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3D measurement assisted bottleneck reduction in stainless steel production

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Increasing steel weight per heat is a recurrent theme at many steelmakers to increase the productivity of the plant. This is generally limited by the volume of the various aggregates, EAF, Transfer ladle, AOD and casting ladle. The steel shells are fixed and cannot be modified easily. There is only the potential to reduce the size and shapes of the used refractory material. To avoid a negative impact on the lifetime and safety, a 3D measurement of the wear after usage can help to optimize the zoning of the refractory concept. RHIMAGNESITA has developed a new measurement system to support steelplants with this challenge. The new system is small and flexible, therefore it can be quickly moved and used in all areas. The paper describes several applications in different aggregates with focus on the volume enhancement of the AOD.

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