

OGT

ready for the 2020 world market requirements

Fifty years of experience in the manufacture and supply of glass tubing lines is the strength of the company in

this article – OGT – Olivotto Glass Technologies. And over the years, the company has continued to improve, update and refine its machinery using the most up-to-date and cutting edge technology to ensure the best production for this specific market sector.

Andrea Valle - Sales Manager
OLIVOTTO GLASS TECHNOLOGIES

Olivotto Glass Technologies (OGT) has been manufacturing and supplying Glass Tubing Lines to the world-wide market for 50 years.

Over the years, OGT Tubing Lines have been used for different type of glass, from sodalime to lead glass (both for the lighting industry), from borosilicate up to neutral glass, essential for tubes to be used in pharmaceutical packaging.

With more than 50 tubing lines installed all over the world, OGT is definitely a world market leader in this field.

During these years, OGT's technology in glass tube forming and production has been improved and refined both at the hot end and at the cold end areas of the line, adopting cutting edge technical and technological solution for this particular sector.

This is made possible thanks to the direct experience of OGT's engineers and technicians in the field, as well as to the collaboration of consultants coming from top global manufacturers of glass tubes. OGT is, today, able to supply the most advanced Tubing Lines for any type of glass, granting its customers the maximum performance in term of quality of the finished products (glass tubes), productivity of its lines and efficiency in production (provided that the glass and conditions in the factory are following our requests and expectations).

A BOOMING MARKET

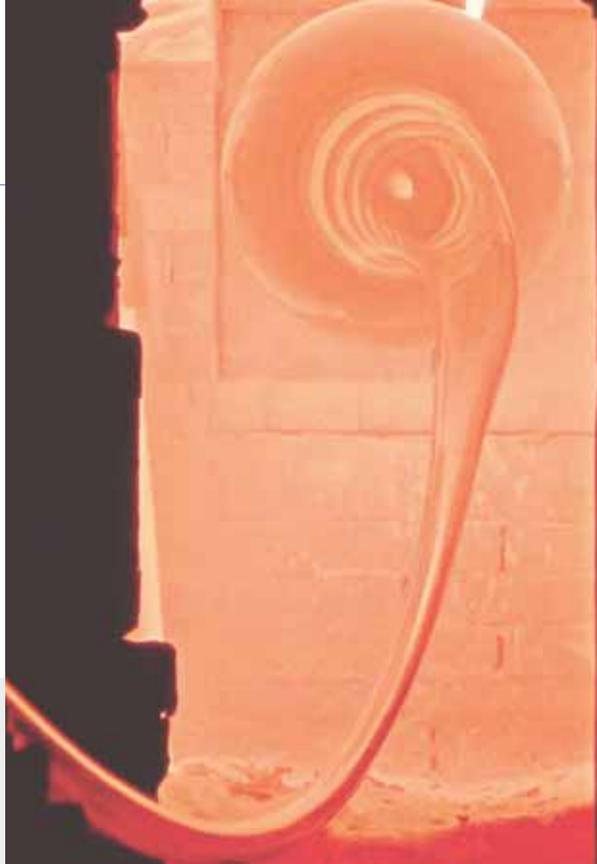
Focussing on tubes for pharmaceutical packaging, where a special type of glass – Neutral Borosilicate glass – is used, has been a key market for OGT in the last 15 years, considering that

the majority of tubing lines OGT sold from 2000 up to now are precisely for neutral glass.

It is forecast that in 2020, when the two large sub-continent China and Russia adapt their standards for liquid drugs glass packaging to the European Pharmacopoeia (in terms of chemical and physical characteristics of glass containers), the market dimensions for ampoules, vials, cartridges, syringes ... (consequently for glass tubes), will double its dimensions compared to that of 2015-2016 period.

