

INOSSIDABILE

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Summary

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

COVER/PAGES 3/4

DOMINA INN MILANO-FIERA: THE COMFORTABLE SIDE OF STAINLESS STEEL

(Domina Inn Milano-Fiera: il lato accogliente dell'acciaio inox)
194 rooms, an international restaurant, a congress centre, a conference room, a bar with a lobby lounge and a meeting hall for 300 persons. These are the main characteristics of the brand-new Domina Inn hotel of Novate Milanese, in the outskirts of Milan. Located only 3 kilometres away from the new Exhibition Pool of Milan, this hotel has been built in a strategic area, considering its short distance from the two major airports of Milan, Malpensa and Linate, which are respectively 40 and 18 kilometres away from it. An articulated volume of glass and stainless steel includes the main functional and reception areas, and acts as a natural entrance to the hotel. The linings of the front walls have been designed as to create striking light and shade effects, which are continuously changing throughout the year, thus underlining the succession of the seasons and the transition from day to night. Stainless steel, a material usually considered "cold", just because of its ability to gather and reflect the lights and colours that surround it, can reveal in this way its "comfortable", welcoming side, and becomes a perfect support of the aesthetical and functional concept of this building.

The 0.8 mm thick corrugated sheets made of EN 1.4301 (AISI 304) stainless steel form a sort of "living" skin, which becomes animated through the reflections of light, while inside the hotel, the different interiors have been conceived for giving hospitality to the typical work activities of businessmen and for offering them appropriate spaces for their work and for their well-deserved relax.
Project Design: ing. Sergio Levati – MSC Associati Srl – Via Cialdini 37 ang. Via Montanari – I-20161 Milano, phone +39 02 66204150, fax +39 02 66204155, milano@mscassociati.it

PAGE 5

CLEANING OPERATIONS IN THE "GIOVANNI XXIII" TUNNEL IN ROME LINED WITH VERNEST® STAINLESS STEEL

(La pulizia della Galleria Giovanni XXIII di Roma rivestita con acciaio inox Vernest®)
The cleaning operations in the "Giovanni XXIII" tunnel in Rome, which were carried out in July 2008, confirm, as this article points out, the extraordinary characteristics and performances of the Vernest® products used for the lining and the cover of the tunnel. The "Giovanni XXIII" tunnel, opened in Rome in December 2004, the construction of which was documented in INOSSIDABILE 159, is the longest urban tunnel ever built in Europe. Its technology and performances had already been pointed out during the material selection stage. Vernest® pre-painted stainless steel panels were used for lining the side walls of the tunnel. In particular, the main access sections are protected by sound-absorbing barriers made of 1 mm thick EN 1.4301 (AISI 304) stainless steel, while the secondary entrances and the tunnel body are lined with 1 mm thick EN 1.4016 (AISI 430) stainless steel panels. In summer 2008, the tunnel was closed to traffic during the night for the purpose of carrying out, for the first time after its opening, the complete cleaning of its metal lining panels. On that occasion, to ascertain the overall conditions of the Vernest® panels and characterize the aggressiveness of the environment from a corrosion and microbiological point of view, several samplings and measurements were made on the spot. In particular, a considerable build-up of dirt and powders was remarked, however to a smaller extent on EN 1.4016 (AISI 430) panels, as they were used in the inlet areas and therefore less exposed to the traffic. The powders included also metallic elements, and in particular calcium (which is an environmental dustiness indicator) and iron (the presence of which on the surfaces may affect non-painted stainless steel durability and corrosion resistance). In addition, an analysis of the micro-biological contamination was able to point out a high fungal rate in the whole environment. Despite the conditions inside the tunnel were quite unfavourable, it could be ascertained that both the performances and the aspect of the Vernest® panels had remained substantially unchanged since the setting up of the tunnel. From the point of view of corrosion-making, no corrosion traces were noted even in the points in which the protection coating had been whether accidentally or intentionally removed. Of particular relevance is the fact that the areas submitted to heavy dampness stagnation or to dripping caused by not correctly channelled water permeation, which consequently were particularly exposed to the risk of corrosion, had remained undamaged. Because of the strong environmental aggressiveness and the fungal contamination inside the tunnel, cleaning operations had to be carried out with extremely abrasive means. In particular, an industrial water-cleaning machine was used, namely a special vehicle equipped with a mechanical arm provided with a rotating

