

INOSSIDABILE

Edited and published by Centro Inox Servizi S.r.l.

Summary

For more detailed information please contact directly the names indicated at the end of each notification

COVER/PAGES 3/4

STAINLESS STEEL TO THE CONQUEST OF THE "APPLE"

(L'inoxidabile alla conquista della "mela")

A new shop has been opened in Milan, owned and managed by a major US multinational company that produces operating systems, smartphones, computers and multimedia devices. The construction consists of an 8-metre-high glass-crystal parallelepiped structure, surrounded by a fountain with 56 water nozzles, which conceals a staircase inside that serves as the entrance to the shop. For this structure, along with the glass, extensive use was made of EN 1.4404 (AISI 316L) stainless steel for the pipes, manifolds, fittings, flanges, and nozzle supports, as well as in the compensation tanks for water collection and recovery. This material was chosen because it can guarantee excellent resistance to corrosion and wear over time. In order to give the "rain effect", a stainless steel manifold has been made with 4000 holes where the nozzles are assembled, which fragment the water into thousands of droplets. All parts have been designed using a CAD software, which allowed to avoid inconveniences during construction and assembly or to correct any unforeseen problems in good time.

Realization: Della Cagnoletta Srl – I-23010 Albosaggia SO – Via Gerone 4, phone: +39 0342 510190, info@dellacagnoletta.com, www.dellacagnoletta.com / Watercube Srl I-36035 Marano Vicentino VI Via dell'Industria 2, phone: +39 0445 637576, info@watercube.it, www.watercube.it

PAGE 5

A DURABLE MATERIAL IN THE NAME OF A PRESTIGIOUS DESIGN

(Un materiale duraturo nel nome di un prestigioso design)

Stainless steels are highly durable materials, are totally recyclable and offer numerous advantages such as, for example, considerable hygiene as well as easy maintenance over time. It is no coincidence that a company operating in the bathroom furnishing sector has chosen these particular alloys for the production of a new line of taps, called "Filo Inox".

EN 1.4401 (AISI 316) stainless steel was chosen for their innovative line of taps, which expresses an extremely original and prestigious design. This steel was used for all the components of the taps.

Producer: EMMEVI Rubinetterie Srl – I-28017 S. Maurizio d'Opaglio NO Via Brughiere 38, phone: +39 0322 950157, info@emmevi.it, www.emmevi.it

PAGES 6/7

FROM OUR MEMBERS

ILTA INOX AND A NEW SIZE RANGE OF WELDED TUBES

(Ilta inox e la nuova gamma dimensionale di tubi saldati da profilo)

The first and most important company belonging to the Arvedi Group, Ilta Inox is considered today one of the leading manufacturers of welded round-section stainless steel tubes. Along with the traditional austenitic stainless steel grades 304, 304L, 316L, 316Ti, 321 and 310S, the company recently introduced in its production range also the 309 grade and 444 grade.

Laser welding technology - The largest welding systems investments were focused on Laser technology. Today, there are 22 operating Laser plants in operation, which represent almost entirely the production flow. Ilta inox has developed its expertise in the rolling and monitoring of the roughness of the Laser weld seam, which allows the company to achieve and maintain the narrow roughness values required in the food and pharmaceutical sectors.

The new range of High Frequency (HF) welded structural and decoration tubes - Since spring 2020, new High Frequency (HF) welding lines for the production of structural and decorative round, square and rectangular tubes have been in operation at the new Robecco d'Oglio plant.

Ilta inox, a strategic partner - To meet increasingly stringent customers service demands, Ilta inox proposes itself as a strategic partner, offering them the possibility of improving their stock rotation index. With the introduction of the new automatic warehouse, the logistics service becomes an integral part of the production process with the possibility

of shipping the material within 24 hours of receiving the order from the customer.

Ilta inox: the Pressfitting production system and the Steckdrain drainage system - In May 2013 Ilta inox acquired the Chibro production unit in Montano Lucino (CO). This is a historic company specialised in AISI 316L stainless steel Pressfittings and the Steckdrain gravity drainage system in AISI 316L and AISI 304 stainless steel.

