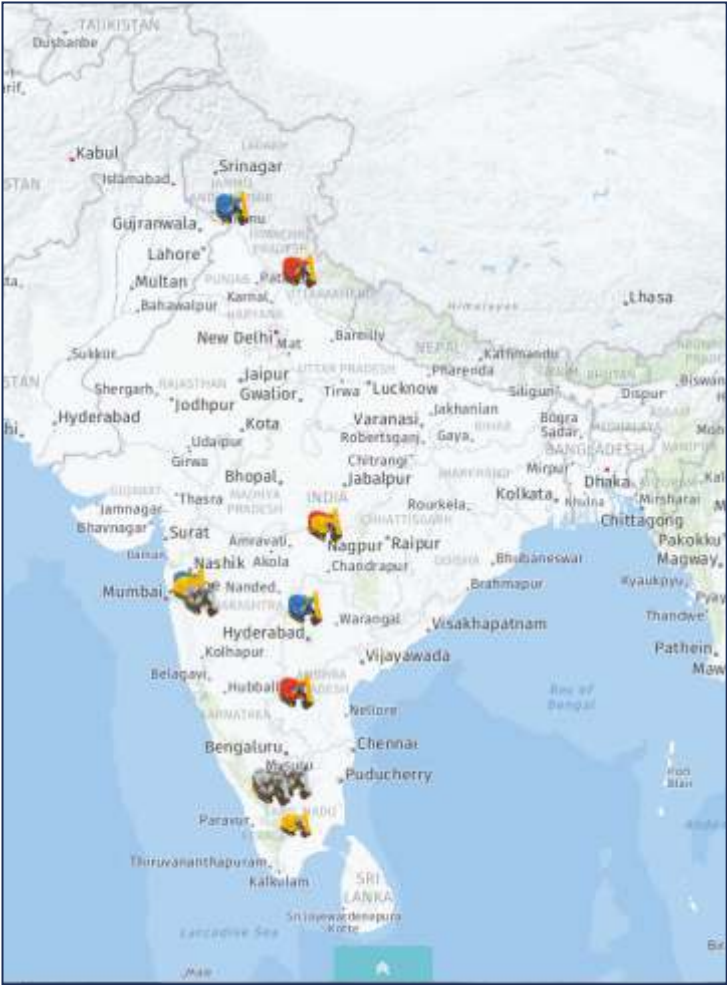
BENEFITS OF USING GENUINE HYUNDAI PARTS AND LUBRICANTS

- 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



HI-TRACK

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

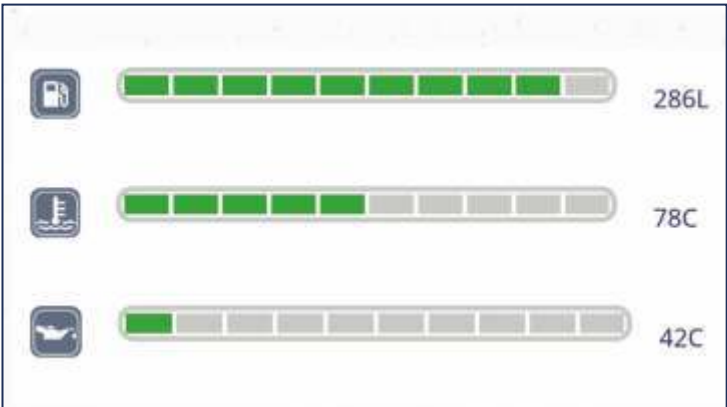


INCREASED PRODUCTIVITY

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.



