



Underground Hydraulic Drilling Rig **WWH-5**



TYPE	Unit	WWH-5
Marking	-	CE I M2
Medium	-	Hydraulic oil
Drilling depth	m	up to 1000
Borehole diameter	mm	HQ Ø88,9
Diameter of rods used	-	BQ Ø55,6 NQ Ø69,9 HQ Ø88,9
Size of the feed	mm	1700
Drilling angle	-	±90°
Supply pressure (rotation)	bar	315
Max. torque	Nm	2300
Rotation - rod drive	rev/min	350-1200
Feed force	kN	100
Maximum feed rate	m/s	0,2
Weight	kg	2900 (drilling rig) 370 (control panel)
Rig dimensions	mm	3500 x 1430 x 1860
Control panel dimension	mm	1165 x 1150 x 1150

The **WWH-5** drilling rig is designed for directional drilling as well as traditional rotary drilling. The machine is designed for geological and exploratory drilling, creating dewatering, degasification, technical, and advance boreholes in rocks of various hardness levels. The rig's design allows it to work with commonly used drill rods and downhole motors with a diameter of up to 2 ¾ inches (≈70 mm). The hydraulic frame of the rig enables drilling at an angle of ±90°. The rig has a hydraulic drive and is powered by hydraulic oil from a power unit, while the downhole motor is supplied by a dedicated water pump. All components of the set are manufactured by OMAG. The WWH-5 offers up to 1200 drilling rotations and a torque of up to 2300 Nm.

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 WWH-5 Drilling Rig classified as Group I Category M2 equipment according to the Polish Regulation of the Minister of Development dated 6 June 2016 and concerning the requirements for equipment and protective systems intended for operation in zones of explosion hazard, implementing Directive ATEX 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).

