

Schweißen & Schneiden 2017 Flashback New Time and Cost-Efficient Weld Overlay Solutions

Repair, ant-wear and cladding specialist UTP Maintenance took advantage of the podium of Schweißen & Schneiden 2017 to present new time and cost-efficient weld overlay solutions for respectively the repair of worn continuous casting rollers and for the cladding of Alloy 625 onto non or low-alloyed steel. Both have in common that the required chemical composition is reached in a single layer and that considerable savings are obtained in terms of weld overlay time in comparison with conventional methods.

The new weld overlay technique for **continuous casting rollers** was shown on the stand by means of life demonstrations. The submerged arc cored wire / flux overlay combination SK 743N-SK / RECORD SK is a solution for steel mills requiring a universal repair method over the full length of the continuous casting line. It forms a time-efficient compromise for using multiple product combinations. The innovative aspect of this combination is that the targeted chemical composition is reached in just one layer when overlaying onto commonly applied creep resistant steel roller materials such as 42CrMo4, 25CrMo4, 16CrMo44 and 21CrMoV5. The same solution is available with the FCAW process using the open arc cored wire SK 743N-O.

In one of the lectures performed during Schweißen & Schneiden, UTP Maintenance presented its patented new solutions for **the single layer cladding of Alloy 625** onto non or low-alloyed steel using the electroslag strip cladding process. The new strip / flux combination - SOUDOTAPE 625 / RECORD EST 625-1 LD - cuts down on cladding time and the use of cladding materials, while meeting industry requirements for the deposited metal. Alloy 625 composition with an Fe <10% requirement can be realized in a single layer with reduced thickness, while an Fe<7 requirement can be met in one instead of two layers, both compared with conventional ESSC solutions.

For more information about our solutions for the steel industry click [here](#) and for cladding solutions [here](#).

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About us

voestalpine Böhler Welding

Is a leading manufacturer and worldwide supplier of filler metals for industrial welding and brazing applications. As a part of the voestalpine Group, one of the world's leading suppliers of specialized steel products, voestalpine Böhler Welding is part of a global network of metallurgy experts. With more than 100 years of experience, the enterprise has decisively influenced the development of welding technology, setting the benchmark with its innovative solutions. With its three areas of competence – Böhler Welding for joint welding, UTP Maintenance for repair and maintenance welding and Fontargen Brazing for soldering and brazing – outstanding solutions for all challenging welding projects in demanding industries are offered. Read more on www.voestalpine.com/welding

Metal Engineering Division

The voestalpine Metal Engineering Division is the global market leader in turnout technology, and the European market leader in special rails and quality wire. The Division is also a leading provider of tubulars and high-quality welding consumables. Customer segments include the railway infrastructure industry, the oil and gas industry, the steel and construction industry, as well as the mechanical engineering and automotive industries. In the business year 2016/17 the Division and its Steel, Rail Technology, Wire Technology, Tubulars, Turnout Systems, and Welding Consumables business units generated revenue of nearly EUR 2.7 billion, of which around 40 percent was generated outside Europe. The division, with its more than 13,000 employees worldwide, generated an operating result (EBITDA) of EUR 361 million.

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The voestalpine Group

In its business segments, voestalpine is a globally leading technology and capital goods group with a unique combination of material and processing expertise. voestalpine, which operates globally, has around 500 Group companies and locations in more than 50 countries on all five continents. It has been listed on the Vienna Stock Exchange since 1995. With its top-quality products and system solutions using steel and other metals, it is one of the leading partners to the automotive and consumer goods industries in Europe as well as to the aerospace, oil and gas industries worldwide. The voestalpine Group is also the world market leader in turnout technology, special rails, tool steel, and special sections. In the business year 2016/17, the Group generated revenue of EUR 11.3 billion, with an operating result (EBITDA) of EUR 1.54 billion; it has around 50,000 employees worldwide.

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