

Mobile Wheel Engaging Column Lifts

Models: RGE • RGE-GPGU • MCL • RGA • RGE-TS • RGA-TS
RGE-T • RGA-T



Lifting technology

For vans, trucks, buses, special purpose vehicles and agricultural vehicles

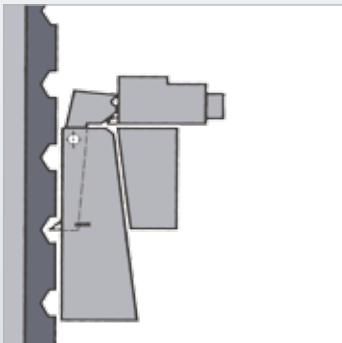
Mobile Wheel Engaging Lift for Trucks and Buses

Model: RGE



Lifting system

Hardened stainless steel screw with low friction recirculating ball nut. Splash proof and dirt repellant design giving long life and low maintenance.



Utmost safety

Independent locking device acting directly between column and carriage.



Description

- Four single mobile columns with controls at each column
- Splash-proof power supply unit, including 10 m-long connection cable and a connecting cable for powering the entire lift, with main switch (On/Off), universally connectable to each column of the system (max. extension up to 6 individual columns)
- Three connecting cables, 10 m long each with plug and socket
- One mechanical dolly movable, on two wheels
- Lifting carriage with fixed wheel engaging forks
- Electronic synchronisation and safety monitoring as standard
- Low-friction recirculating ball nut and screw (efficiency over 90 %)
- Safety locking device independent of drive and screw
- Very easy emergency lowering function, in the event of a power failure, for example
- Five-year screw operation warranty
- Very long service life
- Limit stop, safety monitoring and displacement measurement through non-contact inductive sensors
- Selection of single columns (grouping) by keypress
- No master column owing to the mobile power supply unit, universally connectable to each column of the system
- Column wiring of utmost simplicity through ring line with end plug
- Good handling owing to the very slim design
- Low base frame height of 129 mm, thereby also allowing lifting of city buses
- 400 mm fork length for single wheel application
- Non-contact RPM sensing, bottom limit switching and nut monitoring through proximity switch, upper limit switching is software controlled
- EC type approval (CE)
- Electronic load monitoring

The RGE line maintains the successful line of MAHA wheel engaging lifts. A special feature is the new electronic microprocessor controller, which provides the following functions:

- Synchronisation and communication between the columns
- Grouping
- Ball nut rupture monitoring
- Mains phase failure monitoring
- Automatic shutdown when hitting an obstruction
- Upper/bottom limit stop
- Monitoring and, if required, automatic changing of the phase sequence
- Electronic load monitoring



Slim design for easy manoeuvrability.



Convenient operation through rugged membrane keypad (up, down, single and group operation is possible).



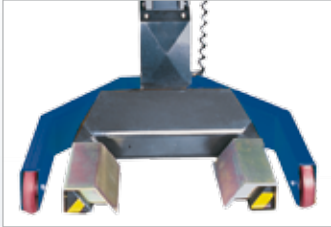
No master column owing to the mobile power supply unit VELP.



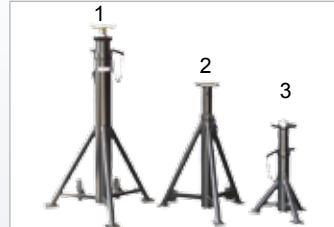
Technical Data

Maximum load capacity per column	7500 kg
Raising/lowering time	113 s
Lifting range	1750 mm
Motor power per column	1.5 kW
Control voltage	24 V
Supply voltage	3 x 400 V / 50 Hz
Net weight per column	452 kg
Wheel size	8.25 to 12.00-20/12 R 22.5
System of protection	IP 54

Accessories for RGE



By fitting reduction sleeves vehicles with smaller wheel diameters can be accommodated.



