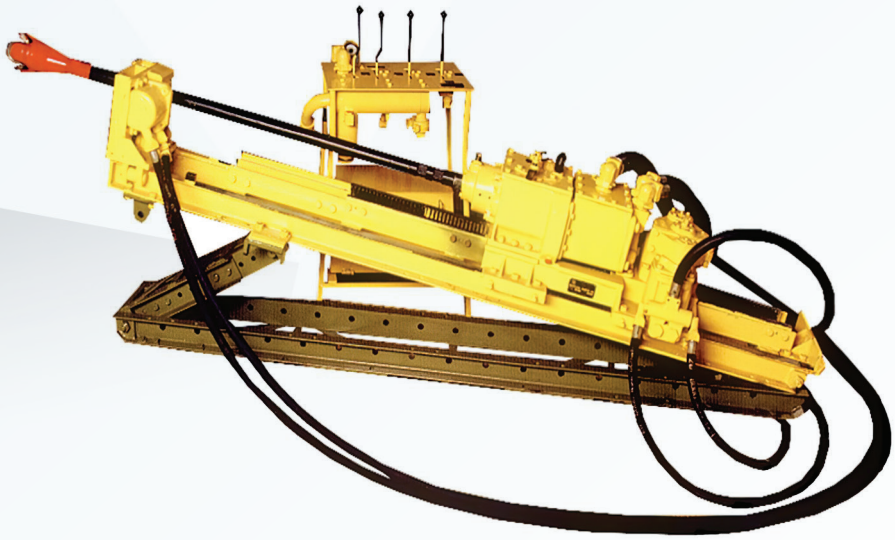
Air-powered Drainage Drilling Rig

WDP-1C



TYPE	Unit	WDP-1C
Marking	-	CE I M2
Drilling depth	m	120
Borehole diameters	mm	Ø76
Full section drilling diameters	mm	Ø 59 - 143
Advance speed	m/min	0 - 2,35
Holding down pressure	kN	0 - 50
Rotation - rod drive	rev/min	0 – 116 or 0 - 280
Torque - rod drive	Nm	635 or 263
Drilling angle	-	±90°
Diameter of rods used	mm	Ø 51
Maximum rod length	mm	1500
Type of rod thread	-	N42 or other types as ordered
Rod drive motor power	kW	7,7
Advance drive motor power	kW	1,87
Power supply medium	-	Compressed air
Compressed air demand	m^3/min	13
Supply pressure	MPa	0,4
Weight of drilling rig and control panel	kg	660+80
Rig dimensions	mm	2920 x 1300 x 665
Control panel dimensions	mm	910x460x1180

The **WDP-1C** Air-powered Drainage Drilling Rigs are designed for geological prospecting drilling and drilling water drainage, methane drainage, engineering and protection holes in rock of different hardness using the rotary method. The drilling rigs have pneumatic drives and can be powered from separate compressors or directly from a compressed air network. When the rigs are used with angle drilling frames boreholes can be drilled at an angle of ±90°. The whole operation of the drilling rig is controlled remotely from a control panel.

The design and materials used to make the drilling rigs allow them 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 Drilling Rigs are 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).

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