



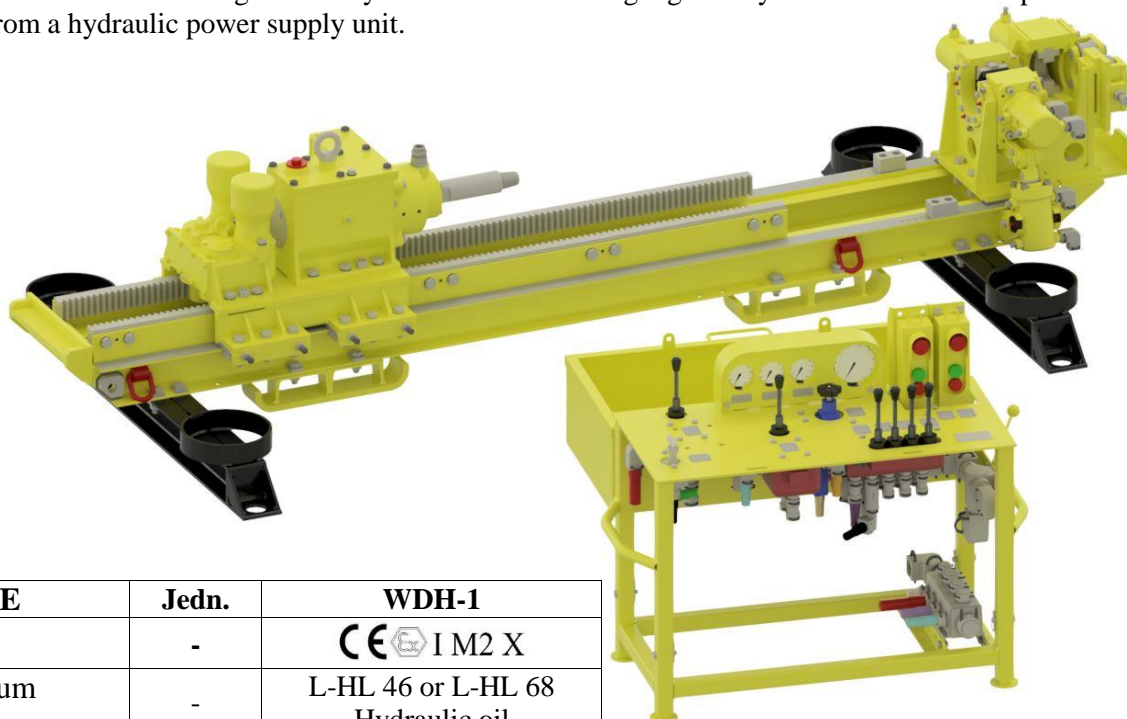
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## Underground Hydraulic Drilling Rig WDH-1

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The WDH-1 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 143 mm in rock of different hardness using the rotary method. The drilling rig has hydraulic drive and is powered with hydraulic oil from a hydraulic power supply unit.



TYPE	Jedn.	WDH-1
Marking	-	CE I M2 X
Power medium	-	L-HL 46 or L-HL 68 Hydraulic oil
Drilling depth	m	up to 120
Borehole diameter	mm	Ø76
Full section drilling diameters	mm	Ø 59 - 143
Diameter of rods used	mm	Ø 51
Maximum rod length	mm	1500
Drilling angle	-	±90°
Type of rod thread	-	N42 or other types as ordered
Supply pressure	MPa	14
Max. torque	Nm	235* or 500* or 800*
Rotation - rod drive	rev/min	0-420* or 0-210* or 0-130*
Holding down pressure	kN	0-24
Working advance speed	m/min	0 - 6,0
Weight	kg	475 (drilling rig) 130 (control panel)
Rig dimensions	mm	2580 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.

To allow for variable rotation speed and torque levels two types of hydraulic motors are used, which can be exchanged depending on your needs. Additionally, it is possible to increase torque from 500 to 800 Nm by changing the gears in the rod drive. 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 AZH2-68/27 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.

\* depending on the hydraulic motor and gears used.

The WDH-1 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).