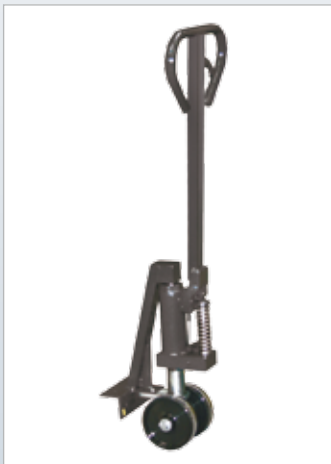
Stands
 1 AB 6-07, 470 - 795 mm
 2 AB 6-12, 875 - 1395 mm
 3 AB 6-20, 1200 - 1965 mm



1 Adjustable support SP 75
 2 Support plate APV for stands
 3 Support disk APR for stands



Remote control TCNA 10-2 with UP/DOWN and Emergency Off key function.



Hydraulic dolly; Model: MFP, for bolting to each column.



Single column RGE, load capacity 7500 kg



Crosspiece with 10 t load capacity

Further accessories, for example

- Carwash model RGE
- Custom control unit for connecting up to 12 wheel engaging columns
- Lifting carriage with fixed wheel engaging forks for special wheels
- Various power supply units
- Rechargeable battery torch
- 230 V shock-proof socket
- Dolly, mechanical, movable on wheels, Model: MFR-2
- Crossbar for accommodating semi-trailers
- Heavy duty castors at the base frame with plastic running surface

Lifting System for rail and special purpose vehicles

Model: RGE-GPGU and RGE special models



Forklift



Aircraft vehicles



Municipal vehicles



Rail vehicles



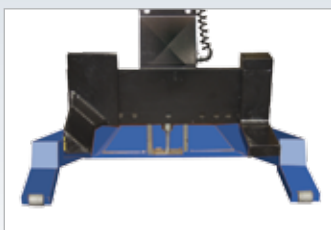
Military vehicles

Description

Lift systems that can hold special-purpose vehicles and rail vehicles are available upon request. We will develop a customised solution.

References:

Public transportation services in Potsdam (D), Chemnitz (D), Bern (CH), Stockholm (S), Göteborg (S), Wiener Linien, Wien (A), VAG Nürnberg (D), OEG Mannheim (D), Military (D), (S), (CH), (FIN), (GB), (A), (P)



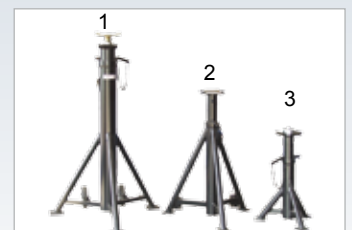
Universal lifting carriages with two flat, sliding support forks to hold forklift trucks etc.



Various support forks



Special adapter for the rail vehicles, customized



Stands

1	AB 6-07,	470 - 795 mm
2	AB 6-12,	875 - 1395 mm
3	AB 6-20,	1200 - 1965 mm

Mobile Wheel Engaging Lift for Delivery Vans, Trucks and Buses Model: MCL



Thanks to the radio control, no cables are needed to transfer data between the columns. Thus no time is needed for wiring up the columns.



Low-maintenance grease lubrication within the carrying and safety nut ensures a supply of the lubricant for the trapezoidal lifting screw with long maintenance intervals.



High stability owing to low friction losses through roller suspended carriage.



Description

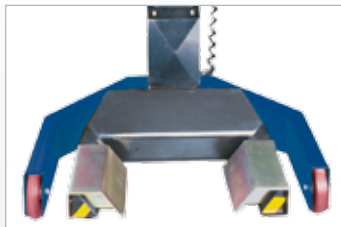
- Four single mobile columns including splash-waterproof control box, each with a 10 m long connecting cable
- Electronic controller with functions UP/DOWN, emergency shutdown pushbutton, pushbuttons for single, joint and group operation
- One mechanical dolly movable, on two wheels
- Lifting carriage with fixed wheel engaging forks
- Electronic synchronisation and safety monitoring through wireless link
- Trapezoidal lifting screw with safety nut
- Drive unit with worm gear motor at the top
- Emergency lowering mechanism for manual lowering in the event of a power failure
- 230 V mains power socket
- Low base frame height of 129 mm, thereby also allowing lifting of city buses
- 400 mm fork length for single wheel application
- Good handling through slim design
- EC type approval (CE)

With MCL line, MAHA offers a cost-effective, high-quality wheel engaging lift with wireless control of column operation.

