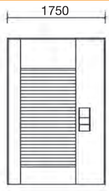
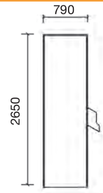
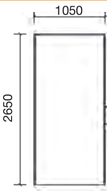
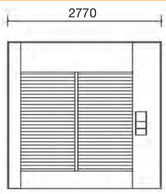
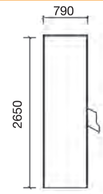
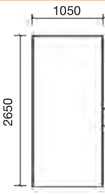
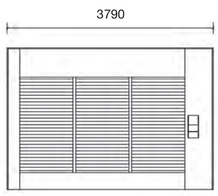
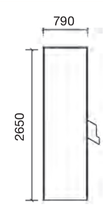
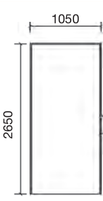
HSD High Speed Pharma Dispenser

HSD - 1C	HSD 1C-5 (channels mm 500)	HSD 1C-8 (channels mm 800)	HSD 1C-12 (channels mm 1200)
	 **Storage capacity:** Up to: **530** different items (SKUs) Up to: **2650** total packages Footprint: **1.38** sq.m.	 **Storage capacity:** Up to: **500** different items (SKUs) Up to: **4000** total packages Footprint: **1.84** sq.m.	**Storage capacity:** Up to: **500** different items (SKUs) Up to: **6000** total packages Footprint: **2.45** sq.m.
HSD - 2C	HSD 2C-5	HSD 2C-8	HSD 2C-12
	 **Storage capacity:** Up to: **1060** different items (SKUs) Up to: **5300** total packages Footprint: **2.20** sq.m.	 **Storage capacity:** Up to: **1000** different items (SKUs) Up to: **8000** total packages Footprint: **2.90** sq.m.	**Storage capacity:** Up to: **1000** different items (SKUs) Up to: **12000** total packages Footprint: **3.88** sq.m.
HSD - 3C	HSD 3C-5	HSD 3C-8	HSD 3C-12
	 **Storage capacity:** Up to: **1590** different items (SKUs) Up to: **7950** total packages Footprint: **3.0** sq.m.	 **Storage capacity:** Up to: **1500** different items (SKUs) Up to: **12000** total packages Footprint: **3.98** sq.m.	**Storage capacity:** Up to: **1500** different items (SKUs) Up to: **18000** total packages Footprint: **5.30** sq.m.

The dimensions indicated and the values of containment and management, may be varied according to the needs of organizational flexibility.

Clover51 Pharmacy Automation

Cyber High speed pharmacy dispenser

Modular channel system designed to increase dispensary speed and efficiency. Automat

HIGH SPEED PHARMA DISPENSER

HSD High Speed Pharma Dispenser

Cyber robotic high speed machine for the storage and automatic dispensing of medicines.

- HSD allows extremely high picking and delivery speed;
- Thanks to its limited footprint HSD easily integrates into any pharmacy even a small-medium one;
- HSD can be connected to any existing pharmacy management software for optimized picking/refilling times, upgraded medicines management and improved efficiency;
- Picking and refilling can be performed simultaneously;
- HSD can be easily placed behind the dispensing counter or in its immediate vicinity, even in a position visible to customers, thus demonstrating the pharmacy's inclination for both technological innovation and investing in the future;
- With user friendly interface and software HSD can be easily and intuitively operated directly through the counter desk PC or through the touch-screen panel the machine is equipped with;
- Thanks to its flexible configuration HSD stores all the fast moving medicine that account for 80% of the whole daily dispensed medicines; very high storage capacity in a very limited space;
- HSD scheduled maintenance is simple and does not require a heavy financial commitment.

- **Error-free refilling**
  A touch-screen panel and a hand laser scanner are available on the back side for guided refilling activities.

Back side of the HSD machine

- **Aesthetics and colours**
  Thanks to different available colours, materials and finishings for panels, sliding doors and internal lighting, HSD can be optimally integrated in any existing pharmacy design and furniture fit out.
- **Accessibility**
  In case of necessity medicine packages can be easily accessed through elegant and handy sliding doors.
- **Dispensing point**
  Multiple dispensing points can be placed on front of the HSD; if required they can be connected to the counter desk by mean of gravity chutes, spiral chutes, conveyor belts or specifically designed handling systems.
- **Cartesian Robot**
  A Cartesian light alloy robot guarantees maximum picking precision and extremely high delivery speed.

Automatic Picking

HSD robot automatically picks the requested medicines from the storage channels and delivers the packages to the dispensing point.

In case of a more distant location medicine packages can be directly dispensed to the counter desk.

- **Speed Performance**

Dispensing time:

- Average 6 seconds
- Maximum 9 seconds

A Picking through robot.

B Arrival and delivery of the medicines to the dispensing point.

C Handover of the medicines to the customer.

Guided refilling

HSD refilling from the rear of the machine. Refilling is easy and error-free with the aid of Cyber Stock-to-light Sentinel System: a red led light indicates the correct storage channel to be refilled.
Storage channels can be refilled with medicines at any time without interfering with the work of the pharmacist who operates at the front of the machine.

- **Refilling speed**
- Average time: 8 seconds (referred to 10 packages)

- **Refilling area**

Storage channels can be stocked and refilled with medicines from the back side of the machine at any time whenever it is needed, without interrupting picking and dispensing on the front side.

- **Safe and ergonomic refilling**

Thanks to a safe and ergonomic foldable step system even upper storage channels are easily reachable.

A Item identification through hand scanner.

B Insertion of the package in the correct storage channel indicated by the red led light.

C Insertion confirmation through the hand scanner.