



RESIN BOLTS TYPE RM-20 , POK-22



APPLICATION

Resin bolt type RM-20 i POK-22 are used for roof and ribssupport in mine working areas as an independent or additional roof support system. They are also used to suspend various components of mining equipment.

TECHNICAL DESCRIPTION

RM-20 bolt is a steel reinforcing bar of nominal diameter $dn=20$ mm, while POK-22 bolts have nominal rod diameter of $dn=22$ mm according to PN-82/H93215. They are made of 34GS steel.

Bolt

Rod type - standard

Rod type - coupled

RM20	RM-20js RM-20ds RM-20js-k RM-20ds-k	RM-20js-dz RM-20ds-dz RM-20js-k-dz RM-20ds-k-dz
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Bolt	Rod type - standard	Rod type - coupled
POK- 22	POK-22js POK-22ds POK-22pr POK-22r	POK-22js-dz POK-22ds-dz POK-22pr-dz POK-22r-dz

"k" mark means that the nut is connected with the rod by means of "SPIROL" $\varnothing 3$ or $\varnothing 6$ pin.

"dz" means that the rod is made of two sections connected with M20 coupling sleeve of 55 mm in length.

Finished RM-20 rods have a rolled top of $\varnothing 16$ mm beveled to 12 mm.

POK-22 rods have a square 12 x 12 mm end. Such ends allow the rod to be turned in the hole.

The bolts can be used with a square washer, square washer with a side hole or round washer made of 6mm plate.

TECHNICAL DATA

Specifications	Value
Rod diameter	dn = 20mm dla RM-20 dn = 22 mm dla POK-22
Thread	M20
Thread lenght	150 mm
Overall rod length	from 400 to 4000 mm
Torque shearing the $\varnothing 3$ pin	80 ÷ 120 Nm
Torque shearing the $\varnothing 6$ "SPIROL" pin - (light)	40 ÷ 60 Nm
Torque shearing the $\varnothing 6$ "SPIROL" pin - (medium)	90 ÷ 120 Nm

Torque shearing the ø6 "SPIROL" pin - (heavy)	140 ÷ 160 Nm
Coupling sleeve:	
Sleeve diameter	ø 25 mm
Thread size	M20
Sleeve length	55 mm
Bolt capacity required by regulations 120 kN	120 kN
Effective bolt capacity 180 kN	180 kN

Installation procedure

Drill a hole of the depth equal to the rod length. Place the resin in the hole. Insert the rod and rotate while pushing causing the resin to mix. Leave until the mixture has cured.

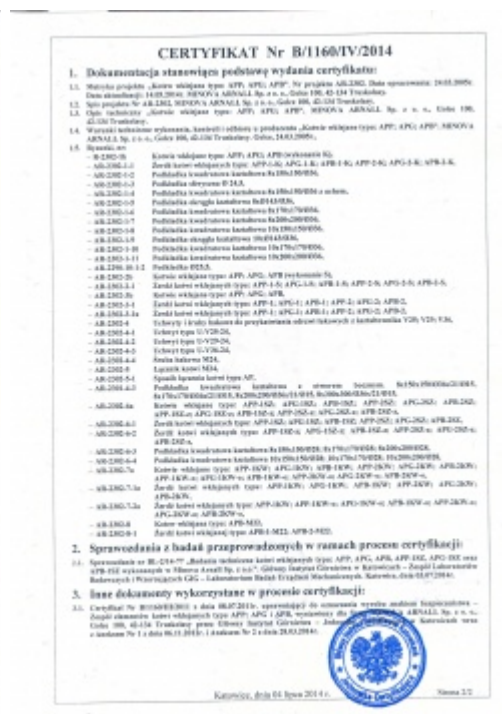
While inserting the „k” rod the nut does not turn as it is joined with the rod by means of a ø3 or ø6 pin. After the adhesive has set, the pin is sheared by turning the nut.

While applying the „k” rod, the rod should be inserted to the hole with the washer on.

In the case of a two-part anchor, the rod should be connected with the M20 coupling sleeve.

Turn the M20 nut applying torque strength of at least 250 Nm in order to obtain the initial tension of at least 30 kN.

RM-20, POK-22 adhesive anchors have a Certificate issued by Central Mining Institute in Katowice allowing the product to be marked with the safety mark No. B/1194/IV/2014



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