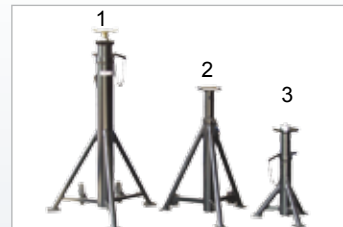
- Standard delivery 4 (MCL 22), 6 (MCL 33) or 8 columns (MCL 44)
- Electronic control with single and group operation through wireless link
- No master column and additional power supply unit
- Non-contact limit, safety, and displacement measurement through inductive sensors



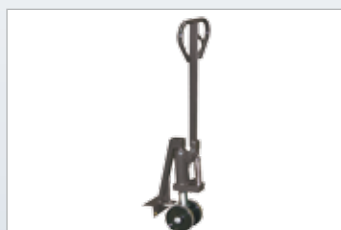
Accessories



By fitting reduction sleeves vehicles with smaller wheel diameters can be accepted.



Stands
 1 AB 6-07, 470 - 795 mm
 2 AB 6-12, 875 - 1395 mm
 3 AB 6-20, 1200 - 1965 mm



Hydraulic dolly; Model: MFP for bolting to each column.



1 Adjustable support SP 75
 2 Support plate APV for stands
 3 Support disk APR for stands

Further accessories, for example

- Cable remote control KFB2
- Support plate, round, pluggable or adjustable for stands
- Support plate, square, pluggable or adjustable for stands
- Crossbar for accommodating semi-trailers

Technical Data

Maximum load capacity per column	5500 kg
Raising/lowering time	150 s
Lifting range	1750 mm
Motor power per column	2.2 kW
Control voltage	24 V
Supply voltage	3 x 400 V / 50 Hz
Net weight per column	400 kg
Wheel size	8.25 to 12,00-20/12 R 22.5
System of protection	IP 54

Mobile Wheel Engaging Lift, battery-powered, for Trucks and Buses Model: RGA



Lifting system

Hardened stainless steel screw with low friction recirculating ball nut. Splash proof and dirt repellent design giving long life and low maintenance.



Owing to **radio control** no connecting cables between the columns are necessary. Thus no time is needed for wiring up the columns.



The power supply through the **rechargeable battery pack** permits operation independent of any mains power supply and flexible utilisation without wiring work.

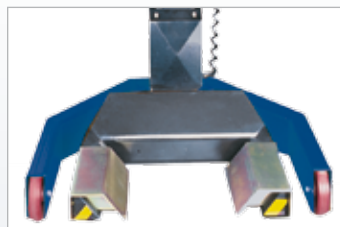


Description

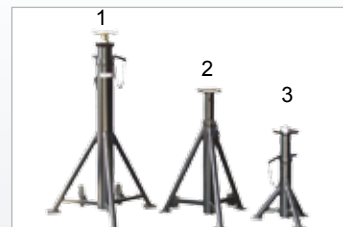
- Four single mobile columns incl. splash-proof control box and operating unit at each column
- Hydraulic dolly firmly bolted to each column
- Lifting carriage with fixed wheel engaging forks
- Powered through four batteries, 12 V each
- Electronic synchronisation and safety monitoring through wireless link
- Drive unit with worm gear motor at the top and low-wear and low-maintenance hardened precision screw with recirculating ball nut (efficiency over 90 %)
- Safety locking device independent of drive and screw
- Emergency lowering function, for mechanical lowering in the event of a power failure
- 5 year screw operation warranty, very long service life
- Limit stop, safety monitoring and displacement measurement through non-contact inductive sensors
- Selection of single columns (grouping) by keypress
- Non-contact RPM sensing, bottom limit switching and nut monitoring through proximity switch, upper limit switching is software controlled
- EC type approval (CE)



Accessories



By fitting reduction sleeves vehicles with smaller wheel diameters can be accepted.



