



PRODUCT INFORMATION #3
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INDIRECTLY HEATED ROTARY KILNS FOR THE PRODUCTION OF INORGANIC COLOR PIGMENTS

- Solutions for a trouble-free operation and a long service life -

The production of inorganic color pigments is usually carried out by solid state reaction of a mixture of fine grained oxidic compounds at temperatures ranging from 800° C (1472° F) to 1200° C (2192° F). To ensure a high quality, the mixed bulk material must be continuously moved during processing and mixed and treated at temperatures that need to be as uniform as possible.

For this purpose, industrial production of color pigments is preferably carried out in indirectly heated rotary kilns. Given the high temperature as well as mechanical loads associated with the process, the material of construction of the rotating tube of the kiln needs to display functional properties that enable reliable operation at extreme operational conditions. In particular, the combination of high temperature corrosion and creep can lead to irreversible damage of the tube and necessitate repairs and in the worst case into premature retirement of the component and thereby lead to loss of production.

Rotary kilns made of centrifugally cast Centralloy® metal tubes from Schmidt + Clemens (S+C) have proven themselves as reliable selection for this application. At S+C, rotary kiln's tube material selection is customized and enables adaptation to individual process requirements. The superior creep strength of cast materials combined with a possibility to manufacture a wide range of alloys enables tailor made selections for selection based on optimum creep and corrosion resistance. This enables a trouble-free operation and a long service life of rotary kilns which is clearly superior to the service life of those made of sheet metal.



Centrifugally cast rotary kiln for inorganic color pigment production

As a Senior Sales Person in the Schmidt + Clemens Group, Axel is keen to support customers in the best possible way. This includes finding the optimum combination of manufacturing process, material usage and design to create added values that will provide the users of our products with the benefits they need. In this context, Axel is looking for new business contacts in the industrial furnace business for indirectly fired rotary kilns, pusher type reduction furnaces, radiant tubes, furnace rollers etc. He shall look forward to get contacted in order to exchange experiences.

In case of any question, please do not hesitate to contact Axel Korb, Sales Manager – Special Products, e-mail: a.korb@schmidt-clemens.de, phone: +49 2266 92-417.

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