

# MAMMUT CTRAIL

THE MANOEUVRING SYSTEM FOR COMMERCIAL TRAILERS



# MAMMUT CTRAIL

## The clever manoeuvring system for commercial trailers

The AL-KO MAMMUT manoeuvring system makes light work of positioning your trailer. Whether on rough ground or slopes, the system moves the vehicle easily and effectively. With just your thumb and without having anyone to help you.

### YOUR BENEFITS

- | Easy, smooth and infinitely variable manoeuvring thanks to joystick with soft start and soft stop technology
- | Immediate stop on inclines: Release the joystick and the trailer is braked to a halt immediately
- | Electric control of the drive rollers. The electronics make sure that the maximum permitted contact pressure is always applied. That means top grip under all conditions.
- | Rotation on the spot up to 360° – with intuitive one-handed operation via the joystick
- | Powerful movement: Easily moves up inclines up to 28% and can overcome kerbs and obstacles up to 4 cm high.
- | Maximum contact pressure applied to the wheels by the electric wind on function of the rollers.
- | Maximum ground clearance thanks to flat design
- | Lightweight, without battery from 32 kg (SA)
- | Perfect protection of the chassis thanks to solid, computer-optimised cross members
- | Sturdy solid metal housing with metal gear unit
- | No TÜV registration required thanks to general operating permit
- | Made in Germany
- | Current consumption: Peak current 120 A (SA) Quiescent current max. 5 mA
- | CAN bus-compatible
- | Infinitely variable speed control via joystick (max. speed approx. 0.5 km/h)
- | LED displays in the hand-held radio transmitter for: System ready, maximum gradeability reached, maximum drive temperature reached, battery status of hand-held transmitter, battery status of drive
- | Manual emergency turn of positioning drive
- | Sturdy drive rollers that protect the tyres
- | Diagnostic capability at the diagnostic interface in the vehicle



## OPTIMUM GRIP

Two motors are integrated into every drive unit: one for the positioning drive and one for the wheel drive. One push of the button on the remote control and the sturdy sandblasted drive rollers mounted in double bearings press against the wheels. The permanent electronic control of the contact pressure ensures optimum grip under all conditions.



The sturdy aluminium housing of the MAMMUT is spray water-proof (IP65) and guarantees reliable function at all times even under adverse conditions.



Strong, sturdy, compact: Powerful electric motors in each unit drive the trailer wheels.

## FINGERTIP MANOEUVRING

Only the AL-KO MAMMUT offers a manoeuvring system with joystick control. Contrary to button operation, you can use one hand to easily steer, accelerate and brake.



Control panel with battery (trailer / remote control) and overload display

Adjustable speed and direction control via joystick

Remove MAMMUT drive from the wheel

Engage MAMMUT drive at the wheel

## PLAYING IT SAFE

To prevent inadvertent operation, the system has to be enabled via magnetic switches. The remote control is simply held against the sensor on the drawbar to activate the system.

