

SEPTEMBER 2024

HORN NEWS

CONTENT

EXHIBITIONS 2024/2025

HORN EXPANDS INTERNATIONAL PRESENCE BY
FOUNDING SUBSIDIARY IN ROMANIA

LARGEST END FIRED FURNACE SUPPLIED BY HORN - 185.4 M²

HORN WITH A NEW MESSAGE FOR THE GLASS INDUSTRY
AT GLASSTEC

NOELLE + VON CAMPE CONTRACTS HORN FOR
FURNACE REPAIR

HORN TO SUPPLY NEW OXYFUEL FURNACE TO ODE

NEW ALL ELECTRIC FURNACE - ORDERS FOR HORN
AND JSJ JODEIT

WHAT DO YOU DO AT HORN?
INTERVIEW WITH MANUEL TAUBER

SUCCESSFUL PARTICIPATION IN THE 12TH
NORTHERN UPPER PALATINATE
CORPORATE RUN

NEW ORDERS

DEAR READERS,

the current year is entering the final spurt and our thoughts are centred on the upcoming glasstec trade fair in October as well as current furnace and turn key projects. We will show you a list of current projects in this News.

This year there are two events that give us cause for celebration. The first significant event is the founding of the new HORN subsidiary HORN ROTEC S.R.L. in Romania at the beginning of the year. With the help of the newly founded company, which focusses on taking over assembly activities for HORN in the electrical sector, HORN can expand its presence on the international market and now has subsidiaries in Germany, the Czech Republic, Slovenia, Ukraine, India, China, Malaysia, Brazil and Romania. You will find a detailed report in this News.

The second event is our participation in glasstec in Düsseldorf because 2024 is glasstec year again. From 22 to 25 October, the exhibition halls in Düsseldorf will once again be dominated by the world's leading trade fair for the glass industry. Planning for the trade fair already began last year and the final preparations are being made. HORN will once again present itself with a newly designed exhibition stand and personally welcome its valued customers, business partners and suppliers here in Germany. Alongside pioneering technologies, HORN presents its expertise and services in the project planning of turn key plants for hollow glass and float glass plants to customers and trade visitors, together



with its subsidiary JSJ Jodeit GmbH, the premium supplier of all electric furnaces.

Although inflation picked up again in May and remains stubbornly high, there is good news for the global economy. According to a forecast by the World Bank, the economy is stabilising for the first time in three years despite geopolitical tensions and high interest rates – albeit at a low level. Growth of around 2.6 per cent is expected for this year.

The order situation at HORN Glass Industries AG for this and next year also allows us to remain optimistic about the future. HORN has established itself in the glass industry as a competent and reliable partner in the container/special glass and float glass sectors and continues to endeavour to drive forward developments as well as continuously improve both products and processes. Not least thanks to our own production in Ploessberg, we guarantee the highest quality and can also respond quickly and flexibly to customer requests and customisations.

We continue to support our valued customers in the glass industry in their consistent move away from fossil fuels in order to reduce CO₂ emissions. HORN is accompanying this change, developing concepts and offering glass manufacturers the appropriate technologies to be prepared for future topics such as all electric furnaces, ideally with renewable electricity, and hydrogen hybrid furnaces. As glass plant manufacturers, we need to tackle these challenges in order to secure the prosperous future of the glass industry in the long term and make all-electric melting a more interesting solution.

The upcoming trade fairs will show where the change is heading and which technologies will prevail. HORN is prepared and offers its customers the

best possible technology so that they can continue to produce glass cost-effectively and in an environmentally friendly manner in all areas of the glass industry in the future.

I wish you all a good time and look forward to welcoming you personally at the glasstec trade fair to discuss solutions and concepts for the challenges of the future with you.

Yours, Stephan Meindl

EXHIBITIONS 2024

This year and next, HORN Glass Industries AG will once again be travelling the world to various trade fairs.

Here is the trade fair calendar 2024/2025.

EXHIBITION	DATE
Glass Problems Conference	16 - 19 September 2024
Glasstec	22 - 25 October 2024

EXHIBITIONS 2025

EXHIBITION	DATE
Glassman Asia	12 - 13 February 2025
Mir Stekla	11 - 14 March 2025
China Glass	2025 - tba
Glassman Europe	14 - 15 May 2025
Glasspex India	10 - 12 September 2025

HORN EXPANDS INTERNATIONAL PRESENCE BY FOUNDING SUBSIDIARY IN ROMANIA

HORN Glass Industries AG announces the foundation of its new subsidiary, HORN ROTEC S.R.L., in Romania. With this strategic decision, HORN strengthens its presence on the international market.

