

mahindra
CONSTRUCTION
EQUIPMENT

CREATE A BETTER
TOMORROW WITH

**ASSURED
HIGHER
PROFITS.**

EARTHMASTER
SX SMART50



With
iMAXX
Telematic Remote Care

ENGINEERED BY MAHINDRA FOR SUCCESS

- Mahindra Construction Equipment is a part of The Mahindra Group – U.S. \$19.4 Billion global federation of companies. Standing tall and proud at 2 56 000 employees in over 100 countries across the globe.
- With “Rise” as its governing spirit and backed by decades of manufacturing top-notch agriculture equipment and utility vehicles, The Mahindra Group has now boldly ventured into the construction equipment industry with products that implement breakthrough technology.
- This journey began with the launch of our manufacturing unit in Chakan, Pune. Operating in a large area of 10 000 m², we use the latest State-Of-The-Art technology and fully automatic robotic welding units to create superior products with an impeccable finish.
- Every single product goes through stringent and thorough quality checks with implementation of advanced NOVA-C before being rolled out.



A W A R D S & RECOGNITION

- Emerging Construction Equipment Company at CIA World Awards 2016
- Best Municipal Solution at Municipalika and Capex 2017
- Best Design Eco Friendly Construction Equipment at Yellow Dot Award 2017
- Innovative Product in Road Construction at the coveted EPC World Awards 2017
- Innovative Product of the Year - 2017 at prestigious Construction Time award

MADE FOR INDIA.

ENSURES GUARANTEED SUCCESS.

The designers at Mahindra have taken technology to the next level. Looking at the current scenario, we have made a dramatic leap in our own Backhoe Loader, designing the brand new EarthMaster SX Smart. It is specifically engineered keeping in mind the Indian usage patterns which breaks all the norms in the Backhoe Loader category.

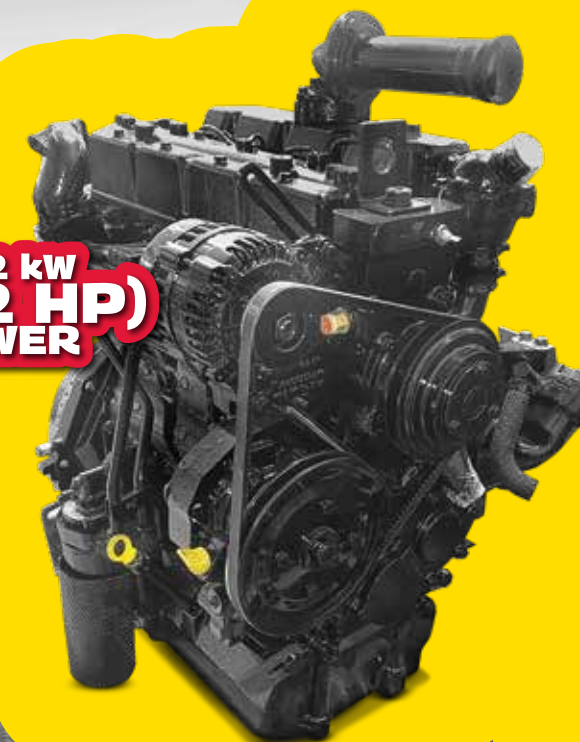
With a 36.2 kW (49.2 HP), naturally aspirated Mahindra engine, best-in-class fuel efficiency, and optimal backhoe performance, EarthMaster SX Smart will give you outstanding savings too.

The legacy brand Mahindra came into existence even before India's independence. Given its history of revolutionising the transport industry in India, Mahindra has once again achieved a monumental feat with the EarthMaster. The EarthMaster SX Smart are made in India. While their engines are manufactured in Nagpur, the rest of the machines are made and assembled in our Chakan plant near Pune. These are indigenised machines with world-class aggregates and are created after carrying out an extensive research on Indian customers and their requirements.

The EarthMaster is well-established in India and has 5000+ happy Indian customers since its launch ten years ago. It has greatly helped in building India over the last 10 years as it was made in India, by Indians, and for India.



**36.2 kW
(49.2 HP)
POWER**

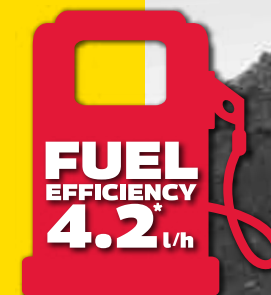


**MAHINDRA'S BRAND-NEW
BS IV ENGINE.**

DRIVING YOU TOWARDS PROSPERITY.