brush and a high-pressure spray system to be used before and after the brushing. Even though the tunnel cleaning intervention had been carried out using this abrasive equipment, the aspect and the colour of the surface of the Vernest® stainless steel panels remained unchanged. After this extremely satisfactory cleaning experience, Vernest® proves to be a particularly suitable material for internal tunnel lining.

Stainless steel supplied by: ThyssenKrupp Acciai Speciali Terni SpA – Viale B. Brin 218 – I-05100 Terni, phone +39 0744 490282, fax +39 0744 490879, www.acciaiterni.it

PAGES 6-7

FROM OUR MEMBERS UGITECH, THE WORLD LEADER FOR STAINLESS STEEL AND ALLOY LONG PRODUCTS

(Ugitech, leader mondiale di prodotti lunghi in acciaio inossidabile e leghe)

Ugitech, a company belonging to the Schmolz + Bickenbach Group, is the leading world manufacturer of stainless steel long products and tooling steels, and the fourth major manufacturer of steels for the building industry worldwide. Ugitech includes the following units: **Production** - the factory is located at Ugine (France); **Processing (bars)** - it is carried out in the factories of Ugine (France) and Peschiera Borromeo (Milan, Italy); **Processing (drawn wire)** - it is carried out in the factories of Bourg-en-Bresse (France), Brienne (France), Imphy (France), and Reichshof (Germany); **Advanced logistics (stock sales)** - the warehouses are located at Grigny (France), Cluses (France), and in Stuttgart (Germany).

Ugitech distributes its products through the Schmolz + Bickenbach world network.

• Ugitech's Identity Card

Year 2008: more than 10,000 customers all over the world / 1990 employees / 196,000 tons of sold products / 750 M€ turnover.
Product and size range: 205 mm blooms and 50 to 120 mm billets; 1.5 to 400 mm round bars; 2 to 55 mm hexagonal bars; 5 to 32 mm round and hexagonal wire rod in coils, weight 450 and 900 kg; 15 micron to 18 mm drawn wire.

• Ugitech, Investments for the Future

Today, Ugitech managers confirm their commitment to the company and to the environment: observance of the rules concerning health, safety and environmental matters; attention and compliance with customers' requirements; team spirit and solidarity; society transformation and flexibility; innovation to differentiate the company from its competitors; cost management and continuous search for excellence. **Several action plans have been developed, including:** development of renewable energy sources; photovoltaic systems: solar panels for an overall surface of 1,100 m², 1,600 kW operating since the end of 2009; waste recycling and exploitation chain; energy saving plan; the Ugigreen® brand to promote inside and outside the company the environmental measures adopted by Ugitech on its processes and products.

The main actions have concerned:

– Water consumption reduction. In only ten years, the Ugine factory has cut water consumption by two thirds. A neutralization station treats the effluents of the pickling lines and the water that flows out of them is submitted to periodical inspections and tests and to permanent safety measures.

– Exploitation of iron and steel derivatives (slag, rolling process powders and mud).

– Reduction of greenhouse-effect gas emissions: Ugitech has adopted an energy reduction programme in order to conform its requirements to the national allocation plan.

• Innovation

ESR: One of the latest investments made by Ugitech consists in the installation of an ESR (Electro Slag Remelting) system. This plant started working in 2007, and after a period of adjustment, is now fully operating. The Ugipure® steels produced through this system, thanks to their high degree of purity and their structural uniformity, are capable to fully comply with the most severe technical standards requested by the aerospace and medical industries and are particularly recommended in processes in which extremely high environmental purity levels are required, in the automotive industry, in the production of steels for moulds and dies, and in the energy industry.

