

## 9 - 2 Kejin Taiji New Technology Co., LTD. Annual Report

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Kejintaiji New Technology Co., Ltd. is a wholly-owned subsidiary of Institute of Modern Physics, Chinese Academy of Sciences. The company has a mature technological process and strong production capacity, mainly engaged in non-standard processing, high precision machining, strong ion beam application devices and mass spectrum products, electric vacuum related business, RF cavity and its ancillary equipment development, surface treatment and other businesses.

The company attaches great importance to the construction of quality management system and radiation safety prevention and control management in the production process. After nearly one year, the construction of the system has been completed, and the company has obtained the "Quality Management System Certification" and "Radiation Safety License" respectively in September and November 2022, which realize the full monitoring of the production process and help the company develop in high quality.

The company always insists on relying on technological progress to promote the rapid development of the enterprise. According to the needs of the development of the company, in 2022, four related invention patents have been transferred and transformed. The R&D projects of 2022: BPM electronics prototype, integrated stripe ionization chamber and terminal uniformity detector have all completed the first version of the prototype, and are undergoing debugging and subsequent improvement. The implementation of this project solves the key technical problems of the medical heavy ion accelerator detector, develops the prototype and realizes the product, and provides high quality product guarantee for the medical heavy ion accelerator. The company not only undertakes the contract of the Institute of modern physics, but also actively expands the customers outside the institute, and has signed sales contracts with a number of research institutes, universities and other units.

The company completed the research and development of isotope target instrument device platform; In the high voltage products, the company has successfully developed 100 kV high voltage platform, 300 kV high voltage platform and acceleration tube; The company has formed a complete set of ion source processing process, and the quality pass rate is higher than 98%. In August 2022, the company, together with the ion source Room of the Accelerator Technology Center and the Linear Technology Center, jointly developed the strong current ion source device-the core component of the superconducting linear accelerator of the National Science Facility CiADS, which laid the foundation for the smooth acceptance of the National Science Facility CiADS project.

The company always keeps in mind the development purpose of "scientific and technological innovation, craftsman's heart, customer service, creating the future", gathers strength and works hard, so that all the businesses of the company are promoted comprehensively.