HORN ROTEC S.R.L., based in Alba Iulia, is managed by Mr. Ioan Dregheciu. He was already employed by HORN Glass Industries AG as project manager before the subsidiary was founded and, thanks to his experience, he is the ideal contact for this.

The newly founded company will focus on taking over assembly activities for the HORN Group in the electrical sector in order to meet the increasing demand for high-quality electrical installations and services.

This will make optimum use of HORN's proven specialist knowledge combined with local expertise.

THE HORN WORLD

Currently HORN Glass Industries AG has subsidiaries in

- Germany
- Czech Republic
- Slovenia
- Ukraine
- India
- China
- Malaysia
- Brazil
- Romania



LOCATION & CONTACT

The new subsidiary is located in Alba Iulia and represented by Mr. Ioan Dregheciu.

HORN ROTEC S.R.L.
 Strada Traian 29D
 RO-510109 Alba Iulia
 Romania

E-Mail: ioan.dregheciu@hornglass.ro
 Mobil: +40 767 259 232

LARGEST END FIRED FURNACE SUPPLIED BY HORN - 185.4 M²

HORN has completed its biggest End Fired Furnace project in the company's history with Turkish glass manufacturer Baştürk Cam. In June 2021, glass melting technology specialist HORN was contracted to build a 560 t/d End Fired Furnace for Bastürk Cam in Malatya, Turkey. The order for Furnace B was placed in 2021, but due to the tragic earthquake in 2023, the project had to be delayed for a while.

With a melting surface of 185.4 m², the furnace is designed for melting capacity of 560 tpd and includes six forehearth for the production of container glass. Heating of the furnace will be effected by means of Natural Gas or Back-up Diesel oil burners.

In this greenfield project, HORN's scope of supply included the engineering of the Refractory and Steel structure, the Combustion System, Boosting System, Measuring and Control equipment, a HVR® 600F batch charger (650 tpd. feeding capacity) developed by HORN, NIR Furnace Camera, supervision of erection, heat-up and commissioning.

In June 2024, the new end fired furnace, which produces container glass in the colour Flint, was finally successfully commissioned and on 2nd June 2024 we celebrated the first glass.

To good glass all the time!



HORN WITH A NEW MESSAGE FOR THE GLASS INDUSTRY AT GLASSTEC

This year, the global glass industry will once again meet for its leading global trade fair in Düsseldorf from 22 to 25 October 2024. glasstec is the largest and most important event for the glass industry and reflects the high performance of the sector. This year, glasstec will focus on the topics of decarbonisation, the circular economy and digital technologies. These hot topics will of course also be focussed on and discussed at the newly designed booth of HORN Glass Industries AG.

HORN's new and specially developed 195 m² booth is located in Hall 13, Stand C32 and this year conveys the trade fair message "Leading beyond the furnace". As a technology provider, HORN is one of the world's leading manufacturers of glass melting furnaces and turnkey production lines for the glass industry. The fact that, in addition to the furnace, HORN also offers individual trades such as E-Fusion Power Boosting, batch chargers, electrode holders, etc., as well as the entire technological line, is emphasised once again by the concise message.

With the expansion in terms of the production of individual components for the tin bath in the Float Glass sector, the company can now draw on its own production facilities



at the Ploessberg site and thus offer all products right through to the complete technological line.

The overall concept also includes a separate area for the HORN subsidiary, JSJ Jodeit GmbH. HORN Glass Industries AG, the premium supplier in the field of container and special glass furnaces, and JSJ Jodeit, the premium supplier of all electric melting furnaces, will present the possibilities of using electric energy in glass melting in the form of hybrid furnaces, super hybrid furnaces or all electric melting furnaces.

HORN specialists and engineers from various fields will also be

showcasing the latest product developments and innovations from research and practice as well as the latest technologies to ensure energy-efficient and sustainable glass production.

NOELLE + VON CAMPE CONTRACTS HORN FOR FURNACE REPAIR

Glass melting technology supplier and turn-key specialist HORN Glass Industries AG was awarded the contract for the general repair of furnace 4 at Noelle + von Campe.

The German packaging glass manufacturer relies on HORN to equip furnace 4 with the latest technology.

HORN is responsible for the complete planning of the refractories and steel construction for the furnace, distributor and five forehearth.

The regenerative end fired furnace is equipped with state-of-the-art gas heating, measuring and control equipment together with a higher-level control system based on PCS7. A HORN E-Fusion Power Boosting System brings the electrical power into the glass melt via twelve electrodes.

