



The MANTRA 4x4 – 6,0t



Permanent all-wheel drive with low-range gearing

The transporter class Mantra 4x4 has outstanding all-terrain performance and meets the most demanding off-road expectations. Its robust all-wheel drive system makes it a reliable vehicle for any use.

The MANTRA 4x4 is based on the new Mercedes Sprinter.

Description of basic vehicle

Mercedes Sprinter 5.0t

Engine versions: 3.0l V6 CDI
135 kW / 184 HP

Body versions: single or double
cab, van

Transmission: 6-speed manual

Tank capacity: 75 L

Wheelbase options: 3,665 / 4,325 mm

Basic vehicle: 5000 kg

Total weight: max. 6000 kg

Max. front axle weight: 2200 kg

Total pulled weight: max. 7000 kg

Max. rear axle weight: 3800 kg

Trailer load: max. 750 kg

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All-Wheel Drive Conversion, MANTRA 4x4:

Permanent all-wheel drive (variable power distribution) with low range gearing ($i=2.5$), 100% differential lock in transfer case, manually lockable from driver's cab, and electronic anti-slip regulation (ASR) on the rear axle.

Front axle in coil spring design with independent suspension in double wishbone geometry.

Suspension using compression springs, shock absorbers and reinforced stabiliser, bump stop above and below, steering lock limiter. Rigid rear axle with parabolic leaf springs and additional progressive synthetic dampers as axle stop.

100% differential lock for rear axle:

Reinforced Achleitner rear axle with 100% differential lock incl. adaptation of all electronic regulation systems (ABS, ASR). If the rear lock is activated then the rear axle electronic regulation is deactivated, otherwise all the standard vehicle safety systems remain fully operational.

100% differential lock for front axle:

Achleitner front axle with 100% differential lock incl. adaptation of all electronic drive regulation systems (ABS).

Conversion from dual to single tyres:

5 x M&S tyres 265/70 R17.5 (e.g. Dunlop 265/70 R17.5) on steel rim 7.5J x 17.5 incl. fitting, balancing and speedometer adjustment. Additional front and rear mud flaps

Body conversion for 265/70 R17.5 tyres:

Enlargement of the wheel housings and flared front and rear wings incl. lacquer finish of the attachments, sealing of the body and mounting of a glass-fibre reinforced hood.

Weight of all-wheel components: approx. 280 kg

Chassis elevation: approx. 150 mm (depending on the tyres)

Details:

- Both axles of basic vehicle are suitable for snow chains
- Speedometer adjustment for large tyres

Vehicle documents provided:

- Instruction manual for MANTRA 4x4 and basic vehicle
- Service book for MANTRA 4x4 and basic vehicle

Accessories:

- Vehicle tool kit
- Base plate for jack
- Individual vehicle registration

Axle Ratios:

$i= 5.286$

$i= 6.167$