

Video of the Week – How do laser sintering printers at igus work?

This week we take a look behind the scenes at igus to find out how the company's SLS 3D printers work. In this process, the wear-resistant laser sintering material iglidur I3, specially developed by igus, is applied on the entire working platform and the first layer is melted. After each work step, the plate is lowered by 0.1mm and a new layer applied. When the print run is complete, the printed parts are separated from the powder and finished off with an air blasting machine to ensure every particle is removed.

Laser sintering printers can produce simple or complex parts. In an installation space of 220x170x300mm, for example, 5,000 plain bearings with an inner diameter of 10mm can be produced within 30 hours. Laser sintering ensures that igus can offer the components not only fast, but also with a higher strength and more cost-effectively than using the FDM process.



High costs, such as the production of injection moulding tools, are eliminated and many design iterations can be made easily on the computer. In conventional injection moulding, on the other hand, entire moulds need to be retooled. In addition, there is no price difference between complex and simple shapes.

To watch the video in full, please visit: www.igus.co.uk/triboprintingVOTW

For more information about iglidur I3 and the igus SLS printing service, please visit: www.igus.co.uk/3dprint or call igus directly on: 01604 677240

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About igus:

Based in Northampton in the UK and with global headquarters in Cologne, Germany, igus is a leading international manufacturer of energy chain systems and polymer plain bearings. The family-run company is represented in 35 countries and employs 3.800 people around the world. In 2017, igus generated a turnover of 690 million euros with motion plastics, plastic components for moving applications.

With plastic bearing experience since 1964, cable carrier experience since 1971 and continuous-flex cable since 1989, igus provides the right solution based on 100,000 products available from stock with between 1,500 and 2,500 new product introductions each year. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

The terms igus, chainflex, CFRIP, conprotect, CTD, drylin, dry-tech, dryspin, easy chain, e-chain, e-chain systems, e-ketten, e-kettensysteme, e-skin, flizz, ibow, iglide, iglidur, igubal, manus, motion plastics, pikchain, readychain, readycable, speedigus, triflex, plastics for longer life, robolink and xiros are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.

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