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glass WORLDWIDE

Exclusive interviews with HNG, La Opala, Phoenicia, SGD & Verallia, spotlights on Eastern Europe, Germany & India + latest technology & glasstec review

From raw material intake to batch charging



Glass is our Passion

BATCH AND CULLET
TREATMENT SYSTEMS
FOR THE GLASS INDUSTRY

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Thank you!

As 2018 draws to a close, the *Glass Worldwide* team offers its sincere thanks to the following companies for their recent advertising support (see page 124 for an index to advertisers in this issue). Their backing has enabled us to publish more content in the past 12 months than ever before, further establishing *Glass Worldwide* as the leading bi-monthly title for all sectors and regions of the international glass industry. We look forward to continuing to promote the latest technology innovations to our global readership in 2019. If you are a supplier of machinery, raw materials or services then advertising in *Glass Worldwide* and the *Who's Who / Annual Review* yearbook will ensure that your sales message is presented to existing and potential customers around the world.

We also extend our warm thanks to our subscribers, editorial contributors, industry associations and event organisers for their support this year.

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Survey shows *Glass Worldwide* to be the most useful magazine...

In 2018, *Glass Worldwide* conducted an international survey of manufacturers and processors of hollow, flat and speciality glass. Senior management and factory personnel with purchasing influence responded from a total of 24 different countries in Africa, Asia, Europe, Indian sub-continent, the Middle East, Oceania, North America and South America.

Results showed:

- More respondents found *Glass Worldwide* to be useful compared to any other competitive magazine (In fact, 100% of respondents found *Glass Worldwide* useful... 37% higher than the nearest competitor!).
- 78% of respondents confirmed that the editorial and advertising content in *Glass Worldwide* and *Who's Who / Annual Review* yearbook directly influences their selection of products and services.

For more details on the survey and how you can take advantage, request your 2019 media information now at www.glassworldwide.co.uk or contact one of the team for a customised proposal.



media systems for the automotive, decorative glass and ceramics industries. Including enamels, technical glass materials, precious metal inks, conductive inks and automotive enamels, the extensive product portfolio offered visitors decorating solutions that meet the most exacting physical and technical demands of the tableware and other glass industries.

JSJ Jodeit showed visitors its wide range of glass production equipment and technologies. The company's core competence lies in the development, planning and erection of tailor-made melting furnaces for specific glass compositions. In particular, JSJ turns its attention to providing complete plants. For example, its engineers have the capability to provide a complete production plant and technological knowhow for glass melting and tube forming from a single source.

A second important field of activity involves heat treatment equipment and special machinery. Based on decades of practical experience and countless reference plants, JSJ is able to supply state-of-the-art belt, spindle type or rim tempering lines and machines, special casting machines and complete plants for chemical strengthening of glass.

Kibing showed samples from its own float glass lines, as well as processed glass showing edge work, lamination and silk screen printing capabilities.

Kissel+Wolf highlighted KIWOMASK IJ 7312/2 VP, an inkjet-compatible sputter resist for decorative sputter coating of architectural glass. The resist is applied to the surface to be coated using a flat bed digital printer for solvent inks. In addition, the company focused on special adhesives and screen-making chemicals.

Klöpfer Maschinentechnik promoted its involvement in the production of flat glass processing plants and machinery, including system definition, planning, design, implementation and commissioning. With its longstanding expertise in engineering plants for the glass industry, the company also offers efficient plants for solar cell manufacture.

Koenig & Bauer Kammann GmbH, a German engineering company with an established tradition for quality and more than 60 years' experience in the development and manufacture of printing and finishing machines, showcased its solutions for

screen and digital printing. Visitors to the stand learnt that the addition of digital alongside screen technology in the same portfolio allows Koenig & Bauer Kammann to offer more solutions to customers who recognise the possibilities of combined machines and equipment that can be used for screen and digital decoration.

