

## **Start immediately on a trip around the world - but in comfort!**

We sell our "Robusto".

Forget the time and effort required to plan, build and test a new vehicle. Make your dream come true now! With the perfectly equipped "Robusto" you can start your trip immediately.

The offered vehicle has traveled for five years in South America. Since April 2011, it has been traveling in Russia, Mongolia, China, and Laos. Now it is readily waiting in Thailand or wherever you desire. We will of course introduce your new, travel-experienced expedition truck to you in the most legitimate way.

The vehicle is sold by its first owner and has only been serviced at MAN service workshops. The last major service and inspection were performed in November 2010 at the Motor Vehicle Inspection unit in Zürich, Switzerland.

The vehicle was thoroughly inspected by Actionmobil in spring of 2011. The cabin, as well as appliances and equipment were upgraded to the state-of-the-art of technology, and all maintenance and small repairs were performed as necessary.

The complete vehicle is in first-class conditions. At the current Asia trip, it has not only proven to be more than reliable but that it allows independent, inspiring travel to the last corners of the world.

We would like to sell our Robusto at his point in time, as after six years of traveling it is time to move on to a different lifestyle. In order to realize our plans in the medium-term future, we list our Robusto fully equipped, including a quad bike in the rear garage, with immediate effect for sale. We hope to find a buyer, who appreciates the truck's reliability and comfortable luxury - which of course does not come for free.

Edy and Brigitte Odermatt

**Chassis**

- MAN TGA 6x6 33.480
- Total weight including payload 33 tons
- Weight including superstructure, ready to drive, 20 tons
- "L" driver's cab 2240 mm wide, 2280 mm long
- Wheel base 4200 mm + 1400 mm
- Left-hand drive
- Engine output D2876LF12 – 480 hp / 353 KW EURO3 – 2300 Nm common rail
- "High Line" km/h instrument panel
- MAN comfort shift transmission shift system
- ZF 16 S 252 OD transmission
- Driven VP-09 front axle
- Parable front springs 9 tons
- Radiator and extended intercooler
- Rear air springs 2x13 tons
- Aluminum diesel fuel system:
  - 1 tank with 430 liters diesel content,
  - 1 combination tank with 330 liters diesel and 100 liters gasoline for ATV with 6-way valve.Gasoline tank with suction connection for mechanical and electrical pump.  
Massive tank system safety guard made of thick-walled grooved aluminum.
- Steering wheel, height and inclination adjustable
- MAN Brakematic (electronic brake system)
- Brake shoe width for rear axle 220 mm
- AP HPD-1382/HP-1352 rear axle
- AP transmission ratio  $i = 3.63$  max 127 km/h, i.e., engine speed at 85 km/h = 1323 rpm
- Differential lock in rear axle
- Differential lock in front axle without buzzer
- Limited steering capability if differential lock is engaged in front axle
- Electrical EG trip recorder, automatically 2 drivers
- Front flaps can be unlocked from the inside
- Stowage box accessible from the outside - flap unlocking from the inside
- Comfort quality seat covers
- Driver comfort seat with lumbar support, shoulder adjustment and heating
- Front passenger comfort seat with lumbar support, shoulder adjustment and heating
- Two additional vehicle keys
- Inner door lining washable
- EDC engine control
- Fuel filter
- Additional heated SEPAR fuel filter with water trap
- Heating for fuel filter
- Part-time front-wheel drive
- G173 transfer case
- Hydraulic/electrical driver's cab tilting equipment
- Trucker add-on package
- Trucker package with Eberspächer D5W hot air heater
- Eberspächer D4S additional air heater
- AC R134A air conditioning, CFC-free, with automatic temperature control
- NORDIC driver's cab insulation (against cold temperatures)
- Operating instructions in German
- Pulled-up air intake with dry air filter / moisture separator
- Air filter cartridge with safety insert for heavy-duty applications

