Expedition vehicle MD52h / Unimog U4000 6x6
Chassis

- Unimog U4000 6x6
- Extended cab
- Wheel base 3250 + 1350 mm (128” + 53”)
- Engine performance 160 kW / 218 hp, Euro 5
- 8-speed transmission with “Telligent” gearshift
- Transfer case with off-road gear reduction
- Conversion to 6x6 all wheel drive
- Front wheel drive engageable
- Central differential lock between rear axles
- Differential lock in front and rear axle
- Coil springs
- Disk brakes with ABS
- Tires 395/85 R 20 tubeless
- Beadlocks
- Separable aluminum rims
- 2 chamber fuel tanks, capacity 540 liters (142 US gallons)
- Fuel prefilter with water separator
- Connector for compressed air
- Central tire inflation system CTIS
- Fording ability 1.2 m (47”)
- Temperature gauges for axles and gearbox
- Roof rack for spare wheel
- Crane for loading of spare wheel
- Light guards
- 2 air suspended Recaro seats, heated
- Additional seat for 3rd person
- Integrated air conditioning
- Automatic cutout
- Sound-system with CD-player and I-Pod connection
- CB Radio
Body

Outer dimensions of the cabin
- Length 5200 mm (205”), width 2300 mm (91”), height 2155 mm (85”)

Inner dimension of the cabin
- Length 5080 mm (200”), width 2180 mm (86”), height 2000 mm (79”)

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
- Slanted front of body for better aerodynamics and appearance

Access to drivers cab
- Highly flexible waterproof bellows coupling

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
- Mosquito net for entrance door
**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
- Fixed windows in the front

**Skylights**
- Burglarproof skylight in the shower
- 0.5” acrylic glass
- Heavy duty lock

- Full size UNICAT-skylight above the bed, constructed of fiberglass composite panels and frames
- Double seals
Interior layout

Seating area
- Seating area for 2-4 persons, with swiveling table on pedestal in the front of the cabin
- Seating unit converts to additional bed

Bed
- Queen size bed with suspension, ventilation and comfortable mattress in the rear on pedestal
- Size: 1500 x 2000 mm (59” x 79”)

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
- Varicor countertop with integrated stainless steel sink
- 2-plate induction cooker
- Microwave with oven and grill
- 130 liters (34 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
- Wardrobe with drawers
- Pull-out wardrobe in shower area, with clothes rail, shoe bin and storage boxes
- Overhead cupboards and storage boxes in bed area
- Storage boxes in seating area
- 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 using heavy duty locks and hinges
- White surfaces and teak edges

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 12V, 24V DC and 230V AC

**Generator**
- Water-cooled Fischer-Panda diesel generator with 1-cylinder diesel engine
- Performance: 3.4 kW / 4.0 kVA
- Radiator for hot climates, with post-cooling
- Pressurized cabinet

**Music system**
- Stereo music system with CD player and MP3 / I-Pod input
- Speakers in the seating area

**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

**Water supply**
- 430 liters (113 US gallons) freeze-proof drinking water tanks
- 30 liters (7.9 US gallons) hot water heat-exchanger with auxiliary electric heater
- All plumbing is insulated to prevent freezing
- Waste water tank, capacity 140 liters (37 US gallons), freeze-proof, with drain pump
- City water connector
- Outside shower (warm and cold)
- Water filtration system
Toilet
- Sealand porcelain toilet with water flushing
- Freeze-proof sewage holding tank, capacity 140 liters (37 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 and sanitary room
- Towel dryer type radiator, mounted in the shower
- Additional heater in bed area
- Antifrost system

Air conditioning
- Integrated air conditioner, performance 3.2 kW (11000 btu)
- Continuous operation with generator or shore power
- Night operation with batteries and inverter

Others
- Hydraulic drop-off and loading system for autonomous loading of body and chassis into a 40' highcube container
- Box for 2 bicycles in the rear, with hydraulic lift
- Mounting for 4 sand ladders

General information

Weight and measures
- GVWR: 28,660 lbs (13,000 kg)
- Dimensions: L 8126 mm (320”), W 2300 mm (90.5”), H 3527 mm (139”)
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