

ANCHORING DRILLING MACHINE VS 1 WK (EMULSION DRIVE)

Use and description:

Anchoring drilling machine **VS 1 WK** is a portable one, which has been designed and constructed for drilling holes in rocks for following installation of anchor support in mines or in underground construction activities and other applications. Due to small weight and unit- built design it is suitable for using in difficult accessible spaces. After extending it is possible to drill holes in whole extend from horizontal up to vertical direction.

Anchoring drilling machine consists of the frame equipped on its rear site, with extending hydraulic cylinder, extending screwed rod on the front site and of a chain for shifting the spindle. The spindle is designed so that the washing of the drilling tool is possible. The spindle rotation and feed is designed using two independent special hydraulic motors designed for the working medium – water emulsion HFA (min. 1.50% concentration). Based on requirement it is possible to re- design the total length of the drilling machine and the spindle shift length.



VS 1 WK

Characteristics:

Type		VS 1 WK
Torque moment	Nm	200 – 240
Speed	min ⁻¹	up 550
Max. stroke	mm	1 500
Spindle stroke	mm	1 500
Shifting velocity without loading	m.s ⁻¹	up 0.85
Extending force	kN	7,70
Thrust force	kN	5
Operation pressure	MPa	20
Max. pressure	MPa	32
Flow rate at 300 rpm	dm ³ .min ⁻¹	55
Working medium	emulsion HFA with min. 1.5% concentration or hydraulic liquid having a viscosity of 46 mm ² .s ⁻¹ at 40°C	
Filtration	µm	50
Washing liquid pressure	MPa	1.20
Dimensions w x h x l (drilling machine max. length)	mm	355x258x2 466 (3 966)
Weight	kg	69.0

Type marking:

VS 1 WK
 VS ANCHORING DRILLING MACHINE
 1 type
 WK emulsion driving system

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

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Photo of the drill VS 1 WK during the testing operation under mine underground conditions