ILTA INOX SPA – I-26010 Robecco d'Oglio CR Strada Statale 45 bis, Km 13, phone: +39 0372 9801, fax: +39 0372 921538, sales@ilta.arvedi.it, www.arvedi.it/ilta

PAGES 8/9/10

ELECTROPOLISHING: TRADITION AND INNOVATION

(Elettrolucidatura: tradizione ed innovazione)

Introduction - When it comes to surface finishes, there is a general tendency to focus on the aesthetic aspects of a component and much less on the performance ones. The value of the surface finish that a metallic material assumes, especially for stainless steels, is often linked to purely functional aspects. The aim of electropolishing on stainless steels is to enhance the corrosion resistance by the environment in which the component is to be worked, while also allowing for adequate "cleaning".

The technique - The process is based on a "traditional" principle that can be considered the opposite of "electroplating", i.e. not "depositing" metal on the surface, but "removing" material with selective dissolution of the surface. The electrochemical process results in preferential removal of the profile tips, thus reducing roughness, optimizing the corrosion resistance of the stainless steel component.

Application examples - The applications are very varied, but we have chosen a few of the most significant examples. In the yachting sector, for example, electropolishing is often used on materials with a high PREN (Pitting Resistance Equivalent Number), such as AISI 316 (EN 1.4401). The food and beverage machinery sectors also sometimes use this technique on components in contact with

foodstuffs in order to guarantee absolute inertness. The pharmaceutical sector, for its highly functional components, is increasingly resorting to electropolishing.

Not only tradition - In the field of electropolishing technology, great strides have been made, especially in recent years, in terms of the quality of the results that can be obtained on the treated products and in ecological terms. *We thank Delmet Srl for the material provided.*

PAGE 11

FROM SCRAPS TO DECORATIVE LAMPS

(Da cascami di lavorazioni a lampade d'arredo)

“Fischio” is a table lamp designed especially for bars and restaurants. The structure of the lamp is particular, as it has two side slits and two holes designed and made to create plays of light on the table.

This is one of the achievements of a company that, in addition to trading stainless steel and working it, has a specific “artistic” division within it that deals with scrap recycling. Indeed, the components of the lamp, made of EN 1.4301 (AISI 304) stainless steel, are all scraps from carpentry work. The lamp has an internal battery, so it does not need to be connected to an electric outlet to work.

Manufacturer: Innoxart – I-25136 Brescia BS – Via Conicchio 18, phone: +39 030 2003577, info@innoxart.com, www.innoxart.com

PAGE 12

DISPOSING OF SLAUGHTERHOUSE WASTE WITH THE HELP OF STAINLESS STEEL

(Smaltire gli scarti della macellazione con l'aiuto dell'innox)

Farmed animals intended for food consumption produce waste after slaughter, some of which is considered harmful to human health. These by-products cannot be placed on the market but must be treated appropriately according to their level of risk. The machines presented in this article are used to process and treat slaughterhouse waste, as required by specific regulations.

These machines work at high temperatures (130-140 °C) which could pose a danger to operators working nearby, so it was decided to install an insulation system, consisting of insulating material and an external coating of 0.6 mm thick EN 1.4301 (AISI 304) stainless steel.

Insulation systems made by: Coifer Srl – I-24043 Caravaggio BG – Via Leonardo da Vinci 47, phone: +39 0363 51597, fax: +39 0363 53011, info@coifer.it, www.coifer.it

PAGES 13/14

ACCESSORY FOR ANIMAL STALLS: MAIN CONSTRUCTION PHASES (Accessorio per stabulatori: principali fasi costruttive)

Animal stalls are used to confine the animals in controlled spaces in order to monitor their various functions. They can be of various configurations depending on the types and number of animals housed in the individual cages and have various accessories for which stainless steel is increasingly being used for its intrinsic characteristics of hygiene, corrosion resistance and ease of maintenance. In this sense, an important accessory is a “table”, which is part of a three-stage station, completely made of stainless steel, used in the pre-clinical or pre-pharmaceutical sector. This “table” is used as a station for emptying and filling bottles, which have a stainless steel spout, that are housed in cages and contain water for watering the animals. These operations are carried out in two separate tanks, which characterise the “table”. This article shows the main steps the company took to process the sheets and structural tubular products used in the construction of the “table”. The material used is EN 1.4404 (AISI 316L) stainless steel.

