

R140L **SMART** *plus*



* Design aesthetics & features may vary from actual

OPERATING WEIGHT: 14000 kgs | GROSS POWER : 105 HP @ 2200 rpm | BUCKET CAPACITY: 0.65 - 0.72m³

DESIGNED FOR SMART WORK

BEST-IN CLASS PERFORMANCE

- Advanced CAPO system
- Hydraulic flow summation
- Swing Priority
- Regeneration system
- Excellent digging forces



OPERATOR COMFORT

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

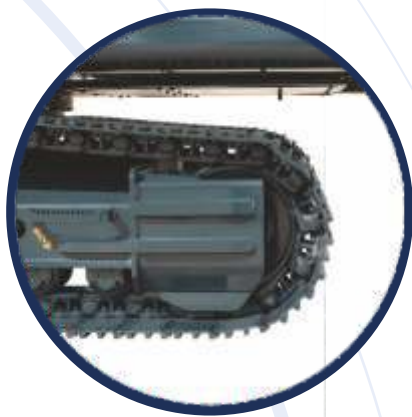


IMPROVED FUEL EFFICIENCY

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



R140L **SMART** *PLUS*



ENHANCED MACHINE DURABILITY

- Longest undercarriage in class
- Proven and durable structure
- HD reinforced front attachment
- New design side cowl support
- New design muffler hood support



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.

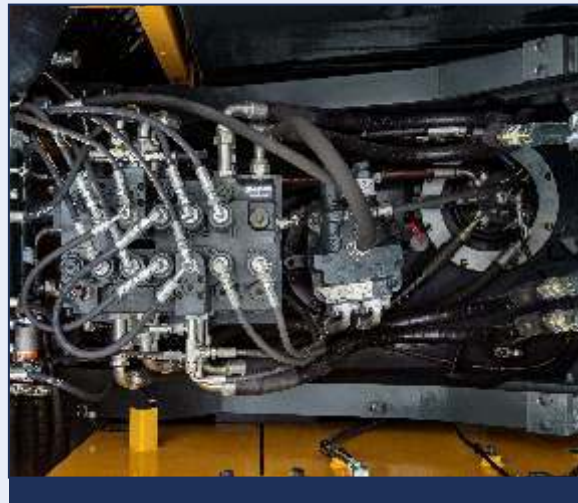


ENGINE

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.