Safety enable

ON / OFF



360° turns



Soft start  
Soft stop



Obstacles  
up to 4 cm



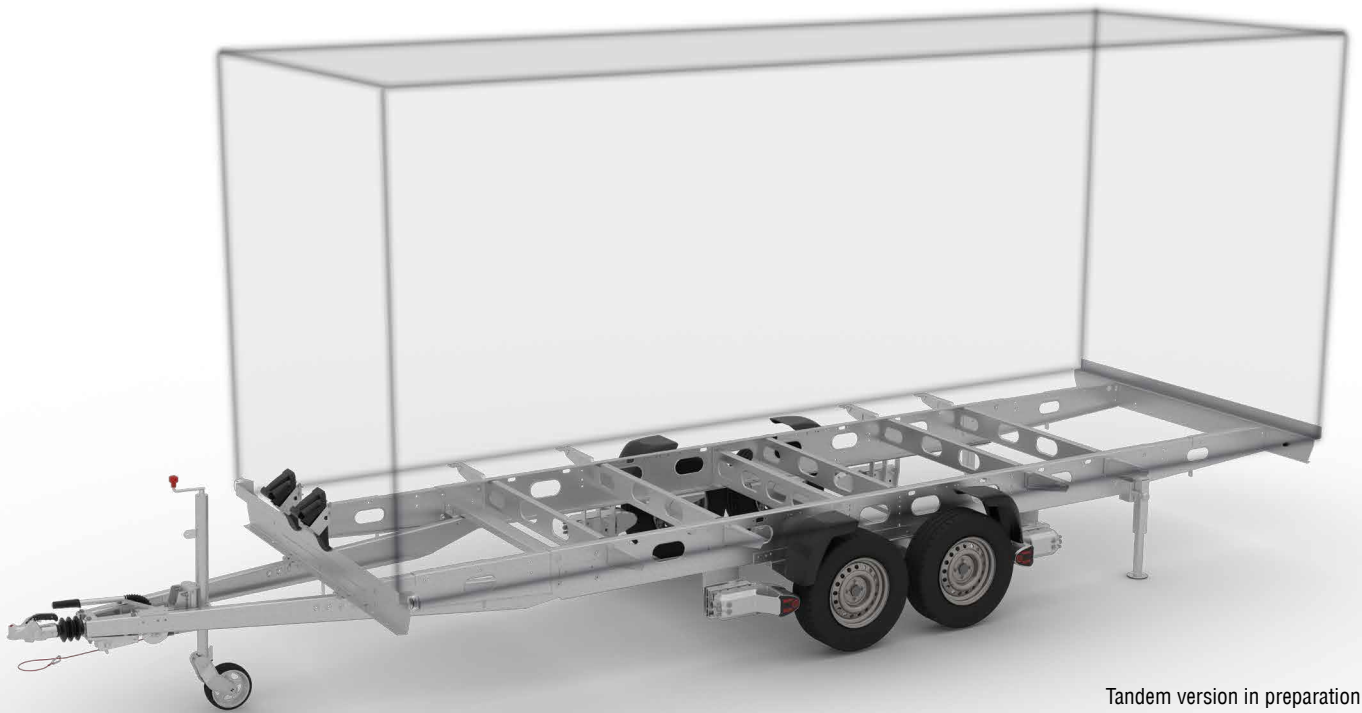
Inclines up to  
28% (single  
axle trailer)



Infinitely  
variable  
control

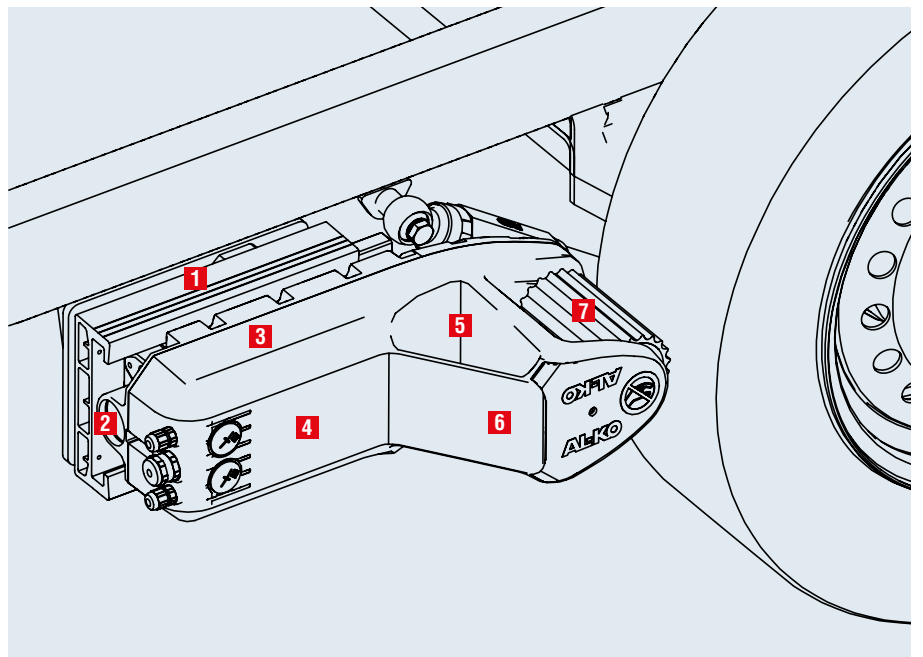
# MAMMUT CTRAIL

Ingenuous details



Tandem version in preparation

- 1 Guide block**
- 2 Emergency turn**  
by hand, one-way
- 3 Control**  
internal / encapsulated
- 4 Motor for positioning drive**  
internal / encapsulated
- 5 Motor for drive**  
internal / encapsulated,  
powerful, sturdy, with overload protection
- 6 Aluminium housing**  
Drive unit sealed unit  
(spray water-proof to IP 65)
- 7 High-grip aluminium rollers**  
to protect the tyres



