



Manz supplies turnkey solutions for the automotive industry

- **From the laboratory to the fully integrated production line**
- **Numerous other innovations and further developments announced for 2021**

Reutlingen, 16. March 2021 - Manz AG, a global high-tech engineering company with a comprehensive technology portfolio, is known for its innovative production solutions in the fields of solar, electronics and lithium-ion battery technology. Numerous customer projects for fully integrated production lines in various industries are proof of Manz's extensive technological expertise and confirm the company's leading position for turnkey solutions in the Energy Storage segment. With this expertise, the company – together with strong partners - is ready to help meeting the challenges of its customers from the automotive industry, who are about to make far-reaching investment decisions for the establishment of new production capacities for Li-ion battery cells in Europe.

The company is continuously expanding its own portfolio and thus stands for innovation, market and customer orientation. Synergies and a consistently practiced transfer of know-how between the segments at Manz form the basis of the company's success. This allows Manz AG to position itself far beyond the offerings of a classic machinery and equipment manufacturer. For this year, Manz has announced numerous innovations in the Energy Storage segment; one of these will be presented in the second quarter of 2021 and will be used for laser welding of battery cell arresters in lithium-ion battery production.

In the Energy Storage segment in particular, Manz is currently experiencing rapidly growing demand for production equipment for powerful and efficient battery systems. With electromobility as a driver and increasing cost pressure in production at the same time, the company's solution expertise is in high demand across all industries. Thus Manz provides the complete process for the manufacture of lithium-ion battery cells and modules worldwide as a provider of turnkey production lines. The Manz portfolio encompasses the entire spectrum of manufacturing solutions from single machines, for example for laboratory production, to



systems for pilot, small and large series production, to turnkey solutions - all from a single source.

For customers, the holistic view results in significant competitive advantages in terms of the effectiveness, performance and safety of their battery cells and modules. The ultimate goal is quality, stability and cost efficiency by reducing friction losses while maintaining a high integration factor. The company offers production solutions for customers in the automotive, stationary energy storage and consumer electronics industries.

Innovative technologies as a guarantee for value creation

With over 30 years of experience, Manz is an innovation driver in the manufacture of lithium-ion battery cells and modules as well as capacitors, and offers proven technology at competitive prices under the claim "passion for efficiency". Its extensive process experience enables it to develop processes from idea to series production in the shortest possible time, with close integration of technologies for each process step such as coating, laminating, laser welding, forming, stacking or winding. More than 500 engineers, a large number of patents, and numerous cooperations with renowned research institutions stand for Manz's innovative strength, based on European standards.

"We support our customers from the initial feasibility study through prototypes of machines that produce smaller quantities in a semi-automated manner under real production conditions to the individual machine or complete production line - and are thus a trustworthy development partner for future markets. In addition, we map the entire value chain with fully integrated turnkey production solutions, including our own new software platform for monitoring production equipment, the smartPRODUCTIONKIT," emphasizes Andreas Schaal, Sales Manager Energy Storage at high-tech equipment manufacturer Manz.

Maximum flexibility in production planning

As a system supplier in the manufacture of lithium-ion battery cells and modules, Manz offers flexible, scalable, and modular machine and system concepts with a high integration factor. The production lines are thus freely configurable and can be used both as pilot lines and in



automated mass production. Manz is the only European equipment manufacturer to cover all essential production technologies for all lithium-ion cell concepts - from wound button cells to stacked pouch cells. For customers, this means maximum flexibility and cost efficiency, combined with high investment security - also and especially in mass production.

International presence for short development and delivery times

The company helps key technologies achieve breakthroughs through its innovative strength. The global sales and service network as well as R&D and production locations in Europe and Asia ensure proximity to customers and enable short development and delivery times. Supplemented by its own subsidiaries in all relevant markets as well as strategic partnerships in important markets such as China, Manz is also active internationally in the Energy Storage segment as a turnkey supplier with its range of products and services.



Company profile:

Manz AG - passion for efficiency

Founded in 1987, Manz AG is a globally active high-tech engineering company. Its business activities comprise the Solar, Electronics, Energy Storage, Contract Manufacturing and Service segments.

With many years of expertise in automation, laser processing, image processing and metrology, wet chemistry and roll-to-roll processes, the company offers innovative production solutions in the fields of photovoltaics, electronics and lithium-ion battery technology. The product portfolio includes both customer-specific developments and standardized individual machines and modules that can be interlinked to form complete, individual systems. Above all, by involving Manz AG in customer projects at an early stage, the company makes a significant contribution to its customers' success with high-quality, demand-oriented solutions.

The group of companies, which has been listed in Germany since 2006, develops and produces in Germany, Slovakia, Hungary, Italy, China and Taiwan. There are also sales and service subsidiaries in the USA and India. Manz AG currently employs around 1,400 people worldwide, around half of whom work in Asia, the key region for the company's target industries. The Manz Group's revenues amounted to around 237 million euros in the 2020 fiscal year.

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