



Easy-machining special steels at wire 2014

Ugitech presents new UGIMA[®] stainless steel solutions

Long tool life, 10 % to 50 % increase in productivity in machining operations depending on the steel grade and excellent component surface quality - made possible by the stainless steels of the UGIMA[®] product family. At wire 2014, Ugitech, a company of the SCHMOLZ + BICKENBACH GROUP, will spotlight the new stainless steels UGIMA[®] 4005 and UGIMA[®] 4509 for applications in the automotive and process industry at the Group's shared exhibition stand number A16 in hall 17. Additional highlights of the fair are welding wire for exhaust pipes as well as new Lean Duplex and Super Duplex steels.

"We developed the UGIMA[®] special steel grades to achieve maximum output in the production of precision parts," explains Marc Marticou, Business Development Manager at Ugitech. The new martensitic stainless steel UGIMA[®] 4005 is ideal for components used in the automotive and process industries. With a chromium content of 12 % to 14 % and specific oxide inclusions, it is easy to machine and has excellent mechanical properties at the same time. UGIMA[®] 4005 is an economic alternative to conventional stainless steel 1.4005. Unlike the standard grade, the UGIMA[®] steel supports cutting speeds of up to 500 m/min depending on the type of tool. Users profit from a productivity increase of 30 % to 50 % at constant tool life.

The new ferritic UGIMA[®] 4509 is at its best in components for the automotive industry that are subjected to high temperatures. Resistant to intergranular corrosion, it remains stable even at high temperatures like those produced in exhaust pipes. Ugitech has improved machinability by means of specific precipitates that result in short-length chips. The

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result: the cutting speed can be raised by 20 % to 40 % for drilling deep holes. The behavior of the steel in turning operations has also been optimized. "For economic manufacture and high-quality components, we advise users and help them select the right material as well as to set the ideal cutting parameters," reports Mr. Marticou.

In addition to UGIMA[®], Ugitech will introduce the new Exhaust[®] Bi.Stab welding wire for exhaust pipes stabilized with Titanium and Niobium. The new corrosion-resistant Lean Duplex grades 1.4362 and 1.4062 and the new Super Duplex grades 1.4507 and 1.4410 will also be a point of focus. Ugitech will give presentations on the showcased steel solutions twice daily from April 8 to 10 at stand A16 in hall 17. Interested visitors can obtain more information at wire 2014 in Düsseldorf or in advance at www.ugitech.com.

Infobox Dimensions and As-delivered condition UGIMA[®]:Steel bar, drawn:

2.0 to 28.0 mm diameter, tolerance: standard h9 to h6, on request

Steel bar, peeled:

22.0 to 130.0 mm diameter, tolerance: standard h10 to h6, on request

Drawn wire:

1.0 to 14.0 mm diameter, tolerance: standard h9 to h6, on request

Wire rod:

5.0 to 32.0 mm diameter, in coils of 1 ton

Length: 2972 characters including spaces

Status: 19 February 2014

Picture 1: Machining

Picture 2: Wire rod

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Picture caption 1: The easy-machining special steels UGIMA® increase the productivity in machining operations by 10 % to 50 % depending on the grade.

Picture caption 2: The UGIMA® stainless steel solutions are available, among others, as wire rods with a diameter of 5.0 to 32.0 mm.

About SCHMOLZ + BICKENBACH

The SCHMOLZ + BICKENBACH GROUP is one of the world's leading providers of special high-grade steels. The GROUP is one of the leading producers on the global market both in tool steels as well as for stainless long steels and is one of the three largest companies in Europe for alloy and high-alloy special and engineering steels. With circa 10,000 employees and its own production and distribution companies in more than 35 countries on five continents, the company guarantees its customers global support and supply and offers them the entire portfolio consisting of production and Sales and Services at locations worldwide. They benefit from the technological expertise of the company, the same high product quality wherever in the world, as well as a detailed knowledge of local markets.

About Ugitech S.A.

Ugitech is one of the leading manufacturers of stainless steel long products worldwide. The company's main products include billets, bar stock, wire rod, drawn wire that the company produces in its own steel mill and in its rolling mills and wire-drawing plants. The stainless steels are known for their excellent mechanical properties. They are used to manufacture a wide range of parts, such as e.g. valves, turbine components, welding wire or surgical instruments. With over 100 years of experience in steel production and ongoing metallurgical research, the company guarantees optimum steel solutions for demanding applications for its customers in the automotive, construction, process and aviation industries and medical technology.

Contact SCHMOLZ + BICKENBACH GROUP

Susanne Peiricks

Phone: +49 (0)2 11-5 09-25 97 • Fax: +49 (0)2 11-5 09-15 97

E-Mail: s.peiricks@schmolz-bickenbach.com

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Contact Ugitech S. A.

Frédérique Tissot

Phone: +33 (0) 47989-3012 • Fax: +33 (0) 47989-3737

E-Mail: frederique.tissot@ugitech.com • Internet: www.ugitech.com

External media contact

Hanna Maurer • additiv pr GmbH & Co.KG

Public relations for logistics, steel, industrial commodities and IT

Herzog-Adolf-Straße 3 • D-56410 Montabaur

Phone: +49 (0)2602 95099-15 • Fax: +49 (0)2602 95099-17

E-Mail: hm@additiv-pr.de • Internet: www.additiv-pr.de