# SCIENTIFIC AND TECHNOLOGICAL INNOVATION

tion, trade, media and international engineering.

Genertec has stepped up efforts and increased input in R&D and technological innovation in key fields including high-end CNC machine tools, new fiber materials, pharmaceuticals, medical services and health-care, realizing integrated development of sci-tech R&D and industrial development. Meanwhile, it has accelerated the building of a sci-tech innovation system encompassing the Group's entire business scope,

including machine tools, new materials, pharmaceuticals, comprehensive healthcare services, construc-

In the field of machine tools, Genertec has established a unified tiered R&D system for machine tools, and set up the Genertec Machine Tool Research Institute and its branches. It has a good number of R&D and service platforms in the industry, such as national engineering technology research centers, national enterprise technology centers and technological innovation strategic alliance of the CNC machine tool industry. In the field of new materials, Genertec has built a new R&D system relying on three major national-level innovation platforms and leveraging its strength in advantageous fields including bio-based fiber materials, synthetic fiber materials and fiber-based composite materials. It has many R&D and service platforms in the industry, including national-level key laboratories, engineering technology research centers and technological innovation strategic alliance of the chemical fiber industry. In the field of medical and healthcare services, Genertec lays great emphasis on tapping into its strengths for scientific breakthroughs in key disciplines. It operates multiple key national clinical specialty projects in respiratory medicine, orthopedics, etc., and owns a key laboratory for aerospace medical research and commercialization.

At present, the group has more than 30 scientific research platforms at or above the provincial and ministerial levels, including eight national-level R&D platforms.

# National engineering research center National engineering technology research centers National engineering technology research centers National engineering technology research centers National engineering technology research center for fiber-based ultra-precision machining National engineering technology research center of ultra-precision machine tools National engineering technology research center of synthetic fibers Of synthetic fibers Of synthetic fibers Of synthetic fibers Of synthetic fibers

# **MISSION**

Creating a Better Life with Good Technology and Quality Service

# **VISION**

To Become a World-class Enterprise with Global Competitiveness

# **VALUES**

Integrity
Solid Execution

Inclusiveness Excellence Innovation Win-Win



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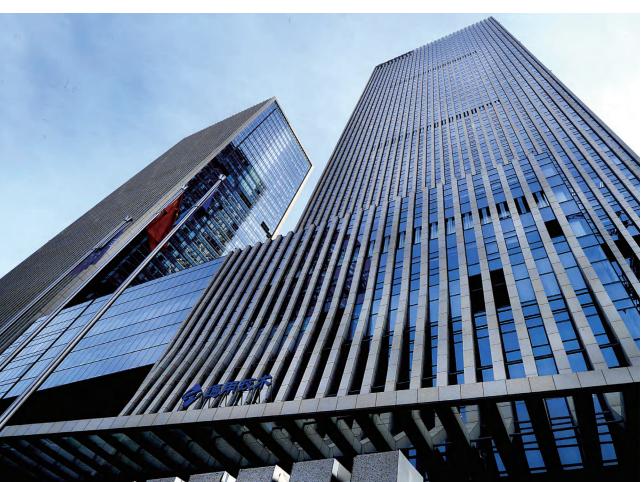
Established in 1998, China General Technology (Group) Holding Co Ltd, commonly known as Genertec, is a centrally administered State-owned enterprise, which is directed by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC). It was approved by the government as a pilot enterprise of State-owned capital investment in December 2018.

Over the years, Genertec has been focusing on three pillar businesses - advanced manufacturing and technical services, medical and healthcare, trade and engineering services as it mobilizes a strong push for innovation-driven high-quality business development under the optimal organizational structure. Genertec had won the A-level in the performance evaluation of central SOEs for 13 consecutive years, and made the Fortune Global 500 list seven times since 2014.









