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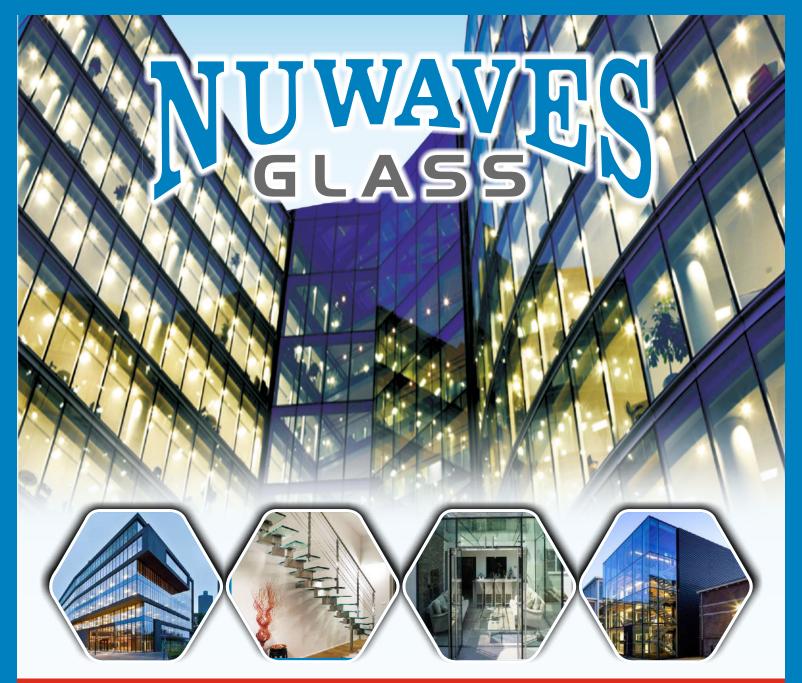
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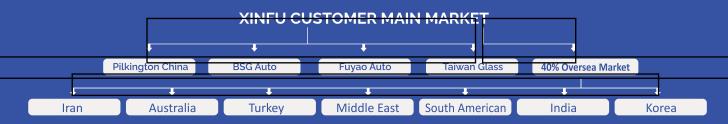
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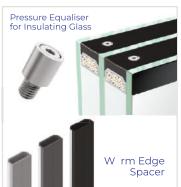


























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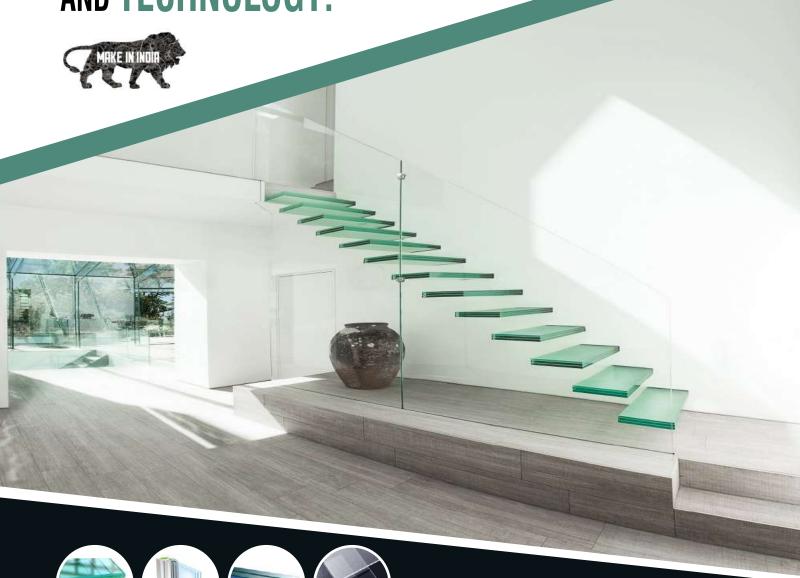
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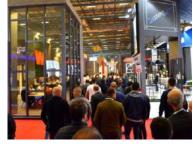
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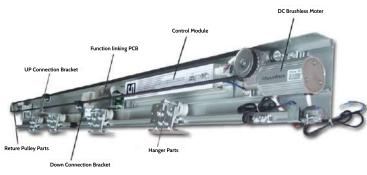














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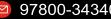


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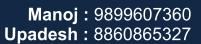
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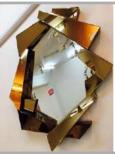
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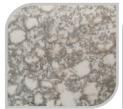








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EVENTS

The 20th edition of ZAK GLASS TECHNOLOGY EXPO 2023, one was a grand success and emerged as one of the most trusted and popular platform for those who deal in this sector. The participants of this exhibition are well aware fo its importance and wide reach because of which a high number of companies participated with full enthusiasm this year. People from around the world showed great enthusiasm and made the event a grand success. The expo started from 23rd November to 26th November in Bombay Exhibition centre (NESCO). The number of trade visitor showed an increase of 15% which is far more than that of the last year. More than 300 Exhibitors showcased their products and services and more then 20000 visitors visited the exhibition. The visitors looked satisfied and the exhibition provided them a range of options to choose from. In fact this year was one of the most successful year in comparison to last exhibitions. It was one of the largest show which experienced a large number of visitors and exhibitors from around the world.

