

# LIFTING TECHNOLOGY

## SCISSORS LIFT

**DUO CM 4.2 A**  
VP 250225



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#### VP 250225

The scissors lift DUO CM 4.2 A, for above-floor installation, lifts vehicles of up to 4.2 t and is optimally suited for wheel alignment checks due to its high level of stability. Its robust and well-established construction is designed for maximum service life and high vehicle throughputs. Protected within the lifting cylinders, the integrated maintenance-free displacement measurement sensor (absolute linear measurement system) eliminates the need for light barriers for synchronisation monitoring and electric switches for lift height detection.

#### PRODUCT DETAILS/ACCESSORIES

- on-ground -

##### Description:

- Scissor lift for on-ground installation
- Very robust and well-established design with a high vehicle throughput and optimum service life in mind
- High lateral stability and bending strength, so also excellently suited to precise wheel alignment
- Runways equipped with pre-integrated guide rail for axle lift
- Latches and cylinder racks as extra safety feature
- Cables and hydraulic hoses installed safely within scissor pipes
- Low drive-on height for simple use
- An elevated lifting height in excess of 2 m makes repair works and access easier
- EMERGENCY OFF function in the case of power failure
- Additional anti-corrosion treatment of lock seams, cavity sealing
- Varnished with high-quality powder coating:
  - Anthracite Grey, RAL 7016 (Runways, Runway structures, Drive-on ramps, Base frame)
  - Window Grey, RAL 7040 (Scissors, Control Desk)
- Automatic synchronisation of runways and the optional wheel-free jack
- Protected within the lifting cylinders, the maintenance-free integrated displacement measurement encoder ('linear-absolute measuring system') eliminates the need for light

barriers for synchronisation monitoring and electric switches for lift height detection

- High level of safety due to immediate switch-off in case of (one-sided) collision with obstacle at minimum height difference
- Crushing and shearing protection due to CE stop
- Stops automatically upon rising to desired lifting height with custom programmable breakpoint
- Robust membrane keyboard
- Slanted runways available for easy drive-on and drive-off
- Optional dual latch for chassis alignment as a means of added stability within the scissor arm (not available in combination with wheel-free jacks)
- Reduced lifting/lowering time available

##### Scope of delivery:

- Scissor lift, type: DUO CM 4.2 A
- Operation desk with control and hydraulic unit
- Lockable main switch
- 2 long drive-on ramps, 2 roll bars
- 2 pneumatic quick-action couplings installed on runway
- Cover plates for cables and hydraulic hoses
- 8 rope loops to be used as a transport aid
- Operating manual and test log
- EC CE declaration of conformity
- Transport packaging

#### TECHNICAL DATA

CE load capacity	4200 kg
CE load capacity with wheel-free jack	4200 kg
Max. lifting height	2075 mm
Stroke	1850 mm
Lifting / lowering time, load-dependent	approx. 40 / 40 s
Overall dimensions (L x W x H)	5900 x 2075 x 240 mm
Drive-on height (without accessories)	240 mm
Runway dimensions (L x W x H)	4400 x 617 x 126 mm

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Optional runway length	4800 mm
Drive power	2.5 kW
Operating pressure	190 bar
Power supply	3/N/PE 400 V 50 Hz
gG fuse	16 A
Weight	2650 kg
Weight including packaging	2700 kg
Packaging dimensions (L x W x H)	4500 x 800 x 800 mm
Hydraulic oil volume (not included)	40 l