- Stands
- 1 AB 6-07, 470 - 795 mm
 - 2 AB 6-12, 875 - 1395 mm
 - 3 AB 6-20, 1200 - 1965 mm



Cable remote control KFB2



- 1 Adjustable support SP 75
- 2 Support plate APV for stands
- 3 Support disk APR for stands

Technical Data

Maximum load capacity per column	7500 kg
Raising/lowering time	113 s
Lifting range	1750 mm
Motor power per column	1.5 kW
Strokes at part load (3500 kg)	35
Strokes at full load	20
Charging time max.	8 h
Power supply voltage for charger	230 V
Control voltage	48 V
Weight per column	545 kg
Wheel size	8.25 to 12.00-20/12 R 22.5
System of protection	IP 54

Mobile Column Lift for Agricultural Vehicles

Model: RGE-TS / RGA-TS



Crosspiece included with delivery for RGE-TS/RGA-TS with matching holders

Accessories



Adjustable support SP 75 for RGE TS / RGA TS / RGE T / RGA T



Remote control TCNA 10-2 for RGE T and RGE TS

Description

- Electronic synchronization
- Low-friction recirculating ball nut and screw (efficiency > 90%)
- Electronic safety monitoring
- High safety level ensured by independent locking device
- Highest safety level via contact-free end and safety switch
- 5-year warranty on lifting screw and nut
- Contact-free end, safety and travel measurement by inductive sensors
- Base frame height 129 mm
- Wheel lifting forks 400 mm long
- Adapter set to lift tractor on the front and rear side
- Electronic load monitoring

Technical Data

Model	RGE-TS	RGA-TS
Max. load capacity per column	7500 kg	7500 kg
Raising/lowering time	113 s	113 s
Lifting range	1750 mm	1750 mm
Motor power per column	1.5 kW	1.5 kW
Strokes at part load (3500 kg)	—	35
Strokes at full load	—	25
Charging time max.	—	8 Std.
Power supply voltage for charger	—	230 V
Control voltage	230 / 24 V	48 V
Supply voltage	3 x 400 V / 50 Hz	—
Weight per column	452 kg	545 kg
Data transfer	Kabel	Funk

Mobile Column Lift for Agricultural Vehicles

Model: RGE T / RGA T



Hydraulic dolly included with delivery for RGE T/RGA T

Accessories



Stands for RGE TS / RGA TS / RGE T / RGA T



Cable remote control KFB2 for RGA T and RGA TS



Description

- Electronic synchronization
- Selection of individual columns (group formation) per key click
- Low-friction recirculating ball nut and screw (efficiency > 90%)
- Low power consumption (only 1.5 kW per column)
- Slim, versatile column design
- Easy to operate
- Very long life expectancy
- High safety level ensured by independent locking device
- Easy Emergency Down function, e.g. at electrical outage
- Highest safety level via contact-free end and safety switch
- 5-year warranty on lifting screw and nut
- Contact-free end, safety and travel measurement by inductive sensors
- 500 mm fork length
- Electronic load monitoring

Technical Data

Model	RGE-T	RGA-T
Max. load capacity per column	5000 kg	5000 kg
Raising/lowering time	113 s	113 s
Lifting range	1750 mm	1750 mm
Motor power per column	1.5 kW	1.5 kW
Strokes at part load (3500 kg)	—	35
Strokes at full load	—	25
Charging time max.	—	8 Std.
Power supply voltage for charger	—	230 V
Control voltage	230 / 24 V	48 V
Supply voltage	3 x 400 V / 50 Hz	—
Weight per column	542 kg	637 kg
Data transfer	Kabel	Funk
Tyre size max.	2000 mm	2000 mm

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