The internationally proven Mahindra engine, best-in-class fuel efficiency, and an optimal backhoe performance simply makes the EarthMaster SX Smart the king of savings. And guess what? There is more to it:

- Mahindra has taken its learnings from tractor engines to bring its fuel efficiency down to an incredible 4.2* l/h impacting the overall savings of customers positively.
- The Mahindra engine brings you assured reliability with a low maintenance cost.
- The EarthMaster SX Smart has a large-sized radiator that ensures no overheating in peak summers. It also enjoys a widespread availability of parts.
- The 36.2 kW (49.2 HP) power is optimized for high level backhoe performance.
- Its well-tested Mahindra engine is highly reliable with the lowest overhauling cost.
- Proven and tested expertise in inline FIP mechanical engine.
- It is easy to repair ensuring Peace of mind.
- Its Inline fuel pump is simple and cost effective
- Manufacturers for many other OEM's.



SX SMART 50

A PLETHORA OF FEATURES.

A PROMISE OF PROSPERITY.

The EarthMaster SX Smart 50 is a powerhouse of performance. But what makes it truly special are a wide range of top-class features. From top-notch hydraulics to a world-class operator experience, the EarthMaster SX Smart 50 gives you everything you ever wanted at an economical cost.

SX SMART 50

STRUCTURE:

- **Better dig Depth** with 2 mm thicker plates than usual for applications where the strength is needed.
- **More load bearing capacity** to front axle with 63 mm thick beam, helps machine to do heavy work in loader application.



HYDRAULICS:

- **Better backhoe speed & performance** due to higher flow-handling capacity and less pressure losses.
- **Better Fuel efficiency** due to less load on engine with lowest hydraulic refills required
- **Lower per-hour maintenance cost** due to 3000 hours hydraulic oil change interval. Leading to higher savings.
- **Improved Performance** with Optimised Hoses and Tubes, higher flow capacity backhoe, loader control valve, and optimised hydraulic circuit to minimise pressure losses which is Ideal for rugged Indian site conditions.



BIGGER BUCKETS:

- **High Productivity** with Bigger Loader (1.1 m³) and backhoe buckets (0.27 m³).
- Mahindra Earthmaster backhoe bucket is around 8% bigger than competition.



SLIDING FRAME:

- **Less Machine Maintenance** with H-frame design which ensures dirt does not accumulate like other machines.
- **Better Grip and Stability** due to its 12-bolt support plate design and balanced weight distribution.



BANANA BOOM:

- **Better life and impact strength** of the boom due to its excavator-like design. The construction is with thick plates at the ends of the boom.
- **More structural strength and rigidity** due to its closed-box section design.
- **Easy to fill Tipplers and Trolleys** as its boom design never interferes with the body.



FINAL DRIVE:

- **Reliable Aggregates** which are less prone to failure due to its design which ensures **better lubrication** in all parts even in incline position, **Increasing life of the Final Drive**
- Final drive Consists of 3 Sections - 2 hubs and 1 middle section along with Differential separated by Oil Seals.
- **Proven and oldest** in Indian market with optimised service refill capacity in power train.



C A B I N COMFORT

Mahindra believes that the most important part of the machine is the person operating it. That is why, we have worked hard to make operator experience the most comfortable for long hours of work ensuring low attrition of operators. Operators can store their regular stuff easily in the machine. The EarthMaster SX Smart 50 has an ergonomically designed methodical cabin, so the operator can focus solely on productivity.

Cabin features:



Coat hanger



Water bottle holder



Mobile Holder



Tinted glass



Cabin fan



Trip meter



CONTROL YOUR BUSINESS FROM YOUR POCKET

The EarthMaster SX Smart 50 comes with the latest Mahindra IMAXX Telematics remote care technology. You can think of it as your personal assistant that updates you with vital information about your Machine and your business.

Machine Health Monitoring

Battery & alternator health monitoring
Engine temperature monitoring

Real Time Fuel Tracking

Alerts

Geofence check-in and check-out
Unscheduled operation
Stoppages during Operation/Transit

Location Tracking

Live location with address
Historical location replay
Nearby dealers
Nearby service stations

Vehicle Performance Report

Engine hour report
Daily vehicle report
Machine Diagnostic Report

Service Reminders

Operator Performance Management

SX SMART₅₀

LOWER RUNNING COST. **HIGHER PROFIT.**

The cost of running for the EarthMaster SX Smart 50 is like no other. Lower than most other machines. Here is why:

- **Lowest per-hour service resulting in savings on maintenance.**
- **Increased hydraulic oil change interval.**
- **Economical service parts.**
- **Economical and effective lubricants with lowest per-litre cost.**
- **Low refill capacities.**
- **Higher change interval.**

SX SMART₅₀

₹ **LOWEST
COST OF
RUNNING**



MANY APPLICATIONS. SAME RESULT: PROFIT.



