

M·A·N DIESEL



SPECIAL PURPOSE TRUCK 860 L1 - 160 H.P.

POWER - SPEED - ECONOMY - during operation without or with trailer are the distinctive characteristics of this 22,000 lbs. truck featured by outstanding engine performance and carrying capacity.

The quiet running M·A·N Diesel engine uses the M-combustion system resulting in high fuel economy and excellent starting in the lower speed range.

Maximum comfort for the passengers by the amply dimensioned and roomy driver's cab.

ENGINE: 6-cylinder 4-stroke M·A·N Diesel engine operating on the M-system with direct fuel injection, torsional vibration dampers and highly efficient filtration:

3 fuel filtration stages, full flow oil filter and oil bath air cleaner with fresh air intake.



| | |
|---------------------|-----------------------------|
| Model | D 1546 M 2 |
| Bore / stroke | 115 / 140 mm (4.51 / 5.51") |
| Piston displacement | 8725 cc (532 cu. in.) |
| Torque | 56 mkg (405 ft. lb.) |
| Rated Output | 160 h.p. at 2200 r.p.m. |



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DRIVER'S CAB:

All steel construction, rear view windows in middle and the 2 corners, 2 electric window cranks, wipers, doors with push button lock, crank operated drop windows with pivoting ventilators, fresh air intakes on both sides, 2 rear view mirrors, reflectors, fids, steps on roof, automatic lighting of eye and steps when opening doors, electric horn.

First class interior finish, floor covered with rubber mats, arm rests, folding motor's seat, luggage rack, sun visor, glove compartment, ceiling lamp, 2 reading lamps, ashtrays, driver's seat adjustable all round, drawble motor'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 ventilators, starter button.

CLIMBING ABILITY

Applies to standard trucks with rear axle ratio 4.73

1st. speed

33.0%

2nd. speed

17.5%

3rd. speed

11.3%

4th. speed

6.6%

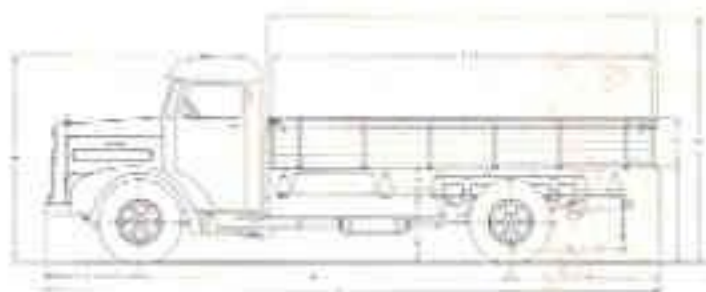
5th. speed

3.7%

6th. speed

1.8%





DIMENSIONS:

| | For Semi-Trailer Tractor | | For Tractor | | For standard body trucks | | For special body trucks | |
|--|--------------------------|-------|-------------|-------|--------------------------|-------|-------------------------|-------|
| | mm | inch | mm | inch | mm | inch | mm | inch |
| A - Overall length | 4400 | 251 | 7140 | 280 | 8950 | 352 | 9050 | 357 |
| B - Wheelbase | 4000 | 157 | 4000 | 157 | 5000 | 196 | 5500 | 216 |
| C - Front body overhang | 1220 | 48 | 1220 | 48 | 1220 | 48 | 1220 | 48 |
| D - Rear body overhang | — | — | 1320 | 52 | 1860 | 73 | 2300 | 90.5 |
| E - Rear overhang of chassis frame | 1540 | 60.5 | 1540 | 60.5 | 1370 | 54 | 1870 | 73.5 |
| F - Height over axle, without | 2740 | 108.1 | 2740 | 108.1 | 2740 | 108.1 | 2740 | 108.1 |
| G - Height over axle, with | — | — | 4000 | 157 | 2000 | 79 | 2000 | 79 |
| H - Width of platform | — | — | 2320 | 91 | 2340 | 92 | 2340 | 92 |
| I - Height of side boards | — | — | 500 | 19.6 | 600 | 23.6 | 600 | 23.6 |
| J - Height of platform, sides | — | — | 120 | 4.7 | 120 | 4.7 | 120 | 4.7 |
| K - Chassis height, base | 108 | 4.2 | 108 | 4.2 | 108 | 4.2 | 108 | 4.2 |
| L - Height of platform above chassis | — | — | 420 | 16.5 | 400 | 15.7 | 400 | 15.7 |
| M - Overall width | 2000 | 78.7 | 2000 | 78.7 | 2100 | 82.7 | 2100 | 82.7 |
| N - Track, base | 2000 | 78.7 | 2000 | 78.7 | 2100 | 82.7 | 2100 | 82.7 |
| O - Track, rear | 2560 | 100.8 | 2560 | 100.8 | 2560 | 100.8 | 2560 | 100.8 |
| P - Width over outer rear tyre | 2420 | 95 | 2420 | 95 | 2420 | 95 | 2420 | 95 |
| Q - Distance from centre of trailer coupling to centre of rear axle | — | — | 1000 | 39.3 | 1460 | 57.5 | 1900 | 74.8 |
| R - Height of trailer coupling, sides | — | — | 80 | 3.1 | 80 | 3.1 | 80 | 3.1 |
| S - Height of standard horizontal member above ground level, without | — | — | — | — | 320 | 12.6 | 320 | 12.6 |
| T - Width of chassis frame, front | 760 | 29.9 | 760 | 29.9 | 760 | 29.9 | 760 | 29.9 |
| U - Width of chassis frame, rear | 760 | 29.9 | 760 | 29.9 | 760 | 29.9 | 760 | 29.9 |
| Ground clearance, front | — | — | — | — | — | — | — | — |
| Ground clearance, rear | 14.1 | 0.55 | 14.4 | 0.56 | 18.2 | 0.71 | 20.4 | 0.80 |
| Minimum track width | 200 | 7.8 | 200 | 7.8 | 200 | 7.8 | 200 | 7.8 |
| Minimum turning circle | 36 | 1.4 | 36 | 1.4 | 36 | 1.4 | 36 | 1.4 |

