









Romania - Republic of Serbia IPA Cross-border Cooperation Programme

Presentation of the Martenzit firm, Bor

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http://www.martenzit.rs



alati i pribor za istražna geološka,hidrogeološka,eksploataciona i druga bušenja tools and equipments for geological prospecting, hydro geological, exploitation and other drilling

- -Started in 2003. with production of bits and accessories for geological exploration
- Expanded on national and international market
- -Cooperation with national institutions e.g. Mining and Metallurgy Institute Bor



alati i pribor za istražna geološka, hidrogeološka, eksploataciona i) druga bušenja tools and equipments for geological prospecting, hydro geological, exploitation and other drilling

Production of diamond bits by hot compacting is one of the main activities. The process is taking place in the sintering furnace (power 10kW, pressure 350 bar). Some of the technological characteristics are:

- -pressure (cold compacting) 42 bar
- -pressure (hot compacting) 45 bar
- -Izothermal time 15 min
- -The time under the final pressure 20-30 s



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Metal powders which are used in this kind of sintermetallurgy are:

- -W powder (44 μm)
- -WC powder (44 µm)
- -Fe powder (74 μm)
- -Co powder (2-3 μm)
- -CuZnNi (74 μm)
- -Diamond powder (25/35 mesh)
- -Diamond grains (40/50 spc)





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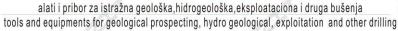
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Sintering technology is also used in bronze bushings production. These kind of bushings are made of CuSn15 and are used as spare parts for drilling hammers in underground conditions.



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KRUNE

MARTENZIT proizvodi sve tipove i standarde kruna za bušenje:

- Dijamantske krune:
- za bušenje sa jezgrom
- za bušenje bez jezgra
- -Krune sa ugrađenim tvrdin metalom(vidija):
- krune za bušenje sa jezgrom
- krune za bušenje bez jezgra
 za rotaciono bušenje
- za udarno bušenje



DIJAMANTSKI ALATI

DIJAMANTSKE KRUNE

Dva glavna tipa dijamantskih kruna su na raspolaganju:

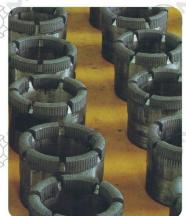
- krune sa površinski ugrađenim dijamantima (zrnaste)
- krune sa dijamantskom prašinom (impregnirane)



BITS

MARTENZIT produced different to qualities and standards drilling be

- Diamond bits:
- coring bits
- non coring bits
- -Tungsten carbide bits:
- coring bits
- non coring bits
- for rotation drilling
- for percussion drilling



DIAMOND TOOLS

DIAMOND BITS

Two main types of diamond bits are available:

- surface-set bits, usually used in soft to hard formation
- impregneted diamond bits, essential for difficult coring operations in very hard fractured rock















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Thank you for your attention!

