

mahindra
CONSTRUCTION
EQUIPMENT



HAULMASTER
**POWER TO
PERFORM**

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ENGINEERED BY

MAHINDRA FOR SUCCESS

From the house of Mahindra, a \$20 billion global conglomerate, and a leader in construction equipment, comes the Mahindra HaulMaster! A heavy-duty, power-packed haulage tractor that pulls its weight when it comes to carrying the heaviest of loads.

For instance, it has a carrying capacity of up to 5 tons to enhance rear axle traction. Its four-wheel drive ensures high performance in rough terrains including off-road conditions. It has a specially fabricated chassis for high durability and convenient servicing. It's powershift transmission, climate-controlled cabin enables operating comfort during long working hours. What's more, it also boasts of the **lowest operating cost per ton, per km.**

So, choose Mahindra HaulMaster for all your haulage needs. Be the master of your business.

MAHINDRA'S RELIABLE ENGINE

DRIVING YOU TOWARDS PROSPERITY.

**68 kW
(91 HP)
POWER**



The internationally-proven Mahindra engine, best-in-class fuel efficiency, make the Haulmaster the king of savings & power.. And guess what? There's more to it:

Bigger wheelbase, track width and optimised weight distribution for maximum stability and productivity

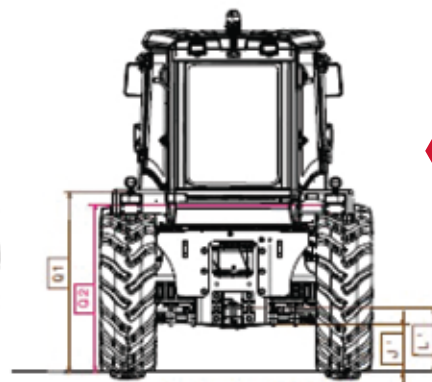
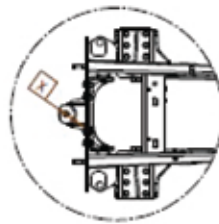
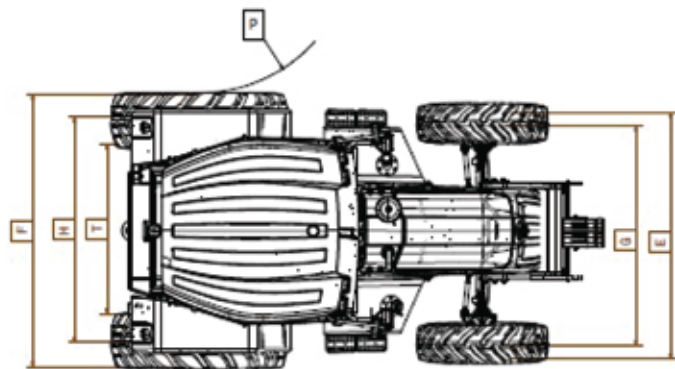
Two types of hitches to connect both single and double basket trailers

Rectangular box section Fabricated chassis for high reliability and repair ability

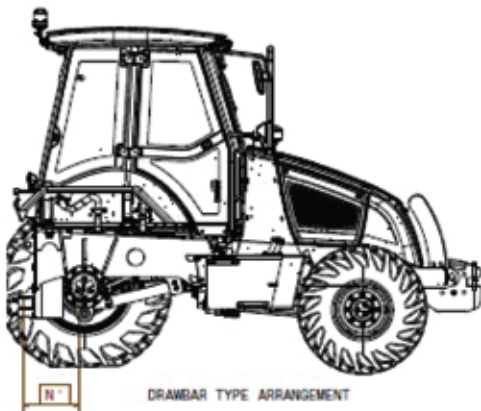
Torque converter-based transmission for smooth operation and direct drive (DD) for 3rd and 4th gear for high fuel efficiency

High dynamic load rating front (8T) and rear axles (11T) and solid rear rim for reliability