TECHNOLOGY

OGT can supply complete Tubing Lines: from the collection of molten glass from the forehearth (or from the platinum feeder in more advanced configurations), to tube forming operations (by precise air blow) up to



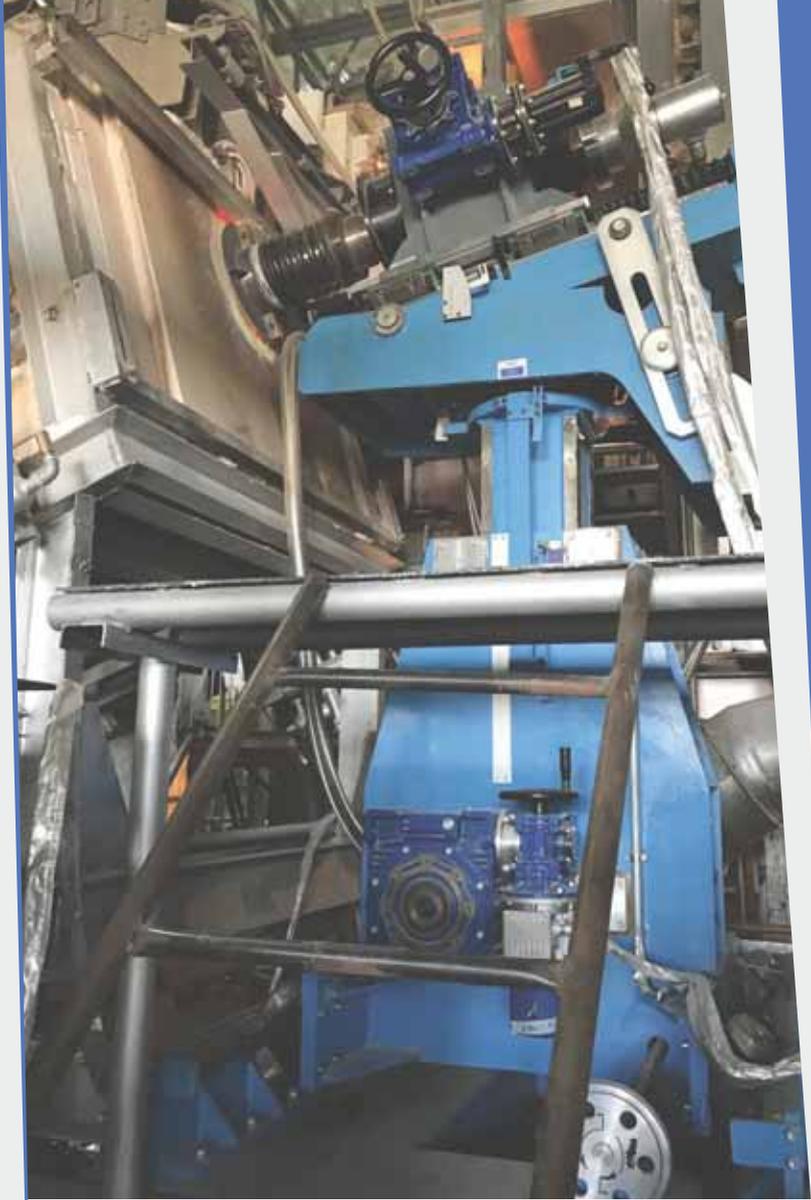
the cold end of the line, where our three different machines draw the tubes, cutting them inside, cutting them in a preliminary length and carrying out the final cutting and glazing operations, in order to have the finished tubes ready for packaging.

The two processes used to form the tubes are:

1. the Danner process: with all its advantages in closely respecting the physical dimensions tolerances, in particular diameter and thickness of the tube, and therefore being the perfect process for the production of tubes for ampoules and vials; and
2. the Vello process: more flexible in terms of tube shapes and dimensions (in particular thickness), perfect for the production of tubes for cartridges or for syringes.

OGT Tubing Lines produce tubes with diameters from 5 to 50 millimetres (normally for pharma packing the maximum diameter is up to 40 millimetres), with various thicknesses, according to the different uses of the tube, which range from 0.1 up to 1,5 and more.

Here below a 3D representation of a typical layout of a tubes forming plant, made up of a Melting Furnace (up to 22-24 tons per day) and two Tubing Lines, each with the maximum capacity of 10.5-11 tons per day. ■



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OLIVOTTO GLASS TECHNOLOGIES SPA

Viale Gandhi, 22
10051 Avigliana (TO) - Italy
Tel.: +39 - 011 - 9343511
Fax: +39 - 011 - 9343593
E-mail: info@olivotto.it
www.olivotto.it