KTG Engineering, part of the TECO Group, promoted such products and services as electrode holders, boost, bubbler, level control and controllable drain systems, spy hole covers, screw batch chargers, molybdenum/tin oxide electrodes and installation services.

Lahti Precision exhibited as a leading supplier of batch plants, cullet recycling systems, waste fibre glass recycling systems, engineering studies and plant construction.

Linn High Therm promoted custom-made production of electrically heated furnaces and kilns.

Innovations highlighted on the extensive **LiSEC** display focused on the areas of glass cutting, glass processing, flat glass lamination and insulating glass production. Based on the slogan 'we innovate for your success', the Austrian solution provider for the flat glass processing market showed how the LiSEC team actively applies its expertise and introduces innovations to promote the success of customers. Products presented included a high performance machine for automatically cutting flat glass (SprintCut), a high performance machine for automatically cutting laminated glass (VSL-A37/33), a flat glass processing line with water jet technology (SplitFin: EPS and MRX-B Water Jet), a laminating machine featuring a high pressure autoclave (ConvectLam 2), an automatic butyl extruder for solid spacers (LBH-B25ARS) and a bending machine for 'sharp' corners (BSV-B45NK).

With a team experienced in all types of glass furnaces, **Lizmontagens Group** promoted its complete scope of services for the glass industry, including the construction and repair of industrial furnaces, total refractory installation, steelwork installation and manufacturing, project management of turnkey projects, procurement and supply of refractory and insulating materials, furnace cool down control, hot sealing and insulation installation and technical appraisals.

Lüscher specialises in the development and manufacture of

mechanical and electronic solutions for offset, flexo and letterpress applications. Appropriate modular and market-oriented customer solutions are provided.

LWN Lufttechnik exhibited as a leading supplier of innovative cooling systems for the glass industry. Highlights included cooling systems for IS machines, glass furnaces and glass processing, as well as system components and automatic control systems. The team offered expertise in consultation and needs analysis, planning, preparation, production and assembly.

Mappi exhibited the efficient and user-friendly ATS 4.0 flat glass tempering furnace. Thanks to the GHBS extreme convection system, this equipment maximises the production cycle by modulating the air pressure separately in individual zones, with up to 20% energy savings. It also simplifies startup operations, with only one hour needed to become operational after machine start, allowing for cost savings of up to 50%. Furthermore, Mappi's TAB SERVICE ensures continuous online assistance globally.



One of Marabu's highlights was its single-component ink system Mara Tech MGO for glass and metal.

A series of ink solutions for the glass industry were presented by **Marabu**, including screen, digital and pad printing. The company unveiled two screen printing inks and delivered a broad range of products for the traditional printing of bottles, drinking glasses, fragrance bottles and flat glass. Highlights included the Mara Tech MGO single component ink system for glass and metal. This baking ink can be used for both screen and pad printing and can be deployed in a wide variety of scenarios. UV-curable and solvent-based screen printing inks were presented, including Ultra Glass UVGL and Mara Glass MGL for printing on glass touchscreens and touchpads. Moreover, the company has developed the two-component Mara Glass MGLA for printing on second surfaces, ie on the back of the substrate, primarily employed for outdoor applications. Among a diverse portfolio of products, attention was also drawn to the broad range of applications for UV-curable digital direct printing, with Marabu's Ultra Jet DUV-C suitable for printing diverse glasses and bottles.

Marposs showed a wide range of gauging solutions for dimensional and geometric inspection of glass products (automotive, container, flat and solar control). Highlights included the flexible Visiquick machine for dimensional and geometric inspection of glass containers on a sample basis.

A leading supplier of suspended refractory systems and related furnace equipment, **Merkle International** supplies suspended backwalls, tin bath roofs and other furnace components, as well as blanket batch chargers.

MDI Advanced Processing exhibited laser systems, cutting machines and cutting tools.

Mersen offered proven solutions for hot glass handling ▶

KOENIG & BAUER
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