The main focus of the exhibition was to showcase variety of glass hardware, accessories, tools and processing machine. There were number of new and innovative products which were displayed by a variety of companies. the whole exhibition was spread in an ares of 40,000 sq meters and more than 320 companies participated from across 27 countries, there was comparative increase in European and Chinese exhibition in comparison to last year. The main a of the exhibition was to showcase all the sectors related to glass production, processing s technology on one platform. The visitors said that the exhibition has come a long way both in ter of varieties and options. The presence of market leaders and share of Indian and overseas exhibit creates number of opportunities for both the visitors and exhibitors. Indeed the exhibition served as a great platform for the development of industry and proved to be an important place for those involved in this business. The exhibition as it always, filled the glass and glazing industry with a new enthusiasm and energy.















ABOUT ZAKGLASS EXPO

Zak Glass Technology Expo is the leading glass technology trade show in India and South Asia. This show provides the glass industry a single platform to showcase their products and to get variety of options with a number of companies that relations with a humber of companies that visit the fair. The core strength of ZAK is acting as a bridge between the buyer and the seller. Every event has been a resounding success and in line with our objective of maintaining international standards in organizing high quality professionally-managed and value-added exhibition. ZAK has oragnized over 100 jewellery exhibition all over India and abroad and also organized, Second international furniture fair in Chennai.

It is one of its kind to create platform for people who are involved in variety of business to provide a single platform so as to provide them a wide opportunity for the success of their work. It also serves as the first exhibition organizer from India to organize Garmentech in Bangladesh and Sri Lanka.

Zak holds a record for organizing three international exhibitions of different Industries concurrently on same dates and now it is all again set to organize India's ever largest International Glass and Glazing Technology show at Pragati Maidan, New Delhi this year.

Zak acts as a bridge between buyers and sellers and hence creates opportunities for its exhibitors to learn new things and to remain update about every new technology which is hitting the market. In past few years the response towards this exhibition proved its acceptance among people and showed how much they are in need of such a high scale exhibition which can create better business platform at International level. It provides launch Pad for new products and innovations.

















































Leali Vetri and LiSEC - a long-term, successful partnership

Leali Vetri srl has been manufacturing insulating glass and glass for interiors since 1972. The company is based in Castiglione delle Stiviere, a town in Lombardy, and employs around 30 people. Company founder Bruno Leali passed on his passion and expertise to his son Maurizio, who continued and expanded the business, moving it to a larger factory in 1986. Back then, the company had already earned an excellent reputation for quality, experience and reliability in the installation of art glass. 1990 saw the

company start to manufacture thermal insulation windows with triple insulating glass, which was enjoying high demand in the construction sector. In 2010, Leali Vetri srl (with one partner) built a new company headquarters with state-of-the-art technology for the production of glass products that satisfy the market requirements for sustainable construction. Looking to the future, Leali Vetri has now acquired a LiSEC TPA line for the manufacture of thermoplastic spacers.



FOR LEALI VETRI, THE KEY TO SUCCESS LIES IN LOCAL BUSINESS

The company strives to offer its customers – including construction companies, window manufacturers and interior designers – high-quality service. Leali Vetri supports its customers in the selection, production and installation of products using leading edge materials and solutions. The Italian company focuses on the local market and sells its products within a radius of 300 kilometres of its headquarters. As proprietor Maurizio Leali explains: "This enables us to offer our customers unbeatable after-sales service, because we are able to process inquiries quickly and efficiently. Our

main business is the manufacture of thermal insulation glass and glass for construction projects, which accounts for 80% of our turnover, while the remaining 20% is generated by the sale of glass for indoor use. We value the feedback and satisfaction of our customers and we are always ready to respond to their needs and expectations. We are also open to new opportunities and challenges because we are constantly working to expand our customer base and increase our market share." For Leali Vetri, when it comes to the company's products, quality is more important than quantity. Automation is essential to remaining competitive in a constantly changing market, which is why Leali Vetri endeavours to automate the majority of its processes.





LEALI VETRI AND LISEC : A LONG-TERM, SUCCESSFUL PARTNERSHIP

Cooperation with LiSEC began back in 2000 with the procurement of a semi-automatic butyl extruder for rigid frame spacers (LBH-25V) and an automatic filling machine for desiccants (A1RL). Over the years, Leali Vetri has been more than satisfied with the durability and high quality of the LiSEC products used in the

Castiglione delle Stiviere plant. The LiSEC VL-1N sealing machine acquired in 2002, for example, remains efficient after more than 20 years in use. For Leali Vetri, LiSEC is an innovative, competent and reliable partner that contributes to increasing productivity, improving competitive advantages and reducing operating costs. In 2022, Leali Vetri srl acquired the innovative LiSEC FlyOver gantry loading system, which covers an automated warehouse with around 100 items. Due to the design of the suction bridge, the system can move diagonally above the glass storage racks when empty. Once a coated sheet has been unloaded, the suction bridge can immediately move towards the next glass storage rack and the loader can be tilted down instantly. This process allows minimum cycle times, as the suction bridge does not have to move out from in between the racks after each cycle. Following this acquisition, a combined glass cutting line with a 6-metre bridge was also purchased.