### ACCESSORIES

VZ 990450	Mains power supply 3x380-400V+PE, 60Hz -Extra Charge-	VZ 995021	Installation Costs for Standard Installation of Play Detector -NET PRICE-
VZ 990451	Mains power supply 3x230V+PE, 50Hz -Extra Charge-	VZ 990199	Safety Switch for Lift in conjunction with Brake Testers MAHA
VZ 985060	Manual lowering function with hand pump	VP 985049	Axle play detector PMS 3/R to install in the back of the lift
VZ 975013	Runways with Granulate Coating -Extra Charge	VP 985008	Axle Play Detector PMS 3/D for installation in lift rear
VZ 970028	Short Lifting/Lowering Time approx. 20 s / 20 s (4200 kg) approx. 30 s / 30 s (5000 kg)	VZ 970135	Mechanical Locks (Functions Set on Locks and Runways exactly Level)
VZ 970029	Short lifting/lowering time approx. 12 s / 12 s (4200 kg) approx. 15 s / 18 s (5000 kg)	VZ 970042	Double detent for precision wheel alignment -EXTRA CHARGE
VZ 975181	Compressed-Air Servicing Unit with Fastening Angle (0 - 10 bar)	VZ 975032	Compensating plates (2) for equipment without turning plates
VZ 970012	Wheel-Free Jack 4	VZ 975455	Granular Coating for Compensating and Support Plates for Turning Plates
VZ 975074	Hard Rubber Blocks, Plug-in Type (4 pcs.) 120 x 100 x 50 mm	VZ 975027	Aluminium Covers for Sliding Plates (2 pcs.)
VZ 975069	Plastic Chocks (4 pcs.) (47 x 132 x 340 mm)	VZ 975454	Granular Coating for Compensating Plates for Lift without Wheel-Free Jack
VZ 990432	LED Illuminant, 2 pcs (1 pcs per each Runway)	VZ 975026	Sliding Plates (2 pcs.) LxWxH: 1060 x 570 x 50 mm
VZ 990433	LED Illuminant, 4 pcs (2 pcs per each Runway)	VZ 970027	Sliding Plates (2 pcs.) Long Version LxWxH: 1465 x 570 x 50 mm
VZ 990012	Shockproof socket 230 V, integrated into runway (only in combination w. lighting)	VZ 975110	Compensating <-&<-> Support Plates for Turning Plates for DUO with 4400 mm Driving Platforms
VZ 990029	Light Barrier Safety Device to avoid Contact with Ceiling	VZ 970022	Compensating <-&<-> Support Plates for Turning Plates for DUO with 4800 mm Driving Platforms
VZ 990423	Light Barriers at Outer Runway Edges as Extra Pinch Point Protection	VZ 975108	Compensating Plates (2 pcs.) f. Lift w/o Wheel-Free Jack (without Granulate Coating)
VZ 970161	External Operating Unit for DUO CM 4.2/5.0 and R-AS40/50	<b>SUPPLEMENTARY CHARGES</b>	
VZ 970157	Storage Tray f. Support Blocks mounted below runway (2 pcs.)	VT 998215	Transport Werkverkehr -SÜDScheren-Hebebühne bis 5,5 t
VZ 970024	Extended driving runways 4800 mm (in case of 4400 mm runways)	VT 998216	Transport Werkverkehr -NORDScheren-Hebebühne bis 5,5 t
VZ 970162	Crossbar for wide installation of DUO CM 4.2 (950 mm inside runways)	VM 996183	Installation Costs for Scissors Lifts (Lump Sum)
VZ 975040	Compensating Plates for Level Adaptation of Wheel-Free Jack, h = 50 mm	VM 996072	Install. Charges f. Ceiling Light Barrier -T<-&<->-M Basis
VZ 975041	Compensating Plates for Levelling of Wheel-Free Jack (runway 4.4m) granulate coat.	VM 995087	Levelling of Scissors-Lift/ Four Post Lift
VZ 970023	Compensating Plates for Level Adaption of Wheel-Free Jack h = 50 mm (4 pcs),	VM 999035	Hydraulic Oil (HLP-D 22) per Litre -NET PRICE
VZ 975020	Permanent Tilting Position Removable (only necessary for Above-Floor Installation)	VM 999014	Hydraulic Oil, Biodegradable (HLP 32), per litre -NET
VZ 985006	Hydraulic Runway Inclination	VM 999047	Assembly Material DUO CM/R-AS40CM (Cables, Hydraulic Hoses) 5 m
VZ 970010	Aluminium Step Ramp for Low-Lying Vehicles e.g. Front Spoiler	VM 999061	Assembly Material DUO CM/R-AS40CM with Wheel-Free Jack
VZ 970019	Exit Ramp, Length 1600 mm, for Above-Floor Lifts	VM 999049	Assembly material additional for DUO CM/R-AS40CM per meter (max. 8 m)
VP 985007	Axle Play Detector, PMS 3/X for Installation in Front of Scissors Lift	VM 999009	Fixing material (including adjusting pieces, adjusting screws and dowels)
VP 985024	Axle Play Detector, Model: PMS 3/XL with Lowerable Prism Blocks		