TRENCHING



PIPE LAYING



MANREGA



AUGER



TROLLEY FILLING



ROCK BREAKER

REACH & COVERAGE

Mahindra Construction Equipment dealers understand that this is a business about good after-sales support for the machines. We aim for customer satisfaction every time and understand that this means supporting the machine throughout its life. Our Strategy is to deliver the best customer support in our industry, putting the customer at the very heart of our business. In addition, Mahindra Construction Equipment and our dealerships aim to ensure minimum downtime of your machines. Here is how:

50+ Dealers across India

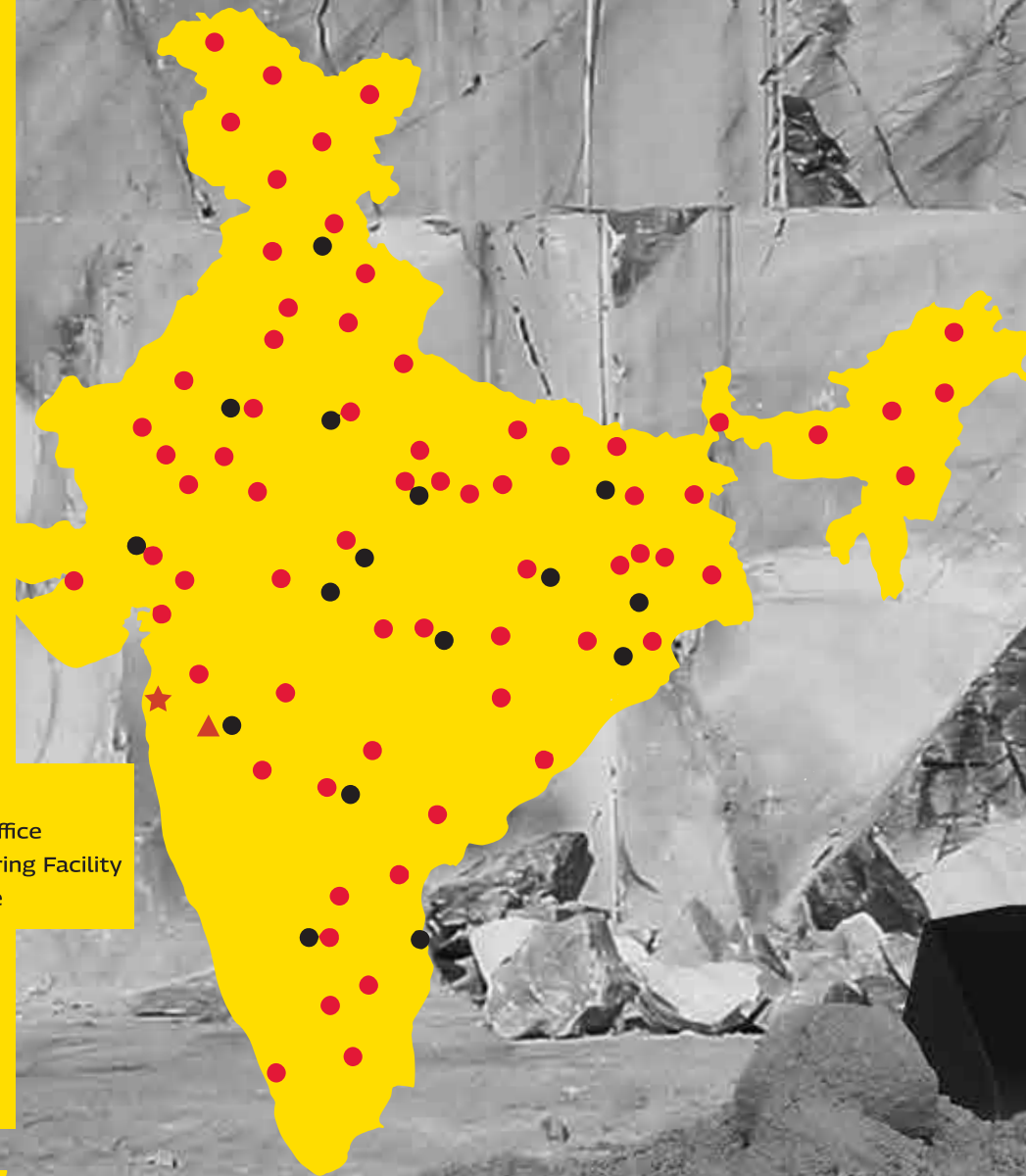
200+ Sale Executives

300+ Trained Service Engineers

60+ Service Vans

- Dealership
- Regional Office
- ▲ Manufacturing Facility
- ★ Head Office

SX SMART₅₀

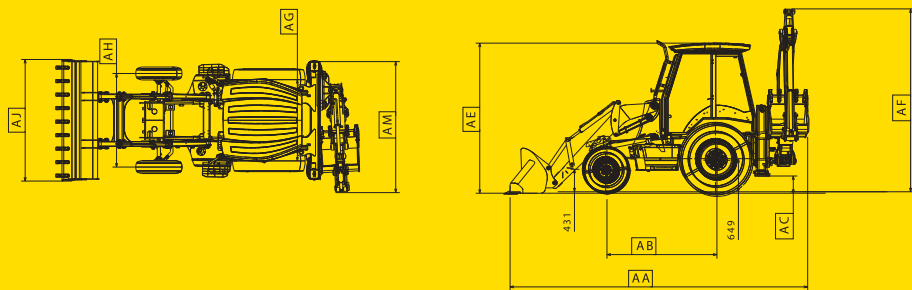
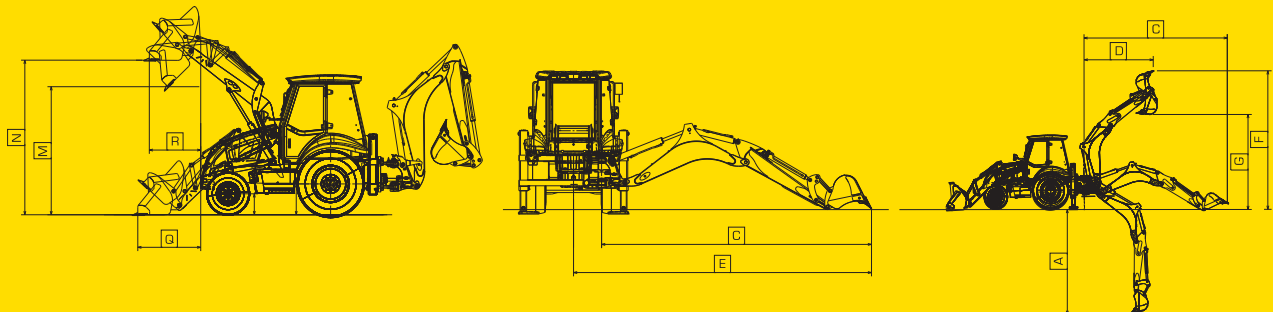


SERVICE & SUPPORT

To deliver our promise of world-class customer support, Mahindra Construction Equipment has continued to invest in a comprehensive network of dealers who deliver all the support you need, right at your doorstep. Services include Saral Seva, Mahindra Genuine Services, Mahindra Genuine Parts, Mahindra Lubricants, and Mahindra Attachments, among several others.



TECHNICAL SPECIFICATIONS



SX SMART50



SX SMART50

FEATURES	
Excavator Controls	Mechanical Levers
Instrument Cluster	Analog
	IMAXX - GPS, GPRS base vehicle health monitoring & tracking system
Warranty	1 year^ Standard Warranty, Unlimited Hours
Banana Boom Design	Yes
180°C Revolving Seats with Arm rest and Seat Belts	Yes
Mobile Charger	Yes
Storage Box	Yes
ENGINE	
Mahindra Diesel Engine	Naturally Aspirated NEF Engine
Number of Cylinders	4
Displacement	3532 cm³ (cubic centimetre)
Gross Power	36.2 kW (49.2hp) @ 2100 r/min
Peak Gross Torque	235 Nm @ 1000-1300 r/min
HYDRAULICS	
System Type and Pressure	Open Centre: 21 MPa
Pump Type	Fixed Displacement Gear Pump
