erations, the knife is fastened in such a manner so that it cannot come loose, even if the sample material is very hard or the startup speed is high. The grinding vessel, lid and knife of the Pulverisette 11 can be cleaned easily and are autoclavable for sterile comminution. Hall 4.1, Stand J49 — *Fritsch GmbH, Idar-Oberstein, Germany*
www.fritsch-international.com

This serialization unit has an anti-slip timing device

The new Track-Pack single-block serialization and accumulation unit (photo) is made up of this company's BL A415 labeller and PS 30 case packer. The unit can be equipped with tamper-evident heads to apply self-adhesive tamperproof seals on the closure corners of the cartons. The compact machine also features a patented timing device that sets the cartons apart and positions them correctly on the adjustable toothed belt, which prevents them from slipping. Hall 3.1, Stand G3 — *Marchesini Group, Pianoro, Italy*
www.marchesini.com

Digitalized management of welding processes

The Orbimat 180 SW (photo) is a new welding power-supply solution utilizing Industry 4.0 capabilities to enable unbroken capture and backup of data on a user's local network. Engineers and quality assurance employees with different user levels have access to projects and data at all times, making it possible to keep track of the entire welding process. All welding data and programs for each individual welding process can be accessed, documented, analyzed and optimized for future welding processes. This way, production sequences can be planned better and are also safer and less time-consuming. The Orbimat 180 SW is operated using a 12.4-in. color touchscreen display, or alternatively with a multifunctional control dial. The multilingual menu interface with graphic support makes operation and parameterization of the welding power supply simple and intuitive. Hall 9.2, Stand D10 — *Orbitalum Tools GmbH, Singen, Germany*
www.orbitalum.com

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