The Italian company additionally appreciates the good collaboration with the sales representative, who arranged for them to witness a LiSEC TPA line in action before considering an investment.



NEW TO THE PRODUCT RANGE IN 2024 : INSULATING GLASS UNITS MANUFACTURED ON A LISEC TPA LINE

"We believe that the thermoplastic spacer is the product that the market and customers need, especially when it comes to environmental impact. The greatest advantage of this technology is the reduction in resources realised at every level. Less material is required to produce the spacer, waste is reduced and storage requirements are lower. Furthermore, the performance of thermoplastic spacers is better than that of conventional spacers," explains Leali Vetri's Managing Director.



The company has invested in a LiSEC-TPA line capable of processing shapes and quadruple insulating glass in order to facilitate production of thermal insulation windows with thermoplastic spacers from the beginning of 2024. This line consists of the LiSEC KSD-A, VHW-F, RSVN, TPA-A, FPS-A and VFL-1F. The KSD-A from LiSEC is currently the fastest

vertical seaming and grinding machine with peripheral discs for glass edge processing available on the market. The VHW-F washing machine ensures that the glass is cleaned before being transported to the frame assembly station with inspection station (RSVN), which recognises impurities and glass defects. The TPA-A ensures seamless application of the thermoplastic spacer with optimised cycle times. The glass sheets are then transported to the FPS-A gas filling press, where they are pressed into insulating glass units. The final station in the Leali Vetri line is the VFL-1F, a fully automatic sealing robot that guarantees the highest quality corners



The entire line is controlled by LiSEC software. LiSEC Line Management enables the production of complete orders with different insulating glass combinations in a single step, while the line also has information on steps and shapes. The GPS.perfectscan quality scanner monitors each individual glass sheet and insulating glass unit for visible defects, resulting in higher product quality.

ELITE Glass Emporium



Tim Widner Shares Insights on Glaston Machinery at Lippert Components

Tim Widner at Lippert Components in the US is sharing his and his team's experiences working with the Glaston glass processing machinery.

Glaston was our first stop. We consider Glaston to be a one-stop shop service provider. Now that they've added integrated cut-break-grinding cells and the ability to batch and load through the furnace, we really didn't look anywhere else other than a washer for where to get our equipment.

The new equipment has been a great addition to us. We are able to one-piece flow our raw material through our line, hands-free. No humans come in contact with the glass until it is fully tempered

and at the end of the process." processing line has made it possible to automate a large part and production is now significantly faster and more efficient." He adds: "We have also been able to build up know-how in the operation of the systron proHD over the last few years. Moreover we are also very satisfied with the smooth operation and consistently top quality of the processed glass."



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EURASIA DOOR, EURASIA GLASS AND EURASIA WINDOW FAIRS



The Center of the Construction Industry Supply Chain

Organized by RX Tüyap in collaboration with the Window and Door Sector Association (PÜKAD), Window Producers Quality League Association (PÜKAB), and Entrepreneur Aluminum Industrialists and Businesspeople Association (GALSİAD), the leading specialized fairs in Eurasia, Eurasia Door, Eurasia Glass, and Eurasia Window Fairs, set to visitors at the Tüyap Fair and Congress Center in Istanbul from November 16 to 19, 2024.

These trade fairs, which play a crucial role as a supply center for the construction industry, with the distinction of being the second largest trade event in the world and the largest in the Eurasian region, bring together leading manufacturing companies with buyers from a wide region, particularly Europe, the Middle East, Central Asia, as well as North Africa. On the other hand, exhibiting companies can launch new products and establish new business collaborations during the fair.

3 Fairs Under One Roof:

Simultaneously organized, the 25th Eurasia Window, 16th Eurasia Door, and 14th Eurasia Glass Fairs present complementary solutions of the three industries under one roof, offering a wide range of products. Visitors will have the chance to explore the products and solutions of hundreds of exhibiting companies firsthand, creating new business connections

Tailored Made Solutions for All Needs Await Fair Visitors

At the 25th edition of the Eurasia Window Fair, visitors will meet with the most suitable and reliable suppliers and brands representing thousands of products. The fair will showcase window products, window profiles and processing solutions, window mechanisms, profile processing and window manufacturing machines, auxiliary equipment, window systems, shutters, complementary products, raw materials, facade and insulation systems, and an Aluminum Special Section that include aluminum windows, profiles, facade systems, aluminum accessories, and production machinery. In addition to that in the Shading Special Section, exhibitors will exhibit their products in the areas of roller blinds, tents, awnings, gazebos, and winter garden systems for four days.

At the 16th Eurasia Door Fair, door products, PVC, shutters, panels, partitions, door accessories, and door technology manufacturers will introduce their products and services to the fairgoers. The 14th Eurasia Glass Fair will bring together industry professionals with glass products and applications, production-processing technologies, and machines, as well as complementary products and chemicals.

