



Expedition Vehicle TC78 Family suite /MAN TGS 6x6x4



The Opportunity...

The ideal world travel vehicle for 2 persons with the highest standards of comfort and reliability.

Make your dream come true now!

Save the usual 2-3 years planning, construction and testing.

The offered vehicle is travel-proven (North Africa, North America, South America, Mongolia) and was thoroughly overhauled after the return and partially modernized. It is thus ready for the very big journey.

You do not need to bring experience. We will familiarize you with your new mobile home and accompany you as much as you wish.

Chassis

- MAN TGS 26.510 6x6x4
- Crewcab, 4-door
- Wheel base 4650 mm (183.1“) x 1500 mm (59.1“)
- Engine Performance 375 kW / 510 hp, Euro 6d
- MAN 12-speed Tip-Matic-Gearbox
- Cruise control
- 2-speed transfer case with off-road reduction
- All wheel drive with central differential lock
- Differential lock in front and rear axles
- 3rd axle steering (6x6x4)
- Parabolic leaf springs
- Stabilizers on front and rear axles
- Drum brakes with ABS
- Tires 16.00 R 20 tubeless with beadlocks
- Spare wheel 16.00 R 20 tubeless with beadlock
- Bolt-together forged 2-piece aluminium wheels
- Central tire inflation system
- Fuel tank capacity: 860 liters diesel (227 US gal.)
- AdBlue tank capacity: 35 liters (9.2 US gallons)
- Fuel prefilter with water separator, heated
- Rear underride guard, manually retractable
- Lashing eyes for recovery or lashing during transportation by ship
- Aluminium roof rack with branch guard
- Lightning rod on roof rack, retractable
- 2 x LED high beam light bars, each 167 W, 12970 lm
- 2 x LED wide beam light bars, each 88 W, 7091 lm
- 2 x LED work lights mounted sideways, each 17 W, 700 lm
- LED taillights
- LED daytime running lights
- Headlight protector
- Rearview cameras top and bottom
- Reading lights for driver and co-driver
- USB charging ports
- Sockets 12V / 24V / 230V

- Roof hatch
- Truck horns
- Passage to body with sound insulation panel
- 5 air suspended leather seats, heated and ventilated
- Leather steering wheel
- Fridge box
- Additional sound and heat insulation
- Integrated air conditioning
- Auxiliary heater Eberspächer 4DS
- Engine coolant preheating and auxiliary heater Eberspächer D5W
- Engine preheating 230 V AC
- Electric windows
- Central locking with remote control
- ETA automatic cutout
- Custom labeled switches in the dashboard
- Garmin satellite navigation (GPS)

Body

Outer dimensions of the cabin

- Length 7800 mm (307.1"), width 2530 mm (99.6"), height 2405 mm (924.7")

Inner dimensions of the cabin

- Length 7680 mm (302.4"), width 2410 mm (94.9"), height 2250 mm (88.6")

Frame assembly

- 4-point subframe with height adjustment and leveling function for attaching the body to the torsionally elastic chassis frame
- Height adjustable for maximum ground clearance or minimum overall height
- Automatic leveling of the body in a horizontal position
- Manual control for individual position control of the body

Body unit construction

- Self supporting UNICAT fiberglass composite sandwich panels
- 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/m² K (0.078 Btu/ft² hr °F)
- Cold bridge free glued with FRP profiles
- Floor panel with integrated welded steel frame and surfaces of FRP
- Additional insulation of the floor

Access to driver cab

- Passage to the cab with highly flexible waterproof bellows coupling
- Sliding door panel to close passage way

Entrance door and storage compartment doors

- Entrance door and storage compartment doors constructed of fiberglass composite panels
- Thickness of doors 60 mm (2.36")
- Double sealed doors with heavy duty locks and seal compression
- Stainless steel hinges
- Massiv safety lock with latch and bolt
- Additional bolt locks at the top and bottom
- Safety cylinder locks with protective cap
- Safety cylinder locks all keyed alike
- Electric mosquito net for entrance door

Windows

- Burglarproof, scratch proof UNICAT custom build windows
- Made of insulated fiberglass frames
- Double insulated 4-pane safety glass
- Double sealing with combined hollow profile and lip seal
- Anti-theft stainless steel hinges
- Stainless steel lifting and locking system with ventilation position
- Aluminum-frame roller blind and black-out mosquito net

Roof hatches

- Scratch-resistant, burglar-proof boat roof hatches with mosquito net in the shower room and the hallway
- 12 mm (0,47“) acrylic glass
- Protected built-in hollow profile gasket

Stairway

- Fully insulated staircase with 3 built-in steps with storage compartments
- Electrically operated retractable stair element with 2 additional steps
- Retractable from inside and outside
- Door can be closed when the stairs are extended

Interior Layout

Seating area

- U-shaped seating area for 5-6 persons
- Rotatable, foldable and electrically lowerable table
- Seating unit converts to additional bed: 1400 mm (55.1") x 2000 mm (78.7")
- Can be used as a lounge with additional upholstery elements

Bedroom

- Parents' bedroom with door separating it from the children's bedroom
- Double bed with suspension, ventilation, heating and comfort mattress
- Bed size: 1800 mm (70.8") x 2000 mm (78.7")
- Children's bedroom with a door separating it from the living room
- 3 bunk beds with comfort mattresses
- Bed dimensions: 750mm (29.5") x 2000 mm (78.7")

Bathroom

- Separate bathroom with separate door to the hallway
- CORIAN washbasin with vanity unit and integrated washbasin
- Upper cabinet with mirror above the sink
- Porcelain toilet
- Push pull ventilation system
- Teak floor

