**Press release**

***REYHER’s new 3D printing service***

**RRP – REYHER Rapid Prototyping supports component optimization**

**Hamburg, 03 May 2019 - High costs during assembly, operations and maintenance can be avoided by optimization in the design phase, for joining technology too. The new 3D printing service RRP – REYHER Rapid Prototyping supports companies improving component design, reducing development costs and shortening time-to-market.**

In a very short time RRP – REYHER Rapid Prototyping facilitates producing a prototype in line with customer requirements, or a complete component as a functional model. The material can be plastic or metal, such as steel, stainless steel, aluminium or titanium. Additive manufacturing is ideal for complex geometrics, which could not be achieved with conventional production methods.

"We accompany our customers with a competent team in the development or in the optimization of an existing solution and allow a complete treatment of the construction," says REYHER Managing Director Klaus-Dieter Schmidt.

**Three development approaches for various purposes**

RRP – REYHER Rapid Prototyping comprises three possible development paths. To develop a fastener, the REYHER team prints the screw or nut required in line with customer requirements, first as a plastic sample part. This is useful for joining trials. “If the prototype meets the customer’s requirements then for mechanical tests or endurance testing a sample made of aluminium, steel, stainless steel or titanium is produced,” explains Gary Lee Lauf, Head of Quality Planning at REYHER.

For development of a bolting technology, it is important to optimize the design and to reduce complexity in the construction unit. 3D printing aims to produce a functional model of the form out of plastic or metal.

The third development approach for RRP – REYHER Rapid Prototyping is complete component substitution. “In the foreground is the question of whether and how many, single units joined together in a finished component can be transformed, in order to find an economically and technically impeccable solution,” says Lauf.

**Reviewing technical and commercial viability**

The RRP team accompanies the customer step-by-step from the initial idea right up to the completed component. The test construction is based on CAD data of the customers’ original functional model. The current status of the component to be optimized can be printed at every stage of the development and reviewed for design, proportions and functionality.

“We check the design and the proposed material preferably at the beginning of a project using software, not only for technical aspects, but also for economic feasibility. If necessary we optimize it,” says Lauf.

**About REYHER**

With more than 130 years’ experience REYHER is one of the leading trading companies for fasteners and fixing technology in Europe and supplies customers in industry and trade worldwide. Around 750 staff in the central location in Hamburg ensure individual, flexible solutions for reliable supplies of c-parts, with a delivery rate of over 99 percent. In 2018, REYHER achieved a turnover of around 340 million euros with over 11,000 customers.

Picture 1: C-parts as prototypes and complete components made of plastic or metal: That's what the new 3D printing service from REYHER stands for *(Photo credit: fotofabrika - Fotolia.com)*

Picture 2: With the help of an in-house 3D printer, the RRP team quickly creates a sample for viewing or for installation experiments *(Photo credit: Patrick Daxenbichler - Fotolia.com)*

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