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KSB's New IE4 Motor



The new KSB SuPremE motor

KSB Aktiengesellschaft, Germany, started the series production of its high-efficiency SuPremE electric motor series at the company's factory in Halle on the river Saale, Germany in March. In contrast to conventional synchronous motors, the German pump

manufacturer's motor does not contain any magnetic materials, such as rare earths, which are regarded critical raw materials and which cannot be mined without considerable environmental impact in the countries of origin.

Since the new drives no longer need failure-prone rotor position sensors, they are as robust and reliable as speed-controlled asynchronous motors. Because of the low temperatures within the rotor, the life of the new motors' bearings is even longer. The motor, which was first presented as a prototype at the Hanover trade fair in 2009, is equipped with a four-pole rotor that only consists of a laminated core without a cage. The rotor laminations are specially shaped to guide the lines of flux. ■

New Activity for Drillmec



Drillmec Drilling Superintendent on Site

Drillmec, world-wide manufacturer of drilling equipment, has recently enhanced its activity related to the drilling rigs for water wells. The dedicated team, located near Parma, is focused not only

on the procurement and manufacturing activities, but also on the research and development of new products. The closest innovative product will be a new multipurpose 33 tons drilling rig, to be used for core drilling, direct, reverse circulation drilling, with air, mud and aerated mud. The mast will be able to operate in both, vertical and inclined (45°) position. The electrical system and the hydraulic one will be completely reviewed, using up-to-date products and components, in order to assure work reliability. Beside the European version, designed to face the CE restrictions, it will be also engineered a special version for heavy use in arid, sub arid and desert conditions. ■



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