Pump Delivery	103 l/min @ 2100 r/min
Control Valves (Backhoe Loader)	Sectional Valves (Sandwich Type, Individually Replaceable)
TRANSMISSION	
Type: Four Speed (4 Forward, 4 Reverse), Low Noise, Two Wheel Drive (2 WD), Synchro Shuttle Transmission with Electrically Operated Reversing Shuttle and Torque Converter	
AXLES	
Rear Axle: Rigidly mounted drive axle, with outbound planetary final drives, driven by short drive shaft.	
Front Axle: Centrally pivoted, non-driven unbalanced type axle, with total oscillation of 16°C, with remote greasing facility for the main pin.	
BRAKES	
Service Brakes: Hydraulically actuated, self adjusting, maintenance free, oil immersed multi-disc, on the rear axle, operated by independent foot pedals, joined together for normal operation.	
Parking Brakes: Hand operated mechanically actuated caliper type brake	
ELECTRICALS	
Dust proof switches, ignition controls for engine start and stop, horn and reverse alarm, water and dust proof electrical connectors. 100Ah, 12V, Low maintenance battery. Alternator: 90 ampere	
CABIN	
Ergonomically designed cab with contemporary styling, Excellent operator comfort, day and night time visibility, Rear view mirror, multiple storage options, two-door acces, Sliding rear window, stowable doors and an integrated tool box. Cabin frame built with sturdy tubular sections and protected with CED technology for longer rust protection. Fully adjustable premium operator seat with safety belt. Excellent leg space, conveniently positioned control levers and pedals. Low line curved hood to enhance operator visibility. ROPS, FOPS Compliance - Yes	
STEERING	
Front wheel hydrostatic power steering, with priority function and pressure relief valve. Emergency steering in case of Power Failure.	
OPERATOR INFORMATION	
Front Cluster: With Speedometer, Turn and Head Light Signals indicating r/min, kilometre Run, Hours Run, Fuel Level, Temperature.	