Record Participation in 2023

In 2023, the fairs, broke a record with the participation of 620 companies and company representatives in the entire 120,000 square meters of exhibition space, hosted a total of 56,398 industry professionals, including 12,988 international visitors from 122 countries and 43,419 visitors from Türkiye. Berkan Öner,

General Manager of RX Tüyap, noted that this record interest reflects the magnificence of the industry.

"Eurasia Door, Glass, and Window Fairs : Supply Center for the Construction Industry"

Continuing to emphasize the importance of the fairs for the construction industry, Mr. Öner stated, "Eurasia Door, Eurasia Window, and Eurasia Glass Fairs undertake the role of a comprehensive business hub for domestic and international companies, bringing together three industries. Especially due to their contributions to the supply chain in the construction industry, our trade shows hold a significant position in the global trade volume of all three industries. Türkiye is known as one of the leading countries in the world in the door, glass, and window sectors. As RX Tüyap we are working tirelessly to consolidate this strong position and contribute to these industries' global goals. We have already started preparations for our next events on November 16-19. Our aim and belief are that we will close our fairs with record visitor numbers and a high trade volume."

Free Fair Tickets:

For those who want to experience the newest products, technologies, and services on-site, tickets for all three fairs are free of charge until August 16, 2024. It is possible to visit all three fairs with a single ticket obtained from the fairs'

websites at

- 1. eurasiadoorfair.com
- 2. eurasiawindowfair.com
- 3. eurasiaglassfair.com.



NGA Glass Conference Kicks Off in Isle of Palms, South Carolina

About 100 technical and advocacy leaders in glass are gathered in South Carolina this week for the NGA Glass Conference: Isle of Palms | Charleston. The event runs through Feb. 8, and includes meetings for the NGA Advocacy, Fabricating and Forming Committees.

Other highlights include a comprehensive look at new codes and standards, an update on U.S. Department of Energy Collaborations and a panel discussion on spandrel glass. The conference also includes a planning and practice session for the NGA's third annual Glass & Glazing

Advocacy Days, scheduled for May 14-15 in Washington, D.C.

Closing out the NGA Glass Conference will be a Laminating Workshop: Past, Present and Future of Laminated Glass Qualification. Recent changes to the Safety Glazing Certification Council laminated glass certification requirements will lead to an evolution in the nomenclature and shorthand used for describing and specifying laminated glass units. Attendees will gain a brief overview of laminated glass applications and how they relate to safety glazing.

HEGLA at Fensterbau Frontale: People in focus

At the Fensterbau Frontale trade fair in Nuremberg, people are the focus for HEGLA and HEGLA boraident. You will find HEGLA in Hall 3a, Booth 103.

The companies are presenting solutions at their booth that make work easier for employees, provide a high level of safety, and improve efficiency.

Transport glass and windows safely

To represent the options for converting a vehicle into a glass-industry vehicle, HEGLA is exhibiting a Renault Master. An exterior rack alone promises benefits: fitters can ergonomically set the glass, window or structural element down on the rack without having to enter the interior or lift the load accordingly. Anti-slip, solid rubber profiles protect the surfaces of the load and enable professional transport. The load is secured by height-adjustable slat bars that save time. If even more support is required, the

two lashing rails (standard equipment) provide greater security.

If additional rack positions are necessary for multiple orders, for example, HEGLA recommends a conversion with an interior rack with a folding horizontal support. If the load is particularly sensitive to damage, it will be protected against damage from stones and rain there. And when the loading position is no longer needed, the horizontal support can be folded upwards to free up the maximum width of the loading space. To make a good first impression on glass customers, Marc-Alexander Stachel from HEGLA Fahrzeugbau recommends a tool cabinet system: "Everything has its place in the system; the delivery van is tidy, and even alternating teams know that all materials are safely stowed away and easy to find "



For Fensterbau Frontale, HEGLA is offering a limited edition: ready-to-ship Renault Masters equipped for the glass-industry at a special price. And in line with the football event, an event rack that can be removed from the vehicle and, with the supplied holder, used as a mobile shooting goal is also on offer.



Robust, intuitive lifting technology for glass and windows

Despite the general progress, manual handling is still part of the everyday routine in glass companies. "To ensure a high level of safety, vacuum devices must have intuitive controls and be robust." said Holger Brechtelsbauer from HEGLA in Kretzschau. "We cannot change the weight and material properties of glass, which is why we must create conditions that support human employees and provide them with the necessary protective mechanisms." At Fensterbau Frontale, a pillar-guided device in the Isofix series that achieves high motion safety in all processes, thus relieving employees, will be exhibited. The individual suction devices are ejectorcontrolled and maintain the vacuum, even if not all positions are in use. If, despite the highest level of quality, low-maintenance technology and professional handling, the emergency situation of a pressure drop does occur, the devices are safeguarded such that enough time to set down the glass or window remains. Further, HEGLA is also showing the advanced devices in the Hubfix series, which feature pneumatic interlocking of rotational movement to simplify operation.