R140L 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



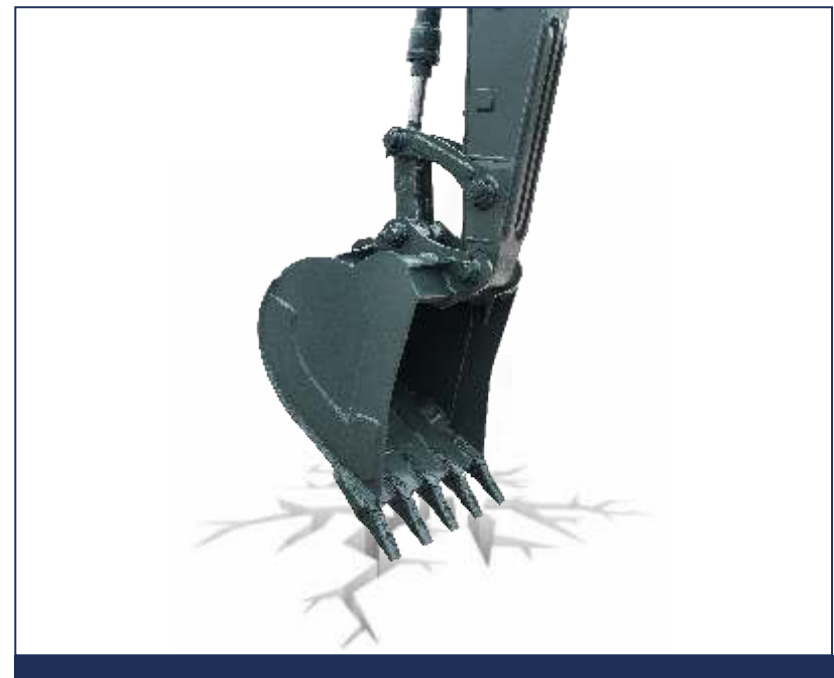
SWING PRIORITY

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

EXCELLENT DIGGING FORCES

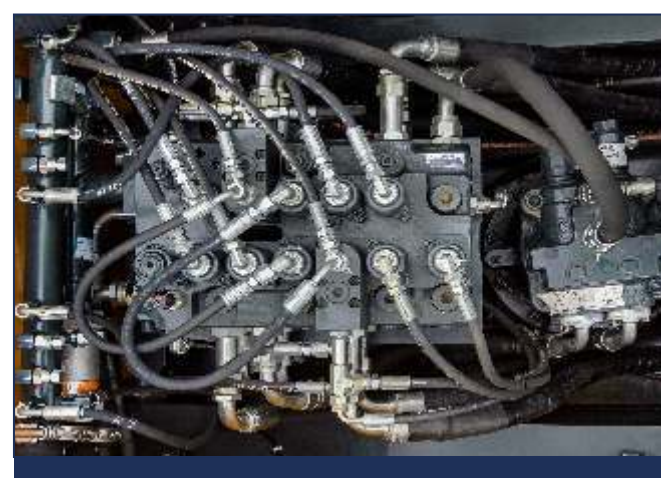
Higher output even in tough working condition

- **Bucket -10400kgf**
- **Arm -7900 kgf**



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.



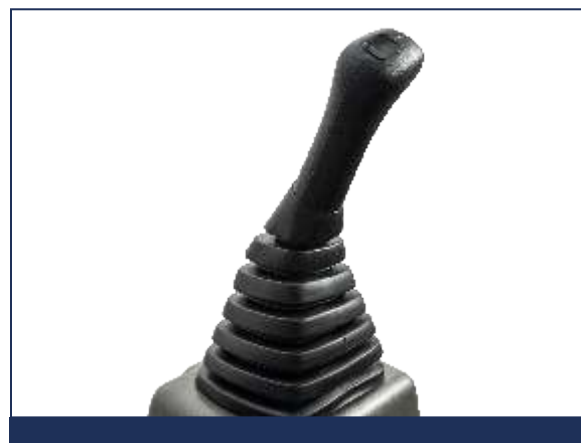
EXCLUSIVE BREAKER MODE

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 sytem

Operator comfort results in increased productivity

OTHER FEATURES



MP3/USB PLAYER WITH REMOTE (OPTIONAL)



SUNROOF WITH HINGED COVER



MULTI ADJUSTMENT SEAT



10 STAGE RPM DIAL



CABIN TOP LIGHT
CABIN FRONT PROTECTOR
(OPTIONAL)



RUBBER COATED TRAVEL PEDAL,
MOBILE HOLDER, CHARGING SOCKET

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



REINFORCED BUCKET

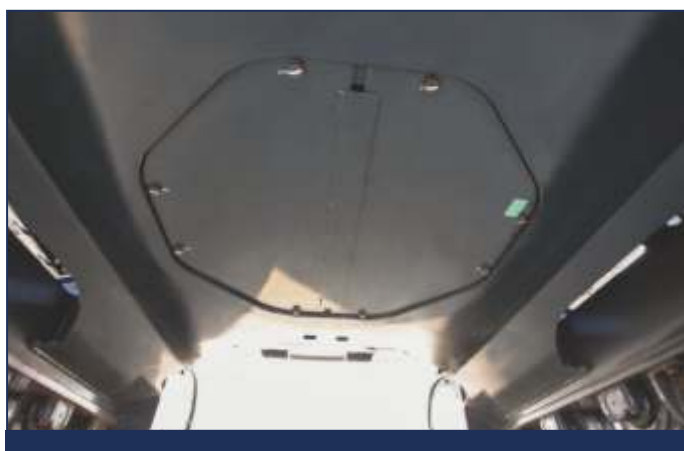


RELIABLE COMPONENTS

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

Management		
Items	INTVL	Rest
Engine oil	500	496
Engine oil filter	500	496
Air Cleaner el...	500	496
Prefilter	500	496
Fuel filter ele...	500	496

SELF DIAGNOSTIC SYSTEM

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X Diagnosis	
Current Error	▶
Recorded Error	▶

EASY ENGINE MAINTENANCE

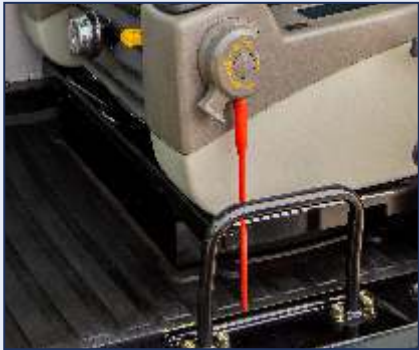
- Redesigned Radiator- Oil cooler assembly. Bigger size radiator for higher cooling efficiency
- Longer engine & hydraulic component life
- Servicing the engine and the hydraulics has been considerably simplified



SAFETY

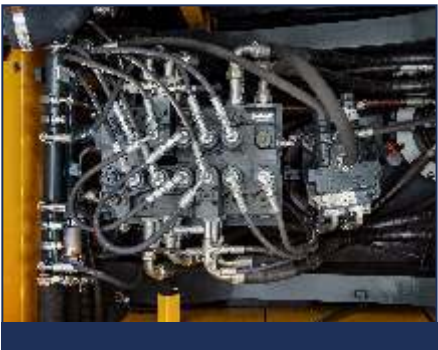
SAFETY - PEACE OF MIND AND OPERATOR CONFIDENCE

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.



