Stationary Heavy Duty Scissor Lift HDS® Single

Technical Specifications

Model	• **HDS 25-Single**
Description	• 2 platforms with integrated Y-tec® [1)] semi scissors, installation as floor or recessed version • 1 power unit with control box
Capacity	• 25 t • Up to 37 t, at symmetric load distribution (dependent on platform length)
Lifting height	• 2105 mm (floor version), 1750 mm (recessed version)
Lifting/lowering	• Approx. 90 sec. • Slow speed up and down selectable
Load support	• 2 platforms • Length of platforms 6.5 / 8 / 9 / 10 / 12 / 14.5 m • Dimensions of platforms: height 355 mm, width 750 mm • Lateral clearance under the platforms between the semi-scissors, floor version: length of platforms 6.5 – 8 m = height 1795 mm / 9 – 14.5 m = height 1765 mm. • Distance between the platforms 1100 mm (standard), or to suit customers re-quirements. • The platform profile is extremely rigid by Z profile[1)], roll-edged, flat and even - tolerance longitudinal +/-10 mm. • Accessories such as a jacking beam, lamps, sockets and compressed air coupl-ings can be integrated on the inner edge of the platforms without services on the outer edge of the platform (important for the recessed version).
Design	• Vertical lifting by Y-tec® [1)] semi scissors • Construction without base frame and transverse joints for free access from each side. • The Y-tec® [1)] semi scissors are placed at the very end of the platforms for maximum free space under the platforms between the scissor elements. • The lifting cylinders are integrated and protected by the Y-tec® [1)] semi scissors under the platforms. • The supply lines are within the Y-tec® [1)] semi-scissors, without disturbing energy chains on the platforms. • Fastening of the lift to ground with only 4 support plates (700x490 mm), with a small floor loading (50 N/m^2, concrete C20/25)
Operation	• From a separate control box • Functions: lifting/lowering, main switch with emergency stop, slow speed, lighting on/off • Indication via large LCD display: lifting height, operational functions • Adjustable lifting height limits • Error diagnosis
Control	• Continuous by proportional valves, tolerance 15 mm • Softstart during lifting and lowering, which limits the risk of damage • Monitoring of all operational functions • Control voltage 24 V DC

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Drive	• Electro-hydraulic • Motor capacity 4 x 2.2 KW • Low initial current by sequential starting of the 4 motors • Energy-saving lowering, not power driven
Power supply	• 400 V / 3 Ph-N-PE / 50 Hz, 35 A Slow-Blow fuse, cross section 4 x 5 mm • Compressed air connection minimum 6 bar, 8 bar using a pneumatic jacking beam[3)]
Safety features	• Double load securing, hydraulic and mechanical. Mechanical locks every 55 mm • Overload protection by hydraulic pressure limiting valve
Weight	• Platform length 6.5 m: 5500 kg • Platform length 8.0 m: 6200 kg • Platform length 9.0 m: 6400 kg • Platform length 10.0 m: 6800 kg • Platform length 12.0 m: 8200 kg • Platform length 14.5 m: 10000 kg
Protection class	• Platforms IP65 • Control box IP54
Temperature range	• -5 to +50°C
Sound pressure level	• < 70 dB(A)
Surface traitment	• Surface of the platforms flat steel, painted RAL7015 grey Optional: anti-skid surface[2)], galvanized version[2)] for wet areas/ wash bays • Power unit and control box powder coated in RAL7015 grey
Safety standards	• CE, EN 1493:2010
Scope of delivery	• Hydraulic oil inclusive • Fixing material inclusive (stainless steel anchor bolts) Connection lines are provided for a standard distance between the power unit and the platforms of 1.5 m
Country of origin	• Germany

[1)] Patent applied for
[2)] Special equipment, optional
[3)] Accessories, optional

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Accessories

Ascending ramps (floor version)	Length 2.35 m, floor mounted, 1 pair Length 3.3 m, floor mounted, 1 pair Length 1.8 m, mounted on the platform rails, 1 pair
Lighting	4, 6, 8, or 10 fluorescent lamps
Electrical sockets	2 sockets 230V
Pneumatic sockets	2 rapid couplings, minimum operating pressure of 6 bar at one platform
Battery-powered jacking beam	Capacity of 15 t, load support by one cylinder with support plate, electro-hydraulic drive
Pneumatic jacking beam	Capacity of 16 t, load support by two cylinders with support plate, hydro-pneumatic drive, operating pressure 8 – 10 bar
Position control for jacking beam (recessed version)	Supervision of the jacking beam parking position when lowering into the pit
Floor levelling device for platform pit (recessed version)	Length dependant on the length of the platforms, electro-hydraulic drive, automatic lifting and lowering, admissible load 1500 kg per platform
Floor levelling device for cross pit of jacking beam (recessed version)	Even covering of the cross pit, lifting and lowering together with the floor levelling device of the lift HDS, admissible load 250 kg
Anti-skid surface for the platforms	Coating of the platforms with quartz sand, anti-slip class R13, for a platform length from 6.5 to 9 m of the HDS25
Wet area version for the lift	Platforms of the lift hot galvanized, surface of the functional elements and covers are treated with an anti-corrosion primer on epoxy resin base and a finish coating according to RAL corresponding to DIN EN ISO 12944 chapter 6, corrosion category C5 I medium
Galvanizing of ascending ramps	Hot galvanization for ascending ramps
Galavanizing of floor levelling device	Hot galvanization for floor levelling device
Explosion-proof version	

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