- Attention to customers in order to conform to their requirements, and consequent process development. This activity is based on four major mainstays: reliability of our industrial instruments, development of human resource skills and competences, improvement of our product quality, and production cost management.

- Technical assistance. To support its sales network and provide its customers with a suitable and reliable technical support, Ugitech has made available its network of specialized engineers and operators.

- High-machinability stainless steel. Ugitech has developed and improved steel shaving and chipping properties, not only as regards re-sulphurized steel types. Its production range includes 22 improved-machinability standard steel qualities (Ugima®), some of which have been further improved (Ugima® 2, HM).

UGITECH ITALIA SRL - Sales Office: Via G. Di Vittorio, 34/36 – I-20068 Peschiera Borromeo MI
phone +39 02 516851 – fax +39 02 51685340
info.it@ugitech.com, www.ugitech.com

PAGES 8-9

MINISTERIAL DECREE OF MARCH 21st, 1973: CONTACT WITH FOODSTUFF PUTS ON A NEW DRESS (Decreto Ministeriale 21 marzo 1973: il contatto con gli alimenti si veste di nuovo)

About 50 per cent of the stainless steel processed in our country is destined to applications characterized by the essential requirement of absolute hygiene.

The Ministerial Decree of March 21st, 1973, which is undoubtedly one of the first laws issued in the world for the purpose of regulating food-related hygienic matters, establishes, after the performance of leaching tests, for a group of stainless steel types included in a list, their suitability to be used for food. This list, which originally included 21 materials, after subsequent updates has been supplemented by 18 new entries, totalling today 39 different types of steel. By the legislator's request, the visual aspect of this list, in particular, lately underwent further developments in order to conform it to the framework of standards that regulate steel nomenclature. This process has led to the issuing of the Ministerial Decree n° 276 of October 27th, 2009. With the aid and support of Centro Inox, UNSIDER and Federacciai, the Ministry of Health and the Italian National Health Institute have revised and updated the material initials used up to now, which referred to UNI standards no longer in force. The list of materials was consequently written out again taking the European standard symbols as a reference, especially those included in the EN 10088-1 standard. Another novelty consists in the inclusion of the ASTM (American Society for Testing Materials) symbols in addition to the AISI ones, as well as of the UNS numbers belonging to the Unified Numbering System. Last but not least, another very important novelty concerns the disappearance of the ID commercial symbols included in the previous version of the list. If a material tested according to the test-performance protocols provided for by the new Ministerial Decree (and therefore suitable to come into contact with food) is not covered by one of the above mentioned initials, it shall be included in a special section according to the chemical composition characterizing unequivocally its identity and performances from a sanitary point of view.

Footnotes are an integral part of the tables and are directly available on the Decree.

PAGES 10-11

STAINLESS STEEL PURSUES AESTHETIC PERFECTION (“L'inossidabile ricerca” della perfezione estetica)

Simple and rigorous furnishing accessories under the "made in Italy" sign, which are the outcome of an overwhelming passion for the world of design and fashion. Completely made of EN 1.4301 (AISI 304) "scotch-brite" finish stainless steel and manufactured through extremely sophisticated high-level working processes, these products are dedicated to interior designers and connoisseurs fond of expressive simplicity.

The basic material, a 1.2 mm thick, 2,000 mm high steel sheet, takes shape by means of a well-balanced mix of handcraft and machining processes carried out using automatic machines. The result is a collection unique of its kind, an original synthesis of high-class, selected objects designed for private and public spaces.

