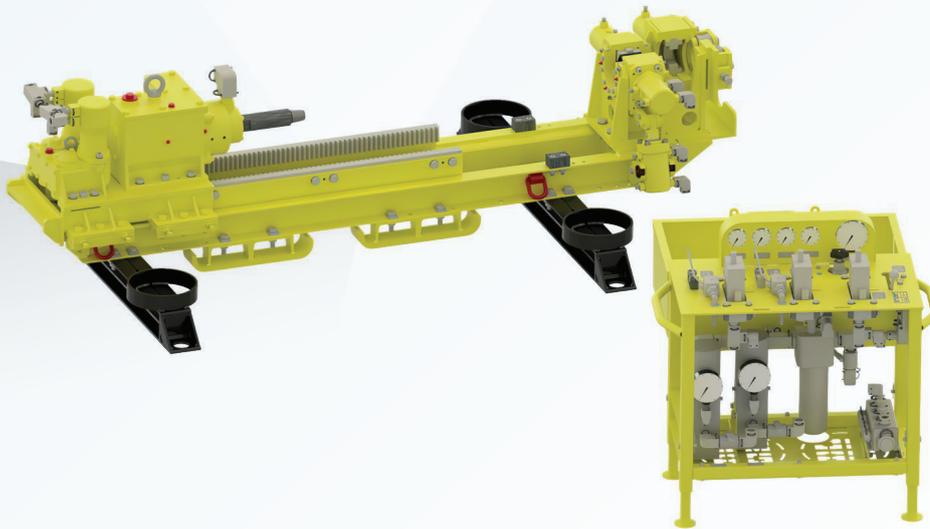




# Underground Hydraulic Drilling Rig WDHe-1



TYPE	Unit	WDHe-1
Marking	-	CE I M2
Power medium	-	Oil- water emulsion
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	-	SVJ33 or other types as ordered
Max supply pressure	MPa	32
Working pressure	MPa	25
Max. torque	Nm	315* or 510*
Rotation - rod drive	rev/min	0-830* or 0-520*
Holding down pressure	kN	0-24
Working advance speed	m/min	0 - 6,0
Weight	kg	475 (drilling rig) 203 (control panel)
Rig dimensions	mm	2580 x 1300 x 630
Control panel dimensions	mm	875 x 410 x 620

The **WDHe-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 oilwater emulsion from main line.

When the rig is used with angle drilling frames boreholes can be drilled at an angle of  $\pm 90^\circ$ . The rotation and advance movement drives of the rig are powered from hydraulic motors. 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 315 to 510 Nm by changing the gears in the rod drive. The whole operation of the drilling rig is controlled remotely from a control panel. The design and materials used to make the drilling rig allow it to be operated in nonmethane 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 WDHe-1 Drilling Rig is 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).

\* depending on the hydraulic motor and gears used

