

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
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

ACCESSORIES

VZ 990450	Mains power supply 3x380-400V+PE; 60Hz -Extra Charge-
VZ 990451	Mains power supply 3x230V+PE; 50Hz -Extra Charge-
VZ 985060	Manual lowering function with hand pump
VZ 975013	Runways with Granulate Coating -Extra Charge
VZ 970028	Short Lifting/Lowering Time approx. 20 s / 20 s (4200 kg) approx. 30 s / 30 s (5000 kg)
VZ 970029	Short lifting/lowering time approx. 12 s / 12 s (4200 kg) approx. 15 s / 18 s (5000 kg)
VZ 975181	Compressed-Air Servicing Unit with Fastening Angle (0 - 10 bar)
VZ 970012	Wheel-Free Jack 4
VZ 975074	Hard Rubber Blocks, Plug-in Type (4 pcs.) 120 x 100 x 50 mm
VZ 975069	Plastic Chocks (4 pcs.) (47 x 132 x 340 mm)
VZ 990432	LED Illuminant, 2 pcs (1 pcs per each Runway)
VZ 990433	LED Illuminant, 4 pcs (2 pcs per each Runway)
VZ 990012	Shockproof socket 230 V, integrated into runway (only in combination w. lighting)
VZ 990029	Light Barrier Safety Device to avoid Contact with Ceiling
VZ 990423	Light Barriers at Outer Runway Edges as Extra Pinch Point Protection
VZ 970161	External Operating Unit for DUO CM 4.2/5.0 and R-AS40/50

AXLE JACK, PLEASE SEE SEPARATE PRICELIST!

ACCESSORIES DUO CM 4.2

VZ 970157	Storage Tray f. Support Blocks mounted below runway (2 pcs.)
VZ 970024	Extended driving runways 4800 mm (in case of 4400 mm runways)
VZ 970162	Crossbar for wide installation of DUO CM 4.2 (950 mm inside runways)
VZ 975040	Compensating Plates for Level Adaptation of Wheel-Free Jack, h = 50 mm
VZ 975041	Compensating Plates for Levelling of Wheel-Free Jack (runway 4.4m) granulate coat.
VZ 970023	Compensating Plates for Level Adaption of Wheel-Free Jack h = 50 mm (4 pcs),

ACCESSORIES DUO CM 4.2/5.0 U

VZ 972165	Automatic Roll-Off Protection (4 pcs.) incl. Support
VZ 970102	Floor Levelling Platform for Axle Lift in Strip Foundation -wide-

ACCESSORIES DUO CM 4.2 U

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-
VZ 970114	Center Platform f. 4.8 m Runways -w. Integrated Power Unit and Electric System-
VZ 970116	Pedestal for operating element
VZ 970032	Floor Levelling Platform for Axle Lift in Strip Foundation
VZ 970115	Floor Levelling Platform for Axle Lift AL II-Series

ACCESSORIES TEST LANE LIFTS

VP 985007	Axle Play Detector, PMS 3/X for Installation in Front of Scissors Lift
VP 985024	Axle Play Detector, Model: PMS 3/XL with Lowerable Prism Blocks
VZ 995021	Installation Costs for Standard Installation of Play Detector -NET PRICE-
VZ 990199	Safety Switch for Lift in conjunction with Brake Testers MAHA

ACCESSORIES TEST LANE LIFTS DUO CM 4.2

VP 985049	Axle play detector PMS 3/R to install in the back of the lift
VP 985008	Axle Play Detector PMS 3/D for installation in lift rear

ACCESSORIES WHEEL ALIGNMENT LIFT

VZ 970135	Mechanical Locks (Functions Set on Locks and Runways exactly Level)
VZ 970042	Double Safety Catch for Precision Under-Carriage Alignment -EXTRA CHARGE-
VZ 975032	Compensating plates (2) for equipment without turning plates
VZ 975455	Granular Coating for Compensating and Support Plates for Turning Plates
VZ 975027	Aluminium Covers for Sliding Plates (2 pcs.)
VZ 975454	Granular Coating for Compensating Plates for Lift without Wheel-Free Jack

ACCESSORIES WHEEL ALIGNMENT LIFT DUO CM 4.2

VZ 975026	Sliding Plates (2 pcs.) LxWxH: 1060 x 570 x 50 mm
VZ 970027	Sliding Plates (2 pcs.) Long Version LxWxH: 1465 x 570 x 50 mm
VZ 975110	Compensating & Support Plates for Turning Plates for DUO with 4400 mm Driving Platforms
VZ 970022	Compensating & Support Plates for Turning Plates for DUO with 4800 mm Driving Platforms
VZ 975108	Compensating Plates (2 pcs.) f. Lift w/o Wheel-Free Jack (without Granulate Coating)

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SUPPLEMENTARY CHARGES

VT 998040	Transportkosten Scherenhebebühne	VM 999014	Hydraulic Oil, Biodegradable (HLP 32), per litre -NET
VT 998109	Transportkosten Mittelplattform	VM 999047	Assembly Material DUO CM/R-AS40CM (Cables, Hydraulic Hoses) 5 m
VM 996183	Installation Costs for Scissors Lifts (Lump Sum)	VM 999061	Assembly Material DUO CM/R-AS40CM with Wheel-Free Jack
VM 996181	Montagekosten Rahmen 10 t überfahrbar (DUO CM 4.2)	VM 999049	Assembly material additional for DUO CM/R-AS40CM per meter (max. 8 m)
VM 996072	Install. Charges f. Ceiling Light Barrier -T&M Basis	VM 999009	Fixing material (including adjusting pieces, adjusting screws and dowels)
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		