Design: AG Fronzoni / **Manufacturer:** Extrahenrytimi – Milano, phone +39 02 80509739, info@extrahenrytimi.it, www.extrahenrytimi.it

THE "GIORNO NOTTE" COLLECTION FOR DAY AND NIGHT – INDOOR AND OUTDOOR LIVING SOLUTIONS (Collezione "giorno notte" - Soluzioni progettate per abitare fuori e dentro la casa)

A company operating for more than thirty years in the nautical industry, which boasts great expertise in stainless steel working processes, has conceived the original idea to match stainless steel with innovative technological fabrics for the purpose of developing a collection of furnishing accessories perfectly suitable both for elegant interiors and for sophisticated dehors and capable to keep their shine and durability unchanged over time. The "giorno notte" (day-night) furnishing line developed by this company includes a deckchair, a sun-bed, a multi-functional chair, a porch-swing, three traditional chairs, two tables, a lamp and a new fire tray. All



the structural bearing elements of this collection have been made of 20 mm diameter, 2 mm thick, EN 1.4571 (type 316Ti) stainless steel tubes. These elements have been assembled through a TIG welding process. Particular attention has been paid to surface finishing. The choice has fallen to a polished finish and also the welded areas have been carefully finished through a grinding and polishing process.

Manufacturing company: Nautinox Living - Via Meucci 14/16 - I-20080 Casarile MI, phone +39 02 90093718, fax +39 02 9054631, info@nautinoxliving.it, www.nautinoxliving.it / **Designers:** Mariaelena Mallone, Roberto Mallone, Luca Pegolo

ITALIAN DESIGN LIGHTS UP STAINLESS STEEL (Il design italiano accende l'acciaio inox)

A small firm located in the outskirts of Rome has made available its technological expertise in the field of electroluminescence. The company can rely on the cooperation of Ely Rozenberg, a design manager, who has perceived new use opportunities for this form of lighting in an original symbiosis with glass and stainless steel. The latest novelty in the lighting industry is represented, indeed, by a luminous film capable to emit light under the action of an electric field. As soon as they are connected to an electric field, these electroconductive films light up and turn into luminous surfaces of different sizes. The first line of products, called "Luxcing", was released in 2007 on the occasion of the Milan Furniture Fair. This collection includes now several design products, the most innovative of which is undoubtedly the table "Ragno" (Spider). The structure of this table is made of 4 mm thick, laser-cut, EN 1.4301 (AISI 304) stainless steel. The laser-cutting technology perfectly lends itself to the manufacturing of small-medium size production lots, and at the same time, stainless steel turns out to be an excellent material for creating glass-supporting structures. Style and design combine in a delicate, almost invisible, way to create spectacularly luminous effects.

Design: Ely Rozenberg - Via Dei Sabelli 215 - I-00185 Roma, phone/fax +39 06 93931433, elyrozenberg@gmail.com / **Laser-cutting process:** Meccanica 3D - Via Cancelliera - I-00040 Ariccia, Roma, phone +39 06 9343465

PAGE 12

SILVER ICE® STAINLESS STEEL FOR LIFTS: ANTI-FINGERPRINT AND ABRASION RESISTANT (L'acciaio inox Silver Ice® per ascensori: resistenza alle impronte e all'abrasione)

Due to its aesthetical properties and its typical corrosion resistance, stainless steel is a particularly suitable material for applications in the sector of lift and elevator elements and fittings. Stainless steel can be supplied in different kinds of finish, whether with polished or matt surfaces, which allow characterizing any kind of space with striking aesthetical effects. Among today's available stainless steel finishing processes, Silver Ice® combines the typical characteristics of a stainless steel base, such as corrosion resistance and durability, with the application advantages provided by organic coatings.