- Fine dust and pollen filter
- 2-cylinder air compressor 575 ccm
- Cantilever brake (EVB)
- Flame start system
- Refrigerant compressor, CFC-free
- MFZ 430 single-plate clutch
- Pulled-up front axle venting
- Pulled-up rear axle venting
- Three-part steel shock absorber
- 2 shackles on the front frame
- Traverse for trailer coupling
- Without bridge mounting bracket
- Steering wheel lock with immobilizer
- Leather steering wheel
- Anti-lock braking system (ABS)
- ECAS air suspension system
- Drum brake for front axle
- Drum brake for rear axle
- Asbestos-free brake lining
- Parking brake with pneumatic brake actuation of the front axle brakes
- Entry lights for driver and front passenger
- Armrests for the driver seat
- Armrests for the front passenger seat
- Compressed air connection for auxiliary consumers in the superstructure
- Radiator stone guard
- Lamp stone guard
- High construction
- Air-suspended driver's cab mounting
- Headlamp range control
- Additional high-beam and fog lights
- Halogen twin headlamp H7 for right-hand traffic
- Marker lights
- Side marker lights
- Reading lights for driver and front passenger
- Switch and cables for load compartment lighting
- Central locking
- Remote control for central locking
- Electric twin-tone horn 1x70 cm, 1x80 cm
- MAN Tronic (board computer)
- German for instrument panel display
- Data interface preparation for data recording unit (HVF, Switzerland)
- English, Portuguese, Spanish, French for instrument panel
- Power socket in driver's cab, 12 V 2-pole and 24 V 2-pole
- Power socket for 24 V hand lamp at the engine
- Electric battery main switch
- 2x 12 V 225 Ah batteries
- Alternator, three-phase current, 28 V 110 A 3080 W
- Oil pressure indicator
- Oil temperature indicator
- Time in the instrument panel (trip data)
- Acoustic warning system on the rear frame when engaged in reverse
- Electronic speed limiter at 110 km/h

- Cruise control
- Hour meter
- Charge pressure indicator
- Clock with alarm function on the lounge bed
- MAN sound system
- Antenna for GPS and auto telephone on the roof of the driver's cab
- MAN radio, CD 24 V
- Additional lighting on the roof of the driver's cab
- Stabilizer on both rear axles
- Stabilizer for front axle
- Reinforced shock absorber for rear axle
- Heated air drier
- Anti-freeze down to minus 35 °C
- 1 lounge bed with storage compartment
- Mattress for lounge bed
- Tinted windshield, laminated safety glass
- Tinted door windows
- All-around curtains
- Transversal curtain
- Tinted side windows after B pillar
- Mechanical raised roof
- Electrical power windows for driver and front passenger
- Mechanical windshield sun blind
- Sun visor in front of windshield
- Roller sun blind on both doors
- Left and right grab handles on B pillar
- Left and right grab handles on A pillar
- Footrest for front passenger
- Heatable and electrically adjustable rear mirror
- Heatable and electrically adjustable curb mirror, right side
- Heatable and electrically adjustable wide-angle mirror, right side
- Heatable and electrically adjustable wide-angle mirror, left side
- Mirror for view in front of the vehicle
- Memory function for exterior mirrors
- Refrigerator box
- Three-part plastic fender with dirt trap
- First aid kit
- Hazard warning system
- 2 breakdown warning signs
- 12 tons and 20 tons vehicle jack
- 2 wheel chocks
- Instrument board in luxury finish
- Carpet flooring on the engine tunnel
- Low-noise certificate for Austria and L sign
- All-wheel drive noise reduction measure 80 dB
- Right-hand traffic equipment
- Metallic driver's cab
- Tires: 8x 14.00 R 20 Michelin XZL, tubeless
- Additional high-beam and wide-beam headlamps
- Headlamp protective grating
- Radiator protection

- Stainless steel branch guards across the additional headlamps and around the driver's cab
- Hella high-beam headlamps and Hella wide-beam headlamps mounted to the roof of the driver's cab using water-tight plug-in assembly; can also be controlled via radio circuit.
- Insulating plate for pass-through to superstructure
- Garmin satellite navigation system 276C (GPS)
- Garmin satellite antenna mounted on the driver's cab
- Electrical circuit diagrams
- Reversing camera system with 2 side cameras, also visible on monitor in the living area.
- 3<sup>rd</sup> axle venting, small turning radius if activated
- Foldable underride guard

**The vehicle was thoroughly inspected by Actionmobil in spring of 2011. The cabin, as well as appliances and equipment were upgraded to the state-of-the-art of technology, and all maintenance and small repairs were performed as necessary.**

### **Superstructure**

- Sandwich plate construction, self-supporting, made of glass fiber reinforced composite (sandwich) panels
- Wall thickness 61 mm with PU hard foam insulation
- Glued with glass fiber reinforced profiles without thermal bridges
- Base plate and sidewalls with foamed in steel frame reinforcement
- 3-point-mounting with main bearing and 2 self-aligning bearings for tension-free superstructure attachment
- Side wall narrowing
- Lowered entry area
- Electrical 2-step auxiliary stairs
- Metallic exterior paint finish

### **Connection to the driver's cab**

- Pass-through to the driver's cab with highly flexible bellows connection
- Pass-through can be closed via hinged door

### **Doors and flaps made of glass fiber reinforced composite panels**

- Two-part, 60 mm thick entry door, stainless steel locking system, electric 2-step telescopic ladder, automatically retracts when ignition is actuated.
- Additional top and bottom locks
- 5 stowage space flaps with pneumatic springs
- WC door with piano hinge
- Dual sealing via combined hollow profile and lip seal
- Stable catch lock with pressing screw
- Safety profile cylinder with protective cap
- All keys - single key system