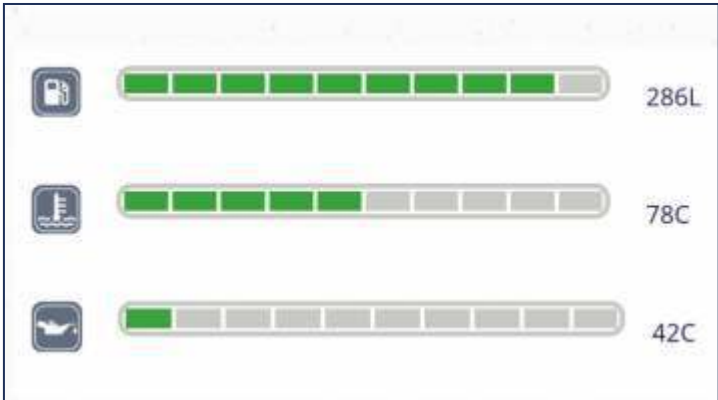
BENEFITS OF USING GENUINE HYUNDAI PARTS AND LUBRICANTS

- 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



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.

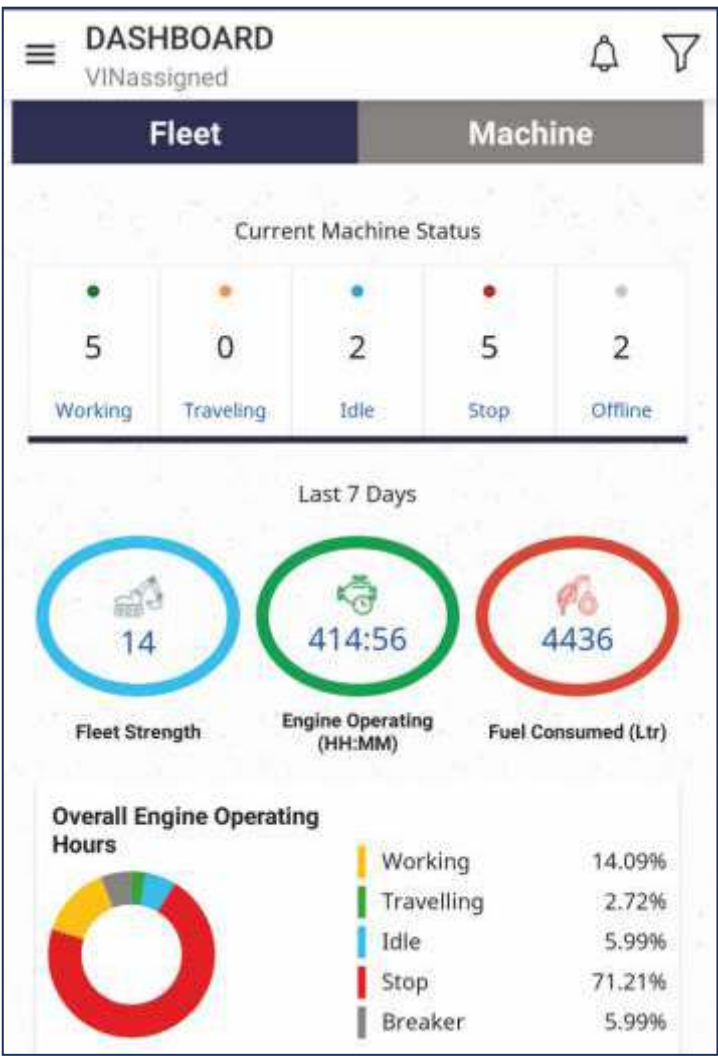


INCREASED PRODUCTIVITY

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		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/cm²
Travel	330kgf/cm²
Swing Circuit	285kgf/cm²
Pilot Circuit	40kgf/cm²
Service valve	Installed