# ADVANCED MANUFACTURING AND TECHNICAL SERVICES



In the field of advanced manufacturing and technical services, Genertec has taken an active role in serving the national strategy for upgrading the country's manufacturing sector and positioned the development of high-end CNC machine tools as its core business. Since the founding of the People's Republic of China, the group has produced dozens of national firsts in the field of machine tools, and about 20 workers have been honored as role model of the nation, a testament to the group's dedication and commitment as exemplified by Ma Hengchang Team.

At present, Genertec owns one machine tool engineering research institute and seven machine tool production and manufacturing companies, and has established a machine tool equipment corporation in collaboration with the Tianjing municipal government. It has also led the establishment of a strategic alliance for technological innovation in the numerically-controlled machine tool industry, and built an innovation and R&D center for equipment digitalization. The group has grown into an industrial leader that boasts the broadest product line, the widest service areas, and the strongest technical capabilities. It is also the biggest provider of high-end core equipment for key industries and areas. It has been vigorously promoting the industrialization of new solvent-based cellulose fiber, making China the second country in the world to master the technology in the industrialization of green cellulose fiber. The group has made major technological breakthroughs in its flame-retardant Lyocell fiber project, with a 10,000-ton production line being successfully launched at one go.



GMC200u/t 5-Axis Machining Center



Gantry Type Filament and Tape Lay-Up Machine for Carbon Fiber Composite Material with Ground Railways, Model GATL40/L120



AF35P high precision full closed-loop control EDM



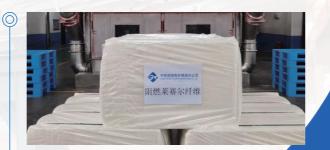
Self-developed 10,000-ton Intelligent Electrode Extrusion



RAE series absolute angular time-grating displacement



Genertec has promoted the industrialization of lyocell fibers, making China the second country in the world to master the technology in the industrialization of green cellulose fiber.



The 10,000-ton production line of Generted flame-retardant Lyocell fiber project wa successfully launched at one go.

# **EALTHCARE INDUSTRY**



In the field of medical and healthcare services, Genertec actively supports China's Healthy China Initiative and the national strategy to address population aging. It is accelerating the creation of a comprehensive health care service ecosystem that integrates health-focused goals, medical services, and a full-spectrum, all-encompassing service model, in a bid to offer people with a complete range of products and services covering disease prevention, treatment, rehabilitation, and elderly

Genertec operates 92 commercial pharmaceutical branches in 30 provinces and municipalities across China, ranking second on the 2022 list of China's top 100 most influential pharmaceutical companies. It also runs over 400 medical institutions in 27 provinces and municipalities in China, with 52,000 beds and more than 35 million annual outpatient and emergency visits. It has established over 800 Genertec Clinics, serving more than 10 million people nationwide.

As a centrally-administered medical conglomerate with leading bed capacity, extensive network coverage, and a strong industrial presence, Genertec plays a vital role in ensuring the healthcare security of important industries and key fields, epidemic prevention and control, disaster relief, and the emergency supply of medical products. Genertec collectively supports 125 medical institutions offering health check-ups and health management services, covering 25 provinces. Genertec runs 150 health care and elderly care institutions of various types in nearly 30 provinces and municipalities across China, with 18,000 elderly care beds. It actively engages in the reform of training and recuperation institutions for Party and government organs and state-owned enterprises and public institutions, transforming to provide inclusive elderly care services. To date, it has taken on the management of 61 training and recuperation institutions nationwide, with nearly 10,000 elderly care beds in reserve.

92 medical branche 400+ 52,000+

25

100 at the provincial level and above 35 million+ department visits per year

125

and health management services

800+

services accessible to 10 million

61 training and recuperation institutions taken over

150 elderly care institutions and integrated medical and elderly care projects 18000



Medical workers of Pangang Group General Hospital under Genertec, carry out an air medical rescue operation to win precious time for people in mountainous areas.



Qingdao Haiqing elderly care company of Genertec provides comprehensive facilities for elderly care services covering health preservation, nutritious diet, daily care, social and recreational activities, rehabilitation treatment, and decoction pieces and TCM drugs.



