



FORMA GLAS

all-in-one supplier for tableware production

Forma Glas has been a pioneer in the sector of automatic glass processing machines since 1890, and has been famous for its tableware production lines since 1968. The company's range of machines and equipment is suitable for almost all processed types of glass compositions such as lead crystal glass, barium glass, crys-

talline and soda lime glass.

In particular, Forma Glas offers:

- production lines for stemware production, tumbler production, vases and bowls, press glass lines, ophthalmic lenses, car headlights, thermos flasks, laboratory glass articles, lamp bulbs;
- glass processing machines;

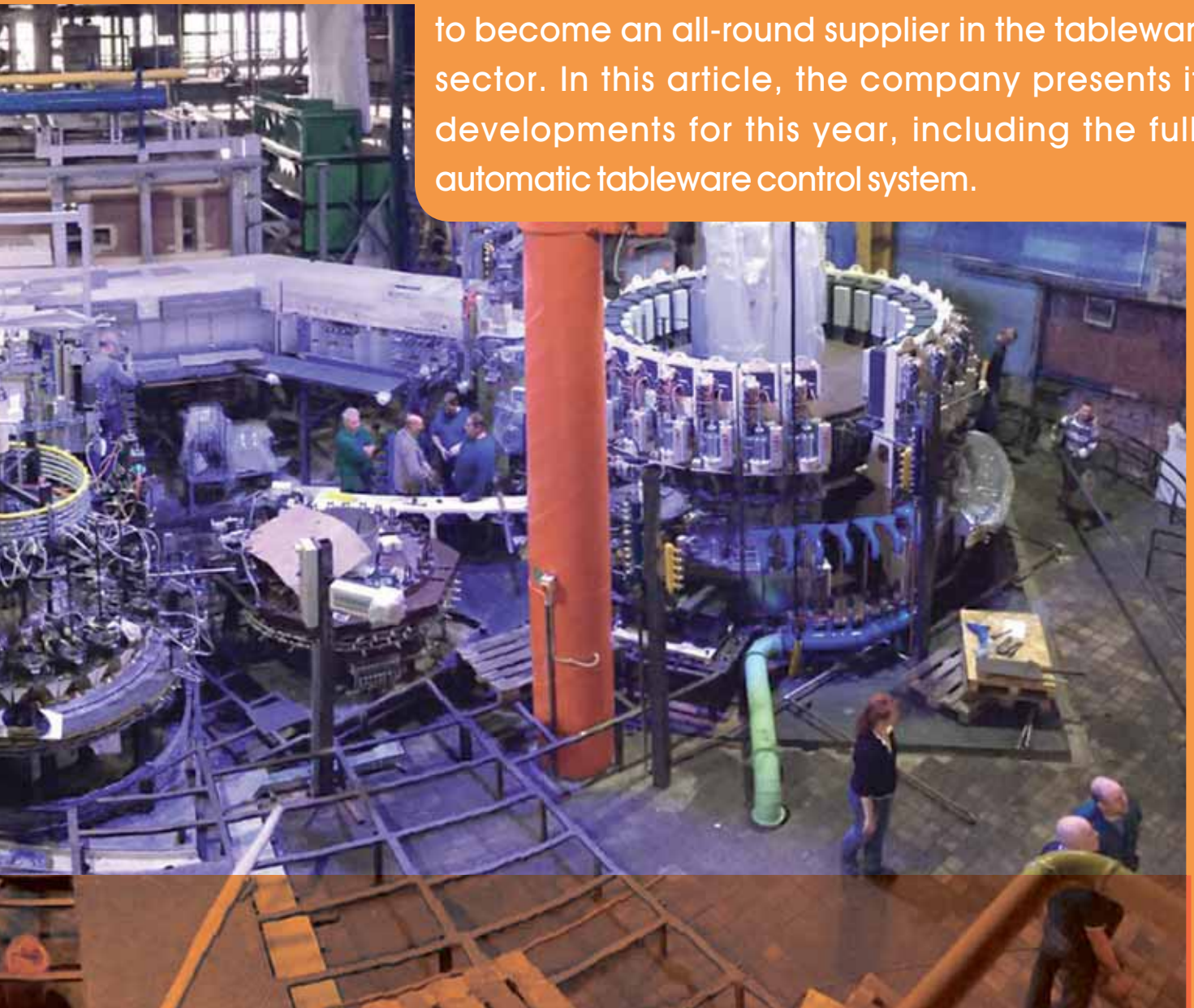
- cold processing machines.

The company also provides peripheral devices and second hand machines.

CONTINUOUS WORK - CONTINUOUS IMPROVEMENTS

Forma Glas works annually to improve its machines to offer the best to its customers,

With well over 100 years of experience in glass processing machinery, Forma Glas is now looking to become an all-round supplier in the tableware sector. In this article, the company presents its developments for this year, including the fully automatic tableware control system.



with top quality new generation machines to support existing production lines. Continuing the company's development towards becoming an all-in-one supplier, Forma Glas can now provide several kinds of presses, high end blowing machines, stem stretching equipment, flame polishing systems, conveyor belts, cracking-off machines with laser and table ware control systems. This means that the company can now provide the machinery required for high-end tableware production – with the exception of furnaces.

NEW GENERATION OF AUTOMATIC CRACK-OFF MACHINE (ASA) WITH LASER

This year Forma Glas has launched a new automatic crack-off machine for tumbler and stemware products, and has a special machine design available for large items with diameters of up to 300 millimetres, and wall thickness up to 7 millimetres. The flexible mounting of grinding and seaming stations with single-, double- and triple loading systems is also an important advantage. The machine has a capacity of up to 75,000 glass-

es per day with affordable refill costs for laser.

The modular design of the ASA enables to offer the system also as a stand-alone laser module.

Main benefits:

- crack of the caps at the cold end
- suitable to all known crack-off machines at the cold end
- replacement of thermal shock glasses up to 3mm wall thickness
- reducing of scrap during crack of process

This module is also available



Forma Glas stand-alone laser module cuts without dust – no need for dust extraction

for vases with wall thickness up to 5 millimetres.

The 200 Watt CO2 lasers have a working life of up to three years (about 25,000 hours). The Stand-Alone Laser Module cracks the caps at the cold end and is suitable to all known crack-off machines at the cold end; and can replace the thermal shock process (burner). The machine can work with glasses with up to 7 millimetres wall thickness and up to 65 items per

minute (depending on the laser system). The result is reducing scrap down to three per cent.

TCS TABLE WARE CONTROL SYSTEM

In addition to the new ASA, and in cooperation with external experts, Forma Glas recently put into operation the first fully automatic system called TCS (tableware control system) for high quality tableware because a manual quality control of tableware products always used to be a high expenditure for all glass manufacturers. In the last 8 months 8 systems were installed by different customers.

Putting into operation the first crack-off and tableware control systems enables the company to be in line with its aim to become an all-in-one supplier for tableware products. ■



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