

## VACUUM PUMPS

# Mexican beer producer chooses PNEUMOFORE – again!



A leader in the manufacturing, distribution and sale of beer in Mexico and part of A.B. InBev, the world's largest beer brewer, Grupo Modelo recently installed its third PNEUMOFORÉ UV100 Rotary Vane vacuum pump at the company's Tierra Blanca plant.

**F**ounded in 1925, Grupo Modelo has 11 breweries and produces 17 national beer brands, of which eight are exported to 180 countries worldwide - including the renowned Corona Extra.

#### **A PROUD LEGACY**

The group boasts nearly 100 years of experience in producing hollow glass containers. Indeed customers have a clear preference for its beers, which account for almost 60 percent

of the market share in Mexico. Here's why, in order to stay abreast of such extraordinary results, Modelo took valuable decisions to further improve upon that production outcome by deploying reliable and efficient equipment.

#### **TESTING**

Prompted by the latest moulding trends with IS machines -which achieve more elevated precision, minimal waste and high-speed produc-

tivity- Grupo Modelo decided to invest in vacuum. However, with the added value of vacuum in the hollow glass-moulding process being sometimes difficult to define, Pneumofore was called in to another Mexican plant to conduct a "vacuum-only" test on the IS machine- all to evaluate the effective contribution of vacuum capacity to the process of glass moulding.

The test was performed with a Pneumofore UV16 VS30 vacuum pump - enough to supply





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vacuum to one IS machine with ten double sections for wide-neck glass containers. Then, following the success of the demonstration by expert glass moulding engineers, the vacuum was combined with low pressure for the purposes of attaining still better results - both in reduced rejection rate at the cold-end quality inspection and in terms of quantity of bottles-per-minute upon each IS line.

### A HISTORY OF CHOOSING INNOVATION

Modelo had already installed a Pneumofore UV100 vacuum pump equipped with Variable Speed drive at its Tierra Blanca plant back in 2020. The air-cooled machine, which has nominal installed power of 220 kW and can reach up to 6.610 m<sup>3</sup>/h in capacity, was set up alongside the existing vacuum systems. The vacuum setpoint is at 280 mbar(a), connected to

the IS machine at Furnace N° 2.

Since then an additional furnace has been prepared, with all IS lines connected to the vacuum system - upgraded with a total of three Pneumofore UV100s. Here Pneumofore engineers checked the entire system during commissioning of the two additional vacuum pumps, ensuring proper installation according to current recommendations for long-term efficiency.

### BIG WINS FOR ENERGY SAVING

Based upon Pneumofore's Rotary Vane technology, the three vacuum pumps are capable of supplying up to 20.000 m<sup>3</sup>/h as total capacity within the vacuum level range of 50 to 450 mbar(a). Not only. Guaranteeing a constant vacuum level, the machine's Variable Speed drives can adapt its rotation velocity to pro-

duction requirements, thereby ensuring significant power savings - a practice which increases glasswork productivity by leveraging all the high-performance potential that's available on today's latest generation IS moulding lines. ■



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