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Putzmeister MINELIFT 4: New scissor lift platform for mining

For more than 30 years Putzmeister has designed, developed, and produced equipment for shotcrete in mines and tunnels, combining excellence in concrete pumping with experience in the field of shotcrete, acquired in many tunneling and mining projects throughout the world. The range of equipment for shotcrete is complemented by transportation equipment for concrete and cement.

To continue optimizing logistics of underground mining operations, Putzmeister has developed the MINELIFT 4 scissor lift platform. With a lifting height of 4 meters and 4 ton capacity, the equipment provides a mobile and secure working platform for load- and personnel lifting in underground mining and can also be set up for all kinds of installations, like piping and ventilation. In this way, MINELIFT 4 is adaptable to customers' needs.

Handling and installation of piping and ventilation

MINELIFT 4 is available in a configuration set-up for the installation of water, air, drainage, and tailing pipes in underground mining. It incorporates a drop-wing platform extension that expands the wide lateral by 700 mm, providing a work surface total of 3,400 x 2,550 mm. The high load capacity crane allows pipes to be lifted in an easy and safe way. For mounting, MINELIFT 4 incorporates a pipe handling system with two independent telescopic arms, designed for pipes from 4 - 8" (100 - 200 mm) and with load capacities of 300 kg each. In this way, MINELIFT 4 facilitates safe and efficient operation during pipe installation in underground mining.

For ease of operation in ventilator mounting, MINELIFT 4 is available with an auxiliary lift platform that provides a load capacity of 2,500 kg and lifts up to 1,100 mm from the main platform. By incorporating this optional equipment, MINELIFT 4 becomes a complete solution for lifting and installation work in underground mining.

Putzmeister off-road vehicle with 130 kW (174 HP) Diesel engine

MINELIFT 4 features compact design with heavy-duty axles and 4 steering and driving wheels (4x4), as well as a powerful 6-cylinder 130 kW (174 HP). The Integrated Continuously Variable Drive (ICVD) without gear shift allows you to leverage the maximum engine power at any time without breaks in traction, making operation easier for the driver. The combination of the hydrostatic drive system, slope measurement, and Putzmeister control software form the core of the automatic downhill speed control system. The equipment automatically adapts its maximum speed to the slope, taking full advantage of the engine retention capacity, thereby

reducing the probability of operational errors. Service brakes on both axles are multi disc in oil bath, hydraulically operated with two independent circuits. This system provides great stopping power and a long working life, even in the most demanding conditions. This ensures maximum operational safety, performance, and durability of the equipment.

MINELIFT 4 features a FOPS/ROPS certified driving cabin, designed according to ergonomic standards to reduce operator fatigue and increase productivity. The equipment has LED work lights both on the platform and on the vehicle, providing operators with a safe environment inside the mine. Thanks to the reverse camera with night vision, the operator can maneuver in reverse with confidence and accuracy. At the request of the customer, the equipment is available with an enclosed cab which can include air conditioning and heating.

Technical Details	
Lifting height	4,000 mm
Lifting capacity	4,000 kg
Length	6,820 mm
Width	2,200 mm
Tramming height	2,500 mm
Inner turning radius	2,400 mm
Outer turning radius	6,095 mm
Diesel engine	6 cylinders, 130 kW at 2,200 rpm
Optional equipment for pipe and fan handling	
Extendable platform	700 mm additional width
Pipe handling system	2 telescopic arms
Crane	Max. lifting capacity 2,150 kg
Auxiliary elevating platform	Max. load capacity 2,500 kg

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