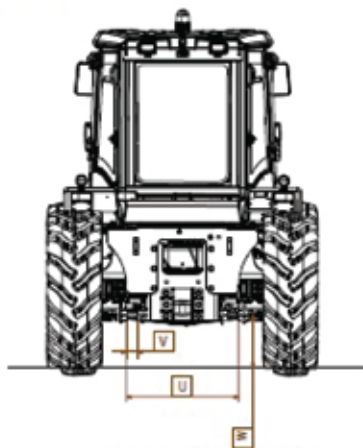
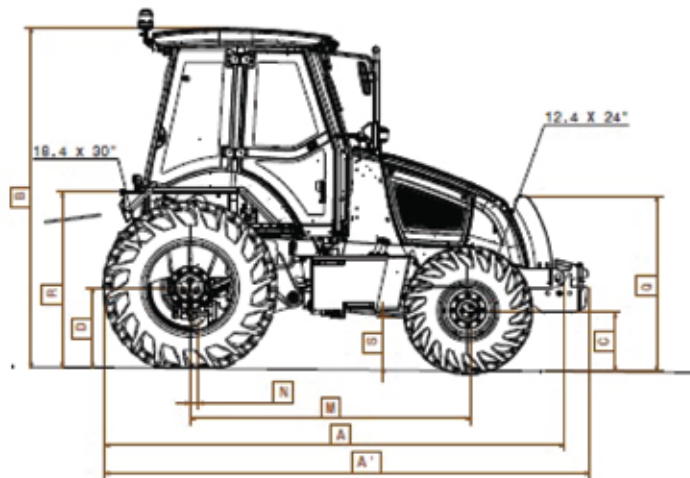
Highly realisable and fuel-efficient NEF series mahindra engine with turbo charger



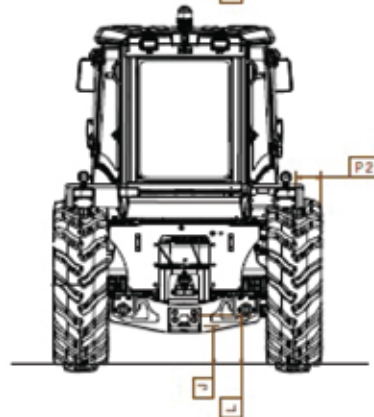
DRABBAR TYPE ARRANGEMENT



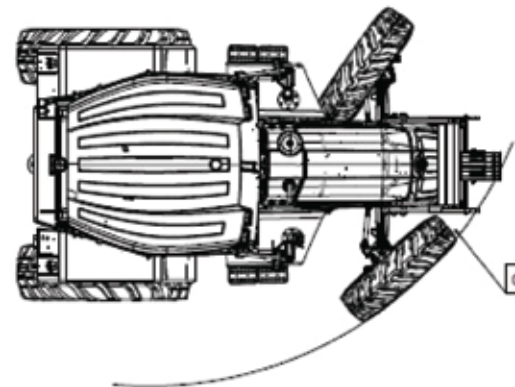
DRABBAR TYPE ARRANGEMENT



DRABBAR TYPE ARRANGEMENT



BALL PIN HITCH ARRANGEMENT



Engine	
Model name	4915 TREM3A
No. of cylinders	4
Displacement	3532 cc
A Gross horse power	66.9 kW @ 2200±50 rpm
Peak gross torque	345 Nm +/- 5 % @ 1400 -1600 rpm
Compression ratio	16± 0.5 : 1
Emission certificate	TREM3A
Aspiration	Turbo charged intercooled
Bore x stroke	96 x 122 mm
Engine low idle	850 +/- 50 rpm
Engine high idle	2400 +/- 50 rpm
Torque rise	18.72%
Governed Engine Speed	2200 rpm
Engine/transmission Cooling	Aluminium radiator with transmission oil cooler & charged air cooler
Engine Exhaust/Retardation	Under hood muffler
Engine Air Cleaner	Dry type with dual stage air cleaning, primary & secondary filters with Visibowl type pre-cleaner.
	Under hood mounted on engine across width

Transmission	
Make & Model	Carraro TCB80 SPS DD

Maximum theoretical wheel torque in converter mode	
1st gear	88.7 kN-m
2nd gear	55.1 kN-m
3rd gear	25.1 kN-m
4th gear	12.6 kN-m
Reverse	64.8 kN-m
Torque converter ratio	2.38 : 1