**Windows**

- Scratch-resistant, impact-resistant, hand-made wooden vent windows with glass fiber reinforced frame
- Double-glazed, laminated safety glass with insulation space, tested up to 5400 meters above sea level
- Pneumatic springs and stainless steel locking
- KCT roller blind with sunshade and screen

**Roof skylight**

- 900 mm x 900 mm skylight above the bed, made of glass fiber reinforced composite panels with pneumatic springs
- Highly insulated and accessible
- Screen
- Privacy roller blind
- Stainless steel locking system

**Seating group**

- Seating group for 6 people
- 75 cm x 140 cm Onsernone granite table on electrically actuated table leg, which can be continuously lowered
- 6-part cabinets
- Seating group can be used as additional double bed

**Bed**

- "Hüsler-Nest" mattress comfort system, 1400 x 2000 mm, vented and heated

**Sanitary compartment**

- Combined shower and toilet area separated from the living area via a door
- Vanity with Onsernone granite surface
- Vanity base cabinet with glass fiber reinforced doors
- 2-door, upper cabinet with mirror above sink
- Integrated Franke stainless steel sink
- Hans Grohe mixer tap
- Franke soap dispenser integrated into the vanity top
- Ceramics flush toilet
- Stainless steel toilet brush holder
- Stainless steel clothes rail

**Kitchen**

- 4-part kitchen block with 9 Blum drawers on ball bearing-mounted full extension slides
- 4-part cabinets
- Onsernone granite worktop
- Franke stainless steel kitchen sink
- Franke soap dispenser integrated into the kitchen worktop
- Hans Grohe mixer tap
- Bosch glass ceramics induction stove, 2 cooking places, 220 V
- Silit induction stove, 1 cooking place, portable, 220 V
- Compact oven unit with Miele microwave, 200 V

- Washer with dryer, 220 V
- Refrigerator with freezer, approx. 145 liters capacity, external control panel with digital display, separately installed cooling unit, glass fiber reinforced body
- Freezer, approx. 120 liters capacity, external control panel with digital display, separately installed cooling unit, glass fiber reinforced body
- Wall-mounted Luna espresso machine, 220 V.
- Glass holder system for 12 wine glasses
- Waste system 2 x 16 liters

### **Stowage spaces**

- 3 tall cupboards with 2 Blum bottle drawers and 3 Blum storage drawers
- 9-part linen closets in the bedroom
- Stowage compartment and drawer under seating group pedestal
- Stowage compartment under entry step
- Stowage compartment under step to the bed
- Stowage chest in the bathroom
- Cabinet complex for media cabinet, books and technology
- Stowage tray at the entry
- Larger exterior stowage compartment for camping furniture and diverse articles
- Exterior stowage compartment for tools
- 2x aluminum exterior stowage boxes
- Geberit pipes with holder, externally mounted, lockable 2x
- Secret compartments
- Built-in safe

### **Furniture**

- All furniture reflects first-class craftsmanship

### **Floor**

- Nora rubber floor covering: Living area, lowered entry area, steps to the bed, seating group pedestal, sanitary area
- Baseboards: Aluminum
- Rubber floor covering combined with corrugated sheet metal in quad bike garage

### **Electrical system**

- No gas in the vehicle, however sufficient power supply.  
All appliances/devices are manufactured by worldwide renowned manufacturer "Mastervolt".
- Battery capacity: 24 V – 100 Ah with 12x 2 V elements  
[www.mastervolt.com](http://www.mastervolt.com): Batteries are an important part of the energy system. This powerful, maintenance-free 2V gel battery can handle intensive, long-term discharge conditions without any problems and has a service life of up to twenty years.
- Battery compartment with electrically vented charge unit
- Control panel for power supply and state of charge monitoring
- Circuit breaker with personal protection switch and battery main switch
- Charging of the superstructure batteries while driving via isolation diode
- 2x Mastervolt charger 24 V/75 A 230 V/50-60 Hz
- 2x Mastervolt sine inverter 24/5000 TIM 230/50 Hz
- Integrated Electronic charger 12/24 V-20 A for truck battery charging and maintenance

- Power sockets available for 12 V, 24 V DC and 11 x 230 V AC distributed in the superstructure
- 24 V – 500 Watt solar system
- Battery compartment fan
- LCD interior / exterior thermometer
- WAECO alarm system for driver's cab and superstructure, including entry door and stowage compartments
- Preparation for a satellite dish retrofit on the roof of the driver's cab

**Generator**

- Water-cooled diesel generator Whisper 6 ULTRA 1500 Mobil 230 V, slow runner, very quiet as water-cooled and fully encapsulated.
- Permanent output: 5.5 kW
- Cooling suitable for tropics with post-cooling feature
- Heat exchanger in the cabin circuit