Technical specifications, features are subject to change without prior notice. Images used are for representative purpose only. Accessories shown may not be a part of the standard product. Actual colors may vary. E&O.E. ^Standard exclusions apply. For further details on warranty, please visit your nearest dealer. *According to government approved independent agency, under manufacturer standard **PER/VEH/21 certified at 1450 r/min.**
***Value measured under specific measuring conditions.** *Guarantee is applicable on SX only. Please visit www.mahindraconstructionequipment.com for more information on guarantees.

BACKHOE PERFORMANCE		
Maximum Dig Depth	A	4854 mm"
Reach at Ground Level to Slew Centre	C	5585 mm
Reach at Full height to Slew Centre	D	2774 mm
Maximum Working Height	F	5793 mm"
Maximum Load Over Height	G	3952 mm"
Side Reach to the Centre of the Machine	E	6115 mm
Excavator Pivot Mechanism		Side Shift
Backhoe Bucket Tearout Force		5154 kg
Backhoe Arm Tearout Force		3210 kg
Lift Capacity to Bucket Pivot at Full Reach (no bucket fitted) (SAE J331)		1403 kg
Backhoe Bucket Capacity		0.27 m³ (cubic metre)

LOADER PERFORMANCE		
Dump Height	M	2708 mm
Load Over Height	N	3253 mm
Reach at Ground	Q	1350 mm
Maximum Reach at Full Height	R	1115 mm
Loader Bucket Breakout Force		4867 kg
Loader Arm Breakout Force		3902 kg
Loader Lift Capacity at full height		2493 kg
Loader Bucket Capacity		1.1 m³ (cubic metre)

SPEED (GEAR - F/R)	
1st gear F/R	4.9 km/h (max)
2nd gear F/R	7.8 km/h (max)
3rd gear F/R	20.6 km/h (max)
4th gear F/R	33 km/h (max)

SERVICE CAPACITIES		
	SYSTEM CAPACITIES	SERVICE REPLACEMENT CAPACITIES
Hydraulic Oil Circuit Capacity	100 litre	50 litre
Fuel Tank	120 litre	120 litre
Engine Coolant	17 litre	17 litre
Engine Oil	13.7 litre	13 litre
Transmission	19.20 litre	10.20 litre
Rear Axle	17.10 litre	17.10 litre

TYRES		
	STANDARD (TRACTION) (INDUSTRIAL)	OPTIONAL (HEAVY DUTY)
Front	9.00 - 16 16 PR	9.00 - 16 16 PR
Rear	16.9 - 28 12 PR	14.00 - 25 20 PR/ 12PR

TURNING RADIUS	
Outside Bucket (Inner Wheels Braked)	4494 mm
Outside Wheels (Inner Wheels Braked)	3091 mm
Outside Bucket (Inner Wheels Not Braked)	5697 mm
Outside Wheels (Inner Wheels Not Braked)	4464 mm

SHIPPING WEIGHT OF VEHICLE	
Shipping weight of the Machine with Industrial Tyres	7477 kg
Shipping Weight of Machine with HD Tyre	7586 kg



DEALER NAME

Mahindra Construction Equipment

Mahindra & Mahindra [CE Business]

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