

Automotive stage trolley

- ☞ shows sensible driveability
- ☞ drives safely with remote control
- ☞ steer and drive with one lever
- ☞ turns on the spot
- ☞ follows a line automatically
- ☞ easy to transport (weights only 70 kg)
- ☞ carries loads up to 1 ton
- ☞ extremely attractive price



Stage trolley with remote control ¹⁾

**Benefit from the unique advantages
of the new system!**

Why this system is safe: Safety is crucial to us!

- ☞ redundant emergency stop
- ☞ double data evaluation
- ☞ zero position monitoring
- ☞ safe against unintended moves
- ☞ monitored safety channels
- ☞ safe data transfer with GROCOM 128
- ☞ reliable reception with **REFLEKTOMAT**®
- ☞ certified QM system according to ISO9001
- ☞ extremely robust design

30 years of experience with safety-relevant systems and the constant co-operation with competent partners guarantee the functional safety.



This excerpt shows the versatile co-operation with various testing institutes.



**TÜV approved safety
SIL3
(EN 61508)**

**Performance Level “e”
(according to EN 13849)**

The list is an example which does not apply to all products.

Why this system is reliable:

- ☞ Tried and tested technique, based on 30 years of experience in development and production of radio remote controls for the safety-relevant professional use
- ☞ simple but solid drive concept (dc voltage)
- ☞ high availability of the remote control through narrowband and selective receiver
- ☞ reliable data transfer
- ☞ narrowband radio transmission not only guarantees an optimal range, it also keeps other radio services (e.g radio microphones) unimpaired



Optional special functions

master transmitter



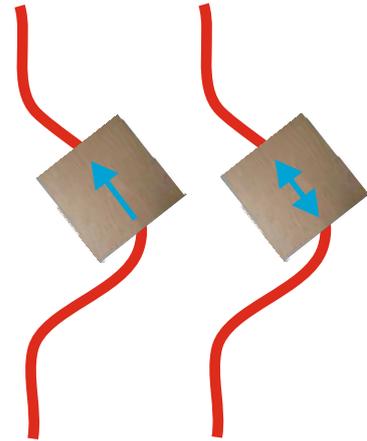
The master transmitter controls two stage trolleys simultaneously. In addition to the functions "trolley 1" and "trolley 2", it has a selector switch for "trolley 1", "trolley 2" and "tandem".

An additional potentiometre allows the synchronism comparison of two simultaneously controlled trolleys.

The option has to be chosen at the time of ordering; re-fitting is not possible!

automatic tracing of lines ¹⁾

With this option, the stage trolley traces affixed lines. The line can be applied with an adhesive tape of 25mm. The automatic operation works in one direction only.



5. stopp, Drehung um 180°

4. 18s stopp

3. 20s stopp

2. 50s stopp

1. Start

example of drive sequence

programmable drive sequence control ¹⁾²⁾

Add-on of automatic tracing. Teach-in and save any drive sequence which can then be repeated at will.

In addition to the learned stop positions, speeds and stop times are saved. An interface allows the monitoring and archiving of the saved sequences.

In case of a collision with any obstacle, a circulating protection strip stops the stage trolley immediately.

The protection strip is flexible and can also be put on the outline of any built-up.



preparation safety package ¹⁾

This option allows the add-ons with optionally available safety sensors, e.g. stage edge sensor and collision sensor.

colission sensor ³⁾



stage edge sensor ³⁾

4 sensors for recognition of the stage floor. In case the stage edge is overrun, the stage trolley stops immediately.



¹⁾ This option has to be chosen at the time of ordering. Re-fitting is not possible!

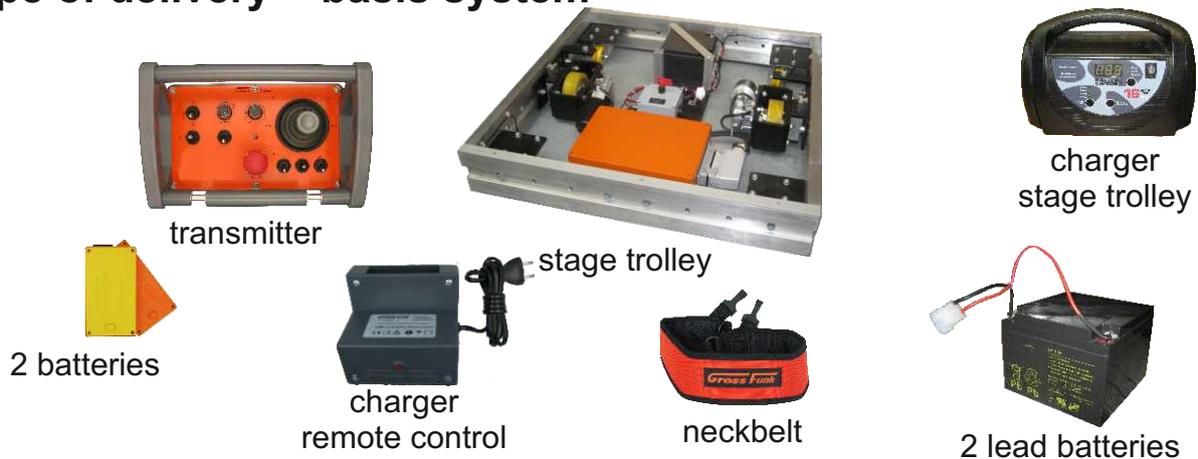
²⁾ For this option, the automatic tracing of lines is precondition.

³⁾ Precondition for this option is the safety package.

The important features summarised:

- ☞ stepless, sensitive drive
- ☞ driving directions forward / reverse, cornering with infinitely controllable steering radius, turning on the spot
- ☞ low weight
- ☞ high load capacity
- ☞ low current consumption, long-lasting battery
- ☞ comfort driving function
- ☞ high functional safety
- ☞ not accident-sensitive
- ☞ additional switching functions for effects etc.
- ☞ **PWM controlled DC voltage drive**
- ☞ frame system of 90x90cm.
- ☞ drive with 2 DC motors
- ☞ many add-ons

Scope of delivery - basis system



Technical data stage trolley:

dimensions (lxwxh):	90x90x17,5 cm	cornering turn radius :	70 cm
weight:	70 kg	supply voltage:	24V
bearing load:	1000 kg ¹⁾	current consumption (min/max):	9A/20A
Maximum speed:	0,25 m/s	battery capacity	26 Ah
torque (start):	80 Nm (per motor)	charging time (soft/normal/fast):	13h/4h/2h
torque (nominal):	26,4 Nm (per motor)	drive power:	720 W

¹⁾ with suitable floor conditions

Technical data remote control:

dimensions (lxwxh):	250x170x180mm	supply voltage:	12V
weight:	1700 gr.	operating time with 1 battery:	20h
frequency range:	433/434 MHz	power output f. drive:	PWM
transmitting power:	10 mW	control current max.:	50A
protection class:	IP65	switching current, additional functions:	4A

Please visit our new website

www.stagetrolley.com

Radio remote controls and data transfer systems
for the safety-relevant, professional use

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