

# Performance par excellence most versatile Backhoe Loader

Available with HVAC cabin & Standard or Extendable Dipper



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## BEST-IN-CLASS FUEL EFFICIENCY WITH THE PROVEN MAHINDRA DITEC ENGINE

Mahindra has taken its learnings from tractor engines, to bring its fuel efficiency down incredible

- ◆ 10%\*\* more savings with Mahindra's engine
- ◆ 66.9 kW (91 HP) Turbocharged intercooled diesel engine
- ◆ Fuel efficient, compact, 4 cylinder, 3532cc engine.
- ◆ BSIII CEV / EU Stage III A Emission norms compliant



## LOW MAINTENANCE COST, MORE SAVINGS

With better technology and design enhancements, Mahindra has been able to lower lubricant refilling requirement with extended service intervals, thus reducing the overall maintenance cost.

- ◆ Hydraulic Oil: 50 litres with 3000 hours change interval
- ◆ Rear Axle Oil: 17.10 litres with 1500 hours change interval
- ◆ Engine Oil: 13 litres with 500 hours change interval
- ◆ Transmission Oil: 12 litres with 1000 hours change interval



LOW MAINTENANCE



SUPER SAVING



## HVAC CABIN FOR ALL WEATHER COMFORT

- ◆ HVAC system with 6 air vents positioned all around the cabin ensures quick & even cooling from all directions
- ◆ Dust free & comfortable environment for the operator enables better productivity with low fatigue for longer working hours
- ◆ Efficient cooling with minimal impact on fuel consumption
- ◆ HVAC unit positioned at a convenient location for easy service & maintenance access
- ◆ Superior leak free cabin ensures zero dust & debris entry inside the cabin

## SUPERIOR PRODUCTIVITY AND PERFORMANCE

Simple ideas, lead to great improvements. Mahindra EarthMaster is a substantially faster machine loaded with features that lead to far greater productivity.

- ◆ Banana Boom with 7 % # # more reach

With Special Condition	Standard Dipper	Extendable Dipper	
		Dipper Closed	Dipper Open
Maximum Dig Depth	4959mm	5097 mm	5987 mm

- ◆ Loader Dump Height: 2715 mm
- ◆ Maximum Load Over Height (Loader): 3267 mm



## SUPERIOR CONVENIENCE AND COMFORTABLE DESIGN

Mahindra believes that the most important part of the machine, is the person operating it. That's why we have worked hard to make his experience the most comfortable for his long hours of work.

- ◆ Ergonomic layout and seating - all controls are smooth and easy to reach.
- ◆ Joystick controls for Backhoe operations
- ◆ 21st century styling, with plush car like interiors
- ◆ Personal Storage Space and Metallic toolbox with easy access.

## SPECIFICATION SHEET

Engine		
Model	4915-IA-CEV	
Emission Standard	BSIII	
Type	Turbocharged Intercooled	
No. of Cylinders	4	
Displacement	3532 cc	
Gross Horse Power	91 HP [66.9 kW]@ 2200 RPM	
Peak Gross Torque	345 Nm ± 5%@ 1400 - 1600 RPM	
Hydraulics		
System Type and Pressure	Open Centre: 250 Bars [3675 PS I]	
Pump Type	Fixed Displacement, Gear Pump	
Pump Delivery	117 litres @ 2250 RPM	
Control Valves [Backhoe and Loader]	Sectional Valves [Sandwich Type, Individually Replaceable]	
Transmission		
<b>Type:</b> Four Speed [4 Forward, 4 Reverse], Four Wheel Drive [4WD], Synchro Shuttle Transmission with Electrically Operated Reversing Shuttle and Torque Convertor having Stall Ratio of 2.64:1		
Axles		
<b>Rear Axle:</b> Rigidly mounted drive axle, with outbound planetary final drives, driven by short drive shaft.		
<b>Front Axle: Four Wheel Drive (4WD)</b> Centrally pivoted, driven type balanced axle, with total oscillation of 16°, with remote greasing facility for the main pin.		
Brakes		
<b>Service Brakes:</b> Hydraulically actuated, self adjusting, maintenance free, oil immersed multi-disc, on the rear axle, operated by independent foot pedals, joined together for normal operation.		
<b>Parking Brakes:</b> Hand operated, mechanically actuated, caliper type brake system (integral with system)		
Electricals		
Dust-proof switches, ignition controls for engine start and stop, horn and reverse alarm, water and dust-proof electrical connectors. Electric: 12V, Battery: 100 Ah Alternator: 90 Ampere		
Cabin		
ROPS, FOPS compliant ergonomically designed HVAC cabin with contemporary styling, excellent operator comfort, day and night time visibility, rear view mirror, multiple storage options, two door access, 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.		
Steering		
Front wheel hydrostatic power steering with priority function and pressure relief setting of 145 bar.		
Operator information and Entertainment System		
Cluster with Water and Dust-proof connectors [IP-67] with Turn, Head Light and other signals, RPM, Fuel, Temperature gauges & Speedometer		
Gear Speed (Max with IT Tyres)		
	IND	HD
1st F/R	4.93 to 5.33 km/h	4.91 to 5.11 km/h
2nd F/R	7.94 to 8.58 km/h	7.91 to 8.32 km/h
3rd F/R	17.43 to 18.83 km/h	17.38 to 18.08 km/h
4th F/R	34.84 to 37.64 km/h	34.74 to 36.13 km/h
Service Capacities		
	System Capacities	Service Replacement Capacities
Hydraulic Oil Capacity	102 Litres	50 Litres
Fuel Tank	120 Litres	120 Litres
Engine Coolant	Ready Mix [17 Litres]	17 Litres
Engine Oil	13.7 Litres	13 Litres
Transmission	20 Litres	12 Litres
Rear Axle	17.5 Litres	17.1 Litres
Front Axle	8.9 Litres	7.6 Litres
Types		
	Standred (Industrial/Heavy Duty)	
Front	12.5 / 18 - 18 12PR	
Rear	IND - 16.9 - 28 12PR , HD - 14.00 - 25 12PR	

