HYUNDAI
CONSTRUCTION EQUIPMENT
INDIA

R210 SMART plus

OPERATING WEIGHT: 21200 kgs

GROSS POWER : 140 HP @ 2000 rpm

BUCKET CAPACITY: 0.87 - 0.92m³

MOVING YOU FURTHER

*Photos may include optional equipment

R210 SMART plus

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

- New ECO mode
- Fuel saving kit
- Electro hydraulic system
- Auto deceleration system
- Efficient breaker mode

DESIGNED FOR SMART WORK

Increased Machine Durability

- Strengthened undercarriage
- Proven upper structure
- Forged ring body
- 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
- Hi-Track (RMS - Optional)

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 engine is built for power, reliability, efficiency.

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

R210 SMART plus

NEW ECO MODE

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
H 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

BEST IN CLASS DIGGING FORCES

Higher output even in tough working conditions

- **Bucket - 15500 kgf**
- **Arm - 12000 kgf**

BEST IN CLASS TRAVEL PERFORMANCE

- Higher traction force
- Dual travel option
- High maneuverability

Traction Force : 21100 kgf

EFFICIENT COMBINED OPERATION

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

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 & 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

ARM REGENERATION SYSTEM

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

Operator Comfort

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 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

SUN VISOR

- 12V Socket
- AC Front Vent
- Hour Meter

AIR CONDITIONER

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

Reliability

HEAVY DUTY FRONT STRUCTURE

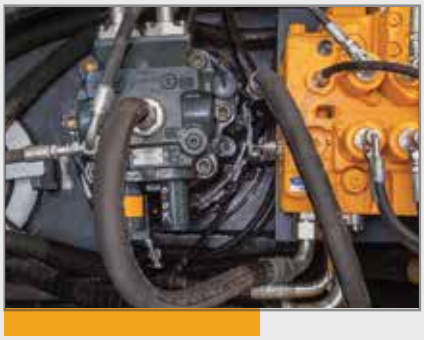
Use of specialized advance steel plates and reinforced design for higher strength and durability

RUGGED UNDERCARRIAGE

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

RELIABLE ELECTRICALS

- Dust and water proof connectors
- Longer component life

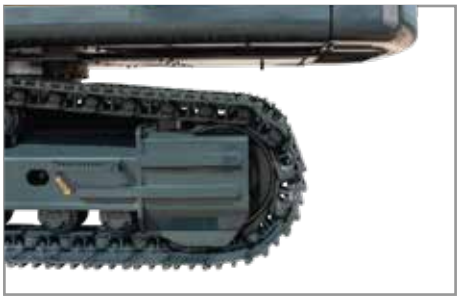


SWING & TRAVEL SYSTEM

Highly efficient Hyundai designed swing and travel system ensure minimum failure.

AIR PRE-CLEANER

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



REINFORCED IDLER FRAME

LOWER FRAME BELLY GUARD

CASTED BUCKET CONTROL LINK

FORGED RING BODY

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	500 hrs NEW
Engine Filter	500 hrs NEW

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

NEW

Hinged type front glass guard for easy cleaning

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

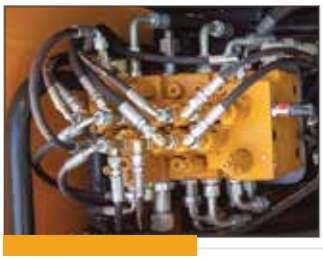
SAFETY - PEACE OF MIND AND OPERATOR CONFIDENCE

Cabin is integrally welded with low-stress using high strength steel to provide enhanced protection.
Handrails and steps are provided for easy operation. Engine fan guard avoid chances of accidental injury.




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?

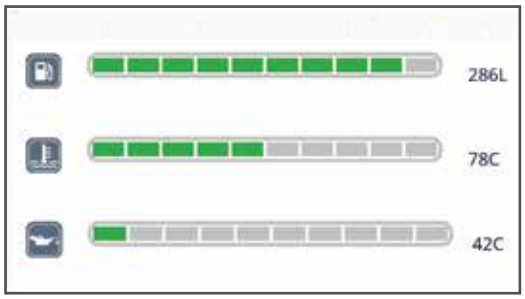
Maximize profits and extend your machine's life.