Genertec Clinic, Genertec's innovative model featuring

standardized, normalized and chain operations, serves as

"hospital at people's doorsteps and workplaces".

# INGINEERING SERVICES



n the field of trade and engineering services, Genertec is the main channel and a major force for the imports of advanced technology and key equipment in China. Its introduction of 156 advanced technologies and full equipment in the early years of the People's Republic of China laid a solid foundation for the country to develop manufacturing business. Over the past 70 years, it has imported and introduced more than \$340 billion of state-of-the-art technologies and complete sets of equipment for various industries, making a significant contribution to the nation's progress toward industrialization and the localization of major technical equipment.

Genertec's vigorous participation in the tangible growth of the Belt and Road Initiative and international production capacity cooperation has also driven and promoted Chinese products, technologies, standards and brands to many parts of the world. It was ranked 103th on ENR's list of the Top 250 International Contractors 2024. The group has won a total of 88 national-level awards in the construction industry, including the China Construction Engineering Luban Prize and the National Quality Engineering Awards, in recognition of its rich history and track record of performance in participation of significantly important construction projects across China.

The group is the largest distributor of mobile communication terminal products in China. It has built a comprehensive supply chain system that integrates functions such as telecom engineering construction, mobile virtual network operations, mobile terminal distribution and logistics, international exhibitions and advertising, as well as international trade and bidding.

## IVOVIK 84 MW Wind Power Project. Bosnia and Herzegovina

The Ivovik 84 MW Wind Power Project. invested and constructed by Genertec, is located in Livno, Hercegbosanska of BiH. The project was listed in the deliverables of the China-Central and Eastern European Countries (CEEC) Summit held in 2021. It is also the first new energy project in the deliverables to be implemented. Upon completion, the project is expected to become the largest renewable energy power generation project in BiH. It will effectively promote the transformation and upgrading of the BiH's energy structure, assist the country in the implementation of carbon reduction plans and achieve sustainable economic development.

### Luxshare-ICT Rooftop Solar Power System Project

Luxshare-ICT Rooftop Solar Power System Project invested and constructed by Genertec is located in the Van Trung Industrial Park, Bac Giang, Vietnam. It will generate approximately 21 million kWh of clean electricity and reduce nearly 20,000 tons of carbon dioxide emissions annually, helping Vietnam achieve its "zero-carbon'

### Beijing 2022 Winter Olympics comprehensive transportation service center in Yanqing

lispatching and other services.

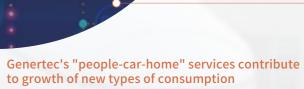
The Beijing 2022 Winter Olympics comprehensive transportation service center built by Genertec in Yanqing district, Beijing, is the largest and best equipped demonstration transportation service center among a total of 16 transportation centers in the three major competition zones of the Games. The service center has well met the needs of special bus lines, shuttle buses, and other vehicles, providing the grand sporting event for parking, cleaning, repair and maintenance.



The first railroad of Southern Sri Lanka in the recent 100 years was built by Generte The 1.8-billion-yuan project has took 6 years to accomplish and has created Sri Lanka's longest and second longest railway bridges, the highest railway bridge, the longest railway tunnel, and the most modern railway station.

### Introduction of high-speed train technologies

Genertec has made the purchase of 200-300 km/h high-speed train technologies and 350 km/h high-speed trains equipment, which has significantly improved the R&D capability in bullet train equipment for Chinese manufacturers and made a huge contribution to the technological progress and industrial upgrading in the major equipment manufacturing sector of China.



Genertec has established a comprehensive "people-car-home" business layout with a close-knit network of channels covering nearly 1,000 key prefectures and counties in 31 provinces. The group has ramped up efforts to enhance its ability to obtain high-quality resources for mobile phone distribution, got the drop on its competitors in the field of intelligent connected vehicles, and focused on strategic emerging industries and industries of the future in the development of its smart space business to speed up improvement in its capability of leveraging data-driven and intelligent applications to empower users in specific scenarios.