

TRANSPORT WINCH KOEXPRO VTK 1

Use and description:

Transport winch KOEXPRO type **VTK 1** (hereinafter only winch) is a pulling equipment with pneumatic drive. It is used for transport and handling the loads in horizontal and also in inclined underground workings. It consists of a frame, drive, gearing with brake, velocity control device, of drum with planetary gear box, pawl mechanism, limiting rollers, drum cover and anchoring frame. Transport brake and also pawl mechanism are dimensioned towards the winch max. parameters.

The winch is controlled through air valve, with pneumatic motor reversible lever, brake pedal and with pawls control lever. Through the gearing, two rope velocities are achieved – pulling and unwinding. The rope velocity is set with arrestment lever on the winch velocity control mechanism. The winch control enables smooth start even with max. pulling force in rope. The cover is possible to open. It is manufactured from circular bars and so it is possible to observe the winding of the rope and function of the pawl mechanism. In case of other variants it is possible to use motor VMZ 15 or VMZ 13.



VTK 1

Characteristics:

Type		VTK 1			
		Winding		Unwinding	
Pneumatic motor type		VMZ 15	VMZ 13	VMZ 15	VMZ 13
Pneumatic motor output	kW	15	13	15	13
Medium pulling force in rope	kN	46.6	39.4	–	–
Highest pulling force in rope on empty drum	kN	58.2	46.9	–	–
Smallest pulling force in rope with full drum	kN	38.8	34	–	–
Medium rope velocity	m.s ⁻¹	0.28	0.28	1.52	1.52
Highest rope velocity with full drum	m.s ⁻¹	0.34	0.34	1.82	1.82
Smallest rope velocity on empty drum	m.s ⁻¹	0.23	0.23	1.21	1.21
Air pressure	MPa	0.4 – 0.6		0.4 – 0.6	
Compressed air filtration	µm	55		55	
Drum diameter	mm	300		300	
Rope length ø 20 ČSN 02 4341.51	m	100		100	
Rope and pawls min. safety coefficient		6		6	
Dimensions (w x h x l)	mm	970x1 575x880		970x1 575x880	
Weight	kg	1 050.0		1 050.0	

Type marking: **VTK 1**
VTK TRANSPORT WINCH KOEXPRO
1type number

The product has been designed and constructed as the equipment group I (mine), category M2 and equipment group II (mine surface installations), category 2 according to the Directive 94/9/EC of the European Parliament and of the Council and meets the requirements for using in areas “dangerous atmospheric conditions 2” according to EN 1127-2+A1 and “zone 1” according to EN 1127-1 on condition that all national regulations of the employer are fulfilled.

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