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

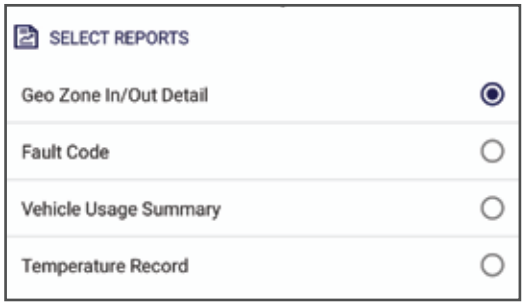
Hi-Track

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

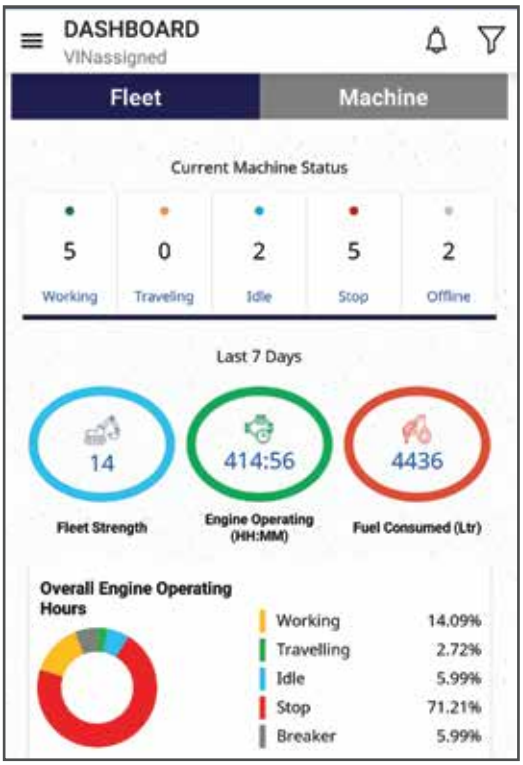
Get notified of system alarms & protect your machine from critical faults & experience repairs.

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

Specifications

Engine

Maker/Model			Cummins6BT5.9-C
Rated flywheel horse power	SAE	J1995 (Gross) J1349 (Net)	140HP (104KW) @2000rpm 136HP (101KW) @2000rpm
Max Torque			57.6kgfm (417lbfft) @1600rpm
			5880cc

Hydraulic System

Main pump

Type	Two variable displacement piston pumps
Max. flow	2x220 lpm
Sub-pump for pilot ciruit	Gear pump
Cross-sensing & fuel saving pump system	

Hydraulic motors

Travel	Two speed axis piston motor with counter balance valve and parking brake
Swing	Axial piston motor with automatic brake

Relief valve settings

Implement Circuit	330kgf/cm²
Travel	330kgf/cm²
Swing Circuit	240kgf/cm²
Pilot Circuit	35kgf/cm²
Service valve	Installed

Coolant & Lubricant Capacity

REFILLING	LITER
Fuel tank	340
Engine coolant	35
Engine oil	21
Swing device	5
Final drive (each)	5.8
Hydraulic system / Hydraulic tank	290 / 180

Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Max.drawbar pull	21100kgf (46500 lbf)
Max.travel speed (high/low)	5.3kmph/3.4kmph
Gradeability	35 Degree (70%)
Parking brake	Multi wet disc

Undercarriage

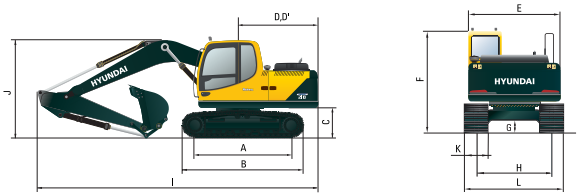
X-Leg type centre frame is integrally welded with reinforced box section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing spring and sprockets and trackchain with triple grouse shoes.

Centre frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	46
No. of carrier rollers each side	2
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	11 rpm

Dimensions

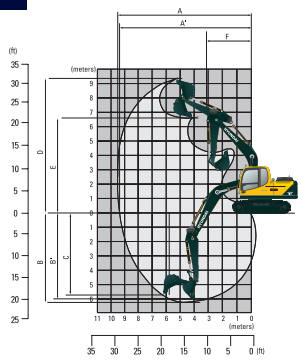


Dimensions		(mm)
A	Tumbler distance	3370
B	Overall length of crawler	4160
C	Ground clearance of counter weight	1060
D	Tail swing radius	2830
D'	Rear-end length	2770
E	Overall width of upper structure	2700
F	Overall height of cabin	2920
G	Min. ground clearance	480
H	Track gauge	2200
I	Overall length	9570
J	Overall height of boom	3110
K	Track shoe width	600
L	Overall width	2800

Working Ranges (mm)

Boom length (std.)	5680
Arm length (std.)	2400

A	Maximun Digging Reach.	9500
A'	Digging Reach on Ground.	9330
B	Max Digging Depth	6220
B'	Max- Digging Depth (8' level).	6010
C	Vertical Wall Digging Depth	5720
D	Maximum Digging Height	9340
E	Maximum Dumping Height.	6520
F	Minimum Swing Radius.	3740