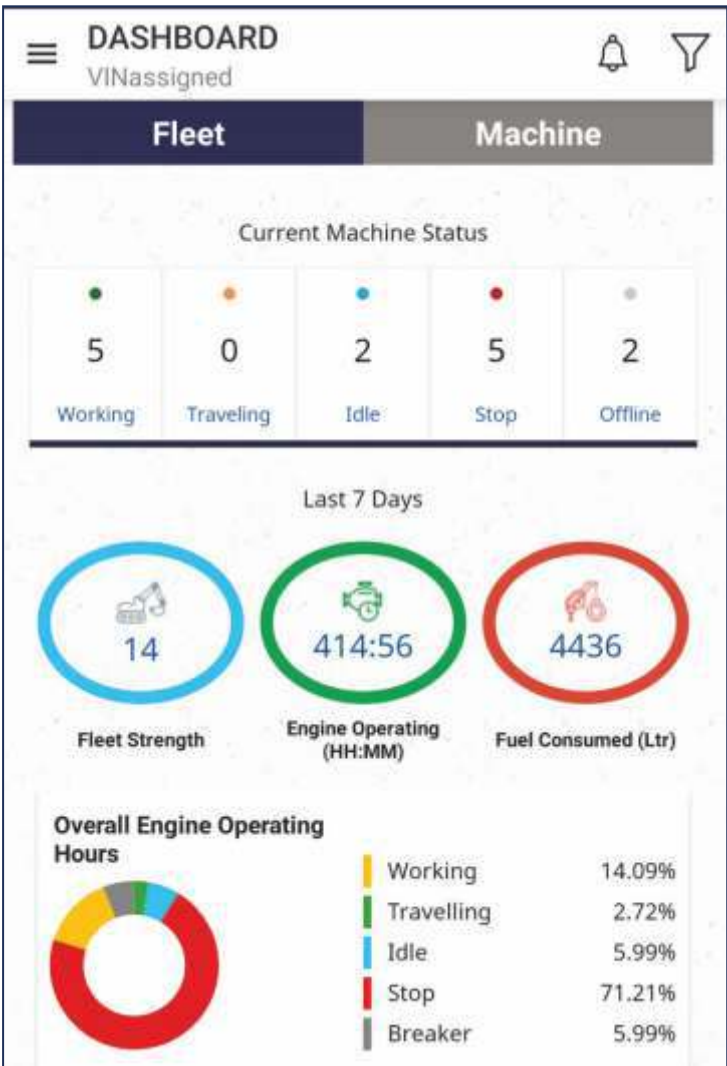
PROACTIVE MAINTENANCE

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	☒
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	2x130 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	350kgf/cm ²
Travel	350kgf/cm ²
Power Boost	380kgf/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

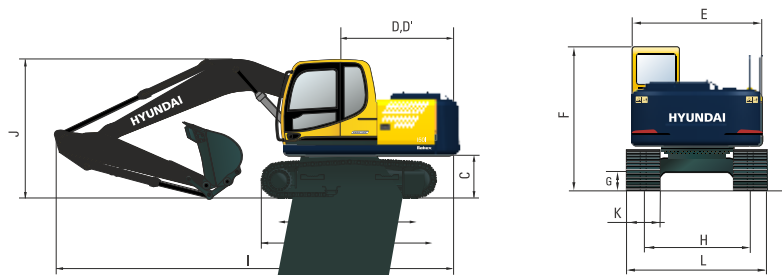
Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease bathed
Swing brake	Multi wet disc
Swing speed	12.0 rpm

Operating Weight

Shoe Width mm (in)	Operating weight kg (lb)	Ground pressure kgf/cm ² (psi)
600 mm (20")	14,200 (31,305)	0.36 (5.6)

Dimensions

(mm)



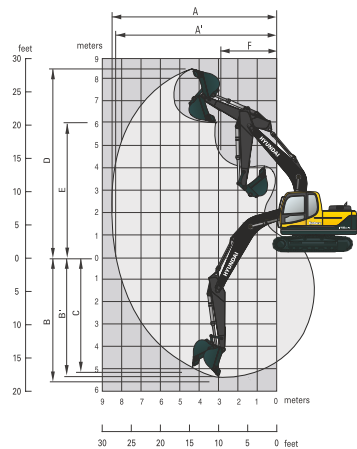
A	Tumbler distance	3000
B	Overall distance of	3750
C	Ground clearance	940
D	Tail swing radius	2350
D'	Rear end length	2350
E	Overall width of structure	2475
F	Overall height of	2860
G	Min. ground clearance	440
H	Track Gauge	2000
I	Overall length	7870
J	Overall height of	2760
K	Track shoe width	600/500 (Optional)
L	Overall width	2600 (2500)

Working R

(mm)

Arm length (mm)	**2100	2500	Boom length (std.)	4600
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A	Maximum Reach	7920	8330
A'	Digging Ground	7770	8180
B	Max Dig Depth	5150	5550
B'	Max-Depth (8' level)	4900	5340
C	Vertical Depth	4900	5330
D	Max Digging	8100	8300
E	Max Digging	5750	6060
F	Max Digging	2670	2650



