

CMD Power Their Way to Success with Telsonic Ultrasonics

Rotherham based CMD is a British designer and manufacturer of power distribution, power modules, lighting control and energy management solutions. The company recently started production of the Rotasoc® range, which includes a comprehensive selection of multi-socket power and data modules with 360° rotating socket outlets.

The final assembly of this range of products requires a series of precision welding operations on both the ancillary module sub-assemblies and finished power-socket modules. CMD researched the marketplace and potential suppliers before selecting Telsonic UK Limited as the technology partner for their projects.

The Rotasoc® is a comprehensive range and a production solution was required to cater for infeed modules, data modules, current protection modules, interconnection modules and a range of multi-gang socket modules. The materials joined using the ultrasonic process were a combination of polycarbonate and flame retardant ABS.

The solution delivered by Telsonic was based upon three USP3000P 3Kw 20kHz welding presses. The presses use MPS4 controllers to provide multi-weld stored data and Telsoreult software is used for data logging and statistical checks. Each system is fully guarded, with two utilising sliding tables and the third incorporating a rotary table, to allow safe and easy loading and unloading. A suite of three Sonotrodes combined with ten quick-change nests enable the systems to cover the full desk power module product range. Innovation in the tooling configuration and loading methods on the production systems enabled the required cycle and changeover times to be met.



(Telsonic Ultrasonic Systems – Welding both Socket Sub-Assemblies and Modules for CMD)

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As with any build up to a product launch, it was essential that the machine design, build and delivery phases, remained on schedule to allow sufficient product stock to be manufactured ahead of the planned launch date. The combination of using standard, field proven ultrasonic welding presses together with Telsonics' ability to design and manufacture the sonotrodes, component nests and guarding, ensured that the project remained on track.

The decision by CMD to use Telsonic UK for this project was based upon a number of factors including: a proven track record of providing solutions for similar applications, customer references and a partnership approach.

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Notes to the Editor

Telsonic UK, established 1977 and a wholly owned subsidiary of Telsonic Switzerland, manufactures and supports ultrasonic joining, sealing, cleaning and cutting processes. The UK operation has grown to become recognised as a leading supplier of ultrasonic modules and systems for use within a diverse range of industries.