



New generation of medium frequency induction heaters – Smart mounting and dismounting of bearings and other machine parts

Vaassen, July 2017. Bega Special Tools introduced a new generation of induction heaters at this year's Hannover Messe. The Betex MF Quick-Heater 3.0 is a medium frequency induction heater for mounting and dismounting bearings and other machine parts made from steel, stainless steel or titanium. These new heaters enable users to perform safe, fast and clean operations. Equipped with smart processor technology, the new heating system allows a far better control of the heating process and data storage for future reference.

Utilised for the installation and dismantling of bearings and other metal machine parts such as labyrinth seals, bearing rings, bearing inner rings, sleeves, bushes, couplings and gears, medium frequency induction heating offers a cost effective heating method. The optional flexible inductors can be wrapped around any size or shape, not limiting their use to components with a cylindrical shape. Thanks to the Betex MF Quick-Heater's compact and mobile design, it can easily be moved around in the workshop or factory saving time. It can be deployed very rapidly, heating faster than conventional methods. Thanks to its more efficient electricity consumption, energy use is much lower. It has a low connection power of 32 A or 63 A. The generators are adjustable from 2.5 kW to 22 kW or 44 kW. The clean system operates very quietly, without any residual magnetism, fire hazard, excessive noise or polluting fumes. Improving the quality of installation or maintenance, the MF Quick-Heater 3.0 is suitable for production as well as maintenance applications in MRO and OEM companies.

The new generation medium frequency Betex MF Quick-Heater 3.0 features smart processor technology. Of compact design, it has a large touch screen, a USB port for software upgrade, and a log-in option for remote servicing. The unit heats according to a preset temperature/time curve and displays the temperature development in a chart, whereas the heating cycle can be saved on a PC or a USB flash drive. Smart electronics ensure the optimal operating frequency and provide the user with tips on optimal heating, for example by suggesting the deployment of more or fewer windings. These heaters come with adjustable power control as well as dual



temperature sensing (monitoring ΔT). Moreover, they have the option enabling the user to operate several heaters in combination.

“The new heating system allows a far better control of the heating process”, explains Henk van Essen, Bega’s Managing Director. “Bearing manufacturers are producing expensive bearings while recommending to their customers the correct mounting and dismounting procedures. Especially in certain industry sectors such as railways and wind power, there are strict safety regulations that have to be observed. For quality and safety reasons, users are required to consistently log all maintenance activities performed on components. Thanks to the applied smart technology of the new Betex MF Quick-Heater 3.0, heating and mounting data and protocols can be saved for future reference. Given this feature, users may now say: The bearing’s installation was performed according to the specifications and we are able to prove it.”

Picture:

The new generation of compact middle frequency Betex MF Quick-Heaters 3.0, deployed for mounting and dismounting of metal components in all types of industrial sectors.





Company information:

Founded in 1978 and headquartered in Vaassen, The Netherlands, Bega Special Tools manufactures and distributes speciality tools for safe, cost-effective mounting and dismounting of bearings and transmission parts. These tools substantially improve the quality and ease of maintenance and installation of rotating parts in machines, resulting in longer lifespans. Exported to over 60 countries worldwide, Bega products are utilized by MROs and in OEM production and maintenance departments in various industry sectors, such as mechanical engineering, paper mills, wind energy as well as the rail, mining and steel industries.

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