Bucket Digging Force	15550kgf
Arm Crowd Force	12000kgf

Lifting Capacities

LIFTING CAPACITIES R210 SMART PLUS

Rating over-front | Rating over-side

Boom: 5.68 m (18′ 8″) / Arm: 2.0 m (6′ 7″) / Bucket: 0.92 m³ (1.20yd³) SAE heaped/ Shoe: 600mm(24″) triple grouser with 3,800kg (8,308 lb) counterweight

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)		Capacity		Reach
												m (ft)
7.5m	kg									*3750	*3750	6.64
(25.0ft)	lb									*8270	*8270	(21.8)
6.0m	kg					*4150	*4150			*3800	2910	7.78
(20.0ft)	lb					*9150	*9150			*8380	6420	(25.5)
4.5m	kg			*5360	*5360	*4140	4440			3620	2430	8.43
(15.0ft)	lb			*11820	*11820	*10010	9790			7980	5360	(27.7)
3.0m	kg			*6970	6540	*5240	4180	4280	2870	3340	2210	8.74
(10.0ft)	lb			*15370	14420	*11550	9220	9440	6330	7360	4870	(28.7)
1.5 m	kg			*8380	6020	*5930	3920	4160	2750	3280	2160	8.73
(5.0ft)	lb			*18470	13270	*13070	8640	9170	6060	7230	4760	(28.6)
Ground	kg			*9020	5790	*5750	3760	4070	2680	3460	2270	8.42
Line	lb			*19890	12760	*12680	8290	8970	5910	7630	5000	(27.6)
-1.5m	kg	*13020	11630	*8960	5760	*5680	3710			3960	2620	7.76
(-5.0ft)	lb	*28700	25640	*19750	12700	*12540	8180			8730	5780	(25.5)
-3.0m	kg	*11620	*11620	*8210	5870	*5790	3800			*4510	3480	6.61
(-10.0ft)	lb	*25620	*25620	*18100	12940	*12760	8380			*9940	7670	(21.7)
-4.5m	kg	*8770	*8770									
(-15.0ft)	lb	*19330	*19330									

Boom: 5.68 m (18′ 8″) / Arm: 2.4 m (7′ 10″) / Bucket: 0.92 m³ (1.20yd³) SAE heaped/ Shoe: 600mm(24″) triple grouser with 3,800kg (8,308 lb) counterweight

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5.0 ft)		3 m (10.0 ft)		4.5 m (15 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach
														m (ft)
7.5m	kg											*3450	*3450	7.15
(25.0ft)	lb											*7610	*7610	(23.5)
6.0m	kg							*3750	*3750			*3520	2640	8.20
(20.0ft)	lb							*8270	*8270			*7760	5820	(26.9)
4.5m	kg							*4190	*4190	*3940	2990	3350	2230	8.82
(15.0ft)	lb							*9240	*9240	*8690	6590	7390	4920	(28.9)
3.0m	kg					*6420	*6420	*4920	4210	*4240	2870	3090	2030	9.11
(10.0ft)	lb					*14150	*14150	*10850	9280	*9350	6330	6810	4480	(29.9)
1.5 m	kg					*7960	6060	*5690	3930	4140	2740	3040	1980	9.10
(5.0ft)	lb					*17550	13360	*12540	8660	9130	6040	6700	4370	(29.9)
Ground	kg			*8300	*8300	*8820	5760	5720	3730	4040	2640	3180	2070	8.81
Line	lb			*18300	*18300	*19440	12700	12610	8220	8910	5820	7010	4560	(28.9)
-1.5m	kg	*9220	*9220	*12750	11400	*8970	5670	5630	3650			3590	2360	8.18
(-5.0ft)	lb	*20330	*20330	*28110	25130	*19720	12500	12410	8050			7910	5200	(26.8)
-3.0m	kg	*13340	*13340	*12280	11620	*8430	5750	5680	3690			*4360	3030	7.12
(-10.0ft)	lb	*29410	*29410	*27070	25620	*18580	12680	12520	8140			*9610	6680	(23.4)
-4.5m	kg			*9840	*9840	*6850	6000							
(-15.0ft)	lb			*21690	*21690	*15100	13230							

Boom: 5.68 m (18′ 8″) / Arm: 2.92 m (9′ 7″) / Bucket: 0.92 m³ (1.20yd³) SAE heaped/ Shoe: 600mm(24″) triple grouser with 3,800kg (8,308 lb) counterweight

