

# LAP-C

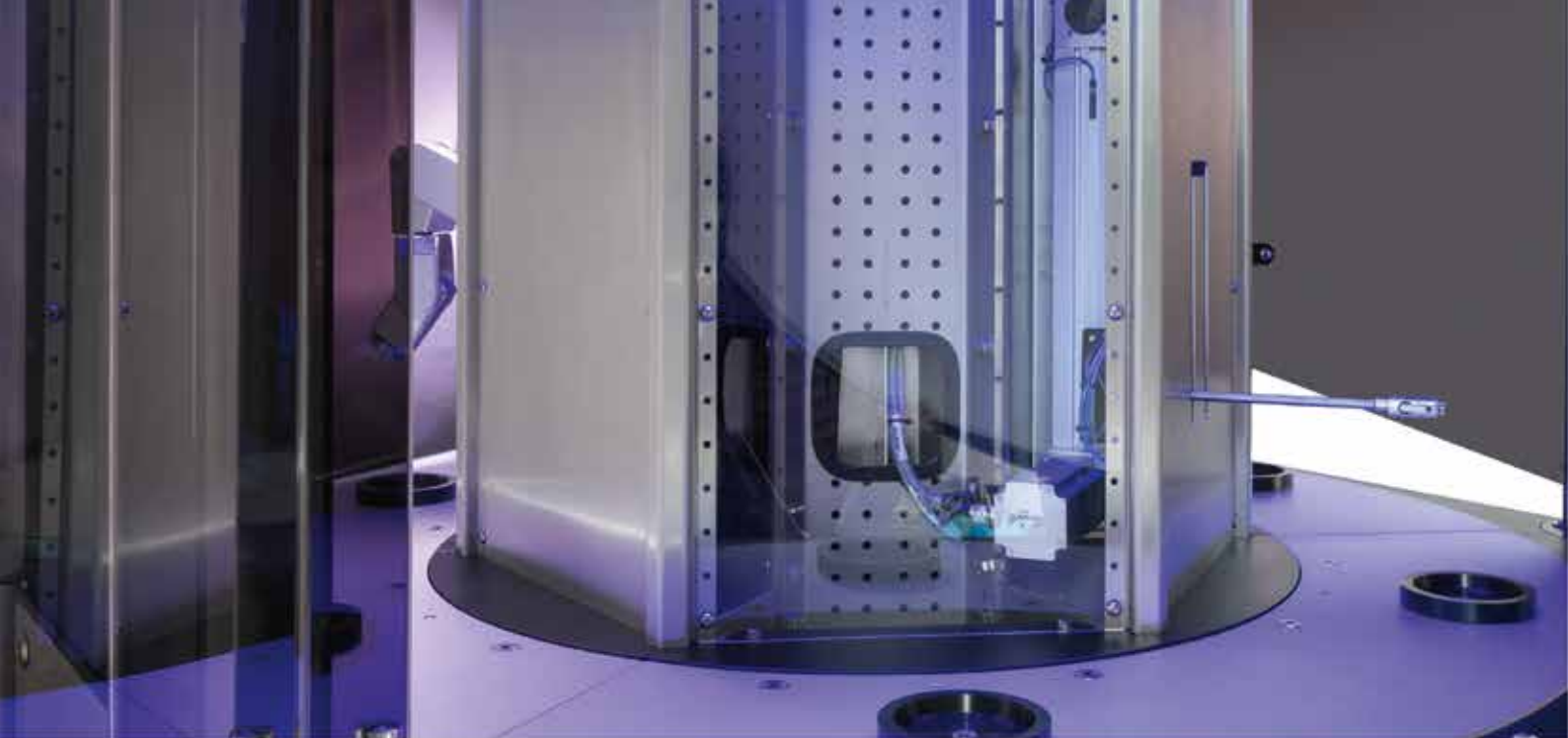


Lean Automation Platform  
circular



**GTE**

innovators in technical engineering



## Smart compact design

In the earliest periods of manufacturing, skilled craftsmen created goods one by one. The demand for cheaper products and faster delivery led to factories and mass production. Now, high-quantity production facilities churn out millions of products each year. What if you only need to produce a low or medium volume each year, a need fairly common in the medical industry? Often, it results in manufacturing automation being limited because costs of automation would increase the product price too much. The reason is that design, and thus custom automation, is very expensive. The only way to make automation more affordable while ensuring the same or even higher quality, is to standardize as much as possible. This way, you only need to design the specific client processes. That's why GTE designed LAP-c. The designed system has a proven robustness. Also, this standard has the advantage of "economics of scale": when the quantity goes up, the price goes down.

### LAP-C

- Affordable
- Typical cycle times range from 3-10 seconds
- Manual operations
- High proven quality
- Short lead time
- Assembling, packaging and processing
- Small footprint
- Smart design
- Low and medium production numbers  
(even high production numbers possible)

### Standardized components

#### Construction frame

At the center of the machine, we designed a very strong and ridged backbone. Like we see in nature, this spinal cord holds everything together and can accommodate the specific process equipment you need.

#### Transport

The easiest way to transport is to rotate. We use a self-designed, electronic controlled indexing ring. This makes it possible to freely program the required index steps. The design offers maximum clearance underneath the indexing ring, which makes it possible to have an operator sitting at the machine. The clearance also allows for process equipment to be placed underneath the ring.

#### Safety fencing

Instead of using an index table in the center of the machine, we turned the platform inside out with the backbone in the center and the indexing ring with your product process on the outside. This makes it possible to have a nice and neat fencing, which offers a maximum view of your processes.

#### Cable and tube management

By having the backbone in the center, holding everything together, one can easily put tubing and cables inside this backbone, where they are safe and concealed. There are several channels integrated in the backbone to keep signal wires separated from power cables.

#### Control cabinets

The control cabinets are integrated at the top of the platform. This makes it possible to run equipment wires directly into the cabinets.

#### Operator position

We created a standard operator interface that can be placed on any or simultaneous on all sides of the machine. The configuration has a standard 3D safety scanner to ensure 100% safety. A possible seat can be connected to the platform to keep floor space free and easy to clean. This platform is the perfect example of smart customization for your specific needs.

#### Delivery time

The LAP-c can be delivered within 12 weeks, depending on customization.

#### Investment

The costs depend on the customization level. We would like to calculate your ROI without further obligations.





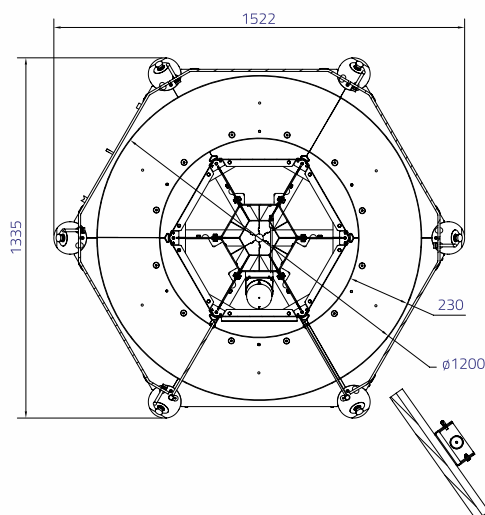
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### Dimensions

Height	2515 mm
Depth	1522 mm
Width	1335 mm
Working height	1050 ±50 mm
Indexing table	1200 mm

### Specifications

Assembly Speed	Typical cycle time 3 - 10 sec.
Number of stations	6 / 12 / 24
Drive	Programmable servo
Control Systems	Integrated control system Siemens, Beckhoff or customized
HMI	Siemens, Beckhoff or customized
Manual Stations	Up to 6



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