The Silver Ice® coating, in fact, protects stainless steel from finger-marks, and preserves the quality and the elegance of this material over time. Being particularly abrasion and scratch resistant, this special coating makes cleaning operations easier, thanks to the possibility to be dry-cleaned with no need to use chemical products. The typical properties of the stainless steel base combined with the advantages resulting from this clear coating, make Silver Ice®-finished stainless steel the ideal material in the production of the various elements of lifts and elevators, such as, for example, cars, doors, push-button panels. Doors are the first elements with which users come into contact, and reflect the overall conditions, the cleanliness, and the image of the plant itself. Attention to their aesthetical aspect, their elegance and design plays an essential role in ensuring and enhancing users' perception of an inviting and comfortable space. Among the manufacturers of lift doors, we wish to focus on an international group, a leader in this sector, which makes use of stainless steel in the construction of automatic doors for lifts suitable for any installation in which elegance and quality in details are required, where high technology perfectly combines with avant-garde design. In lifts, where all surfaces are particularly exposed and continuously touched by the hands of the passengers, finger-marks represent a real problem for both lift manufacturers and users. The use of Silver Ice® stainless steel, compared to plain uncoated stainless steel, is anti-fingerprint, offering the additional advantages of reducing physical effort and cutting cleaning costs throughout the plant life. In addition to its anti-fingerprint properties, Silver Ice® is characterized by an excellent resistance to scratches and abrasions.

Users: ILC Srl - Via Alessandri 17/19 - I-20013 Magenta MI, phone +39 02 97295114, fax +39 02 97295310, info@ilclift.com, www.ilclift.com / ThyssenKrupp Elevator Italia S.p.A. - Piazza della Repubblica 32 - I-20124 Milano, phone +39 02 89696300, fax +39 02 89696311 / **Stainless steel supplied by:** ThyssenKrupp Acciai Speciali Terni SpA - Viale B. Brin 218 - I-05100 Terni, phone +39 0744 490282, fax +39 0744 490879, www.acciaitemi.it

PAGE 13

A DISC...UNDER "PRESSURE" (Un disco...sotto "pressione")

Expertise, know-how, a bit of creativity and three stainless steel discs: these are the "ingredients" of a new pressure-cooker line (Pict. 1) presented by a firm of Lumezzane, which is one of the leaders in this market segment. The product range includes three different sizes and capacities: 9, 7 and 5 litres. We describe here-after the different stages of the production process of the smallest one. The production of this pressure cooker starts with a 412 mm diameter, 1.2 mm thick, 2B finish stainless steel disc obtained from a cold-drawn strip. The material is EN 1.4301 (AISI 304), particularly suitable for deep forming processes, and complying both with EN 10088-2 standard and with EN 10028-7 standard, harmonized in compliance with PED (Pressure Equipment Directive).

By means of a 250 ton hydraulic press the first deep-drawing process is carried out, through which the cylindrical body (having 220 mm diameter and 12 mm height) of the cooker is obtained. This process is carried out by preliminarily greasing the disc and the mould to avoid any risk of seizure. The subsequent stage consists in a preliminary coining of the edge (Pict. 2) for the purpose of stopping the pressure-tight gasket. After having degreased this part to remove any trace of grease, the working stage begins by laser-cutting the edge for the purpose of shaping the anchoring fins of the cover (Pict. 3). Then, the thermo-diffusing bottom is welded to the body. The cooker bottom is formed by an EN 1.4016 (AISI 430) stainless steel disc and by an aluminium pad acting as a heat accumulator (Pict. 4), which are assembled by an electromagnetic induction welding station. Then, the external surface of the body is polished by a multi-stage automatic equipment and the threaded plates for clamping the handles are welded (Pict. 5). Finally, the internal surface of the cooker, which comes into contact with food, is satin-finished. As soon as the working process is completed, the finished pressure cooker is washed, controlled and sent to the warehouse. The cover is manufactured starting from a 312 mm diameter, 1.2 mm thick disc made of the same stainless steel quality as the cooker body. The working stages of the cover include the following processes: deep-drawing, carried out by a 160 ton press, and coining of the valve housings (Pict. 6), cutting of the valve housing holes and of the handle tightening screws holes (Pict. 7), coining of the bayonet coupling fins, which hold the pressure-tight gasket and anchor it to the cooker body.

The pressure cooker is then completed with other stainless steel parts, such as the locking pins of the safety cover, which are turned from a bar, and metal fittings (Pict. 8).