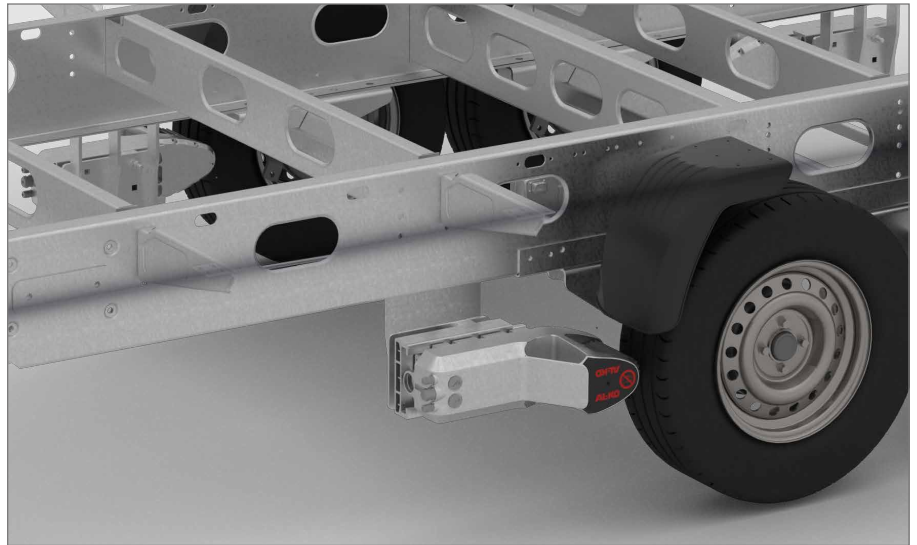
# MAMMUT CTRAIL

## Installation options / accessory recommendation

### Simple installation

Weld the two drives to the frame via the cross member and adapter plates. Connect positive/negative cable to the battery. Mount magnetic switch on the drawbar. Done!

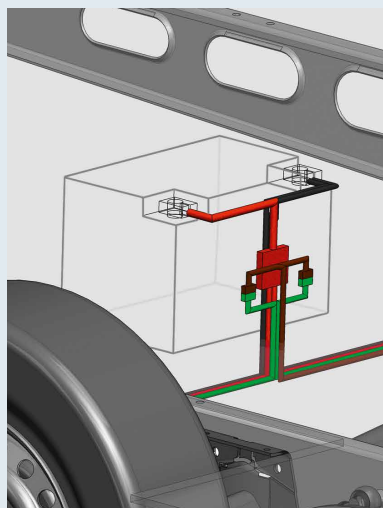
The complete control unit on the single-axle variant is protected in the MAMMUT and does not have to be installed and wired separately.



## RECOMMENDED ACCESSORIES

### Battery/charger

We recommend maintenance-free AGM batteries with suitable and matching charging technology. For trailers with a permitted gross weight up to 1,800 kg without additional consumers (e.g. light, water pump), AGM batteries with a capacity of at least 80 Ah. AGM batteries with spiral cell technology should have a capacity of at least 66 Ah (SA without autonomy) or 75 Ah (SA with autonomy).



### Jockey wheel

Manoeuvring drives may overload jockey wheels on soft ground. Narrow wheels can dig into the soft or loose ground.

Consequently,  
AL-KO recommends:

- I Use a tall, wide wheel
- I Use a sturdy jockey wheel with a load capacity of more than 200 kg, e.g. the AL-KO Premium jockey wheel



# TECHNICAL DATA

## “MAMMUT CTRAIL” MANOEUVRING SYSTEM

Type	Weight	Part no.
<b>Single axle trailer</b> S24 CTRAIL (welded version) <i>Max. permitted gross weight of trailer up to 2.5 t</i>	above 37.5 kg	1 732 472

### NOTE

MAMMUT can only be ordered as OEM equipment from dealers or body manufacturers!

