



MODEL 745 L1 - 145 h. p.

The heavy duty truck for operation with trailer.

This train with a gross weight of 38,500 kg. uses the M-A-N Diesel engine with the noiseless combustion system resulting in even higher fuel economy and better stamina. Ease and comfort for both the driver and mate by roomy driver's cab.

Front and rear axles of the well known and robust construction designed by M-A-N with screwed-on brake linings, 20 mm. thick.

Engine:

5 cylinder 4 stroke M-A-N Diesel engine using the M-system with direct fuel injection, torsional vibration dampers, highly efficient filtration:

3 fuel filtration stages, full-flow and by-pass oil filters, oil bath air cleaner with fresh air intake.



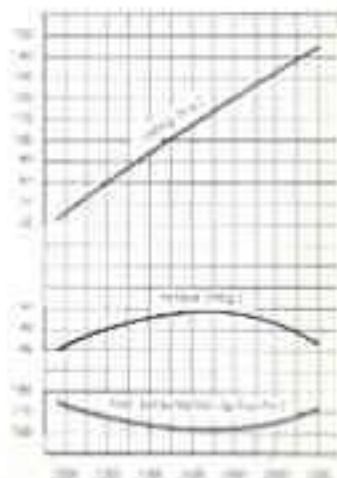
Model D 1246 M 5

Bore/stroke 112/140 mm. (4.41"/5.51")

Piston displacement
8276 cu.cm. (505 cu. in.)

Torque 50 mkg. (360 ft. lbs.)

Rated output . . . 145 h.p. at 2200 r.p.m.





THE DRIVER'S CAB

All steel construction, rear view windows in middle and the 2 corners, 2 electric windshield wipers, doors with push button lock, crank operated drop windows with pivoting ventilators, fresh air intakes at both sides, 2 rear view mirrors, trafficators, side lamps on roof, automatic lighting of cab and steps when opening doors, electric horn.

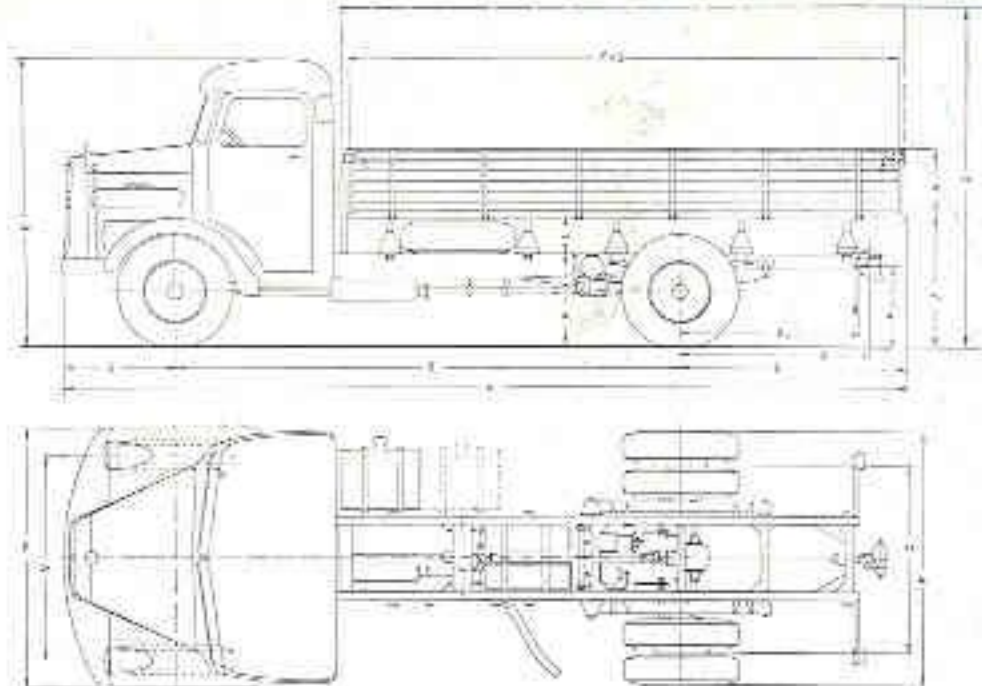
First class interior fittings, floor covered with rubber mats, arm rests, folding male's seat, luggage rack, sun visor, glove compartment, ceiling lights, 2 reading lamps, ashtrays, driver's seat adjustable all round, drawable male's seat.