Producer: CBS Srl – I-22031 Albavilla CO – Via Sotto ai Boschi di Saruggia 6, phone: +39 031 426228, info@cbssrl.it, www.cbssrl.it/IWTSrl-I-21020CasaleLittaVA Via Galliani 68B, phone: +39 0332 96701, info@iwtsrl.it, www.iwtsrl.it

PAGE 15

INTERNATIONAL STAINLESS & SPECIAL STEEL CONFERENCE 2021 (International Stainless & Special Steel Conference 2021)

Como – 28 ÷ 30 September 2021

Lake Como will host the International Stainless & Special Steel Conference 2021, a conference organised by SMR EVENTS and it will be held from 28 to 30 September 2021. The central themes of this event, which will be attended by more than 200 companies from the entire stainless steel production chain, will be sustainability and digitalisation (“Green & Digital”). Centro Inox will support the event.

For information and subscription:

www.stainless-conference.com/stainless-special-steel-conference.html

MADE IN STEEL 2021

(Made in Steel 2021)

Fieramilano Rho, Milan – 5 ÷ 7 October 2021

The 9th edition of Made in Steel, the leading Conference & Exhibition in Southern Europe dedicated to global iron and steel industry, organised by siderweb - the steel community,

will be held from 5 to 7 October 2021. In pavilions 22 and 24 of the Fieramilano Rho exhibition centre, the main players in the steel supply chain will meet to do business and to discuss the key issues for the future of the steel industry. The main theme of this edition will be the “rebirth” of steel from the crisis caused by the Covid emergency, which also hit the steel sector hard.

Centro Inox, as well as supporting the event, will be present with an exhibition space.

For further information:

Made in Steel Srl – phone: +39 030 2548520

info@madeinsteel.it – www.madeinsteel.it

Centro Inox – phone: +39 02 86450559

eventi@centroinox.it – www.centroinox.it

PAGE 16

ECO-CHIC OUTDOOR FURNITURE: ECOLOGICAL AND PRECIOUS TABLES (Arredi per esterno eco-chic: tavoli ecologici e preziosi)

Inaugurated with a table and a bar counter for dehors, Gold&Wood is an ecological and elegant line of outdoor furniture for which stainless steel, for aesthetic reasons, and wood, as a structural material, are used synergistically. The collection aims to make glamorous and eccentric even the most industrial version of wood. For the products shown in the article, the table top has been covered with shiny T22 Prestige Gold Mirror sheets, i.e. PVD-coloured “SuperMirror” stainless steel, and 5WL rigidized stainless steel sheets with BA finish. The bar counter was entirely covered with ColourTex® Gold Pearl electro-coloured and rigidized stainless steel. For all the components, sheets of 0.8 mm thick EN 1.4301 (AISI 304) stainless steel were used.

Produced and realised by: Steel Service Srl, holder of exclusive rights of sale in Italy for Rimex metals UK's rigidized, patterned and coloured stainless steels – I-26845 Codogno LO Via Armando Diaz 80/C, phone: +39 0377 379821, fax: +39 0377 400818, commerciale@steelservicegroup.com, www.innoxcolorato.com

CENTRO INOX

The Italian Stainless Steel Development Association

Via Rugabella, 1 - 20122 Milano - Italy

Telephone +39 02 86450559 - +39 02 86450569

Fax +39 02 86983932

redazione.inossidabile@centroinox.it

www.centroinox.it

The subscription to the quarterly INOSSIDABILE, outside Italy, is free of charge.