Shower room

- Separate shower cubicle with separate door to the hallway
- Storage cupboard for towels
- Towel rail radiator
- Push pull ventilation system
- CORIAN floor with slope, gutter and drainage channel

Kitchen

- Kitchen cabinet with drawers on ball bearing full extensions
- Flush-mounted stainless steel sink with stainless steel fittings
- GAGGENAU induction hob with 2 cooking zones

- Cabinet body for fridge and oven
- LIEBHERR fridge-freezer, 204 l (53.9 US gal.) cooling, 57 l (15.1 US gal.)
- GAGGENAU convection oven with microwave
- Drawers with shock-proof separation for glasses, tableware, cookware and kitchen appliances
- Drawer for cutlery with knife block
- Pull-out bins
- Drawers for provisions
- Overhead cupboards above kitchen
- Folding kitchen countertop

Storage

- Storage compartment in the seating area and under the front bench
- Shoe storage in the seating area next to the entrance
- TV cupboard with drawers next to the seating area
- Overhead cupboard above the entrance door
- Overhead cupboards above the bunk beds
- Storage compartments on the sides of the bed
- Overhead cupboards above the sides of the bed
- Large outside storage compartment under the bed in the rear
- Aluminium exterior storage boxes between the wheels
- Aluminium exterior storage boxes at the rear

Workmanship

- All furniture is built to the highest cabinetmaking standard
- Furniture made of wood core plywood
- Heavy duty locks and hinges
- All drawers on ball bearings
- Surfaces white laminate with teak bandings

Layout

- Teak floor
- Walls and ceiling are painted with multiple coats
- Upholstery made of ALCANTARA
- Walls and ceiling in bed area covered with ALCANTAR

Electrical equipment

- Control panel for power management and monitoring of liquid levels
- Safety cutout, fault current breaker, battery main switch
- Independent power supply system for the body, 25,6 V system
- 12 LiFeYPO₄ batteries 12,8 V, 200 Ah, effectively useable energy 24,6 kWh
- Additional alternator with I-U charge controller, charging power 3,4 kW
- Uninterruptible power supply through 2 inverters 230 V 50 Hz, continuous output 6,0 kW, peak output 10,0 kW, charging power 3,6 kW
- 2 international battery chargers, 90-260 V (45-65 Hz), charging power 1,4 kW
- Sockets for 230 V AC and USB charging sockets

Solar system

- Solar system 2580 W with MPPT solar regulators
- Solar system main interrupter

Telemonitoring

- Body-batteries: Voltage, electricity, capacity, temperature, history
- Chassis-batteries: Voltage
- Generator-batteries: Voltage
- Solar system: Voltage, Yield
- Position

Generator

- Gasoline powered generator, 230V AC
- Maximum power 2.2 kW, continuous power 1.8 kW

Lighting

- LED lights in the entrance area, hallway and shower
- LED lights dimmable above the seating area, kitchen, bed and bathroom
- LED gooseneck reading lights dimmable in the seating area and at the beds
- LED strips in the outdoor storage compartments
- LED strips in the outside storage boxes
- LED flashlight with charging station
- LED working lights at the rear

Fresh water system

- 4 drinking water tanks with 4 water pumps and filters
- Tank capacity: 1.180 liter (312 US gal.)
- UV-C LED drinking water disinfection system for 4 water tanks
- 60 liter (15.8 US gal.) hot water heat exchanger with electric heater
- City water connector
- Outside shower hot and cold
- Outside kitchen faucet for hot and cold water
- Frost-proof water tanks and installations, mounted in the heated indoor area
- Quick winterisation of the water system

Wastewater system

- Wastewater tank capacity 200 liter (52.8 US gal.)
- Pneumatically actuated discharge valve with water heating
- Discharge switches in the cab and in the body
- Frost-proof tank and installations mounted in the heated indoor area

Toilet system

- Sealand porcelain toilet with water flushing
- Toilet tank capacity 196 liter (51,8 US gal.)
- Vacuum tank ventilation with activated carbon filter
- Pneumatically actuated discharge valve with water heating
- Discharge switches in the cab and in the body
- Frost-proof tank and installations mounted in the heated indoor area

Heating system

- Hot water central heating (9.0 kW) for diesel operation with height adjustment
- Heat exchanger to use the engine waste heat to heat the cabin and to generate hot water while driving
- Radiator in the seating area
- Radiator above the toilet in the bathroom
- Towel radiator in the shower
- Radiator in the bedroom
- Bed heating under the mattress
- Radiators at the bunk beds
- Heat exchanger in the rear storage compartment
- Antifrost system

Air conditioning

- 2 x integrated 24V DC air conditioners for living area and bed area
- Cooling cap. each 2,8 kW (9.156 BTU/h), electric power cons. each 1,4 kW
- Operation via batteries, generator or shore power

TV / internet

- Dual-GSM 2/3/4G router
- WIFI modem

Others

- ECM espresso coffee maker and mill
- Miele Washer/dryer
- Outside kitchen with Napoleon 3-flame gas grill
- Outside kitchen basin with hot and cold water
- Push-Pull ventilation system
- Satellite tracking system with alerting
- Weather station
- Smoke detector

General information

Dimensions

- Length: 10864 mm (427.7"), width 2542 mm (100.1"), height 3851 mm (151.6")
- Additional length spare tire rack: 510 mm (20.1")
- Departure angle at front 35°
- Departure angle at rear 22°, with raised body 27°
- Turning circle with rear axle steering 24.95 m (982")
- Turning circle with oversteering 20.93 m (824")

Weights

- Curb weight including fresh water and fuel: 19.800 kg (43.652 lbs)
- Gross vehicle weight rating: 23.000 kg (50.706 lbs)
- Axle load distribution: 32% front axle, 34% each rear ax





