

Brief Introduction of NUCTECH CO. LTD

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NUCTECH is a worldwide leading company specialized in research & development of x-ray inspection technology, as well as system design, manufacture, engineering and customer service. With the radiation imaging technology as its core competence, NUCTECH founded in July 1997, is a prestigious high-tech company originated from Tsinghua University. NUCTECH has developed and produced the THSCANTM Container/Vehicle Inspection Systems with linear accelerators, the Air Cargo/Vehicle Security Inspection Systems, the Mail Sterilization Systems and other Non-Intrusive Inspection Systems, which have reached the state-of-the-art level. THSCANTM Inspection Systems are being used in a comprehensive range of fields, including the Customs, aviation security inspection, industrial manufacture, medical devices, environmental protection and food processing etc.

As a leading manufacturer and supplier of X-ray security inspection systems, NUCTECH has all the intellectual property and patents of the core technologies in radical applications. NUCTECH is capable of customizing systems on clients' demands and providing entire solutions.

By using a linear accelerator as the radiation source of THSCANTM products, the company has developed a wide variety of serialized and miniaturized linear accelerators, which contributes core technologies and development opportunities to the diversity of the products. Traveling wave electronic linear accelerator has the features of mature technology, strong energy, steady ray and long lifecycle. The technologies of standing wave electronic linear accelerators have been miniaturized, with the advantages of high adaptability and stability as well as long lifecycle.

In the meantime, NUCTECH also masters all the designing and producing technologies of gas and solid detectors. The unique pencil-shaped array gas detectors have the features of high sensitivity, low noise, high radiation endurance and excellent consistency. The company developed the advanced array solid detector, which is characterized by its mature technology, steady performance, high detecting efficiency and sensitivity, strong anti-dispersion capability and small in size. The modularized design of detectors is independent and reliable; it enables the installation, testing, maintenance and replacement to be more efficient.

Island isolation technology helps to improve the system's signal to noise ratio in getting better solution. Unparalleled anti-interference technology increased the adaptability of the system and it is easy to be manufactured and maintained. Harmful effects can be avoided by taking integrated

safety protection measures. Transparent Bus technology speeds up data acquisition. Synchronous image data acquisition contributes to the accelerator lifecycle prolonging and reduction of the radiation dosage. Database based information management facilitates the review, management and treatment of the data detected for the customers. IPT industrial CT system series provides industrial products NDT inspection with an efficient solution. It includes film radiography, digital radiography (DR) and computed tomography (CT) etc. CT inspection technology is to reconstruct the distribution of attenuation coefficient on the cross section of the work piece by measuring the projection intensity of the X-ray, which is detected from different azimuth angle. It has the features of no imaging overlap, high detective sensitivity, and strong flaw resolving capability. The system can also measure object's dimension and physical density, and provides the mechanical reverse engineering capability.

NUCTECH also possesses its own engineering service teams and training systems, which can provide systemic training and integral after-sale service for the customers.

For the past a few years, The products of NUCTECH have been assessed as “China Key Torch Plan Project”, “Beijing Important New Hi-Tech Product Industrialization Project” and rewarded “Beijing Scientific Progress Prize” and “Invention Fair Award”. At the same time, NUCTECH has also acquired 73 national patents and 6 international patents.

NUCTECH devotes itself to the security area and provides high-tech security products on social demands. NUCTECH's strategic mission is to serve the security of homeland, society, economy, environment, life and products.

NUCTECH has become an internationalized company aiming at the global market. Up to now, THSCAN™ systems have been introduced and sold 15 countries and regions in Europe, America, Oceania, Asia and Africa. In the field of high-energy (LINAC) X-ray inspection systems, NUCTECH has the biggest market share in the World. As a result of its valuable contribution in the security inspection application, NUCTECH has been rewarded high reputation both domestically and internationally.

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