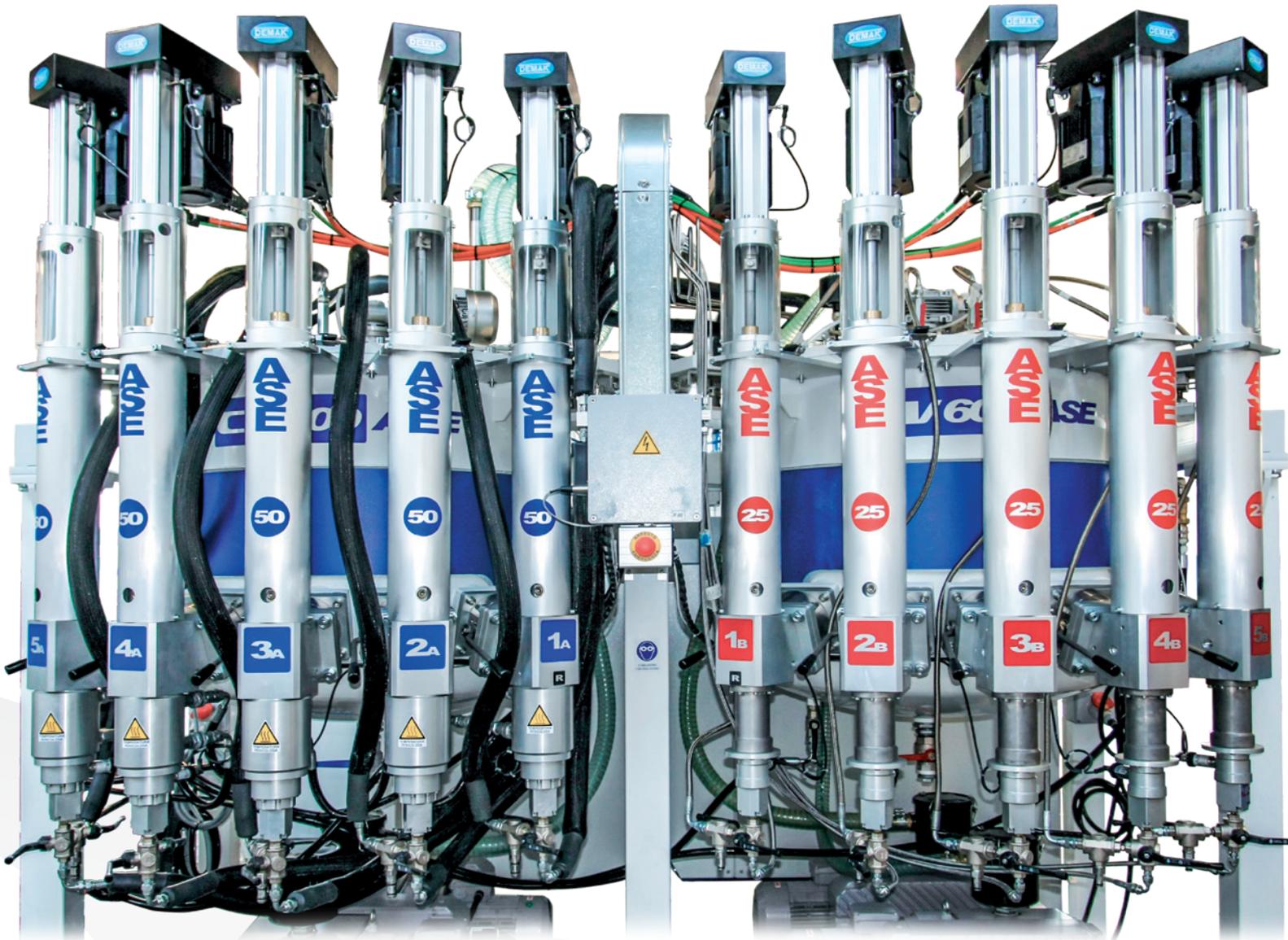




Continuous Vacuum



RESIN DISPENSING TECHNOLOGY



CV55 ASI
2 pumps



CV170 ASI
2 pumps



- **CONTINUOUS VACUUM PROCESS** automatic loading/reloading of the resin from the drums for non stop production.
- **NO SETTLING:** continuous recirculation from the bottom to the top of tank with external Archimedean screw and continuous stirring of the product.