Maximum transport speed in gear with unladen condition (without trailer)	
1st gear (F/R)	5.9 to 6.4 km/hr
2nd gear (F/R)	9.5 to 10.3 km/hr
3rd gear (F)	20.2 to 22 km/hr
4th gear (F)	40.5 to 44 km/hr
Layout	Engine mounted with flex plate and co-axial rear output
Clutch Type	Constant mesh planetary gears
Gear Layout	Torque converter based transmission
Control Type	Electronically controlled & hydraulically actuated
Dry weight	285 kg
Gearing	4 Speed
Torque Converter Layout	Hydrodynamic with direct drive function in 3rd and 4th gear
Torque Converter Make & Model	Sachs W300

Front axle	
Make & Model	Carraro 26.17-1920
Type	Centrally pivoted, driven type balanced axle, with total oscillation of 16 deg
Front static load rating	20394 kg
Front dynamic load rating	8158 kg

Rear axle	
Make & Model	Carraro 28.43M-1900
Type	Rigidly mounted drive axle with outbound planetary final drive with diff lock arrangement
Rear hub reduction type	Total reduction ratio:- 19.038:1
A Rear dynamic load rating	11217 kg

Tyres	
Front tyre size	12.4 x 24" (8 ply)
Front rim size	W10 x 24
Front Tyre rolling radius	553.8
Rear tyre size	18.4 x 30" (14 ply)
Rear rim size	W15L x 30

Tyre Pressure	
Front	34±5 psi
Rear	40±3 psi

Brakes	
service brake type	Hydraulically actuated, self adjusting, maintenance free, oil immersed multidisc system on the rear axle
park brake type	Spring Applied Hydraulic Release (SAHR)
Class of Vehicle	A

Electrical System	
Voltage	12 volts
Battery	120 Ah Type- Maintenance free, sealed type. Mounting location: Battery box on LH side integrated with hydraulic tank
Auxillary (Trailer) electrical supply	Standard trailer plug at vehicle rear
Fuse box	Inside cabin with ease of access
Alternator	With HVAC Engine :- 12 volt / 120 Amp
Starter motor rating	2.2 kW
Operator Information	Digital electronic multi display unit Includes: Audible warning buzzer, Hour meter, Trip meter and Tell Tale for vehicle information
Gauges	Fuel level gauge, Engine speed (RPM), Vehicle speed, Engine coolant temperature
Switches/Levers/light	Combination switch includes High/low beam indicator of left /right & horn. Front & rear work lights, Hazard, key start/stop. FNR lever with gear selector at steering column. Electrically operated parking brake.

Details	Total System Capacity	Service Refill Capacity
Engine Oil	13.7 Litres	13 litres
Engine Coolant	Reday Mix (17 litres)	17 litres
Hydraulic oil for drawbar version	62.5 litres	50 litres
Hydraulic oil for Ball hitch version	65.5 Litres	50 litres
Front Axle Oil	(0.7 + 0.7 lit - Hub) + (7.5 lit - centre housing) = 8.9 lit	7.6 litres
Transmission Oil	20 litres	12 litres
Rear Axle Oil	(1.5 + 1.5 lit + Hub) + (14.5 lit - center housing) = 17.5 lit	17.1 litres
Brake Oil	750 ml	Top up
Top up for 1. Transmission 2. Rear axle 3. Rear axle oil cooling ckt tank to be done through transmission dipstick after running tractor for 10 minutes	8.6 lit + 2 lit. = 10.6 Lit.	10.6 lit

Hydraulic System	
Type	Manually operated with gear pump
Oil capacity	Version 1 (Drawbar) – 62. 5 Lit. Version 2 (Ball hitch) – 65.5 Lit.
Pumps	Fixed displacement gear driven
Primary pump displacement(cc/rev)	21 cc / rev - Applicable with trailer brake installation arrangement & Drawbar type arrangement - Version 1
working pressure	250 bar
Pump application	Power steering,hitch lift and trailer auxillary
Rated flow @ engine high idle RPM	50 lpm @ 2400 RPM
Control valve relief pressure	180 bar @ 2400 RPM (Only for ball hitch arrangement - Version 2)