Profile diversity and direct access in long goods storage

Both profile diversity and the number of different customer requirements are growing. The compact storage system for long goods from HEGLA can help here in two ways: first, the individual types have a tidy storage space that provides direct access. Second, the system saves storage area, which in turn is available for either more profiles or other tasks. The long goods pallets are kept ready in space-saving cantilever arm shelves on rails, which are arranged next to each other without any gaps. Agap for handling does not open until a pallet needs to be removed or stored. "With this system, storage capacity increases by up to 50 percent," explained Florian Laue from the HEGLA centre of excellence for long lengths. "It enables time-saving access to all material without re-stacking, and even makes front removal possible."



With laser marking from HEGLA boraident, doors and windows are now digital! Once the high-resolution marking is applied to the profile, the profile can be clearly identified at any time. Via scan, employees can access production data, track properties or generate a re-order in production, in shipping, or at the construction site, for example. Depending on scanner integration into the production process, extensive integration that enables triggering processing steps, tracking them and more is possible. "A clear marking with a QR or data matrix code creates a permanent connection between the profile and digital information," said Dr Thomas Rainer from HEGLA boraident. "From writing the delivery slip via scan and acknowledging delivery on site, to documentation of who supplied the structural element for large-scale projects: many digital applications are possible."



Greater value creation with laser finishing to create bird protection glass and RF-transparent glass

The specialist from Halle/Saale has a second major theme at the trade fair. The company offers different systems and lines for laser finishing with which single panes or finished IGUs can be subsequently upgraded with an additional function. Thanks to coating transformation or printing, it is possible to create bird protection glass, RFtransparent glass or, for example, a heatable pane. "Our customers benefit from the option to finish standard products without retooling time for a batch size of one, and create more value in the process. The competition for customers and market share is heating up, and we have created a product benefit here that generates higher income and makes companies flexible," said Thomas Rainer.

"We look forward to Fensterbau Frontale and the gathering of the glass industry there," added Managing Director Bernhard Hötger of the HEGLA Group. "With our focus on the people in companies, we want to send an important signal and honour their work." The trade fair in Nuremberg is also a key place for exchanging information on trends, visions and the future of the glass industry.





Energy Efficient Insulated Windows with ENERGY STAR® 7.0 requirements

Energy Star, a trusted symbol for energy efficiency, extends its influence on windows, offering consumers a reliable benchmark for making environmentally conscious choices.

In the pursuit of sustainable and energy-efficient living, selecting the right windows for your home is crucial. Energy Star, a trusted symbol for energy efficiency, extends its influence on windows, offering consumers a reliable benchmark for making environmentally conscious choices. Therefore, it is important that companies follow the Energy Star requirements in their production to leverage energy efficient insulated windows.

Understanding Energy Star Rating:

Energy Star-rated windows are designed to meet energy efficiency guidelines set by the U.S. Environmental Protection

Agency (EPA). These guidelines consider factors such as U-factor, solar heat gain, and air leakage. By opting for windows with the Energy Star label, homeowners can significantly reduce energy consumption, lower utility bills, and decrease their carbon footprint.

Key Features of Energy Star Rated Insulating Windows

Enhanced Insulation: Energy Star-rated windows are equipped with advanced insulation technologies, such as low-emissivity (Low-E) coatings and multiple glazing layers. These features help in minimizing heat transfer, keeping homes cooler in the summer and warmer in the winter.

UV Protection: The windows are designed to block harmful ultraviolet (UV) rays, not only safeguarding your furniture

and flooring from fading but also contributing to a more comfortable indoor environment.

Reduced Air Leakage: Properly sealed Energy Star windows significantly reduce air leakage outside in, and inside out, preventing drafts and ensuring a more consistent indoor temperature. This feature enhances comfort while lowering the workload on heating and cooling systems.

Solar Heat Gain Control: Energy Starrated windows are optimized to control solar heat gain, allowing natural light to enter while minimizing heat transfer. This balance ensures a well-lit and comfortable living space without excessive energy consumption.

How Does Insulating Gas Concentration Relate to Energy Star?

Thermal Insulation: The insulating gases, such as argon or krypton, are denser than air. When these gases are sealed between windowpanes, they reduce heat transfer through the window. This helps to improve the window's U-value, which is a measure of how well a window insulates. Lower U-values indicate better insulation.

Energy Star Requirements: Energy Star sets criteria for U-values that windows must meet to qualify for the label. The use of insulating gases is one of the factors considered in meeting these criteria. Windows with a lower U-value, achieved in part by insulating gases, are more likely to meet the Energy Star requirements.

Climate Zone Considerations: In different climate zones, the concentration of insulating gases might be adjusted to optimize energy efficiency. For example, in colder climates, a higher concentration of insulating gas may be used to enhance thermal performance.

Comfort and Energy Savings: Windows with proper insulating gas concentrations contribute to a more comfortable indoor environment by minimizing heat loss in the winter and heat gain in the summer. This, in turn, can lead to energy savings as the heating and cooling systems have to work less to maintain a consistent indoor temperature.