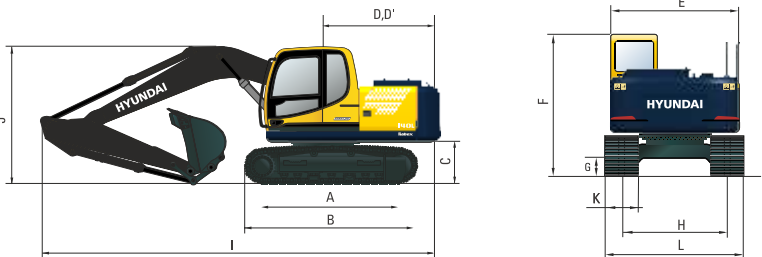
Coolant & Lubricant Capacity	
REFILLING	LITER
Fuel tank	270
Engine coolant	22
Engine oil	11.5
Swing device	2.5
Final drive (each)	3
Hydraulic system / Hydraulic tank	210 / 124

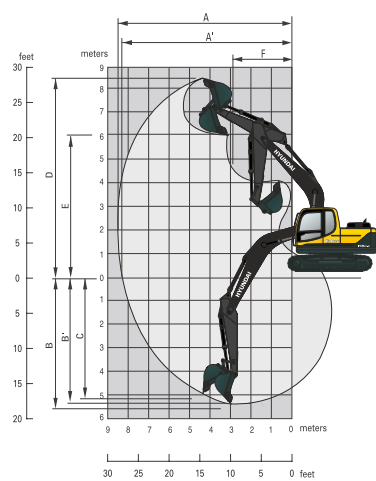
Drives & Brakes	
Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Traction Force	13300 kgf (130KN)
Max.travel speed (high/low)	5.5kmph/3.2kmph
Gradeability	35 Degree (70%)
Parking brake	Multi wet disc

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/cm2
500 mm (20")	14,000 (30,685)	0.43 (6.10)

Dimensions		(mm)
		
A	Tumbler distance	3000
B	Overall distance of crawler	3750
C	Ground clearance counter weight	940
D	Tail swing radius	2350
D'	Rear end length	2350
E	Overall width of upper structure	2475
F	Overall height of the cab .	2860
G	Min. ground clearance	440
H	Track Gauge	2000
I	Overall length	7870
J	Overall height of boom	2760
K	Track shoe width	500
L	Overall width	2500

Working Ranges				(mm)
Arm length (std.)		*2100 2500	Boom length (std.) 4600	
A	Maximun Digging Reach	7920	8330	
A'	Digging Reach on Ground	7770	8180	
B	Max Digging Depth	5150	5550	
B'	Max- Digging Depth (8' level)	4900	5340	
C	Vertical Digging Depth	4900	5330	
D	Maximum Digging Height	8100	8300	
E	Maximum Dumping Height	5750	6060	Bucket Digging Force 10400 kgf
F	Minimum Swing Radius	2670	2650	
Arm Crowd Force		7900 kgf	6700 kgf	

* Standard Configuration

LIFTING CAPACITIES

LIFTING CAPACITIES R140L SMART PLUS



Rating over-front

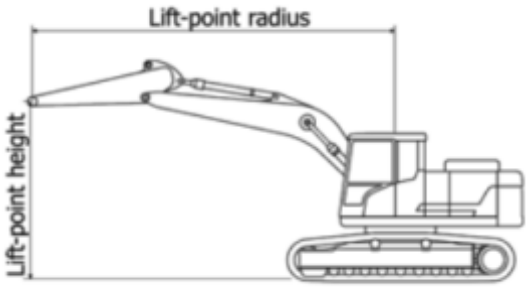


Rating over-side

● Boom: 4.6m (15'1") ● Arm: 2.1m (6'11") ● Track Shoe: 500mm (20") triple grouser with 1900kg(4190 lb) 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					*3,650	3,590			*3,210	3,150	4.85
19.7ft	lb					*8,050	7,910			*7,080	6,940	(15.9)
4.5m	kg					*3,760	3,540			*2,940	2,250	5.93
14.8ft	lb					*8,290	7,800			*6,480	4,960	(19.5)
3.0m	kg			*6,520	6,160	*4,560	3,340	3,530	2,160	*2,930	1,900	6.49
9.8ft	lb			*14,370	13,580	10,050	7,360	7,780	4,760	*6,460	4,190	(21.3)
1.5m	kg					5,340	3,120	3,430	2,070	2,920	1,770	6.67
4.9ft	lb					11,770	6,880	7,560	4,560	6,440	3,900	(21.9)
0.0m	kg			*5,510	5,330	5,170	2,970	3,360	2,000	3,000	1,800	6.50
0.0ft	lb			*12,150	11,750	11,400	6,550	7,410	4,410	6,610	3,970	(21.3)
-1.5m	kg	*4,780	*4,780	*9,210	5,350	5,130	2,940			3,400	2,030	5.94
-4.9ft	lb	*10,540	*10,540	*20,300	11,790	11,310	6,480			7,500	4,480	(19.5)
-3.0m	kg			*7,790	5,490	*5,220	3,020			*4,610	2,720	4.87
-9.8ft	lb			*17,170	12,100	*11,510	6,660			*10,160	6,000	(16.0)

