Crystal® L1 Robot Line
Automated Equipment for AT-Closed Vials®

OVERVIEW

The Crystal® L1 Robot Line is an automated equipment designed to perform filling of stability batches, clinical batches and mid-size production.

The equipment can fill up to 600 AT-Closed Vials® per hour.

COMPLIANCE

Fully compliant with cGMP requirements and CRF 21 Part 11, the Crystal® L1 Robot Line is able to process the complete range of the ready-to-fill AT-Closed Vials® from 1 to 50 ml.

PROCESS

1. Filling:
   Ready-to-fill AT-Closed Vials® are organized in nests, manually positioned and locked. Filling performed by the robot, by means of a specially designed needle that pierces the stopper and dispenses the liquid inside the vial.

2. Laser sealing:
   The robot places the needle on its support, and activates its laser tool. The puncture trace is re-sealed by a laser shot on the stopper surface.

3. Capping:
   Using its third tool, the robot performs capping inside the barrier, by simple snap-fit of a plastic cap.

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KEY FACTS

**Crystal® L1 Robot Line**

<table>
<thead>
<tr>
<th>Applications</th>
<th>Aseptic filling of parenterals.</th>
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<tbody>
<tr>
<td>Output (1ml vials)</td>
<td>Up to 600 vials/hour.</td>
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<tr>
<td>Filling volume</td>
<td>0.1 ml to 50 ml.</td>
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<td>Filling accuracy</td>
<td>Typically 1% (over 1 ml, for water-like viscosity).</td>
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<tr>
<td>Dimensions (L x W x H)</td>
<td>mm: 1190 x 760 x 930 (clean room arrangement). in: 47 x 30 x 37</td>
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<tr>
<td>Utilities</td>
<td>Electricity only. No water, no compressed air.</td>
</tr>
<tr>
<td>Materials</td>
<td>AISI 316L for product contact parts.</td>
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</tbody>
</table>

VERSIONS

To meet your project specifications, the *Crystal® L1* Robot Line can be provided in various versions:

**Containment**

- As a sub-system, to be installed in a third party containment;
- Active/passive RABS;
- Isolator with H₂O₂ decontamination.

**Entry/exit systems**

- Mousehole;
- RTP (Rapid Transfer Port);
- AT-Port™ System for drug product;
- H₂O₂ decontaminated airlock.

**Configurations**

A multicontainer Robot Line for operations with nested
- AT-Closed Vials®;
- conventional open vials;
- syringes

is available and known as *Crystal® SL1* Robot Line.

More information available on www.aseptictech.com

Aseptic Technologies S.A. reserves the right to make any changes to the described equipment and characteristics without notice.