READ SPARKLIKE DISTRIBUTOR GED INTEGRATED SOLUTION'S BLOG POST ENERGY STAR® 7.0 MAKING INTELLIGENT DESIGN DECISIONS

Conclusion

Investing in Energy Star-rated insulating windows is a proactive step toward a more energy-efficient and environmentally conscious building. When looking for Energy Star-rated windows, it's not only the U-value that matters but also the specific features of the window construction, including the type and concentration of insulating gases used. Manufacturers of Energy Star-rated windows provide details on the window specifications, including the presence and concentration of insulating gases. By prioritizing these windows, homeowners not only enjoy the immediate benefits of lower utility bills and increased comfort but also contribute to a greener and more sustainable future. Therefore, following the Energy Star requirements is crucial to make energy efficient insulated windows.

Saint-Gobain Hardware Solutions and SS Glass Industries

Organized a knowledge full meet regarding the future of Glass Hardware Solutions

A well-known, reputed, reputable and progressive firm of Kanjhawala, Delhi, S. S. Glass Industries, which has been engaged in the manufacturing of glass putty for the last 23 years, is moving on the path of progress.

The supply of glass putty manufactured by the said firm is going to North India. It is to be known that even though the trend of glass putty has reduced at present, 'Super Fix' and 'Royal' brand glass putty have become firmly established in their field of business on the basis of their quality. Nowadays, silicone has taken over glass putty to a great extent, but glass putty manufacturers in any country are based on their best grade is the result of quality and high level reputation. Putty is mostly used for fixing glass in steel, wooden windows and glazing.

M/s S.S. Glass Industries, During his business tenure, Mr. Dinesh Singh, 43 year old proprietor of Glass Industries, has created such a special place for himself in the glass putty industry on the basis of tireless hard work, true dedication towards work, sweet behavior and honesty that very few businessmen can do so. Are capable of. In human life, be it job or business, along with work, speech and behavior is also required. Shri Dinesh Singh was filled with all these qualities.

And due to these qualities, he is making every effort to take his business towards the pinnacle. The said firm, along with glass putty manufacturing, also deals in Saint-Gobain architectural hardware and acts as an authorized distributor only in NCR, and is also a major manufacturer of Conway mirrors (rear view). It earns huge amounts and supplies it all over the country as per the demand and also has a dealership in Delhi market for the sale of Alstone ACP products.











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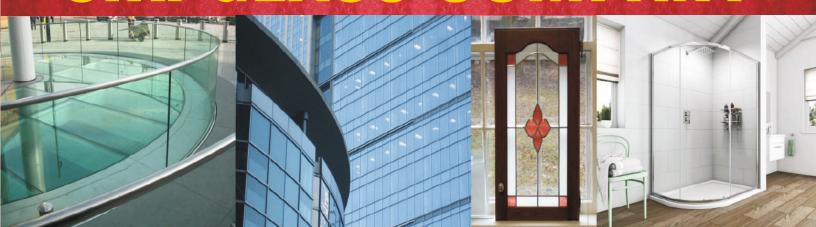
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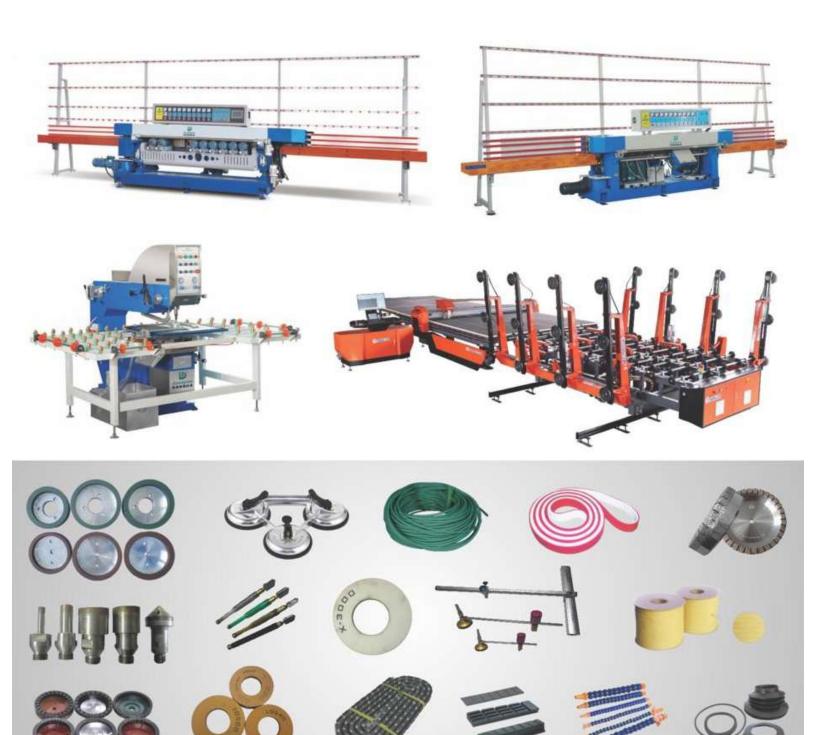