Steering	
Type	Front wheel hydrostatic power steering
Working pressure	180 bar
Lock to lock turns	2.8 ± 0.2 turns
Relief pressure	145 bar

Operator Station	
Mounting	Rubber
Operator seat	Fully adjustable, weight compensating with built-in suspension
Dashboard	PDCPD housing the Display and Switches
Cabin	Ergonomically designed HVAC cab with contemporary styling, excellent operator comfort, day and night time visibility, two door access. Excellent leg space.

Front Body Work	
Chassis	C plate and closing plate box section chassis
Bonnet	Asthetically designed bonnet
Grill	LH & RH side grills provided for ease of engine maintenance
Guarding	Front bull bar
Fuel & Hydraulic tank	LHS side hydraulic tank & RHS side fuel tank
Rear Mudguards	Metallic with integral tail light mounting provision
Canopy Roof	Made up of LLDPE roto mould plastic

DEALER NAME

Version 1 - Drawbar type arrangement and Rear axle hitch arrangement	
Height - Ground to drawbar centre (L)	540 mm
Rear Axle Centre to Drawbar Centre (N)	620 mm
Pin dia	40 mm
Outer to Outer width (U)	1010 mm
One side lug width (V)	120 mm
Pin Diameter	45 mm
Hitch clearance (X)	70 mm

Version 2 - Spherical ball hitch arrangement	
Lift capacity	5000 kg
Hitch forward of rear axle (N)	53 mm
Ball dia.	90 mm
Hitch bracket meets AIS 091 PART- 02 & ECE R55 standards	

MACHINE CONFIGURATION	DRAWBAR (Version 1)		AXLE HITCH		BALL HITCH (Version 2)	
	UNLADEN	LADEN	UNLADEN	LADEN	UNLADEN	LADEN
TOTAL WEIGHT (kg)	5025	10025	5025	10025	5269	10269
FRONT AXLE REACTION (kg)	2534	1434	2534	2534	2601	2707
REAR AXLE REACTION (kg)	2491	8591	2491	7491	2668	7562
HITCH LOAD (kg)	5000					

Machine Dimensions with Cabin		
A	Length - Transport Position	4153 mm
A'	Length - Transport Position with CW	4378 mm
B	Height - Cabin	3050 mm
C	Height - Front Axle Centre (SLR)	543 mm
D	Height Rear Axle Centre (SLR)	725 mm
E	Width over tyres - Front	2165 mm
F	Width over tyres - Rear	2420 mm
G	Tyre Track Width Front	1920 mm
H	Tyre Track width - Rear	1940 mm
I	Width over Cab	1613 mm
J	Ground Clearance Hitch (Version 2)	298 mm
J'	Ground Clearance - Drawbar (Version 1)	434 mm
K	Ground clearance Front axle	419 mm
L	Height - Hitch Ball Centre (Version 2)	413 mm
L'	Height Ground to Drawbar Centre (Version 1)	540 mm
M	Front Axle Centre to Rear Axle Centre	2500 mm
N	Rear Axle Centre to Ball Hitch Centre (Version 2)	53 mm
O	Outer Turning Circle radius	4500 mm
P	Inner Turning Circle radius	1000 mm
Q	Height Bumper	1457 mm
R	Height - Mudguard	1593 mm
S	Ground Clearance below propshaft guard	424 mm
T	Inside Tyre width - Rear	1472 mm
U	Outer to Outer width (Version 1)	1010 mm
V	One side lug width (Version 1)	120 mm
W	Height - Pin Dia (Version 1)	483 mm
X	Hitch Clearence (Version 1)	70 mm
Q1	Tail lamp top edge distance from ground	1663
Q2	Tail lamp bottom edge disatnce from ground	1586
P2	Tail Lamp Side edge distance from Rear Tyre	333



mahindra Construction Equipment

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