To cool the electrode holders and further equipment, HORN equips the furnace with a complete cooling water supply. In addition, Noelle + von Campe will be relying on two new HORN HVR 700F-2P batch chargers in the future.

The contract includes furnace drain and demolition as well as the complete construction work for refractory material, steel and equipment. The furnace is then tempered and put into operation by HORN. Commissioning is planned for June 2025.

HORN would like to thank Noelle + von Campe for their trust and is looking forward to a successful project with a specialist in glass packaging.



HORN TO SUPPLY NEW OXYFUEL FURNACE TO ODE



Glass melting technology specialist HORN has been entrusted by ODE, who is among the largest manufacturers of the insulation industry, to supply a new oxyfuel furnace. This project in Turkey includes the repair of an oxyfuel furnace with two production lines for glass wool.

HORN's scope of supply includes the combustion system, measuring and control equipment, electric equipment and several engineering services.

The existing furnace will be stopped for drainage/demolition in the second quarter of 2025.

NEW ALL ELECTRIC FURNACE - ORDERS FOR HORN AND JSJ JODEIT

Since April 2021, JSJ Jodeit GmbH has been a subsidiary of HORN Glass Industries AG. The integration of this Central German premium furnace supplier specializing in specialty glass has allowed HORN to further expand its expertise in electrically and gas-oxygen-fired melting technology for technical and specialty glass.

With a strong focus on CO₂-free and sustainable melting technologies, HORN is also preparing for the challenges of the energy transition.

The acquisition of JSJ Jodeit’s melting technology division has proven to be an excellent decision. JSJ and HORN have established themselves as leading providers in the field of electric melting, offering a complete range of service from glass-to-glass, which is highly valued by customers worldwide.

HORN and JSJ Jodeit now offer a comprehensive product portfolio, including conventional, hybrid/super-hybrid, and all electric melting furnaces. Additionally, technical solutions have already been

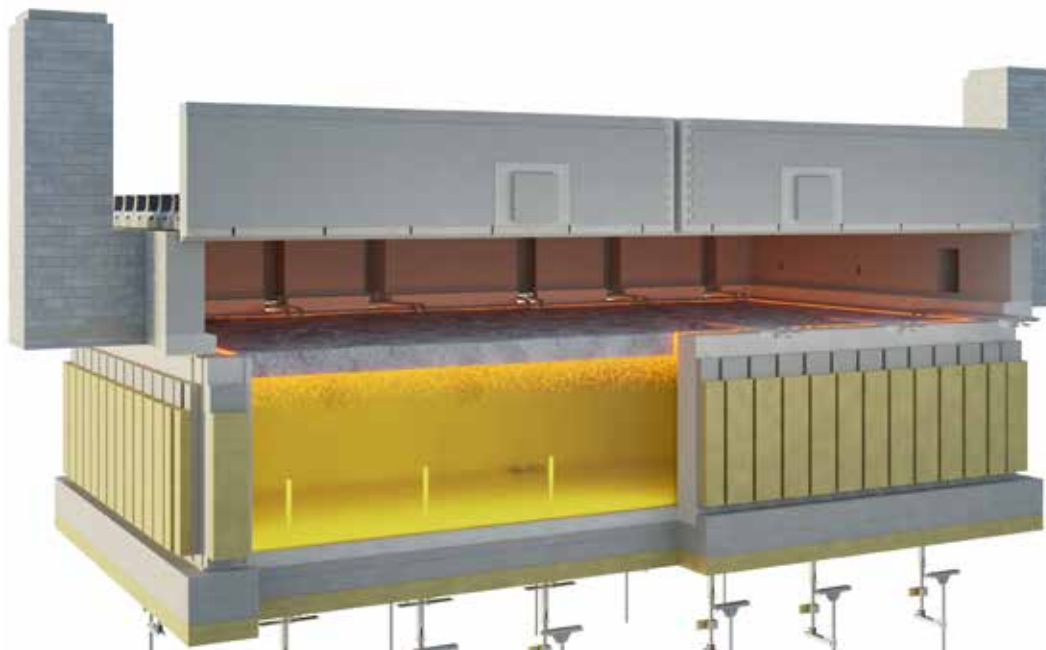
developed for the gradual adoption of alternative heating media, such as hydrogen.