Backhoe Static Dimensions		VX90 4WD IT	VX90 4WD IT	
		(with Standard Dipper)	(with Extendable Dipper)	
			Dipper Closed	Dipper Open
AA	Overall Length	5864	5825	-
AB	Wheel Base	2175	-	-
AE	Height to Top of Cab	2950	-	-
AF	Overall Height	3665	-	-
AG	Track Width Rear	1720	-	-
AH	Track Width Front (4WD)	1920	-	-
AJ	Width Over Bucket	2404	-	-
AK	Max. Length From Front Axle Center (Carry position)	1836	-	-
AL	Max. Length From Rear Axle Center (Carry position)	3207	3578	-
	Width During Transport Condition	2422	2907	-
	Max. Length ( Carry position)	7218	7589	-
Backhoe Performance				
A	Max. Dig Depth *	4350 / 4959*	4542 / 5097*	5432 / 5987*
B	Reach at ground level to Wheel Center	7092	7268	8116
C	Reach at ground level to Slew Center	5761	5992	6776
D	Reach at full height to Slew Center	2774	2915	3611
E	Side Reach to Center of Machine	6291	6453	7301
F	Max. working Height *	5474 / 6043*	5549 / 6295*	6104 / 6850*
G	Max. Load over Height *	3606 / 4131*	3703/ 4335*	4257 / 4889*
H	King Post Travel	1060	1060	
Y	Bucket Tearout Force	5828 kg	5297 kg	5297 kg
Z	Dipper Tearout Force	3182 kg	3014 kg	2330 kg
	Lift capacity to bucket pivot at full reach w/o bucket	1449 kg	1255 kg	850 kg
	Bucket (Standard)	0.30 CuM	0.18 CuM	
Loader Performance				
M	Dump Height	2715	-	-
N	Load Over Height	3267	-	-
O	Pin Height	3477	-	-
P	Pin forward Reach	220	-	-
Q	Reach at Ground	1350	-	-
R	Max. Reach at Full Height	1100	-	-
S	Reach at Full Height - Bucket Dump	706	-	-
T	Below Ground Level Dig Depth	107	-	-
U	Roll back Angle at Ground	43°	-	-
V	Dump Angle	44°	-	-
W	Roll Back Angle at Max. Lift	48°	-	-
X	Overall Height Bucket Raised	4415	-	-
1	Bucket Breakout Force	6243 kg	-	-
2	Shovel	1.1 CuM	-	-
	Lift Capacity at Max. Height	3428 kg	-	-
	Payload	1800 kg	-	-
Turning Radius				
Inner Wheel Braked				
	Turning Radius outside bucket	4494	-	-
	Turning Radius outside wheels	3083	-	-
Inner Wheel Not Braked				
	Turning Radius outside bucket	5150	-	-
	Turning Radius outside wheels	3825	-	-
Shipping Weight of Vehicle				
	Net Weight of Machine ( Std. Bucket)	7592 kg	7901 kg	

Legend

\*SAE condition / Special condition