



## Walking Beam Furnace lined with 350 kg tailor-made pre-cast elements from HASLE

A Scandinavian steel mill has installed a HASLE pre-cast, pre-fired solution in their walking beam furnace to achieve the best possible resistance to thermal shock and abrasion and minimize the down time of the re-heating process.

The pre-cast elements weigh 350kg each and are among the biggest elements manufactured by HASLE. HASLE engineers calculated the optimal 3D-designs in close cooperation with the client. Tailor-made molds were manufactured to achieve the best possible casting, which took place in our Danish, temperature-controlled plant. Due to the size of the

elements, HASLE also made special vibration tables, which could be levelled before each casting to ensure accurate filling of the molds. After casting, the elements rested for 24 hours, before being dried out in specially designed ovens. Throughout the process, the pre-cast elements were lifted by crane.

HASLE Refractories design and produce custom-made, pre-cast elements, ranging in weight from <1 to 1000kg. Our pre-cast elements have unique strength (CCS up to 150MPa), excellent abrasion index (as low as 3,2cm<sup>3</sup> ASTM704) and good shock- and alkali resistance.



Moving the precast elements by crane



Walking beam furnace under construction



Elements installed in walking beam furnace