



# Hydraulic Underground Roof Bolter KDH-3

The KDH-3 roof-bolting drill is designed for drilling anchor holes and for anchoring in rocks of varying hardness using a rotary method with the application of a water-based drilling fluid. The depth of the anchor depends on the tool diameter and the method of anchoring. When installing  $\varnothing 28$  mm steel rock bolts, the maximum drilling depth is 3 m.

The method of construction and the materials used with it make it possible to operate the roof bolter in non-methane and methane areas in workings classified as degree „a”, „b”, „c” of methane explosion hazard, as well as in classified in workings as class „A” or „B” for coal dust explosion hazards.

The KDH-3 roof bolter is classified as a group I, category M2 equipment according to the Regulation of the Minister of Development of June 6, 2016, concerning requirements of equipment and protective systems intended for use in potentially explosive atmospheres (Journal of Laws 2016, item 817). It also meets the requirements of the regulation of the Minister of Economy of October 21, 2008, concerning essential requirements for machinery (Journal of Law No.199 from 2008, item 1228).

TYPE	Unit	KDH-3
Marking	-	CE  I M2
Medium	-	Hydraulic oil
Drilling depth (Steel anchor)	m	to 3
	mm	$\varnothing 28,5$
Drilling depth (Strand anchor)	m	to 10
	mm	$\varnothing 28,5$
Drilling depth (Injection anchor)	m	to 8
	mm	$\varnothing 43$
Max torque	Nm	170
Max drill rotation speed	rev/min	500
Feed force	kN	12
Maximum bolting cycle time	[min/cycle]	10
Minimum working height	[m]	3
Spindal socket, hexagonal	mm	19 or 22
Guide length	mm	3000
Supply pressure	MPa	10-17
Hydraulic oil flow rate	dm <sup>3</sup> /min	40-60
Total weight	kg	80