Design: Konstantin Grcic / **Manufacturer:** Zani Serafino di Zani Roberto & C. s.a.s. - Via Zanagnolo 17/b - I-25066 Lumezzane Gazzolo BS, phone +39 030 871861, fax +39 030 8970620, info@serafinozani.it, www.serafinozani.it

PAGE 14

STAINLESS STEEL FASTENERS: THE NEW EDITION OF EN ISO 3506 STANDARDS HAS BEEN RELEASED (Viteria e bulloneria inox: pubblicata la nuova edizione della norma EN ISO 3506)

A revised version of EN ISO 3506 standards concerning stainless steel fasteners has been published in November 2009 and it has been adopted as a national standard, in English language (UNI EN ISO 3506), in January 2010. These standards, under the common title of "Mechanical properties of corrosion-resistant stainless steel fasteners" are now divided into four parts, which deal with all the different types of mechanical fastener products.

THE "SUMMA" PROJECT - MILAN, JANUARY 27th, 2010

During the award ceremony of the "La novità dell'anno" (The novelty of the year) and "Le auto che preferisco 2010" (The cars I prefer, 2010) prizes, organized by the monthly car magazine "Quattroruote" at Palazzo Mezzanotte (the building in which the Stock Exchange of Milan is located) the project "Summa - Bella e possibile: l'auto del nuovo decennio" (Summa - Beautiful and possible: the car of the new decade) was presented. This project aims at producing a real car, as happened for the two previous projects, Sigma and Secura, launched in the early 1960s. Centro Inox is actively involved, as a technological partner, in this project, which aims at developing a new concept of frame. Additional details on the construction of this new car are reported on the magazine "Quattroruote", February 2010. Further information about this project will be published in the next issue of Inossidabile.

"METAL & STEEL EXHIBITION 2010" - CAIRO (EGYPT), FEBRUARY 18th - 20th, 2010

This exhibition has been organized by Arabian German for Exhibitions Ltd. Centro Inox has supported this event and has attended the exhibition with its own stand. Centro Inox, which participated for the first time in an international exhibition, decided to choose "Metal & Steel 2010" due to the potential prospects provided by the new markets of North Africa, and Arab countries in general. During this event, some bi-lingual banners in Italian and English reporting the list of the members and their range of products have been displayed, the list of the Centro Inox Servizi affiliated companies, as well as a presentation of the activities carried out by Centro Inox. www.metalsteel.com

PAGE 15

STAINLESS STEEL AND FOOD DEVELOPMENTS IN STANDARDS, REGULATIONS, PERFORMANCE AND EXPERIENCES (Acciaio inossidabile e alimenti - Sviluppi normativi, prestazioni ed esperienze)

Milan, Wednesday May 5th, 2010
Conference Hall - Centro Servizi di Banca Popolare di Milano - Via Massaua, 6 - Milan
9:00 - 13.15 h.

A meeting organized by: Alimenservice and Centro Inox.

The food industry has always been one of the major stainless steel consumers, in terms of market share. This meeting intends to deal with the main themes that refer to this kind of applications, in which stainless steel alloys prove to be particularly suitable and effective, thanks to their very high hygienic properties, an essential requirement for any material destined to come into contact with food. The concept of hygiene is examined in depth through some essential elements (performances, regulations and standards, planning and design), which ensure hygiene throughout the whole food production chain. Besides stainless steel alloys, the meeting will focus also on the associated regulations and standards in force, on hygienic design, on practical examples and cases. To complete the picture, the meeting will also deal with legal aspects. This topical theme is urged by several cases of fraud or non-compliance ascer-

tained on manufactured products of different origins put on the Italian market, which has always been one of the most well-thought-of and appreciated markets of the world in terms of quality as regards the products destined to the food industry.

The official language of the event will be Italian.

