

HYDRAULIC TRANSPORT WINCH VTH 1WK (EMULSION DRIVE)

Use and description:

Transport winch **VTH 1 WK** (hereinafter only winch) is a trackage equipment with hydraulic drive for transport and handling the loads in horizontal and inclined mine workings.

The winch consists of frame, hydraulic (emulsion) drive, gearing, rope seating device, drum with planetary gearing, limiting rollers, clutch cover, band brake with pedal control, pawl mechanism and anchoring frame. Due to the gearing, two rope speeds are possible to set – transport and unwinding. The control of the winch is using the controller and throttle valve located in operating space. The cover of the drum is possible to open. It is made from circular bars and so the rope watching and operator's safety is assured during the operation.



VTH 1 WK



MOTOR WITH GEARBOX

Characteristics:

Type		VTH 1 WK	
		Winding	Unwinding
Medium pull in rope	kN	46.6	-
Highest pull in the rope with empty drum	kN	58.2	-
Smallest pull with fully winded drum	kN	38.8	-
Rope medium velocity	m.s ⁻¹	0.28	1.52
Highest rope velocity with fully winded drum	m.s ⁻¹	0.34	1.82
Rope smallest velocity with empty drum	m.s ⁻¹	0.23	1.21
Motor		emulsion	emulsion
Motor output	kW	15	
Working medium		emulsion HFA with min. 1.50% concentration or hydraulic liquid having a viscosity of 46 mm ² .s ⁻¹ at 40°C	
Working medium max. pressure	MPa	32	32
Working medium filtration	µm	50	50
Drum diameter	mm	300	300
Rope length ø 20 ČSN 02 4342.51	m	100	100
Dimensions (w x h x l)	mm	970x880x1 575	970x880x1 575
Weight	kg	1 025.0	1 025.0

The product has been designed and constructed as the equipment group I (mine), category M2 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 on condition that all national regulations of the employer are fulfilled.