The **ASI (ANTI SETTLING INTERNAL)** system with internal pumps avoids any possible settling and allows maintenance without unloading of the tanks.

Thanks to the latest innovation process, most of DEMAK dispensing systems are designed with CV TECHNOLOGY.

The **CONTINUOUS VACUUM PROCESS** allows automatic loading/reloading of the resin from the drums for non stop production.

Automatic “worn pump gasket” alarm.

Continuous Vacuum means an **ultra efficient degassing system combined with high productivity** for each customer.

Automatic loading of resin and hardener; automatic degassing (up to 0.2 mBar) with “**DEMAK® Continuous Vacuum System**”.

DEMAK® thin film degassing system with new double extra large plate to guarantee fast moisture extraction.

CV 55 - 170 - 600 huge tanks capacity to guarantee 24/7 continuous working.



- Our **CV SYSTEM MODULARITY** allows you to add robots, vacuum chambers, pre-heating and polymerization ovens, as well as automatic lines to the existing dosing unit at any time.

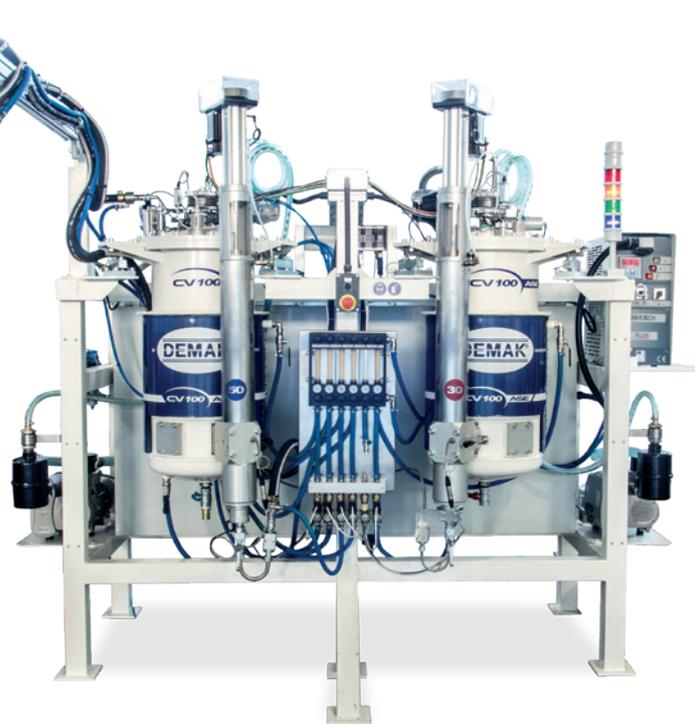
Tank level control through load cells to avoid any maintenance of level control plunged into the resin and hardener.

Continuous Vacuum System: 24/7 non-stop working.

No settling: continuous recirculation from the bottom to the top of tank with external Archimedean screw, continuous stirring of the product.

Single motorized pump system that guarantees high flow pressure.





- **SERVOMOTORS** let you control the resin flow speed in a very accurate way.
- Our product treatment system allows a **continuous and constant homogenization of the fillers**, avoiding settling anywhere in the process.

The **ASE (ANTI SETTLING EXTERNAL) system** with external pump system for fast and easy maintenance without unloading the tanks.

Automatic loading of resin and hardener; automatic degassing (up to 0.2 mBar) with "DEMACK® Continuous Vacuum System".

DEMACK® **thin film degassing system** with new double extra large plate to guarantee fast moisture extraction.

CV 80 - 100 - 200 - 600 huge tanks capacity to guarantee 24/7 continuous working.

Automatic "worn pump gasket" alarm.

Tank level control through load cells to avoid any maintenance of level control plunged into the resin and hardener.

Continuous Vacuum System: 24/7 non-stop working.

No settling: continuous recirculation from the bottom to the top of tank with external Archimedean screw, continuous stirring of the product.



CV200 ASE
8 pumps



CV600 ASE
10 pumps

- Our **CV SYSTEM MODULARITY** allows you to add at any time robots, vacuum chambers, pre-heating and polymerization ovens, as well as automatic lines to the existing dosing unit.

