

LIFTING TECHNOLOGY

SCISSORS LIFT

DUO CM 4.2 U
VP 250226



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The scissors lift DUO CM 4.2 U, for flush-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 for high vehicle throughputs when used for vehicle testing. 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

- in-ground -

Description:

- Scissor lift for in-ground installation for easier use of the lift, without protruding components in the lift area
- 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
- An elevated lifting height in excess of 2 m makes repair works and access easier and ensures suitability for strip foundations
- 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
- Centre platform option integrates the entire hydraulics and electrics systems in the steel casing in the rectangular foundation and replaces the large operation desk, making it very space-saving
- Optional lift floor for retractable in-ground axle jack
- Double latch option for wheel alignment for additional stability within the scissors arm (not possible in conjunction with wheel-free jack)
- DUO-SPEED option for short lifting / lowering times

Scope of delivery:

- Scissor lift, type: DUO CM 4.2 U
- Operation desk with control and hydraulic unit
- Lockable main switch
- 4 roll-off flaps
- 2 pneumatic quick-action couplings installed on runway
- 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)	4400 x 2075 x 240 mm
Installation depth	250 mm

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TECHNICAL DATA

Runway dimensions (L x W x H)	4400 x 617 x 126 mm
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
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 970114	Center Platform f. 4.8 m Runways -w. Integrated Power Unit and Electric System-
VZ 990451	Mains power supply 3x230V+PE, 50Hz -Extra Charge-	VZ 970116	Pedestal for operating element
VZ 985060	Manual lowering function with hand pump	VZ 970032	Floor Levelling Platform for Axle Lift in Strip Foundation
VZ 975013	Runways with Granulate Coating -Extra Charge	VZ 970115	Floor Levelling Platform for Axle Lift AL II-Series
VZ 970028	Short Lifting/Lowering Time approx. 20 s / 20 s (4200 kg) approx. 30 s / 30 s (5000 kg)	VP 985007	Axle Play Detector, PMS 3/X for Installation in Front of Scissors Lift
VZ 970029	Short lifting/lowering time approx. 12 s / 12 s (4200 kg) approx. 15 s / 18 s (5000 kg)	VP 985024	Axle Play Detector, Model: PMS 3/XL with Lowerable Prism Blocks
VZ 975181	Compressed-Air Servicing Unit with Fastening Angle (0 - 10 bar)	VZ 995021	Installation Costs for Standard Installation of Play Detector -NET PRICE-
VZ 970012	Wheel-Free Jack 4	VZ 990199	Safety Switch for Lift in conjunction with Brake Testers MAHA
VZ 975074	Hard Rubber Blocks, Plug-in Type (4 pcs.) 120 x 100 x 50 mm	VP 985049	Axle play detector PMS 3/R to install in the back of the lift
VZ 975069	Plastic Chocks (4 pcs.) (47 x 132 x 340 mm)	VP 985008	Axle Play Detector PMS 3/D for installation in lift rear
VZ 990432	LED Illuminant, 2 pcs (1 pcs per each Runway)	VZ 970135	Mechanical Locks (Functions Set on Locks and Runways exactly Level)
VZ 990433	LED Illuminant, 4 pcs (2 pcs per each Runway)	VZ 970042	Double detent for precision wheel alignment -EXTRA CHARGE
VZ 990012	Shockproof socket 230 V, integrated into runway (only in combination w. lighting)	VZ 975032	Compensating plates (2) for equipment without turning plates
VZ 990029	Light Barrier Safety Device to avoid Contact with Ceiling	VZ 975455	Granular Coating for Compensating and Support Plates for Turning Plates
VZ 990423	Light Barriers at Outer Runway Edges as Extra Pinch Point Protection	VZ 975027	Aluminium Covers for Sliding Plates (2 pcs.)
VZ 970161	External Operating Unit for DUO CM 4.2/5.0 and R-AS40/50	VZ 975454	Granular Coating for Compensating Plates for Lift without Wheel-Free Jack
VZ 970157	Storage Tray f. Support Blocks mounted below runway (2 pcs.)	VZ 975026	Sliding Plates (2 pcs.) LxWxH: 1060 x 570 x 50 mm
VZ 970024	Extended driving runways 4800 mm (in case of 4400 mm runways)	VZ 970027	Sliding Plates (2 pcs.) Long Version LxWxH: 1465 x 570 x 50 mm
VZ 970162	Crossbar for wide installation of DUO CM 4.2 (950 mm inside runways)	VZ 975110	Compensating <-&<-> Support Plates for Turning Plates for DUO with 4400 mm Driving Platforms
VZ 975040	Compensating Plates for Level Adaptation of Wheel-Free Jack, h = 50 mm	VZ 970022	Compensating <-&<-> Support Plates for Turning Plates for DUO with 4800 mm Driving Platforms
VZ 975041	Compensating Plates for Levelling of Wheel-Free Jack (runway 4.4m) granulate coat.	VZ 975108	Compensating Plates (2 pcs.) f. Lift w/o Wheel-Free Jack (without Granulate Coating)
VZ 970023	Compensating Plates for Level Adaption of Wheel-Free Jack h = 50 mm (4 pcs),		
VZ 972165	Automatic Roll-Off Protection (4 pcs.) incl. Support		
VZ 970102	Floor Levelling Platform for Axle Lift in Strip Foundation -wide-		
VZ 975019	Grate within the Driving Platforms for Extended Version 4400 mm		
VZ 975189	Steel Grating within Runways for Extended Version 4800 mm		
VZ 970113	Center Platform f. 4.4 m Runways -w. Integrated Power Unit and Electric System-		

SUPPLEMENTARY CHARGES

VT 998215	Transport Werkverkehr -SÜDScheren-Hebebühne bis 5,5 t
VT 998216	Transport Werkverkehr -NORDScheren-Hebebühne bis 5,5 t
VM 996183	Installation Costs for Scissors Lifts (Lump Sum)
VM 996181	Montagekosten Rahmen - 10 t überfahrbar (DUO CM 4.2)
VM 996072	Install. Charges f. Ceiling Light Barrier -T-<-&<->M Basis

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VM 996170 Installation Costs for Grating, Center Platform
VM 995087 Levelling of Scissors-Lift/ Four Post Lift
VM 999035 Hydraulic Oil (HLP-D 22) per Litre -NET PRICE
VM 999014 Hydraulic Oil, Biodegradable (HLP 32), per litre
-NET
VM 999047 Assembly Material DUO CM/R-AS40CM (Cables,
Hydraulic Hoses) 5 m

VM 999061 Assembly Material DUO CM/R-AS40CM with
Wheel-Free Jack
VM 999049 Assembly material additional for DUO CM/R-
AS40CM per meter (max. 8 m)
VM 999009 Fixing material (including adjusting pieces,
adjusting screws and dowels)