



Crystal[®] SL1 Robot Line Versatile Equipment

Filling process

The multicontainer **Crystal[®] SL1** Robot Line is designed to face the challenge of flexible small scale pharmaceutical filling with a capacity going up to 700 units/hour, typical batch size reaches 6,000 units per shift.

Fully compliant with cGMP requirements, the **Crystal[®] SL1** Robot Line is able to process different kind of containers (all formats) with minimum change-over time. All operations are performed by the Robot equipped with specific tools.

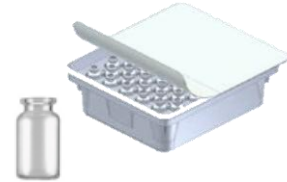
Containers and operations



AT-Closed Vial[®]



Prefillable Syringe



Open Vial

For AT-Closed Vial[®]:

- filling by piercing;
- laser re-sealing;
- snap-fit capping.

For PFS and open vial:

- filling;
- vacuum stoppering.



Crystal[®] SL1 Robot Line



Crystal[®] SL1 Robot Line on L-flange
in PSI-L isolator by SKAN

Key facts

Crystal® SL1 Robot Line	
Applications	Aseptic filling of liquid and freeze-dried parenterals. All types of products (including cytotoxics and biohazard).
Output	Up to 600-700 units/hour.
Filling volume	0.1 ml to 50 ml + overflow.
Filling accuracy	Typically 1%
Typical dimensions (L x W x H)	mm: 1600 x 900 x 1757 (RABS arrangement). in: 63 x 36 x 70
Utilities	No water, no compressed air. Electricity. Vacuum (for PFS and open vials only).
Materials	AISI 316L for product contact parts.

Versions

Upon your project specifications, the Versatile **Crystal® SL1** Robot Line can be provided in various versions:

Containment

- RABS (active/passive);
- AT-Box™¹ or Isolator;
- As a sub-system, to be installed in a third-party barrier.

Material entry/exit systems

- Mousehole;
- AT-Port™;
- RTP (Rapid Transfer Port);
- H₂O₂ decontamination airlock.

Purpose

Aseptic filling of any combination of AT-Closed Vials®, open vials and syringes, these containers being supplied in nests and ready-to-fill.



Crystal® SL1 Robot Line in active RABS



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.

¹ AT-Box™ - a new isolator concept developed with SKAN AG. Differentiated by much faster decontamination cycle (<30 min), catalytic converter of H₂O₂, air intake/exhaust in the room.