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Underground Hydraulic Drilling Rig **WDH-3**

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The WDH-3 Underground Hydraulic Drilling Rig is designed for geological prospecting drilling and drilling water drainage, methane drainage, engineering and protection holes with diameters between 59 mm and 600 mm in rocks of different hardness using the rotary method. The drilling rig has a hydraulic drive and is powered with hydraulic oil supplied by a hydraulic power supply unit.



TYPE	Unit	WDH-3
Marking	-	CE I M2 X
Medium	-	L-HL 46 or L-HL 68 hydraulic oil
Drilling depth	m	up to 300
Borehole diameter	mm	Ø95
Full section drilling diameters	mm	Ø 59 – 153
Diameter of rods used	mm	Ø51 or Ø60.3 or Ø76
Maximum rod length	mm	1500
Drilling angle	-	±90°
Type of rod thread	-	N42 or N51 or 2 ³ / ₈ WP
Supply pressure	MPa	14
Max. torque	Nm	2250 or 1120
Rotation - rod drive	rev/min	0-78 or 0-156
Holding down pressure	kN	0-75
Working advance speed	m/min	0 – 4,7
Weight	kg	750 (drilling rig) 130 (control panel)
Rig dimensions	mm	3200 x 1300 x 630
Control panel dimensions	mm	1000 x 620 x 1200

When the rig is used with angle drilling frames boreholes can be drilled at an angle of ±90°. The rotation and advance movement drives of the rig are powered from hydraulic motors connected to a hydraulic power supply unit.

The rig is equipped with a two-speed motor to allow for variable rotation speed and torque levels. The whole operation of the drilling rig is controlled remotely from a control panel.

To ensure optimal working conditions we recommend connecting the rig to our own AZH2-100/25 power supply unit.

The design and materials used to make the drilling rig allow it to be operated in non-methane and methane areas in workings classified as "a", "b" or "c" methane explosion hazard zones and in workings classified as class "A" or "B" coal dust explosion hazard zones. The WDH-3 Drilling Rig is classified as Group 1 Category M2 equipment according to the Decree of the Minister of Economy of 22 December 2005 on essential requirements for protective systems and equipment intended for use in potentially explosive atmospheres (Dz. U. /Journal of Laws/ No. 263 of 2005, pos. 2203) and also meets the requirements of the Decree of the Minister of Economy of 21 October 2008 on essential requirements for machinery (Dz. U. /Journal of Laws/ No. 199 of 2008, pos. 1228).