

MAHINDRA EARTHMASTER

SX SMART

The Smart Choice



EARTHMASTER SX SMART

The smart choice for Backhoe intensive applications.

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ENGINE	
Make	Mahindra
No. of Cylinders	4
Bore	96 mm
Stroke	122 mm
Displacement	3532 cc
Cooling system	Water cooled
Max Engine output, kW @ rpm	41.56 kW @ 2100 rpm
Max torque	214 Nm @1000-1200 rpm
Form of air aspiration	Naturally Aspirated
TRANSMISSION	
Make & model	Carraro TLB1 2WD
Gear Ratios	
1st	5.603
2nd	3.481
3rd	1.585
4th	0.793
Torque Convertor Ratio	3.23
MAX TRANSPORT SPEEDS IN GEAR (KMPH)	
1st	F/R 4.5-5.1
2nd	F/R 7.3-8.3
3rd	F/R 16-18.2
4th	F/R 32.1-36.3
HYDRAULICS	
System	Open Centre
Pump Type	Fixed displacement
Max Pump Flow Rate	103 Liters @ 2100 RPM
Max Working Pressure	210 bar
System Oil Capacity	100 Liters
TYRES	
Front	9.00 - 16 16PR
Rear	HD- 14.00 - 25 20PR OR 14.00 - 25 12PR IND - 16.9 - 28 12PR
TYRE PRESSURE (MRF)	
Front	75 +/- 5 psi
Rear	HD - 40 +/- 3 psi; IT - 35 +/- 3 psi
STEERING	
Type	Power Steering
Steering Valve	With Priority function and pressure relief setting of 145 bar
Other Feature	Emergency steering in case of Power Failure.

FRONT AXLE	
Type	Centrally pivoted, non-driven type unbalanced axle, with total oscillation of 16° with remote greasing facility for the main pin.
REAR AXLE	
Make & Model	Carraro 28.32M
Type	Rigid, Driven
Total Reduction ratio	20.14
BRAKES	
Service Brake Type	Foot operated hydraulically actuated oil immersed, 3 Disc Wetbrakes on rear axle
Parking Brake Type	Manual lever type oil immersed rear axle mounted
Brake Area	181.9 cm ² per disc
ELECTRICAL	
System Voltage	12V
Battery Rating	100Ah
Alternator Type	12V, 90 Amps

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BACKHOE STATIC DIMENSION		IND	HD	TOLERANCE
AA	Overall Length	5869	5860	-97/81
AB	Wheelbase	2175	2175	-11/11
AC	**Ground Clearance (Stabilizer Foot)	321	301	-10/10
	**Ground Clearance (Front Axle)	345	350	-10/10
	Slew centre to rear axle centre	1339	1339	-9/9
AD	**Slew Ground Clearance	536	510	-13/13
AE	**Height to top of Cab	2950	2950	-18/20
AF	**Overall Height	3675	3646	-86/85
AG	Track Width Rear	1720	1720	-9/9
AH	Track Width Front	1914	1914	-10/10
AJ	Width over Bucket	2404	2404	-12/12
AK	Max Length From Front Axle Center (Carry Position)	1843	1830	-57/47
AL	Max Length From Rear Axle Center (Carry Position)	3159	3164	-34/29
AM	Width During Transport Condition	2422	2422	-36/31
AN	Max Length (Carry Position)	7177	7169	-97/81
	Approach Angle	64°	64°	
	Departure Angle	21°	21°	
BACKHOE PERFORMANCE				
A	**Max Dig Depth	4197	4273	-103/103
B	Reach at ground level to Wheel Center	6926	6919	-36/36
C	Reach at ground level to Slew Center	5585	5556	-29/29

BACKHOE PERFORMANCE		IND	HD	TOLERANCE
D	Reach at full height to Slew Center	2774	2793	-103/103
E	Side Reach to Center of Machine	6115	6086	-34/32
F	**Max Working Height	5298	5196	-89/88
G	**Max Load Over Height	3309	3223	-103/103
H	King Post Travel	1060	1060	-5/5
Y	Bucket Tearout Force	5104 kg	3210 kg	
Z	Dipper Tearout Force	3210 kg	1403 kg	
	Lift capacity to bucket pivot at full reach w/o bucket	1403 kg	0.27 cu. M.	
	Bucket (Standard)	0.27 cu. M.	815	-4/4
	Std Bucket Width	815		
LOADER PERFORMANCE				
M	**Dump Height	2708	2713	-73/74
N	**Load Over Height	3253	3276	-63/65
O	**Pin Height	3468	3481	-60/62
P	Pin Forward Reach	235	205	-54/44
Q	Reach at Ground	1350	1350	-57/47
R	Max Reach at Full Height	1115	1085	-57/47
S	Reach at Full Height - Bucket Dump	724	681	-48/54
T	**Below Ground Level Dig Depth	114	115	-63/65
U	Roll Back Angle at Ground	43°	44°	-1/1
V	Dump Angle	44°	43°	-1/1
W	Roll Back Angle at Max Lift	48°	48°	-1/1
X	**Overall Height Bucket Raised 4405	4405	4417	-73/74
1	Bucket Breakout Force	4867 kg	4867 kg	
2	Loader Arm Breakout Force	3902 kg	3902 kg	
	Shovel	1.1 cu. M.	1.1 cu. M.	
	Lift Capacity at Max Height	2493 kg	2493 kg	
	Payload	1800	1800	
TURNING RADIUS				
Inner Wheel Braked				
	Turning Radius outside bucket	4494 mm	4494 mm	
	Turning Radius outside wheels	3091 mm	3091 mm	
Inner Wheel Not Braked				
	Turning Radius outside bucket	5697 mm	5697 mm	
	Turning Radius outside wheels	4464 mm	4464 mm	
Shipping Weight of Vehicle		IND	HD	
	Net Weight of Machine	7477 kg	7586 kg	
	Front Reaction	1587 kg	1587 kg	
	Rear Reaction	5891 kg	6000 kg	

Mahindra Construction Equipment

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