

THE CONSTRUCTIVE ANALYSIS OF THE BORER HEADS FOR THE ROTATIVE BORING

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Abstract: In Romania there is standardized (STAS 7476-71) only one detachable head type cocked with plates made up of metallic carbides meant for the rotative boring, CR (like a spigot), having the diameter between 35 and 43 mm. Due to the complexity of the geometrical shape of the body, of the small dimensions ($L < 100$ mm), of the technological complexity of its carrying out (moulding or special moulding procedures), similar to splinting tools, to the market request, due to the mining industry recession, all this lead to the impossibility of existing a Romanian producer who could produce such borer heads. In this paper, with the help of the 3D designing softs, there is made a constructive analysis of the borer head body from the technology carrying out point of view, aiming to simplify the geometrical shape of the body in order to reduce the manufacturing price, but without modifying its functional purpose and its resistance.

Key words: borer head, constructive analysis, rotative boring, geometrical shapes, metallic carbides.