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5.0 ft)		3 m (10.0 ft)		4.5 m (15 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach
														m (ft)
7.5m	kg											*3120	3090	7.72
(25.0ft)	lb											*6880	6210	(25.3)
6.0m	kg											*3210	2400	8.69
(20.0ft)	lb											*7080	5290	(28.5)
4.5m	kg							*3770	*3770	*3590	3060	3090	2050	9.27
(15.0ft)	lb							*8310	*8310	*7910	6750	6810	4520	(30.4)
3.0m	kg			*9160	*9160	*5760	*5760	*4530	4290	*3950	2920	2870	1870	9.55
(10.0ft)	lb			*20190	*20190	*12700	*12700	*9990	9460	*8710	6440	6330	4120	(31.3)
1.5 m	kg			*8660	*8660	*7430	6200	*5380	3980	4170	2760	2810	1820	9.54
(5.0ft)	lb			*19090	*19090	*16380	13620	*11860	8770	9190	6080	6190	4010	(31.3)
Ground	kg			*9310	*9310	*8550	5800	5740	3750	4040	2630	2920	1880	9.26
Line	lb			*20530	*20530	*18850	12790	12650	8270	8910	5800	6440	4140	(30.4)
-1.5m	kg	*8550	*8550	*12160	11270	*8950	5650	5610	3620	3970	2570	3240	2110	8.67
(-5.0ft)	lb	*18850	*18850	*26810	24850	*19730	12460	12370	7980	8750	5670	7140	4650	(28.4)
-3.0m	kg	*1 1700	*11700	*13020	11430	*8680	5660	5600	3620			3970	2620	7.69
(-10.0ft)	lb	*25790	*25790	*28700	25200	*19140	12480	12350	7980			8750	5780	(25.2)

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 located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

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
- Air-conditioner (5000kcal/hr, 20000 BTU/hr)
- Accessory box & Ashtray

Computer Aided Power Optimization (New CAPO) system

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

Warning

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

- 12V power outlet (24V DC to 12 V DC converter)
- 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 100 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 (3800kg)
- Mono boom (5.68m, 18′ 8″)
- Arm (2.4m, 7′ 10″)
- Standard bucket (0.92GP m^3, 1.20 yd^3)
- Track shoes (600mm, 24″)
- Track rail guard
- Cabin front protector
- Radio / USB player
- Operator kit
- Sun visor for cabin inside
- Tool kit

Optional Equipment

- Beacon lamp
- Single acting piping kit
- Quick coupler
- Accumulator, work equipment lowering

Various optional Arms (SAE heaped)

- Arm (2.00 m, 6′ 7″)
- Arm (2.92 m, 9′ 7″)

Various optional Buckets (SAE heaped)

- Rock bucket (0.87 m^3, 1.14 yd^3)
- Remote management system
- Travel alarm
- Operator seat belt
- Fire extinguisher

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

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t @hyceindia f /hyundaiindia.net/
i Hyundai Construction Equipment India Pvt Ltd

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

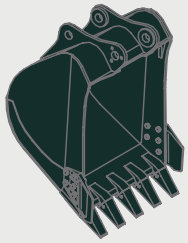
December 2020

Specifications

BUCKETS

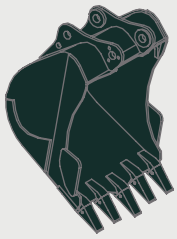
All buckets are welded with high-strength steel.

GENERAL PURPOSE



SAE heaped *0.92m³(1.20 yd³)

HEAVY DUTY



SAE heaped ◉ 0.87m³(1.14 yd³)

Capacity m³(yd³)		Width mm (in)		Weight. kg (lb)	Recommendation mm (ft -in)		
					5.68m (18' 8") Boom		
SAE heaped	CECE heaped	Without side cutters	With side cutters		2.0m (6' 7") Arm	2.4m (7' 10") Arm	2.92m (9' 7") Arm
* 0.92m³(1.20yd³)GP	0.80m³(1.05yd³)	1150 (45.3")	1270 (50.0")	770 kg (1700lb)	●	●	■
◉ 0.87m³(1.14yd³)HD	0.75m³(0.98yd³)	1140 (44.9")	-	900 kg (1980lb)	●	●	■

* : Standard backhoe bucket

◉ : 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. 5.68m (18'8") mono boom and 2.0m (6'7"), 2.4m (7'10"), 2.92m (9'7") Arm are available.
Buckets are all-welded, high-strength steel implements.

DIGGING FORCE

Arm	Length	mm (ft.in)	2,000 (6' 7")	*2,400 (7' 10")	*2,920 (9' 7")
	Weight	kg (lb)	860 (1,890)	950 (2,090)	990 (2,180)
Bucket digging force	SAE	kN	133.4	133.4	133.4
		kgf	13,600	13,600	13,600
		lbf	29,980	29,980	29,980
	ISO	kN	152.0	152.0	152.0
		kgf	15,500	15,500	15,500
		lbf	34,170	34,170	34,170
Arm crowd force	SAE	kN	135.3	112.8	97.1
		kgf	13,800	11,500	9,900
		lbf	30,400	25,350	21,830
	ISO	kN	142.2	117.7	101.0
		kgf	14,500	12,000	10,300
		lbf	31,970	26,460	22,710

Note: Arm weight includes bucket cylinder and linkage *Standard arm