



HEATABLE BACKLITE TECHNOLOGY SOLDERING AND TESTING OF HEATABLE GLASS

AYROX has a wide range of soldering and testing equipment for heatable glass production and quality control.

The product range has been designed to fulfil different kinds of production requirements.

TESTING

Testing can be 100%, random or statistical, on-line or off-line. We have suitable devices for testing a few pieces per day, and also for testing 500 pcs / h.

There is separate equipment for testing the electric circuit, the continuity of line, and the mechanical strength of the soldering. Some of the tests can be combined in one machine.

SOLDERING

For soldering, there is equipment with a capacity reaching 200 backlites per h and these stations can be multiplied, if needed. On the other hand the manual soldering station is ideal for custom work, development or small-scale production.

To facilitate positioning and / or repeatability in manual or semi-automatic equipment, docking clamps or positioning jigs can be included.

GENERAL

All equipment is available as:

- ◆ *manual*
- ◆ *semi-automatic*
- ◆ *custom automated*

All automatic equipment can be modified to suit the customer's production environment.

Machine structures and lay-out can be modified according to customer needs.

The operational components, such as soldering heads, power supply units and electrodes are standardized to always give the same, reliable results.





HEATABLE BACKLITE TECHNOLOGY

AUTOMATIC EQUIPMENT

The automatic equipment is always custom designed, already at the quotation stage, and adapted to the customer's own loading and unloading systems. Other modifications can be made at the same time. This ensures the right adaptation for the user's own needs.

SEMI-AUTOMATIC EQUIPMENT

The semi-automatic machines can be modified to some extent, taking into account for example:

- ◆ *number of connectors on the backlite*
- ◆ *number of operators available*
- ◆ *unloading conveyors instead of manual unloading*
- ◆ *(location and type of soldering / testing)*

MANUAL EQUIPMENT

Manual machines are standard, ready - to - use equipment without complicated installation procedures, equipped with automated soldering or testing cycles.

SOLDERING

Soldering can be done:

- ◆ *after tempering, on warm glass (on - line)*
- ◆ *after testing of silkprinted electric circuit, on cool glass (off - line)*
- ◆ *at the glass producer's premises or in the delivery and conditioning center near the end customer's facilities.*

TESTING

The electric circuit testing can be done:

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| ◆ <i>after tempering,</i> | } | <i>as random or 100% control on-line or off-line</i> |
| ◆ <i>after soldering</i> | | |
| ◆ <i>in the laboratory</i> | } | <i>localization of line cuts and / or development</i> |
| ◆ <i>The shearing or pull test can be</i> | } | <i>non - destructive, or destructive</i> |