	7960 (8642)*	6744 (7322)*	Bucket Digging Force	10892 (*11826) kgf
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*Power Boost
** Standard Configuration

LIFTING CAPACITIES

LIFTING CAPACITIES R150L SMART PLUS



Rating over-front

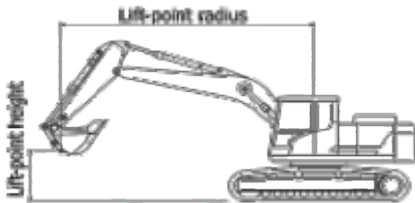


Rating over-side

• Boom: 4.6 (15'1") • Arm 2.1m (6'11")												
• Track Shoe: 600mm (24") triple grouser with 1900Kg (4190 lb) Counterweight												
Lift-point height (m/ft)		Lift-point radius								At max. reach		
		1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity		Reach
												m(ft)
6.0m	kg					*3,900	3,630			*3,420	3,190	4.85
19.7ft	lb					*8,600	8,000			*7,540	7,030	(15.9)
4.5m	kg					*4,030	3,580			*3,130	2,280	5.93
14.8ft	lb					*8,880	7,890			*6,900	5,030	(19.5)
3.0m	kg			*6,980	6,240	*4,890	3,390	3,580	2,190	*3,120	1,920	6.49
9.8ft	lb			*15,390	13,760	*10,780	7,470	7,890	4,830	*6,880	4,230	(21.3)
1.5m	kg					5,410	3,160	3,480	2,100	2,970	1,790	6.67
4.9ft	lb					11,930	6,970	7,670	4,630	6,550	3,950	(21.9)
0.0m	kg			*5,850	5,410	5,240	3,020	3,410	2,040	3,040	1,830	6.50
0.0ft	lb			*12,900	11,930	11,550	6,660	7,520	4,500	6,700	4,030	(21.3)
-1.5m	kg	*5,080	*5,080	*9,870	5,430	5,200	2,980			3,460	2,060	5.94
-4.9ft	lb	*11,200	*11,200	*21,760	11,970	11,460	6,570			7,630	4,540	(19.5)
-3.0m	kg			*8,350	5,560	5,300	3,060			4,710	2,760	4.87
-9.8ft	lb			*18,410	12,260	11,680	6,750			10,380	6,080	(16.0)

• Boom: 4.6 (15'1") • Arm 2.5m (8'2")												
• Track Shoe: 600mm (24") triple grouser with 1900Kg (4190 lb) Counterweight												
Lift-point height (m/ft)		Lift-point radius								At max. reach		
		1.5m (4.9ft)		3.0m (9.8ft)		4.5m (14.8ft)		6.0m (19.7ft)		Capacity		Reach
												m(ft)
6.0m	kg					*3,380	*3,380			*2,350	*2,350	5.40
19.7ft	lb					*7,450	*7,450			*5,180	*5,180	(17.7)
4.5m	kg					*3,620	*3,620	*3,290	2,270	*2,160	2,030	6.38
14.8ft	lb					*7,980	*7,980	*7,250	5,000	*4,760	4,480	(20.9)
3.0m	kg			*6,090	*6,090	*4,510	3,430	3,600	2,210	*2,140	1,750	6.90
9.8ft	lb			*13,430	*13,430	*9,940	7,560	7,940	4,870	*4,720	3,860	(22.7)
1.5m	kg			*7,580	5,700	5,450	3,190	3,490	2,110	*2,250	1,640	7.07
4.9ft	lb			*16,710	12,570	12,020	7,030	7,690	4,650	*4,960	3,620	(23.2)
0.0m	kg			*6,380	5,400	5,250	3,020	3,400	2,020	*2,500	1,660	6.91
0.0ft	lb			*14,070	11,900	11,570	6,660	7,500	4,450	*5,510	3,660	(22.7)
-1.5m	kg	*4,600	*4,600	*9,680	5,370	5,170	2,950	3,370	1,990	*3,030	1,840	6.39
-4.9ft	lb	*10,140	*10,140	*21,340	11,840	11,400	6,500	7,430	4,390	*6,680	4,060	(21.0)
-3.0m	kg	*8,610	*8,610	*8,930	5,470	5,220	2,990			3,970	2,350	5.41
-9.8ft	lb	*18,980	*18,980	*19,690	12,060	11,510	6,590			8,750	5,180	(17.8)
-4.5m	kg											
-14.8ft	lb											