This outstanding competence of HORN and JSJ Jodeit has been further confirmed by five recent orders for all electric melting furnaces:

- 25 tpd furnace for borosilicate glass
- 35 tpd furnace for premium super flint glass
- 40 tpd furnace for cosmetic glass
- 45 tpd furnace for tableware
- 90 tpd furnace for cosmetic glass

International customers from India, Belgium, Italy and Germany trust the forward-looking technologies of the HORN Group. These various furnace projects reflect the confidence customers have in HORN and JSJ Jodeit and strengthen the market presence of both companies.

Looking forward to continued successful collaboration!



WHAT DO YOU DO AT HORN?

MANUEL TAUBER

QUALIFICATION:

Metalworker for construction technology /
Bachelor Professional of Technical
Management

WITH HORN SINCE: 2012

AREA OF RESPONSIBILITY:

Tin Bath / Project Manager
Glass Plant Technology



WHAT BROUGHT YOU TO HORN?

After leaving school, I was looking for an attractive apprenticeship in the area. Even back then, HORN was known for its wide range of programmes and the quality of its training. After an interview, I started my apprenticeship as a metalworker for construction technology in the manufacturing department in 2012.

WHAT DO YOU DO AT HORN?

After my apprenticeship at HORN, I was able to gain experience in the installation and commissioning of our glass plants. This led me to switch to the Glass Plant Technology Department in 2018 to familiarise myself with the project planning and design of the tin bath and our plants. Over the past few years, I have worked from the start of planning, through the installation of the tin bath and associated equipment, to the commissioning of the systems and customer

support after commissioning. We always work closely with our customers to solve any problems that arise as quickly as possible and to organise the necessary spare parts.

I now work as a project manager for major projects in the Glass Plant Technology Department. My role starts with the basic engineering of the entire glass plant and extends through the entire planning, production and logistics phase to the installation and commissioning of the plant. It's a very complex, demanding but also very interesting job.

WHAT DO YOU LIKE MOST ABOUT YOUR JOB?

What I particularly like about my job is the collaboration with colleagues and customers as well as the diversity of the work. Seeing how a plant grows from paper to commissioning 'First Glass' is a particularly enjoyable experience every time. Every project brings new challenges, so it never gets monotonous or boring.

WHAT IS NEW OR WILL BE IN THE FUTURE?

The shortage of skilled labour is currently a well-known issue in many industries around the world. A strong trend towards this can also be seen in the

glass industry. We are therefore working on further automating our plants and expanding our services so that we can better support our customers with these problems in the future.

SUCCESSFUL PARTICIPATION IN THE 12TH NORTHERN UPPER PALATINATE CORPORATE RUN

‘How fit is your company?’ was the motto on Wednesday, 8 May 2024, when the starting signal was given for the Northern Upper Palatinate Corporate Run in Neustadt/WN. The district town was organising the popular running event for the fourth time. The total distance to be covered was 5.84 kilometres.

Glass Industries AG. The incredible atmosphere before the start is simply priceless. Almost 5000 runners, including 35 HORN employees, completed the course and had great fun doing sports together.

In 2024, the running event once again moved the Northern Upper Palatinate and thus also HORN

Where and when the next NOFI run will take place has not yet been decided. However, one thing is certain: HORN will definitely be taking part again and is already looking forward to participating in this major sporting event once more.



NEW ORDERS

CUSTOMER	COUNTRY	FURNACE	PRODUCT
ODE	Turkey	Repair Oxyfuel Furnace	Glass Wool
Aton Luce	Italy	35 t/d All Electric Furnace	Container Glass & Tableware
Glass Technology FZ LLC	UAE	300 t/d Solar Glass Line	Patterned Glass
Noelle + von Campe	Germany	Repair 320 t/d End Fired Furnace	Container Glass
DBW Advanced Fiber Technologies GmbH	Germany	Repair 20 t/d Oxyfuel Furnace	Insulation wool
Gerresheimer Momignies S.A.	Belgium	Rebuild 90 t/d All Electric Furnace	Container-Cosmetics
Auer Lighting GmbH	Germany	Hybrid Oxyfuel Furnace	Technical Glass
Guangdong Huaxing Glass Co. Ltd.	China	Equipment 470 t/d End Fired Furnace	Container Glass
Sichuan Skyhorse Glass	China	170 t/d End Fired Furnace	Container Glass

IMPRINT

HORN GLASS INDUSTRIES AG

Bergstraße 2 | D-95703 Plössberg
 Phone: +49 9636 / 9204 - 0
 Mail: info@hornglas.de

CONCEPTION, DESIGN, TYPESETTING:

C3 marketing agentur GmbH
 Bahnhofstraße 3
 95643 Tirschenreuth