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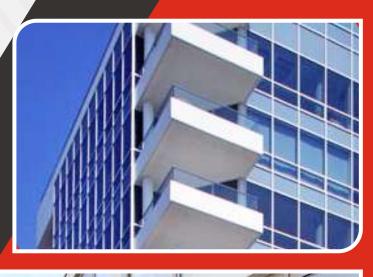
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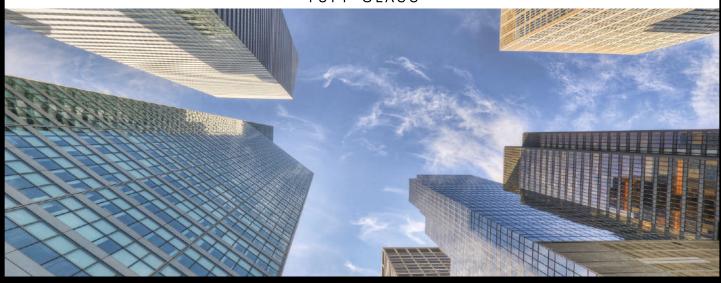
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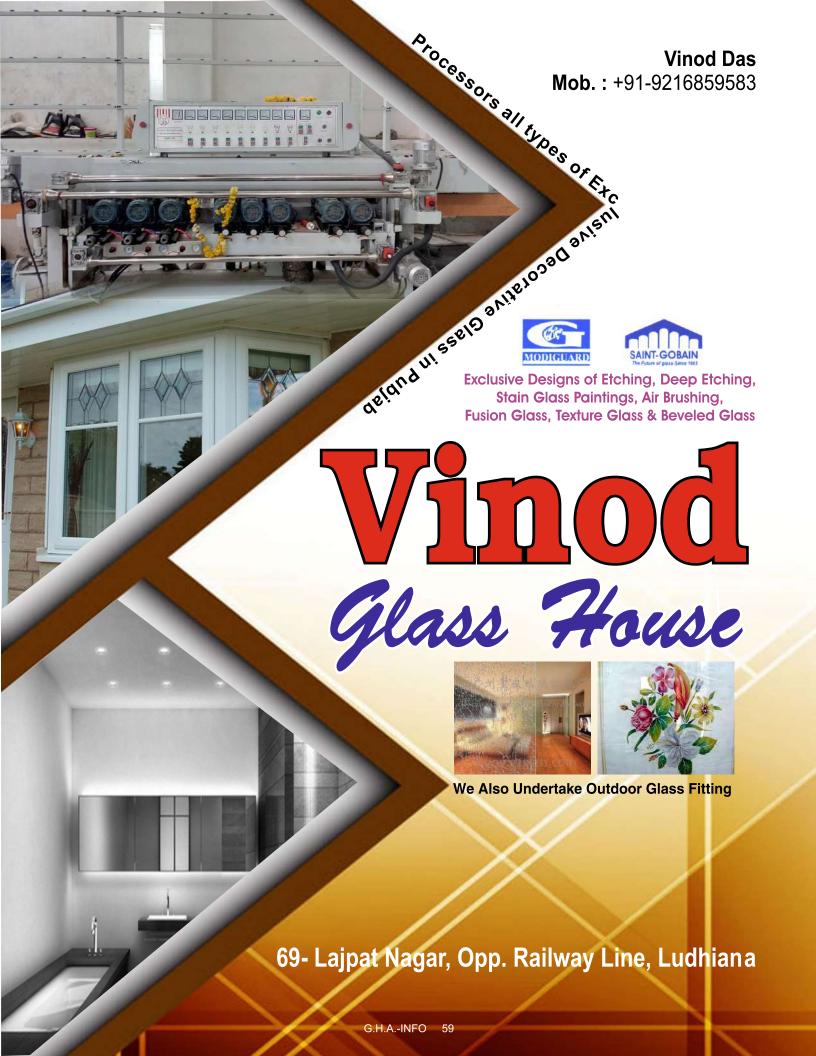
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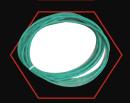


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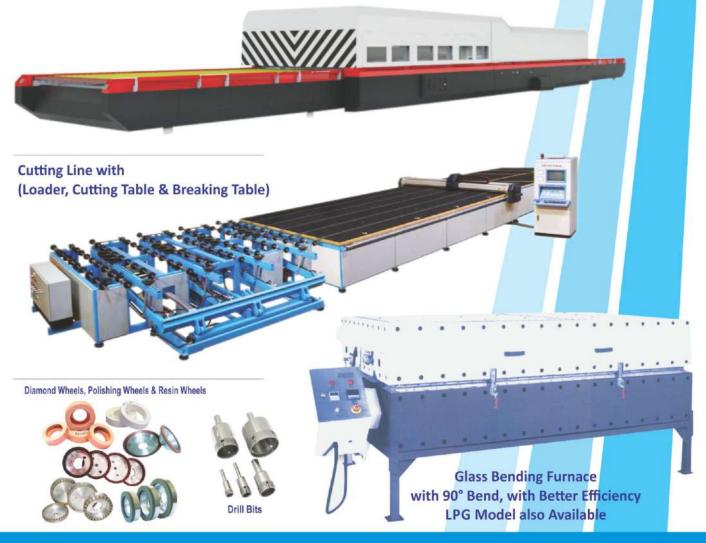