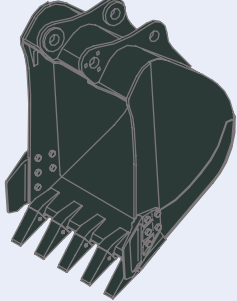
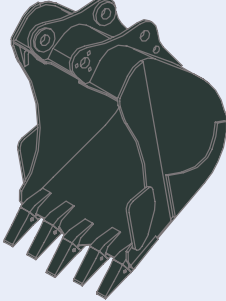
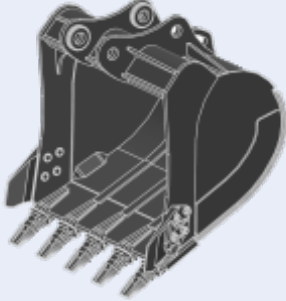
1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook (standard equipment) located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.



SPECIFICATIONS

BUCKETS

All buckets are welded with high-strength steel.

GENERAL PURPOSE	HEAVY DUTY	GENERAL PURPOSE
		
0.72m³ SAE heaped bucket	0.65m³ SAE heaped bucket	0.75m³ SAE heaped bucket

Capacity m³(yd³)		Width mm (in)		Weight kgs (lbs)	Recommendation mm (ft -in)	
SAE heaped	CECE heaped	Without side cutters	With side cutters		4.6m (15' 1") Boom	
					2.1m (6'11") Arm	2.5m (8'2") Arm
0.72m³ (0.93yd³)	0.60m³ (0.78yd³)	1210mm (47.6")	1305mm (51.4")	607 (1338)	■	■
0.65m³ (0.85yd³)	0.55m³ (0.72yd³)	1095mm (43.1")	1105mm (43.5")	566 (1248)	●	●
0.75m³ (0.98yd³)	0.63m³ (0.82yd³)	1235mm (48.6")	1340mm (52.8")	618 (1362)	■	■

- : Applicable for materials with density of 1800Kg/m³ or less
- : Applicable for materials with density of 1500Kg/m³ or less

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"), 2.5m (8'20") Arm is available. Buckets are all-welded, high-strength steel implements.

Arm	Length	mm (ft.in)	*2100 (6'11")	*2500 (7'10")
Bucket digging force	SAE	kN	92 (100)	92 (100)
		kgf	9389 (10194)	9389 (10194)
		lbf	20699 (22473)	20699 (22473)
	ISO	kN	106 (116)	106 (116)
		kgf	10892 (11826)	10892 (11826)
		lbf	24014 (26072)	24014 (26072)
Arm crowd force	SAE	kN	75 (81)	63 (69.3)
		kgf	7643 (8298)	6505 (7062.8)
		lbf	16850 (18295)	14341 (15570.8)
	ISO	kN	78 (84)	66 (71.8)
		kgf	7960 (8642)	6744 (7322.1)
		lbf	17548 (19053)	14868 (16142.4)

* : Standard arm weight including cylinder and linkage
Figures given in bracket are with Power Boost

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 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 and cab locks, one key
- One outside rearview mirror
- Fully adjustable suspension seat
- Pilot-operated joystick
- Three 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
- Automatic swing brake
- 24V Power socket

- Removable reservoir tank
- Fuel pre-filter
- Boom holding system
- Arm holding system
- Counter weight (1900kg)
- Mono boom (4.6m, 15' 1")
- Arm (2.1m, 6' 11")
- Track shoes (600mm)
- Track rail guard
- Operator kit
- FM radio
- Cabin lights
- General Purpose bucket (0.72 m³)
- Air-conditioner (5000kcal/hr, 20000 BTU/hr)
- Cabin Front Glass Protector
- Remote Management System (Hi-Track)

Optional Equipment

- Single acting piping kit
- Travel alarm
- Beacon Lamp
- Seat Belt
- Heavy duty bucket (0.65m³)
- Track shoe (500mm)
- Arm (2.5m, 8' 20")
- Fan (for Non AC Cabin)
- Rock Breaker
- Clamshell Bucket
- Quick Coupler



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

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