

Xiumei Model, the First-class Manufacturing Expert of the 3D Printing Ship Model Industry

Customer Case



The ship model is a proportional model that is produced in strict accordance with the shape, structure, color, and even interior components of a real ship. Because of its true reproduction of the main characteristics of the original ship, the ship model has excellent workmanship, and it itself contains the ship culture and has a high collection value. A high-quality, worthy collection of ship models can completely and truly reproduce the history of a shipping company and a ship brand.

The high-quality ship model appearance and geometric fit are consistent with the height of the real ship. In the ship model making process, the ship model surface requires not only good flow linearity, but also high geometric machining accuracy. The traditional manual stakeout production method is extremely inefficient, and it is difficult to ensure the machining accuracy of the ship model surface. 3D printing technology can be combined with industrial design concepts to accurately restore design ideas and realize the production of arbitrarily complex shapes. It has high processing precision and good surface quality. It can print 0.2mm fine product details and is suitable for ship model internal structure. The embodiment of the fine structure and high production efficiency is more environmentally friendly than the traditional model manufacturing method. 3D printing technology has obvious advantages in model making. Nowadays, both large and small model companies have gradually adopted 3D printing technology instead of traditional production methods, which is a mainstream model processing method.

The products of Xiumei Model are mainly made up of various models. Among them, the ship marine engineering, luxury cruise, and other models are the company's main products. Since the products are exquisitely crafted and realistic, they are well-made and exported to all over the world. It is the first-class ship model production company in China. It is currently a member of the China Shipbuilding Industry Association, the China Shipbuilding Industry Association Boat Branch and the Shanghai Additive Manufacturing Association, and has passed the ISO 9001 quality system certification. Since 2013, it has introduced UnionTech 3D printing equipment. At present, there are more than 30 UnionTech light-curing 3D printing equipment and several large-scale 3D printing G1400 equipment.

The company is committed to becoming a 3D printing base with advanced equipment, leading technology and largest scale in China. In 2018, Pantech was established in Nantong, Jiangsu Province, focusing on the production of various ship models. Pantech is the third modern factory set up by Xiumei Model integrating intelligent manufacturing and 3D printing in the domestic layout. At the same time, it also introduced UnionTech SLA 3D printing equipment and set up a 3D printing innovation center to display the 3D printing intelligent manufacturing system.

Keeping improving and making products into works of art

Xiumei Model's main products include various types of container ship models, offshore models, semi-submersible drilling platform models, tanker models, transport ship models, dredgers, military models, Liaoning ship model aircraft carrier models, medium and deep water semi-submersible drilling platforms, boat models, antique boat models, etc. Each piece of work is uniquely designed, and the finished ship model is mainly used for project display, bidding, gifts, teaching, etc.

construction period and low production capacity. Since the introduction of Luen Thai 3D printing, the production capacity has been rapidly increased, and 70-80 projects and hundreds of ship model products can be produced every month. The length of the large ship model is about 9m. The bottom of the large ship model is NC machined, and the rest of the structure is completed by 3D printing. The smaller ship model adopts 3D printing and the whole ship is about 1.2m long and 30cm wide. 3D printing technology not only effectively increases production capacity, but also greatly simplifies the production process. A perfect ship model production process is from customer order to 2D drawing production, and then 3D data modeling is completed according to 2D image files. 3D modeling data will be imported into a 3D printing device to complete the hull structure after being simply processed by the 3D printing software. Eventually, the printed parts will be color processed and assembled into a perfect finished product.

In addition to the ship model business, Xiumei Model comprehensively promotes the modern management mode. With industrial design combined with industry and Internet as the core competitiveness, Xiumei gradually realizes the intelligent manufacturing of Industry 4.0. Its online service platform AAU, which is based on 3D printing technology, aims to promote 3D printing and Internet deep integration, providing users with 3D printing, product customization, online shopping malls, industry information, community forums and other services. 3D printing services cover industries such as aerospace, automotive, real estate construction, industrial machinery, teaching aid models, smart equipment, hand products, art sculpture and other models. Based on the product concept and market positioning of the boutique model, Xiumei strives to be the leader of the model industry with continuous improvement and innovation.



Assembly workshop work diagram



About UnionTech: Established in 2000, UnionTech shows nearly 20 years of proven leadership of globally-sourced SLA 3D Printing Systems and is now the market leader of SL equipment in Asia. We have broadened our market reach to support a quickly growing customer base in North America, Europe, and Russia.

Our long-time approved CE-certified SL technology with reliable technical support and maintenance options is widely established in multiple industries like mold making & tooling, automotive, footwear, arts, dental & medical, education & research, etc. We also strengthen our leadership as an Additive Manufacturing (AM) equipment and solutions supplier by actively focusing on the evolution of new photopolymer AM technologies. Nearly 30% of our growing professional team is dedicated to research and product development. All of these benefits are supported by our global affiliation with other marketplace leaders. By living our core values day-by-day, we dedicate ourselves to developing innovative technologies and efficient models which evoke the potential of 3D-Printing, to serve the needs of our customers and pave our way to global success, under adherence of a continuous pursuit towards perfection.

UnionTech

Shanghai Union Technology Corporation

Room 102, Unit 40, 258 Xinzhuan Rd, Shanghai, 201612, China
enquiry@uniontech3d.cn Tel: +86-021-64978786

www.uniontech3d.cn

UnionTech GmbH

Regus Berliner Carree, Berliner Allee 47, 64295 Darmstadt, Germany
info@uniontech3d.de Tel: +49 (0) 6151-2776067

www.uniontech3d.de