Programme:

- 9.00 Participants' registration
 - 9.30 Welcome address and opening of the meeting
Vito Rubino - FIESA - Alimenservice
Fausto Capelli - Managing Director, Centro Inox, Milan
 - 9.45 **Stainless Steel Types and Characteristics**
Vittorio Boneschi - Centro Inox, Milan
 - 10.15 **Hygienic and Sanitary Characteristics of Stainless Steels**
Riccardo Guidetti - Department of Agricultural Engineering - Università degli Studi di Milano, Milan
 - 10.45 **European and Italian Regulations: Latest Developments**
Elvira Cecere - Ministry of Health, Rome - Food Safety and Nutrition Head Office
 - 11.15 Break
 - 11.45 **Frauds and Non-compliance in Components Destined to Come into Contact with Food**
Fiammetta Mora - Court of Milan
 - 12.15 **Past and Recent Experiences in the Different Areas of the Food Industry (Wine, Dairy, Drinking and Mineral Water Industries, etc.). The Life Cycle Cost Concept**
Paolo Viganò - Centro Inox, Milan
 - 12.45 Debate
 - 13.15 Closure of proceedings
- For additional information and/or applications:**
ALIMENSERVICE - info@alimenservice.it - www.alimenservice.it

"H2O - ACCADUEO" - FERRARA, MAY 19th - 21st, 2010

The Tenth International Exhibition of drinking water treatment and distribution technologies and effluent waters treatment. As in the previous editions of the Exhibition, Centro Inox will support this event and will attend it with its own stand.

On that occasion too, there will be the opportunity to introduce the member companies and their range of products (along with the Centro Inox Servizi affiliated companies) to the water industry operators. www.accadueo.com

"9th INTERNATIONAL STAINLESS & SPECIAL SUMMIT" - ROME, SEPTEMBER 7 - 9, 2010

Metal Bulletin, in cooperation with SMR, Steel & Metals Market Research, with the support of Centro Inox, will organize at the "The Westin Excelsior" hotel in Rome the event: "9th International Stainless & Special Summit". The conference will be focused on three separate themes: flat products, raw materials, and long products. In addition, a visit to the ThyssenKrupp Acciai Speciali Terni steel mill has been foreseen. www.metalbulletin.co.uk

PAGE 16

"SEGNI DI LUCE" (MARKS OF LIGHT) ... A "STAINLESS" FLASH

("Segni di Luce" ... un bagliore inossidabile)

Stainless steel plays the lead role in the exhibition of the artist Vitore Frattini, which last year was housed in the Cortile della Seta (the Silk Courtyard) of Milan, and was later moved to "Villa Recalcati". The works of this artist will be brought soon to London to be exhibited in an important museum. This exhibition gathers fifteen large stainless steel sculptures and several sketches of monumental works. Among all available materials, EN 1.4301 (AISI 304) stainless steel is the one preferred by Frattini, because it allows greater liberty, it is extremely light, versatile and resistant, and lends itself perfectly to the creation of plates, corrugated and embossed surfaces, linear elements, and can be shaped in all imaginable forms. Among the numerous works created by this artist, particularly significant is the sculpture entitled "Grande V" (The Large V) made in 2002 for the Malpensa airport of Milan. Extremely striking is, in this work, the double engineering quotation put into concrete form. The first one recalls the tensostructure of the platforms of access to the airport interpreting their statics, and the second one represents the fairing of aircrafts making use of the same rivets for assembling the metal. Vitore Frattini made his public debut in 1960 and today is considered one of the very few artists in the Italian art scene who are able to forge their metal works in extremely light and dynamic shapes giving them "stainless" flashes.

Works: Vittore Frattini, www.vittorefrattini.it - *For further information on sculptures:* Museo Lisar - Via Boccaccio 68/72 - I-22070 Carbonate CO, phone +39 0331 836111, museolisar@lisar.it - *For further information on glass works and paintings:* Max Frattini, max@frattiniasociati.it / *The latest works have been made at the workshop:* Lisar SpA - Via Boccaccio 68/72 - I-22070 Carbonate CO

CENTRO INOX

The Italian Stainless Steel Development Association
Piazza Velasca, 10 - 20122 Milano - Italy
Telephone +39 02 86450559 -
+39 02 86450569
Fax +39 02 860986
redazione.inossidabile@centroinox.it -
www.centroinox.it

