



**TGS 6x4 Tipper Chassis**



## Engines

MAN 6-cylinder 4-valve in-line engine, with Common Rail injection, turbo-charging and intercooling, EDC engine regulation, emission standard EURO4, with OBD (on-board diagnosis) and NOX-control, external controlled exhaust gas recirculation (EGR) and PM-KAT. No AdBlue fuel additive necessary. Fitted with MAN Engine Valve Brake (EVB).

## Transmission

MAN 12 speed TipMatic (ZF AStronic) gearbox. 12 forward speeds, 2 reverse ratios. Suitable for gross train weights up to 70T (occasionally up to 90T+GTW upon application). Automated constant-mesh gearbox. With MAN TipMatic, shifting and clutching are electro-pneumatic - there is no clutch pedal. Normal mode is automated with manual mode available (shifting via fingertip lever). Driving with engaged PTO only in gears 2, 4 or 6. 'M' setting for precise low-speed manoeuvring in forward and reverse. 'X' setting for off-road use.

## Intake / Exhaust System

Raised air intake mounted on the rear L/H side of the cabin with air filter housing mounted under rear of cabin. Exhaust is upswept on the RH side.

## Wheels and Tyres

Fitted with 295/80 R22.5 tyres on 8.25 x 22.5 10 hole steel disc wheels.

Spare wheel supplied loose and mounted temporarily on frame. Basic wheel changing equipment fitted in cabin storage lockers.

## Front Axle / Front Suspension

MAN dropped front axle with 'sealed for life' hub units. Parabolic springs with shock absorbers and stabiliser. 7,100kg capacity on prime movers. 8,000kg capacity on rigid chassis.

## Rear Axle / Rear Suspension

MAN medium height design hub reduction tandem axle with extra ground clearance. 8 air bag electronically controlled air suspension (ECAS) with stabilisers and shock absorbers. Fitted with differential locks and interaxle lock. Optional differential ratios available: 3.63, 4.33, 4.83. (BBS model available with parabolic rear springs, normal height chassis design and MAN hypoid axles with disc brakes). Suspension design rating: 2 x 11,500kgs.

## Fuel Tanks

Internally split 400Ltrs fuel / 200Ltrs hydraulic aluminium tank fitted as standard with lockable fuel cap or optional 600Ltrs fuel only tank.

Engine	Model	Rating	Torque
480 Hp	MAN D26 12.419 Ltrs	480 hp/353kW @ 1500 - 1900rpm	2300Nm @ 1000 - 1400 rpm
440 Hp	MAN D20 10.518 Ltrs	440 hp/324kW @ 1500 - 1900rpm	2100Nm @ 1000 - 1400 rpm
400 Hp	MAN D20 10.518 Ltrs	400 hp/294kW @ 1500 - 1900rpm	1900Nm @ 1000 - 1400 rpm



Engine	Model	Transmission Ratios	Std. Differential Ratios
480 Hp	ZF 12 AS 2330 OD	12.33 - 0.78	4.00
440 Hp	ZF 12 AS 2330 OD	12.33 - 0.78	4.00
400 Hp	ZF 12 AS 2330 OD	12.33 - 0.78	4.00

## Frame

Medium height ladder frame made from QstE500TM high strength steel. Frame Dimensions 270mm x 85mm x 8mm. 3 piece steel bumper fitted.

## Brake System

MAN Electronic Brake System (EBS) with ABS standard. Disc Brakes fitted to front axle, drum brakes to rear axles. Full air operated system fitted with air dryer. MAN 'easy start' function holds service brakes on hills for smoother pulling away. Anti jack-knife brake. (BBS model fitted with disc brakes on hypoid rear axles).

## Clutch

Single plate 430mm diameter clutch - asbestos free.

## Speed Limiter

Vehicle electronically limited to 100kmh.

## Cab Options

M Cab (day) 2240mm wide, 1880mm long.

L Cab (single sleeper) 2240mm wide, 2280mm long.

LX Cab (single sleeper high roof) 2240mm wide, 2280mm long.

## Cab Exterior

Cab compliant with ECE R29 safety requirements. All metal parts are Galvanised. 65 degree cab tilt angle, 87 degree door opening. Exterior sunvisor. Entry lighting for driver and passenger. Central locking for both doors. Electrically adjustable and heated mirrors including kerb mirrors. Lockable front access panel. Built-in side storage lockers on L and LX cabins. Electrically operated cab tilting mechanism. Mechanical roof hatch. Air sprung cab mounts front and rear (coil sprung on M cab). Chrome trim to front grille. Stone guard grille in front of radiator. Full aerodynamic kit and roof spoiler options available for most models.