Instrument panel with speedometer, oil pressure gauge, cooling water heat gauge with control lamp, brake pressure gauge with control lamp, charging control lamp, overspeed indicator, control lamp for trafficators, master button.

CLIMBING ABILITY

| | |
|-----------|--------|
| 1st speed | 34.4 % |
| 2nd speed | 18.5 % |
| 3rd speed | 11.8 % |
| 4th speed | 6.5 % |
| 5th speed | 3.8 % |
| 6th speed | 1.7 % |





CHASSIS

Clutch: Single-plate dry clutch, model LA 50

Gearbox: ZF 6 speed easy shift gear AK 6/55 model

Rear axle: M-A-N double reduction design with separate dead and live axles and spur wheel axle reductions

Front axle: Reverse Elliot type

Steering gear: air brake acting on all 4 wheels operated by means of treadle type application valve

Hand brake: acting on rear wheels assisted by servo brake cylinder

Wheels: Trilax wheels with tapered rims 9.0-20

Tyres: 11.00-20 rHD rainf. (or steel cord)

Fuel tank: one, 130 litres capacity

DIMENSIONS

only apply to specified wheel-base:

| | 3020 mm (121") for 2-axle trailer tractors and special trippers | 3600 mm (142") for trippers | 4600 mm (181") for trucks with standard bodies | 5200 mm (205") for trucks with special purpose bodies |
|---|---|-----------------------------------|--|--|
| | mm (in.) | mm (in.) | mm (in.) | mm (in.) |
| A - Overall length | 5905 (232.5) | 6810 (268.1) | 7760 (305.5) | 8760 (345.0) |
| D - Chassis overhang, rear | 930 (36.6) | 1170 (46.1) | 1640 (64.6) | 2040 (80.3) |
| D - Platform overhang, rear | - | 1675 (66.0) | 2075 (81.7) | 2420 (95.3) |
| F - Length of platform | - | 4000 (157.5) | 5000 (196.8) | 6000 (236.2) |
| H - Height of platform, loaded | - | 1285 (50.5) | 1365 (53.7) | 1565 (61.6) |
| H - Height of platform above frame | - | 385 (15.2) | 365 (14.4) | 365 (14.4) |
| Q - Distance from centre of trailer coupling pin to centre of rear axle | 930 (36.6) | 1142 (45.0) | 1745 (68.6) | 2140 (84.3) |
| Minimum track diameter, measured from centre of outer front wheel | 11.7 m (38.5') | 16.4 m (54.0') | 18.0 m (59.1') | 19.8 m (65.0') |

Applies to all wheelbases:

| | |
|---|---|
| C - Vehicle overhang, from 1055 mm (in. 41.7') | Φ - Width of outer rear wheels |
| L - Height over cab, empty - 2760 mm (in. 108.5') | 2098 mm (in. 82.5') |
| G - Width of platform | Φ - Height of trailer coupling, unladen |
| 7335 (288.0) | 787 mm (in. 31') |
| H - Height of side beam - 500 mm (in. 19.7') | Φ - Height over standard bow, empty |
| K - Height of frame, loaded - 900 mm (in. 35.4') | 2200 mm (in. 86.8') |
| R - Overall width - 2000 (78.7') | Φ - Width of frame |
| W - Overall width - 2000 (78.7') | 760 mm (in. 30') |
| N - Track, front - 1700 mm (in. 67') | Ground clearance, loaded front, rear |
| O - Track, rear - 1760 (69.3') | 207 (8.1) |

(') optional (**) 400 mm (in. 15.7') for floor.