**Air conditioning**

- Truma Saphir comfort air conditioning with 2 outlets in the sleeping area and one outlet in the living area, including remote control
- 8200 BTU cooling output

**Music system**

- Logitech speaker system with subwoofer
- 20" LCD flat screen

**Lighting**

- 27 halogen lights above the table, in kitchen, bedroom, hallway, bathroom and shower
- 2x halogen spots at seating group and 2x above the bathroom mirror
- Energy saving lamps in all exterior storage compartments
- Left and right exterior headlamps and on the rear of the superstructure
- Hella high-beam headlamps and Hella wide-beam headlamps mounted to the roof of the driver's cab using water-tight plug-in assembly; can also be controlled from the cabin via radio circuit.

**Water supply**

- Drinking water tank made of food plastics with sound baffle and frost-protected, 760 liters
- Hot water heat exchanger including 1200 Watt heating cartridge, 30 liters
- All water installations are routed in the heated inner area protected against freezing.
- Pressure-resistant lines with flexible armored hoses
- Glass fiber reinforced waste water tank, approx. 180 liters capacity
- Bilge pump for shower water
- Water supply with city water connection including pressure reduction
- Seagull drinking water decontamination system including pre-filter.
- Chopper pump for waste water draining, optionally via waste-holding tank for flushing.
- Chopper pump for waste-holding tank draining
- Water pressure pump for kitchen and sanitary circuit
- Additional water pressure pump for washer

**Toilet**

- Sealand porcelain flush toilet with flushing water
- Frost-protected waste-holding tank, 120 liters, venting via roof, no chemicals required
- Waste disposal hose 8 m/ 2 m/ 1.5 m including lockable bayonet locks

**Heating**

- Alde electrical heater 2,100 W
- Webasto hot water central heating 2x Thermo 50, diesel operation
- Operation via electric control panel
- Dosing pump designed for heights greater than 2,500 meters above sea level, tested at 4,750 meters above sea level at minus 20 °C

Heat distribution:

- Via underfloor heating in living area and bathroom
- 3 wall panel heaters in the living room
- Heater in bedroom
- Heating coils under the bed
- Stainless steel wall towel dryer in the sanitary area
- Heating manifold: 4 cycles can be separately operated
- Pressure-resistant lines with flexible armored hoses

**Rear garage**

- Currently used as quad bike garage
- Kawasaki KVF 700, 4x4 quad bike for 2 persons, 12,000 km mileage, completely overhauled in 11/2011 in Switzerland at a mileage of 11,600 km.
- 220 V winch including remote control for quad bike loading
- 2 approach ramps
- Fastening using lashing rails and ratchet belts
- Exterior shower: Shower set and cold/hot mixer tap
- 4 sand deflectors
- With electrical venting

**Miscellaneous**

- Spare wheel lift including electrical winch and pivot arm (cable winch) on the rear of the vehicle with
  - 2 complete truck wheels and
  - 2 complete ATV wheels
- Foldable rear underride guard
- Polished stainless steel tube branch guards across the additional headlamps, around the driver's cab and the Action Mobil cabin
- Compressed air hose compartment in aluminum finish, with hose and manometer
- Stainless steel grab handles in the entry area
- Truck towing rod with holder, lockable, mounted on the superstructure roof
- Super structure roof finished in corrugated sheet metal
- Lashing rails on the superstructure roof
- Lashing rail for sun- rain protection / tarp fastening on the exterior wall
- Side marker lights
- 2x fire extinguishers

**Dimensions and weights**

- TGA 33.480 built for 33 tons
- Maximum permissible total weight 25,000 kg according to the Motor Vehicle Inspection, Switzerland
- Total cross weight 20,000 kg
- Total vehicle length 9.90 meters + lift including spare tires 0.5 m
- Width 2.50 meters
- Total vehicle height 3.80 meters
- Inner superstructure length 7.25 meters
- Inner headroom 2.00 meters

**General vehicle condition**

- Initial registration 09/2005
- Start of trip 2006
- Very good condition / first owner
- Mileage: approx. 160,000 km
- Current location: Asia

**Inventory and spare parts list upon inquiry.**

**[Robusto photo gallery](#)****Price including vehicle, cabin, quad bike, spare parts package and inventory**

- **Fair value** defined by our current fully comprehensive insurance for vehicle and cabin without Kawasaki ATV, without extensive inventory and spare parts package **as of 03/2011 determined by vehicle expert: CHF 700,000** - approx. Euro 570,000
- Total sales price for the Robusto vehicle including Kawasaki quad bike, spare parts package and complete inventory **significantly below the defined insurance value.**
- Price on request under [info@waypoints.ch](mailto:info@waypoints.ch).