## Cab Interior

High comfort drivers seat with air suspension, integrated seat belt and arm rests. Factory fitted climate control system, radio/CD player with MAN 6 speaker sound system with sub-woofer (no sub-woofer in day cab), electrically operated power windows, interior sunblinds to windscreen and both doors. Full curtains to sleeper cabins. Slide-out central storage box between seats. Large storage drawer in dash console, modular cup holder. Silver dashboard trim strip, glasses compartment in dashboard. Reading lamps for driver and co-driver. Storage lockers above windscreen in LX cab.

## Instrument Panel

Full electronic Base Line dash display with easy access to vehicle information systems. Permanent guages: tachometer, speedometer, odometer, air pressure guages, water temperature, fuel guage, indicator operation, gear selection. Sample electronic display: time, outside temperature, turbo boost, trip meter, brake wear, oil level, fuel consumption, battery voltage, etc. Warning lights for all major functions such as: diff lock status, low air pressure, low fuel, lights, cab lock, air suspension, etc.

## Steering

Fully adjustable steering wheel with pneumatic lock. Multifunction steering wheel interfaces with CD/radio, cruise control and electronic dash display functions.

## Electrical System

24V Electrical system with manual battery isolation switch. 80 Amp alternator, 2 x 155Ah batteries.

## Lights

Headlights fitted with longlife H7 type globes, additional integrated lower spotlight/foglights. Lighting system operation check. Protective grille for headlights.

## Paintwork

Cab finished in Traffic White (RAL9016). Chassis finished in Graphite Black (RAL 9011). Steel bumper and lower plastics finished in grey.



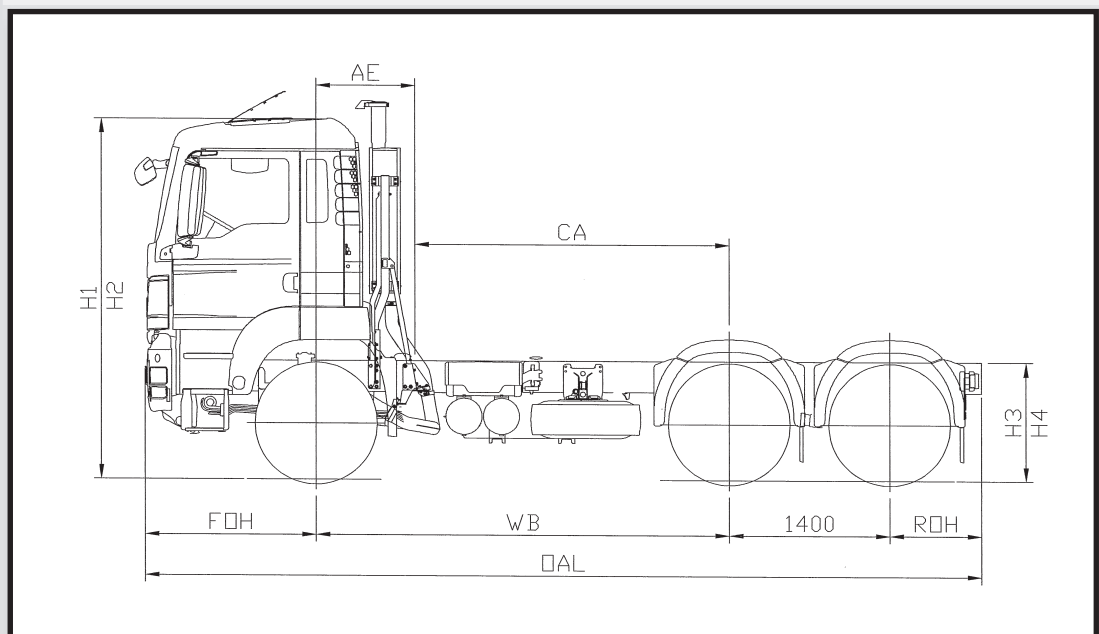
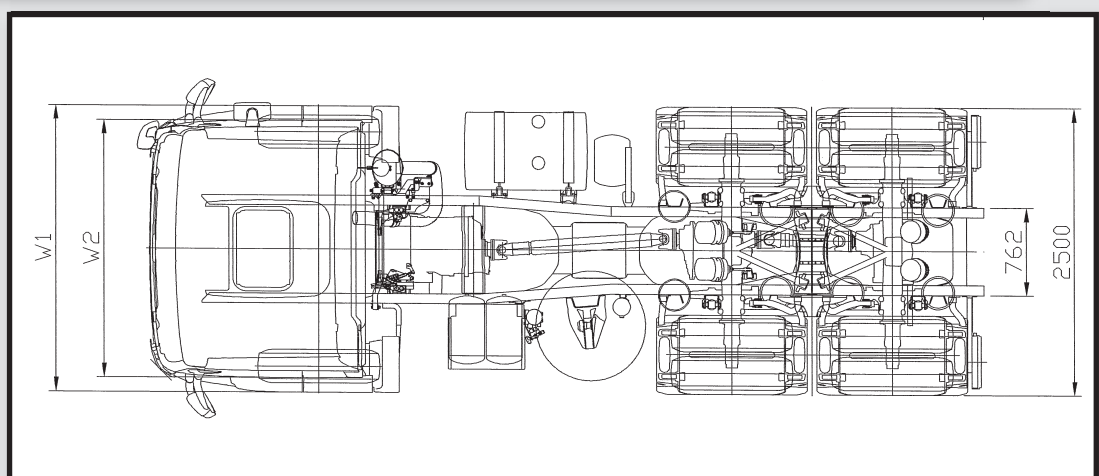
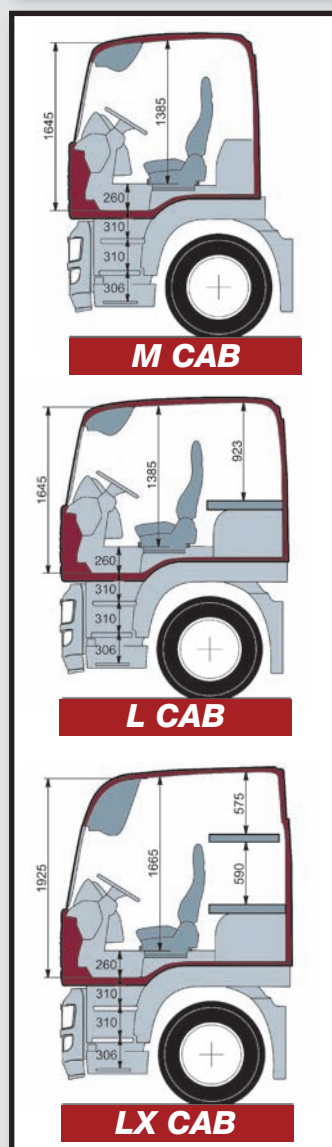
# Specification Data

