



Expedition vehicle MD83h / MAN TGS 6x6



Chassis

- MAN TGS 33.480 6x6
- M-Cab
- Wheel base 4500 + 1400 mm (177" + 55")
- Engine performance 353 kW / 480 hp, Euro 4
- 12-speed gearbox „MAN TipMatic Offroad“
- Transfer case with off-road gear reduction
- All wheel drive with central differential lock
- Differential lock in front and rear axle
- Parabolic leaf springs
- Drum brakes with ABS
- Tires 16.00 R 20 tubeless with beadlocks
- 2 chamber fuel tanks, capacity 800 liters (211 US gallons)
- Fuel prefilter with water separator
- Connector for compressed air
- Central tire inflation system CTIS
- Aluminum roof rack with branch guard, platform
- Xenon broad-beam lights in front
- Xenon high-beam lights in front
- 2 Xenon working lights sideways
- Light guards
- Truck horns
- 2 air suspended Recaro leather seats, heated + ventilated
- Leather steering wheel
- Sunscreen in front of windscreen
- Integrated air conditioning
- Alarm system with electronic immobilizer
- Power locks
- ETA automatic cutout
- Sound-system with CD-player and I-Pod connection
- Garmin satellite navigation (GPS)
- CB Radio

Body

Outer dimensions of the cabin

- Length 8300 mm (327"), width 2480 mm (98"), height 2205 mm (87")

Inner dimension of the cabin

- Length 8180 mm (322”), width 2240 mm (88”), height 2050 mm (81”)

Frame assembly

- 3-point kinematic attachment with main and flex mounts for stress-free body coupling to the torsion elastic chassis frame

Body unit construction

- Self supporting UNICAT sandwich plate panels of fiberglass composite
- Panel connections made by adhesive bond to custom extrusions eliminates metallic heat conduction paths
- Matched thermal coefficients of expansion prevent distortion with changes in temperature
- Wall thickness 60 mm (2.36”) with polyurethane foam insulation, 3 mm (0.12”) FRP outer surface, 2 mm (0.08”) FRP inner surface
- Insulation rating 0.44 W/sqm K (0.078 btu/ft h degF)
- Bottom panel with integrated welded steel frame and FRP surfaces
- Slope at rear to improve slope angle

Entrance door and storage compartment doors

- Entrance door and storage compartment door constructed of fiberglass composite panels and frames
- Thickness of doors 60 mm (2.36”)
- Double sealed doors with heavy duty locks with seal compression
- Stainless steel hinges throughout
- Additional retractable bolts at top and bottom of entrance door
- Safety cylinder locks all keyed alike

Windows

- Burglarproof, scratchproof top-hinged windows with fiberglass frames
- Double insulated thermal window glass
- Double seals with heavy duty lock
- Stainless steel hinges throughout
- Stainless steel lifting and locking device
- Aluminum-frame black-out and mosquito blinds

Skylights

- Burglarproof skylight with aluminum frame in shower
 - 12.7 mm acrylic glass
 - Heavy duty lock
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- MaxxVent roof fan in kitchen
 - 4-step switchable fan for ventilation and exhaust

Interior layout

Living room

- Seating area adjustable swiveling table on pedestal in the front of the cabin
- Seating unit converts to double bed
- TV cabinet with shelves

Master bedroom

- Master bedroom with double bed in the rear of the cabin on pedestal
- Comfortable mattress with suspension, ventilation and heating
- Size: 1800 x 2000 mm (71" x 79")
- Door to isolate from living area
- TV cabinet with drawers on ball bearings

Bunk beds

- 2 bunk beds with comfortable mattresses
- Size: 700 x 1900 mm (28" x 75")
- Convertible to a sofa

Sanitary room

- Combined shower and toilet room with door to isolate from living area
- Separated shower cabin with access from sanitary room, closed with a curtain
- Cupboard with VARICOR countertop and integrated wash basin
- Wall cupboard with mirror above the basin

Kitchen

- Countertop with integrated stainless steel sink
- 2-plate induction cooker
- Microwave with oven and grill
- 160 liters (42 US gallons) fridge with freezer rated 3 stars
- Kitchen cabinet with drawers on ball bearings
- Shock-proof separation for tableware, cookware and kitchen appliances
- Overhead cupboards above kitchen
- Folding kitchen countertop

Storage

- Large wardrobe with drawers and clothes rail
- Overhead cupboards and storage boxes in bed area
- Storage boxes in seating area
- Storage boxes under entrance steps
- Large outside storage compartment under the bed pedestal
- Aluminum exterior storage boxes

Workmanship

- All furniture is built to the highest cabinet making standard, made of wood core plywood with white surfaces and teak edges
- Heavy duty locks and hinges
- All drawers on ball bearings

Lay out

- Teak floor
- Walls and ceiling are painted with multiple coats
- Upholstery made of ALCANTARA

Technical equipment

Electrical equipment

- Control panel for power management and monitoring of liquid levels
- Battery main switch, fault current breaker, safety cut out
- DC power supplied by AGM battery bank
- Battery capacity: 24 V – 420 Ah
- Charged by vehicle's alternator with charging current distributor
- AC-DC charger: 28 V – 25 A
- Inverter / Charger 230 V AC, continuous output 3 kW, peak output 6 kW, charge rate 70 A
- International shore power connectors 90 -260 V AC (45 Hz-65 Hz)
- Power plugs for 24V DC and 230V AC

Generator

- Water-cooled Fischer-Panda diesel generator with 3-cylinder diesel engine
- Performance: 11.4 kW / 12.7 kVA
- Radiator for hot climates, with post-cooling
- Pressurized cabinet

Music system

- 32" LED TVs in living room and master bedroom
- Bose Surround Sound System
- Satellite TV system with automatic satellite acquisition

Lighting

- Low voltage LED ceiling lights above the table, kitchen, bed, corridor, bath and shower
- Reading lights in bed and seating area
- Lights for outside storage compartment
- Maglite flashlight with charger bracket

Water supply

- 600 liters (158 US gallons) freeze-proof drinking water tanks
- 60 liters (16 US gallons) hot water heat-exchanger with auxiliary electric heater
- All plumbing is insulated to prevent freezing
- Waste water tank, capacity 150 liters (40 US gallons), freeze-proof, with drain pump
- City water connector
- Outside shower

Toilet

- Sealand porcelain toilet with water flushing
- Freeze-proof sewage holding tank, capacity 100 liters (26 US gallons), with drain pump

Heating system

- Diesel powered warm water central heating (5kW) (17,000 btu)
- High radiant heat share due to radiators in living area, bedroom and sanitary room
- Towel dryer type radiator, mounted in the shower
- Additional heater in bed area
- Antifrost system

Air conditioning

- 6 air conditioners
- Performance 19 kW (65,000 btu)
- Continuous operation with generator or shore power
- Night operation with batteries and inverter

Others

- Spare wheel with loading crane on rear wall
- Additional 2 step stairway, electrically motorized

General information

Weight and measures

- GVWR: 39,660 lbs (17,990 kg)
- Dimensions: L 10927 mm (430"), W 2480 mm (98"), H 3902 mm (154")



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