● Boom: 4.6m (15'1") ● Arm: 2.5m (8'2") ● Track Shoe: 500mm (20") triple grouser with 1900kg(4190 lb) 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					*3,160	*3,160			*2,200	*2,200	5.40
19.7ft	lb					*6,970	*6,970			*4,850	*4,850	(17.7)
4.5m	kg					*3,380	*3,380	*3,080	2,240	*2,020	2,000	6.38
14.8ft	lb					*7,450	*7,450	*6,790	4,940	*4,450	4,410	(20.9)
3.0m	kg			*5,690	*5,690	*4,210	3,390	3,550	2,170	*2,000	1,720	6.90
9.8ft	lb			*12,540	*12,540	*9,280	7,470	7,830	4,780	*4,410	3,790	(22.7)
1.5m	kg			*7,140	5,620	*5,260	3,150	3,440	2,070	*2,100	1,610	7.07
4.9ft	lb			*15,740	12,390	*11,600	6,940	7,580	4,560	*4,630	3,550	(23.2)
0.0m	kg			*6,000	5,320	5,170	2,970	3,350	1,900	*2,340	1,630	6.91
0.0ft	lb			*13,230	11,730	11,400	6,550	7,390	4,390	*5,160	3,590	(22.7)
-1.5m	kg	*4,320	*4,320	*9,120	5,290	5,090	2,910	3,320	1,960	*2,840	1,810	6.39
-4.9ft	lb	*9,520	*9,520	*20,110	11,660	11,220	6,420	7,320	4,320	*6,260	3,990	(21.0)
-3.0m	kg	*8,110	*8,110	*8,330	5,390	*5,140	2,950			3,910	2,310	5.41
-9.8ft	lb	*17,880	*17,880	*18,360	11,880	*11,330	6,500			8,620	5,090	(17.8)

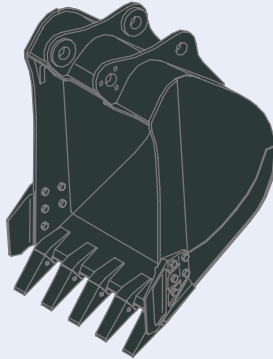
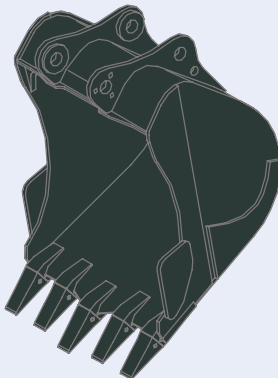
1. Lifting capacity are based on ISO 10567.
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
4. (*) indicates load limited by hydraulic capacity.



SPECIFICATIONS

BUCKETS

All buckets are welded with high-strength steel.

GENERAL PURPOSE				HEAVY DUTY		
						
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)	◐	◐

● : Applicabile for materials with density of 1800 Kg/m³ or less
■ : Applicabile for materials with density of 1500 Kg/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)	*2,100 (6' 11")	2,500 (8' 20")
Bucket digging force	SAE	kN	87.3	87.3
		kgf	8,900	8900
		lbf	19,620	19,620
	ISO	kN	102	102
		kgf	10,400	10400
		lbf	22,930	22930
Arm crowd force	SAE	kN	73.6	62.8
		kgf	7,500	6400
		lbf	16,530	14110
	ISO	kN	77.5	65.7
		kgf	7,900	6700
		lbf	17,420	14770

*: 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

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
- 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
- 24V Power socket
- Automatic swing brake

- 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 (500mm)
- Track rail guard
- Operator kit
- Cabin lights
- General Purpose bucket (0.72 m³)
- Cabin Fan
- Remote Management System (Hi-Track)

Optional Equipment

- Single acting piping kit
- Travel alarm
- Beacon Lamp
- Heavy duty bucket (0.65m³)
- Air Conditioner (5000 lcal/hr, 2000 BTU/hr)
- Arm (2.5m, 8' 2")
- FM Radio
- Rock Breaker
- Clamshell Bucket
- Quick Coupler
- Orange Grapple
- Cabin Front Glass Protector



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
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with your phone
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