WEIGHTS:

| | | | | |
|---|-----------|-----------------------|---|------------------------|
| For trucks with standard platform | Wheelbase | 5,000 mm (164') | Empty weight of vehicle (with 1 spare wheel and tyre, driver and water) | 4,700 kg (10,370 lbs) |
| Weight of chassis without driver's seat | — | 3,400 kg (7,500 lbs) | Chassis carrying capacity | 11,400 kg (25,400 lbs) |
| Service deadweight of vehicle (with 2000, 2400 and 2800 cc. spare wheel and driver) | — | 8,400 kg (18,500 lbs) | Permissible front axle load | 5,400 kg (11,900 lbs) |
| | | | Permissible rear axle load | 11,800 kg (26,000 lbs) |
| | | | Permissible gross vehicle weight | 17,000 kg (37,500 lbs) |
| | | | Permissible gross train weight | 29,200 kg (64,500 lbs) |

ROAD SPEEDS AND CLIMBING ABILITIES:

| | | | | | |
|--|-----------------|------------------------|-------------|---------------------|-----------|
| Truck weight | kg | 17,000 (37,500 lbs) | | | |
| Gross train weight | kg | 11,000 (24,200 lbs) | | 22,000 (48,500 lbs) | |
| Gross axle weight | kg | 22,000 (48,500 lbs) | | 39,000 (86,000 lbs) | |
| Rear axle ratio | | 4.18 | | | |
| | Gradeable ratio | Speeds (with 1000 cc.) | Efficient % | Gear ratio | Quality % |
| 1st speed | 1:4.32 | 8.3 | 21.0 | 21.7 | 12.5 |
| 2nd speed | 1:2.47 | 13.9 | 17.0 | 3.6 | 10.0 |
| 3rd speed | 1:2.12 | 20.4 | 17.0 | 2.5 | 10.0 |
| 4th speed | 1:2.45 | 28.2 | 15.0 | 2.4 | 10.0 |
| 5th speed | 1:1.35 | 44.2 | 13.0 | 1.9 | 10.0 |
| 6th speed | 1:1.20 | 54.2 | 11.0 | 1.8 | 10.0 |
| Reverse | 1:7.98 | 6.5 | 26.0 | 17.0 | 10.0 |
| Lowest speed in 1st gear at maximum torque | | | | 1.7 km/h (1.0 mph) | |
| Lowest speed in 1st gear on level road | | | | 1.9 km/h (1.1 mph) | |

* Only applies to truck without trailer.

Figure figures based upon specification with tyres 12.00-20 w/d.

CHASSIS

Clutch: Single plate dry clutch type LA 70

Gearbox: A speed easy shift gear box ZF AX 6/55

Rear Axle: M-A-N double reduction design with separate dead and live axle and spur wheel side reductions. Additional lubrication by oil pump.

Front Axle: Reversed Difer type.

Steering gear: Stud and worm type ZF.

Footbrake: Airbrake acting on all four wheels, operated by means of treadle type application valve.

Handbrakes: Acting on the rear wheels assisted by safety brake cylinder.

Wheels: Trilux wheels with tapered rims 8.5-20.

Tyres: 12.00-20 w/d reinforced (or steel cord).

Fuel Tank: 1 tank 130 litres (34.4 gals) capacity.

FURTHER EQUIPMENT AND ACCESSORIES:

Dynamo 300 watt, 12 volts
Starter motor 4 h.p., 24 volts
2 batteries 12 volts, 125 ampere each
2 cylinder air compressor

Headlights with hand operated dimming switch and parking lights tail lights and stop lights, hand lamp with cable, tyre inflater with hose, front turning coupling, hydraulic jack, tools, trailer safety coupling and trailer brake connection.

MASCHINENFABRIK AUGSBURG-NÜRNBERG AG - MUNICH WORKS