AXLE LOADS AND WEIGHTS (with standard wheelbase - 4600 mm. (181"))

| | |
|--|-------------------------------|
| Permissible gross vehicle weight without trailer | 16 500 kg. (36 500 lbs.) |
| Permissible front axle load | 4 500 kg. (9 900 lbs.) |
| Permissible rear axle load | 11 200 kg. (24 700 lbs.) |
| Frame carrying capacity | 10 900 kg. (24 000 lbs.) |
| Permissible gross vehicle weight with trailer | 14 900 kg. (32 800 lbs.) |
| Gross trailer weight at climbing ability of 15.8 % | 16 000 kg. (35 300 lbs.) |
| Gross trailer weight at climbing ability of 11.9 % | 24 000 kg. (52 900 lbs.) |
| Gross train weight | 38 500 kg. (85 000 lbs.) |
| Service weight of chassis with (without) driver's cab about | 4 600 (10 150 lbs.) |
| Empty weight of truck with driver's cab and platform including spare wheel with tyre, driver, tools and fuel | about 4 600 kg. (10 000 lbs.) |

SPEEDS, REDUCTIONS AND CLIMBING ABILITY

| Truck weight | kg. (lbs.) | 15.50% (34.20%) | | | 14.30% (31.20%) | | | 14.90% (32.80%) | | | 16.50% (36.30%) | | |
|-------------------|-------------|--------------------------|--------------|------|-------------------|-------------|--------------|--------------------------|-------------|------------|------------------|------|---|
| | | Speed ratio: (miles/hr.) | | % | Climbing ability | | % | Speed ratio: (miles/hr.) | | % | Climbing ability | | % |
| max. engine speed | max. torque | max. engine speed | max. torque | | max. engine speed | max. torque | | max. engine speed | max. torque | | | | |
| 1st speed | 1 = 9.05 | 2.7 (4.9) | 4.7 (10.3) | 34.4 | 15.8 | 11.0 | 8.9 (5.2) | 4.5 (3.3) | 20.9 | 14.3 (8.0) | 9.0 (5.6) | 16.1 | |
| 2nd speed | 1 = 5.47 | 19.2 (8.2) | 9.1 (5.0) | 15.0 | 8.5 | 6.1 | 21.0 (13.0) | 12.0 (8.2) | 16.2 | 14.3 (8.0) | 9.0 (5.6) | 16.1 | |
| 3rd speed | 1 = 3.74 | 19.3 (12.0) | 11.8 (7.4) | 11.8 | 3.2 | 3.9 | 21.0 (13.0) | 12.0 (8.2) | 16.2 | 14.3 (8.0) | 9.0 (5.6) | 16.1 | |
| 4th speed | 1 = 2.42 | 29.3 (18.5) | 18.5 (11.4) | 6.5 | 2.5 | 1.8 | 22.5 (12.5) | 20.4 (12.0) | 3.9 | 14.3 (8.0) | 9.0 (5.6) | 16.1 | |
| 5th speed | 1 = 1.59 | 45.4 (28.2) | 27.5 (17.3) | 3.8 | 1.0 | 0.9 | 27.5 (17.3) | 31.0 (19.2) | 3.2 | 14.3 (8.0) | 9.0 (5.6) | 16.1 | |
| 6th speed | 1 = 1.09 | *72.2 (49.2) | *44.2 (27.4) | 1.7 | 0.1 | 0.1 | *75.6 (48.7) | *49.5 (30.7) | 1.3 | 14.3 (8.0) | 9.0 (5.6) | 16.1 | |
| Reverses | 1 = 7.58 | 9.1 (5.6) | 5.5 (3.4) | 25.0 | 12.8 | 9.7 | 9.8 (6.1) | 6.7 (3.8) | 24.6 | 14.3 (8.0) | 9.0 (5.6) | 16.1 | |

* only applicable to truck without trailer

subject to modification without previous notice

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