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Available in :

OPAQUE • TRANSPARENT • METALLIC
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For Glass and Ceramic

Two pack coating with a ratio of 4 : 1.
Used as a pre-coat of digital printing
on glass and ceramic





Transform Clear Glass closest to MirrorIdeal for Glass Designing

Recommended for designing
Apply 3 coats with spray gun at low pressure
Black back paint after 5 hours of coating



Frosting Effect Coating

SEMI-TRANSPARENT FINISH

Creates a frosted glass finish with direct application on Glass

Two pack solvent based system to replace acid frosting. Tinter can be added to get different colour.





Coating with Extra Whiteness

To achieve more whiteness on normal glass



UV Glass Adhesive

Commercial for small Glass to Glass

SH 110 - For sticking Glass to Glass
SH 128 - For sticking Glass to Meta

SH 128 - For sticking Glass to Metal
SH 133 - Edge to surface of Glass

Gel - Thicker Glue



AIR BRUSH GLASS COLOURS

Available in one pack base which should be brushed without adding any type of thinner to get sand blasting effect for colours Gold and Silver.

1 part ratio and 2 part base tinter. Ready colour for Sand Blasted effect.



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Can be applied with cloth.
Thinnest coating recommended.

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Phoenix-2615
Horizontal CNC Work Center Machine

Product Highlights:

- Vertical Glass Straight Line Edging Machine
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- Horizontal Glass Washing Machine
- Horizontal Glass Drilling Machine
- Waterjet Cutting Machine
- Horizontal/Vertical Glass Sand Blasting Machine
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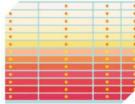
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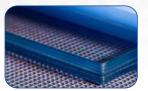
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Roll/ Length (mtr)	50 / 100 / 150 M
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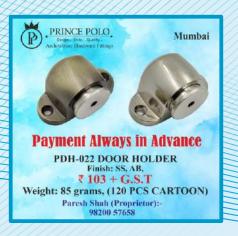
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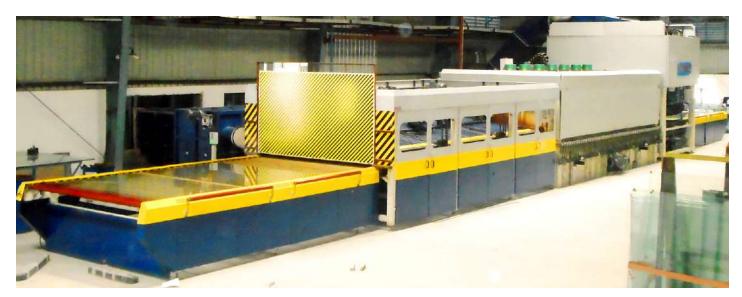




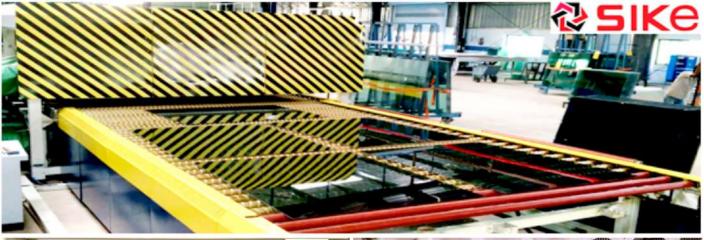
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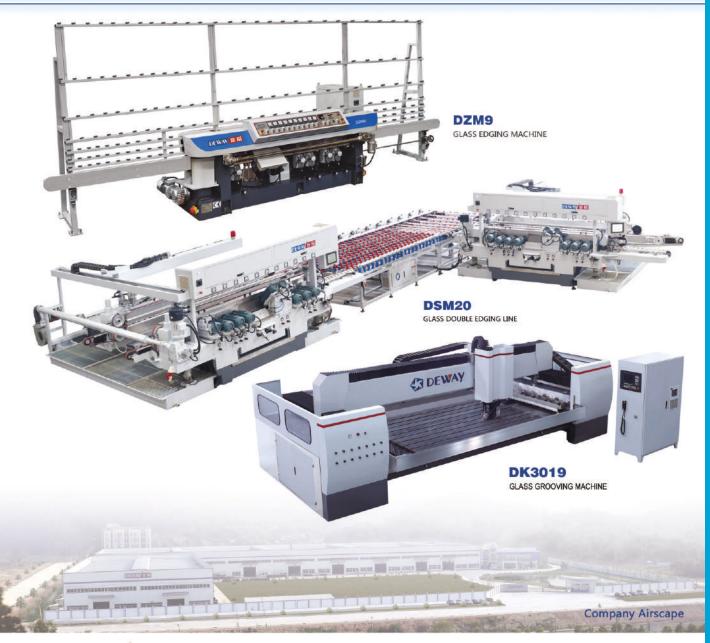
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