- **NO DOWNTIME FOR MAINTENANCE:** it involves mainly the piston inside the pumps. An automatic system (*managed by the machine software*) allows you to take off this part and to easily replace it.

Option of **multiple motorized pumps** to guarantee independent volumes.

Besides, ASE System main feature is the non-stop production with one (or more) set of pumps while performing maintenance on the others.

Variable ratio between resin and hardener. Possibility of fast and precise changes of resin flow-out from nozzles.

High accuracy in resin dispensing volume. Less reject.

All Continuous Vacuum machines have a **new gasket system** for the pistons with only one gasket and automatic registration during the wear-out of the same.

Low cost maintenance (*one gasket against 7 on traditional machines*), longer durability thanks to the automatic registration during the working cycles.



- **SMALLEST UNIT** ultra-efficient thanks to the automatic loading, degassing and dispensing.

The **CV SMART series** is the newest generation of machines developed by DEMAK®.

The **CV SMART** equipment performs all the main characteristics of the other series, in fact the **Continuous Vacuum System** is always a central factor.

The **CV2 SMART** is the smallest unit produced by Demak and it is ultra-efficient thanks to automatic loading, degassing and dispensing.

This equipment is capable to work 24/7 non-stop and has a 21 lt capacity.

CV2 SMART pumps are driven by servomotors in order to guarantee optimal precision and the control of the dispensing speed curve, which can be regulated according to the production step and to the capability of the parts to receive resin.

CV2 SMART has been **designed on a modular concept**, so it is possible at any time to upgrade it with XYZ Robot or Vacuum chambers of a suitable size for the customer's application.



- **MODULAR CONCEPT:** it is possible to upgrade it with XYZ ROBOT or VACUUM CHAMBERS at any time.

- **ANTI-SETTLING** thanks to the continuous materials recirculation and single brushless motorized pump upon each tank.

One of the most complete machine of the CV SMART series is the **CV2 SMART+VC**: an automatic dispensing unit with a vacuum chamber provided with an integrated xyz robot.

This equipment is particularly compact and suitable for any application that needs vacuum dispensing. CV2Smart+VC can be easily equipped with three different vacuum chambers:

- **VC 653040 xyz** : 650 x 300 x 400 mm;
- **VC 653065 xyz** : 650 x 300 x 650 mm;
- **VC 503030 xyz** : 500 x 300 x 300 mm;

The **CV DL70 ASI** has a capacity of 70 lt in order to guarantee a higher production per hour, with all the automatic process that is the main feature of all Demak equipment.

It is possible to prepare the equipment for high viscosity resin treatment, thanks to heated jacket applied to the tank, to heated pipes and recirculation.

The recirculation is very useful to avoid any material sedimentation into the pipes and all over the equipment.



- **BIG FORMAT:** from 700 x 500 to 1400 x 500 mm working area for optimal atmosphere resin casting.

The **PM2 CV2 SMART 70.50.20 xyz** is characterized by the same CVSMART system of the others, but it is engineered for room pressure dosing, in fact it has a 700 x 500 x 200 mm working area and it is equipped with an xyz robot.

In case you need a bigger working area, we have developed the **PM3 CV2 SMART 140.50.20 xyz**, a machine equipped with a double working area than the PM2 CV2 SMART and, again, ideal for atmosphere resin casting.

On Line Remote Assistance is available on all models in order to be followed by our Technical Service at any time.

All the CV SMART series have the **Continuous Vacuum Technology**, the thin film degassing system, automatic "worn pump gasket" alarm, anti-settling thanks to a continuous materials recirculation and single brushless motorized pump upon each tank.