## GRADEABILITY

Type	Gross weight	Max. gradeability
Single axle trailer	1.2 t	28 %
	1.8 t	17 %
	2.5 t	10 %

## SCOPE OF SUPPLY

### Scope of supply of MAMMUT S24 CTRAIL Order No. 1 732 472

#### DRIVE:

- I Drive units (2 units)
- I Drive wiring harnesses (2)

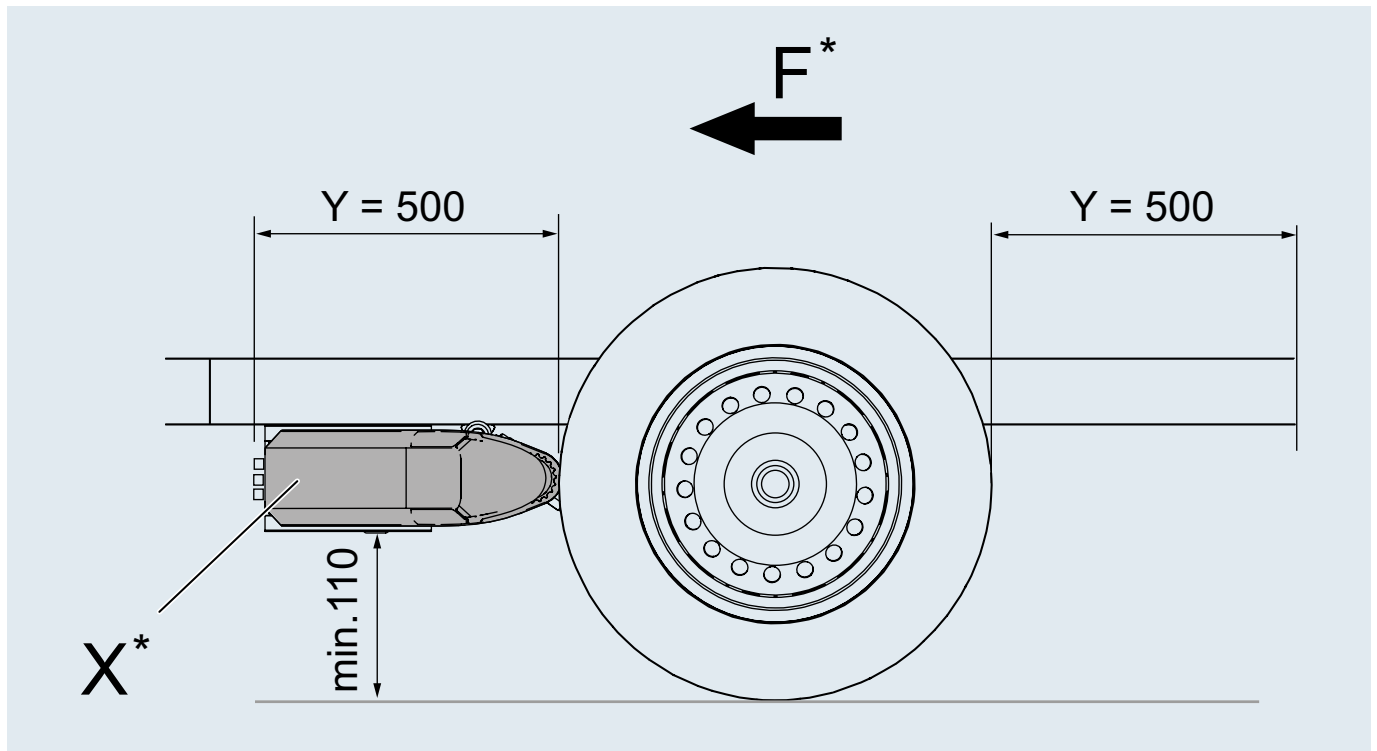
#### BASIC KIT:

- I Hand-held radio transmitter
- I CAN/enable wiring harness
- I Fuse holder wiring harness
- I Mounting components
- I Operating manual
- I Installation instructions

#### ATTACHMENT KIT:

- I Attachment kit (various screws)
- I Installation recommendation
- I Mounting plates (2 plates)
- I Spacer blocks L10, L15 and L20 (2 each)

# INSTALLATION



\*F = Driving direction

\*X = Preferred installation position

## Preconditions for installation

- I Square tubular frame or similar strong chassis
- I Distance between tyre inner face and mounting plate: min. 125 mm!
- I When using shock absorbers, the minimum distance between tyre inner face and chassis outer edge must not be less than 120 mm!
- I Installation area free of lines and other interference contours
- I Gusset plates & cross members manufactured by the customer
- I Installation of the individual gusset plates & cross members
- I Carry out installation with two persons



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