



Influence of continuous casting conditions on grey cast iron structure

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Forced convection of liquid metal in the traditional mould or in the continuous casting mould has a significant influence on the crystallization process of castings. For many years, the device whose main purpose is to generate movement of the liquid metal were used. First, they were the typical mechanical or electromagnetic stirrers, used to unification the liquid metal in e.g. maintaining furnace or faster melting of alloying additives [1, 2]. Developments in the field of refractory materials and electrical engineering and, above all, recognize the positive effect of forced convection on the crystallization process of casting structure has brought a wider use of the magnetohydrodynamic (MHD) devices in the seventies of the last century. In Poland, these facilities are used only in the nineties, when the steel plants installed in the continuous casting lines, which contain inductive stirrers [3-5].

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