VACUUM CHAMBER [xyz] 500 x 300 x 120 mm

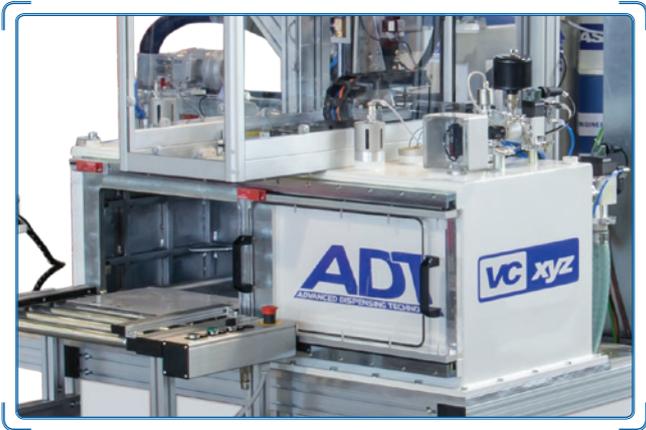
VC VACUUM CHAMBERS

DEMAK provides a wide range of **VACUUM CHAMBERS** with many different sizes. Movement can be performed by a single x-axis up to four axes controlled by servo-motors.

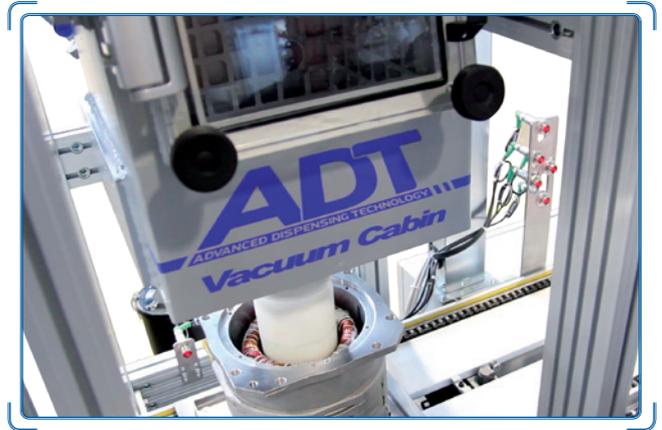
Vacuum dispensing is suggested to avoid any presence of air and moisture inside the final parts.

Possible application on an automatic line with pre-vacuum cabin, casting cabin and post-vacuum cabin.

