

**M·A·N
DIESEL**



FOUR-WHEEL DRIVE

MODEL 415 L1A - 115 HP

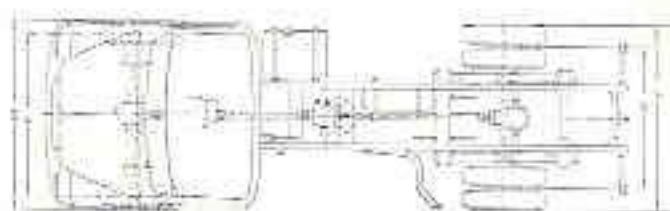
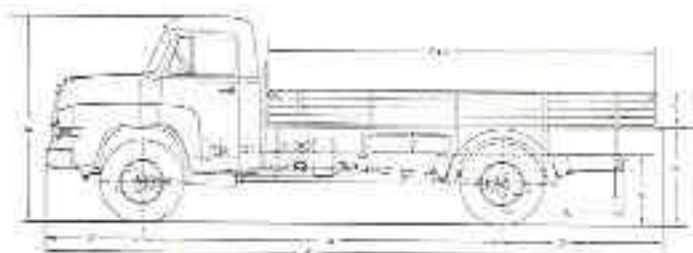
is preferred for operations in rough country and wherever heavy loads are intended to be transported under poor road conditions. The M.A.N. lorry 415 L1A perfectly meets all requirements of road transport because of its robust construction and its striking economy. A special feature of this lorry is the modern driver's cab with first class equipment and a one-part panorama wind-screen offering excellent visibility. The combined hydro-pneumatic brake system, actuated through a treadle type application valve, gives maximum braking effect wherever and whenever necessary. The 6-cylinder M-engine with a rated output of 115 HP and the excellent torque of 38 mkg (274 ft. lb.) uses the M-combustion system developed by M.A.N. and featured by quiet running of the engine, amazing flexibility and high fuel economy. In short: This powerful and most economical 4-wheel drive lorry embodies the experience gained in the course of more than four decades.

**TYP
415
L1A
115 PS**

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Dimensions

		Body		Dumpster		Semi-Trailer Tractor	
		mm	(in.)	mm	(in.)	mm	(in.)
B - Wheelbase		4200	(1437)	3400	(1115)	3000	(125.5)
A - Overall length		7500	(252.7)	6140	(201.7)	5200	(170.7)
C - Front vehicle overhang		1150	(43.8)	1150	(43.8)	1110	(43.6)
D - Rear vehicle overhang		1850	(72.8)	1450	(56.3)	-	-
D ₁ - Rear chassis overhang		1445	(57.2)	875	(34.3)	950	(37.4)
F - Height over cab, empty		2450	(96.5)	2450	(96.5)	2450	(96.5)
F - length of platform		3500	(137.9)	3100	(121.8)	-	-
G - Width of platform		2100	(82.6)	2100	(82.6)	-	-
H - Height of side boards		500	(19.7)	400	(15.7)	-	-
J - Height of platform, loaded		1120	(44.3)	1120	(43.3)	-	-
K - Height of frame loadline		800	(31.4)	800	(31.4)	800	(31.4)
L - Height of platform above frame		320	(12.6)	300	(11.8)	-	-
M - Overall width		2200	(86.5)	2200	(86.5)	2200	(86.5)
N - Track, front		1824	(71.7)	1824	(71.7)	1824	(71.6)
O - Track, rear		1822	(71.7)	1822	(71.7)	1820	(71.6)
P - Width over outer rear wheels		2140	(84.2)	2140	(84.2)	2140	(84.2)
T - Frame width		140	(5.5)	170	(6.7)	70	(2.8)
Ground clearance							
loaded frontload		308-308	(12.1-12.1)	308-308	(12.1-12.1)	308-308	(12.1-12.1)
Minimum track circle		15.9	(62.7)	14.1	(55.7)	12.5	(49.2)
Minimum turning circle		16.2	(63.8)	13.3	(52.3)	14.1	(55.5)

Axle loads and Weights

	Unit	Truck wheelbase 4200 mm (1437")	Dumper wheelbase 3400 mm (1115")
Weight of motor and cab	wt	3800 kg (8400 lbs)	3750 kg (8300 lbs)
Chassis carrying capacity with mounted driver's seat	wt	6200 kg (13750 lbs)	6750 kg (14900 lbs)
Permissible gross vehicle weight	wt	10000 kg (22050 lbs)	10000 kg (22050 lbs)
Permissible front axle load	wt	3400 kg (7500 lbs)	3400 kg (7500 lbs)
Permissible rear axle load	wt	6600 kg (14550 lbs)	6600 kg (14550 lbs)
Gross weight of truck (incl. driver, tools and cone type, without trailer equipment)	wt	4400 kg (9700 lbs)	4715 kg (10400 lbs)
Payload, depending on body	wt	5600 kg (12300 lbs)	6285 kg (13950 lbs)
Maximum gross front weight	wt	5500 kg (12100 lbs)	5500 kg (12100 lbs)
Maximum gross weight of truck with trailer	wt	15300 kg (33700 lbs)	16000 kg (35300 lbs)

Speeds, Ratios and Climbing ability

Gearbox ratios	max. speed km/hr. (miles/hr.)	speed at max. torque km/hr. (miles/hr.)		climbing ability %		sliding ability %			
		a	b	a	b	a	b		
First speed	7.57	-	-	5.2 (3.8)	3.1 (2.1)	32.1	34.4	16.1	30.3
Second speed	3.99	20.4 (12.7)	11.7 (7.3)	11.2 (7.0)	6.1 (4.0)	15.2	28.6	7.4	14.8
Third speed	2.37	34.0 (21.1)	20.5 (12.7)	19.8 (12.3)	11.2 (7.0)	7.0	14.8	3.4	7.0
Fourth speed	1.88	45.3 (28.1)	24.3 (15.1)	22.8 (14.1)	13.7 (8.5)	3.9	8.0	1.2	4.6
Fifth speed	1.00	83.0 (51.6)	46.8 (29.1)	44.0 (27.3)	25.1 (15.6)	3.4	3.5	0.4	3.1
Reverse	6.97	11.7 (7.3)	6.7 (4.1)	6.4 (3.9)	3.6 (2.2)	59.9	50.3	14.3	27.4

a - road speed, b - track country speed

† Only applicable to truck without trailer at rated engine speed.

Subject to modification without previous notice

Chassis

Frame:

Made of dressed channel — sections; side members riveted to cross-member members. Any heavy frame with radiator, engine and gearbox can be removed in the forward direction.

Clutch:

Single plate dry clutch.

Change-Speed Gearbox:

TE 5-speed cone shift dog-clutch synchromesh gearbox.

Transfer Case:

used speed 1:1
gross country speed 1:1.255
with differential lock between front and rear axle

Front and Rear Axle:

M.A.N. design, with separate front and live axles, front drives with spur wheel reduction gears, built-in oil pump for lubrication of gears and bearings.

Steering:

Top shift 21-Gummer type.

Footbrake:

Air brake, actuated through treadle-type application valve. Front axle: hydro-pneumatic. Rear axle: pneumatic.

Hand Brake:

Locking brake, acting on all 4 wheels (hydraulic mechanism).

Exhaust Brake actuated through the compressor air system.

Wheels:

Disc wheels with tapered rim tires R25 - 20 (13) reinforced.

Springs:

Semi-elliptical springs at front and rear with progressive action.

Fuel Tank:

1 tank, 100 litres capacity (26.42 gal.)

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