**GVM Max: 26,000kg**

Weights kg:	Wheelbase (mm)	Front	Rear	Total
<b>M Cab</b>	3600 BLS	4840	3925	8765
	3600 BBS	4780	4005	8785
<b>L Cab</b>	3600 BLS	4995	3925	8920
	3600 BBS	4935	4005	8940
<b>LX Cab</b>	3600 BLS	5015	3925	8940
	3600 BBS	4980	4005	8985

Turning Circle:	Wheelbase (mm)	Kerb to Kerb (m)	Wall to Wall (m)
	3600	15.6	17.3

Chassis Dimensions:	Wheelbase (mm)	FOH	ROH	OAL	CA	CF	AE	H1	H2	H3	H4	W1	W2
<b>M Cab</b>	3600mm BLS	1492	700	7192	3390	4790	850	3207	3132	1062	1032	2490	2240
	3600mm BBS	1475	700	7175	3390	4790	850	3092	3017	1077	957	2490	2240
<b>L Cab</b>	3600mm BLS	1492	700	7192	3390	4790	1150	3207	3132	1062	1032	2490	2240
	3600mm BBS	1475	700	7175	3390	4790	1150	3092	3017	1077	957	2490	2240
<b>LX Cab</b>	3600mm BLS	1492	700	7192	3390	4790	1150	3505	3430	1062	1032	2490	2240
	3600mm BBS	1475	700	7175	3390	4790	1150	3390	3315	1077	957	2490	2240



1. All above dimensions are subject to proper weight distribution.
2. State and Federal regulations over ride information supplied on this brochure.
3. Vehicle depicted in this specification sheet is for illustration purposes only.
4. Maximum BL (ROH) is calculated using 60% of WB or 3.7mt whichever is less (ensure sufficient chassis rail is available to comply with State regulations).
5. Tare weight includes 400 litres of fuel, 75kg driver, spare wheel and steel wheels.
6. Specifications are subject to change without notice. Copyright © 2009, MAN Automotive Imports Pty Ltd.



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