



Yamazaki Mazak Singapore has partnered Cleantech Solar to operate a 16,000 sq m system of 6,000 solar panels on the rooftop of its facilities to power up to 35 per cent of the new manufacturing plant's power needs.

Mazak opens new additive manufacturing plant in S'pore

Facility is equipped with new technology for high-precision manufacturing

By **Chai Hung Yin**
 chaihyn@sph.com.sg
 @ChaiHungYinBT

Singapore

PRECISION engineering company Yamazaki Mazak Singapore ventures into advanced manufacturing with the opening of a new additive manufacturing solution centre here on Tuesday for its 25th anniversary.

The company also officiated the expansion of its tooling and machine tool production facility, and launched its green energy initiative. The event was attended by Senior Minister of State for Trade And Industry and National Development Koh Poh Koon.

The expanded facility will incorporate its smart factory concept, Mazak iSMART Factory, which will be implemented in phases. Both initiatives are supported by the Singapore Economic Development Board (EDB).

The concept, which has started operation at its headquarters in Oguchi, Japan, utilises Industrial Internet of Things (IIoT) equipment and advanced automation technology to improve productivity.

The technology enables all production equipment to be integrated in a factory-wide computer network, where the equipment can be monitored comprehensively and production results can be analysed.

With these data, changes can be made to different aspects of manufacturing and thus lead to better productivity.

The company said this will position it to be a major supplier of Singapore-made toolings and machines to Mazak's global sales networks spanning over 50 countries.

The Singapore plant will also be its headquarters in South-east Asia, and will develop IIoT solutions for the Asean region and India.

Lim Kok Kiang, EDB's assistant managing director, said: "Emerging technologies such as robotics, IIoT

and additive manufacturing are transforming the way manufacturers operate their businesses, and they serve as an important enabler in Singapore's push towards advanced manufacturing."

The new additive manufacturing centre – the first outside Japan – will be equipped with a technology that is the first of its kind in its hybrid, multi-tasking machine that can provide solutions for the high-precision manufacturing industries such as aerospace, oil and gas, semiconductor, and precision engineering.

In line with its commitment to protect the environment by utilising sustainable renewable energy for its long-term power needs, the company has partnered Cleantech Solar to operate a 1.6MWp solar photovoltaic system on the rooftop of its facilities.

The 16,000 sq m system of 6,000 solar panels, spanning metal and reinforced concrete sections of its roof and several carpark canopies, is able to power up to 35 per cent of its manufacturing plant's power needs.