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# Underground Drilling Rig WD-02

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The WD-02 Underground Drilling Rig is designed for geological testing drilling and drilling blast, anchor, engineering and protection holes with diameters between 36 mm and 76 mm in soft and medium hard rock using the rotary method with water flushing. The rig is equipped with a through-spindle and clamping head, which allows the use of  $\phi$  32 or  $\phi$  42 mm pipe rods.

TYPE	Unit	WD-02EA (electric)	WD-02EA (pneumatic)	WD-02H
Marking	-	CE I M2 X		
Drilling depth ( $\phi$ 36 mm full section borehole)	m	up to 40		
Full section drilling diameters	mm	$\phi$ 36 - 76		
Motor power	kW	2,2	3	4,37
Max. torque	Nm	140	210	495
Spindle rotation	rev/min	149 – 567	130 – 520	84 – 330
Holding down pressure	kN	0 – 14,7		
Advance speed	m/min	0 – 3,61	0 – 3,18	0 - 2
Diameter of rods used	mm	$\phi$ 32 lub $\phi$ 42		
Working travel distance	mm	900 lub 600*		
Drilling angle		360°		
Type of drive	-	electric 500V/400V/660V	pneumatic	hydraulic
Medium	-	electric power	air	oil-water emulsion or hydraulic oil
Supply pressure	MPa	-	0,4	32/12 (oil-water emulsion) 10 (hydraulic oil)
Rig dimensions	mm	1500 (1200**) x 460 x 550		
Weight of drilling rig excluding support structure	kg	136 (131**)	155 (150**)	83 (78**)

\* On special order

\*\* For spindle length of 600mm

The standard version is mounted on a support structure which allows for drilling in all directions from one single mounting position. Customized versions can be also supplied with an extendable support structure and both standard and extra length articulated saddle-type support structures. The drilling rig can be also mounted onto pit props with diameters of  $\phi$ 100,  $\phi$ 118,  $\phi$ 149 and  $\phi$ 159 mm. The standard version of the drilling rig includes a support structure with a spindle feed of 900 mm.

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 WD-02 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).