UnionTech

Stereolithography Technology Penetrates Traditional CNC Prototyping Market

Case Study

UnionTech
Create your imagination

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Industry • Prototyping and Mold-making

Stereolithography, in particular, is a leading 3D printing technology that has continued to provide enhanced performance capability with greatly improved cost efficiency. These advancements have created a great opportunity for stereolithography printing as a preferred prototyping technique. Compared to CNC machining, a great advantage of stereolithography printing is processing efficiency.

"It usually takes a week to get processing done by CNC. On the other hand, stereolithography printing finishes the work in one day. UnionTech printers offer large platforms enabling multiple parts to be produced at the same time on a single machine. Stereolithography machines are also capable of 'dark' operation, i.e., the ability to produce parts without human intervention. "Reducing labor and related costs required in CNC machining is a considerable benefit." states Mr. Wen Binghua, the CEO of KeHeng.

Additive manufacturing technology, such as stereolithography, reduces material scrap rates and better material utilization compared to CNC, a subtractive process. Additive manufacturing with SL also offers significant cost advantages when producing complex designs.

Mr. Wen introduced stereolithography technology into KeHeng in 2011. Since the first SL 3D printer, UnionTech RS4500, was installed in the plant, a significant "revolution" began relative to the adoption of additive manufacturing. Additional stereolithography machines were added every year through 2016. KeHeng boasts a professional 3D printing workshop that contains more than 30 SL machines from UnionTech.

The long-term cooperation between UnionTech and KeHeng is based on a win-win relationship. KeHeng accelerated SL technology adoption, realizing that with an upgrade in industry capabilities. UnionTech had an opportunity to provide specialized solutions in response to real market needs. UnionTech's response to customers' needs and application requirements will continue to contribute to the advancement of 3D printing.

Photo Caption: UnionTech equipment offers cost advantages when producing complex designs

For nearly 20 years, UnionTech stereolithography (SL) 3D printing equipment has been developed and manufactured in an environment of intense regional competition. The UnionTech product offering for the international market of today reflects the experience that has made it a global leader in stereolithography. Our equipment is robustly constructed for low cost of ownership from the initial purchase onward while producing the highest quality parts. Parts produced on UnionTech SL equipment are highly accurate with excellent feature resolution, full density and smooth surfaces. A philosophy of open design relative to material usage demonstrates UnionTech's desire to provide customers with the best available product solutions. Explore the fresh dimension in SL 3D printing that UnionTech makes available in a full line of commercial and production scale machines. UnionTech Create your Imagination.

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