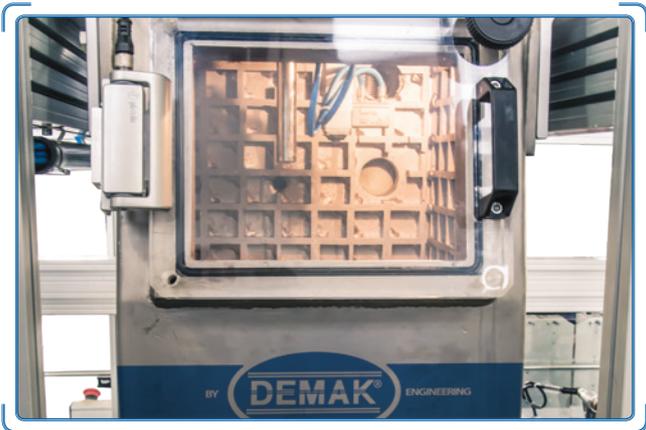




VACUUM CHAMBER [xyz] - 500x300x120 mm



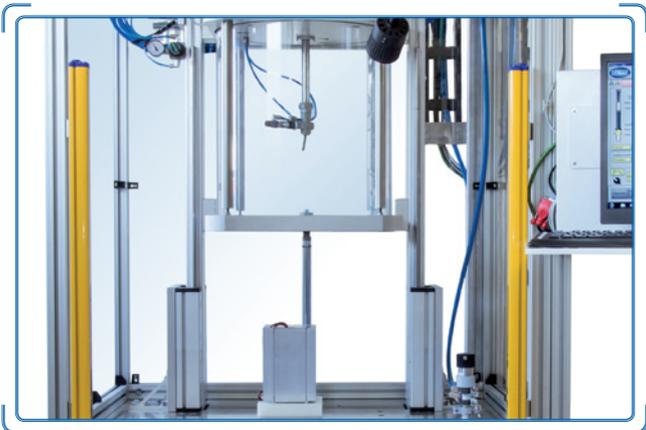
VACUUM CHAMBER [z] - 300x300x360 mm



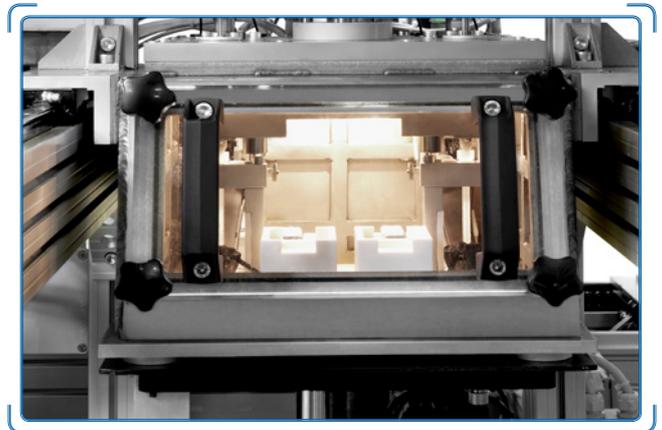
VACUUM CHAMBER [z] - 300x300x300 mm



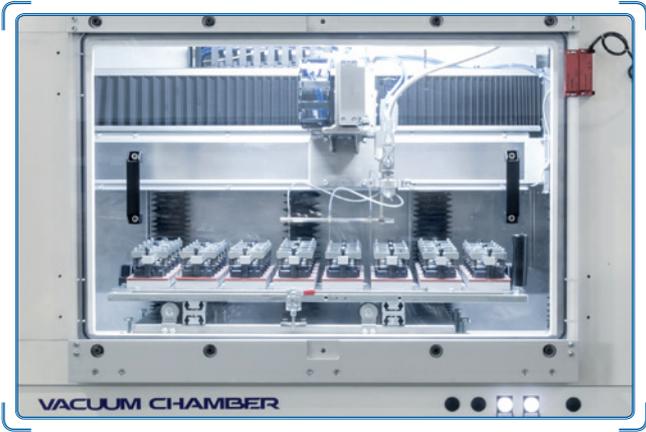
VACUUM CHAMBER [z] - \varnothing 900x330 mm



VACUUM CHAMBER [z] - \varnothing 380x440 mm



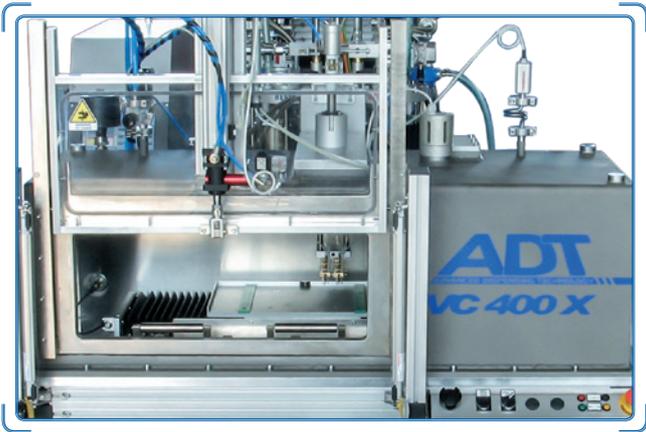
VACUUM CHAMBER [z] - 400x400x100 mm



VACUUM CHAMBER [xyz] - 650x300x400 mm



VACUUM CHAMBER [z] - ø 380x 110 mm



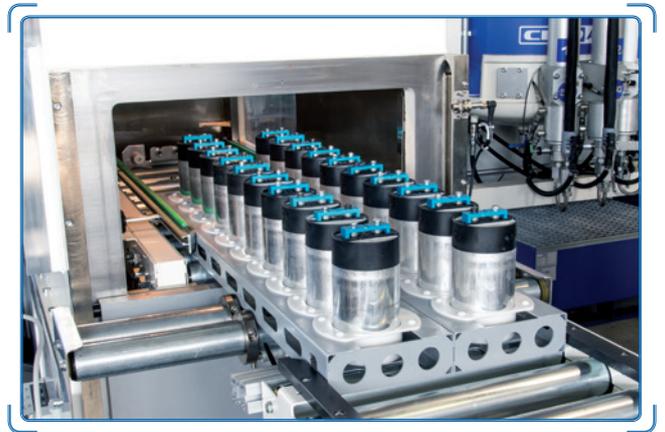
VACUUM CHAMBER [x] - 400x250x90 mm



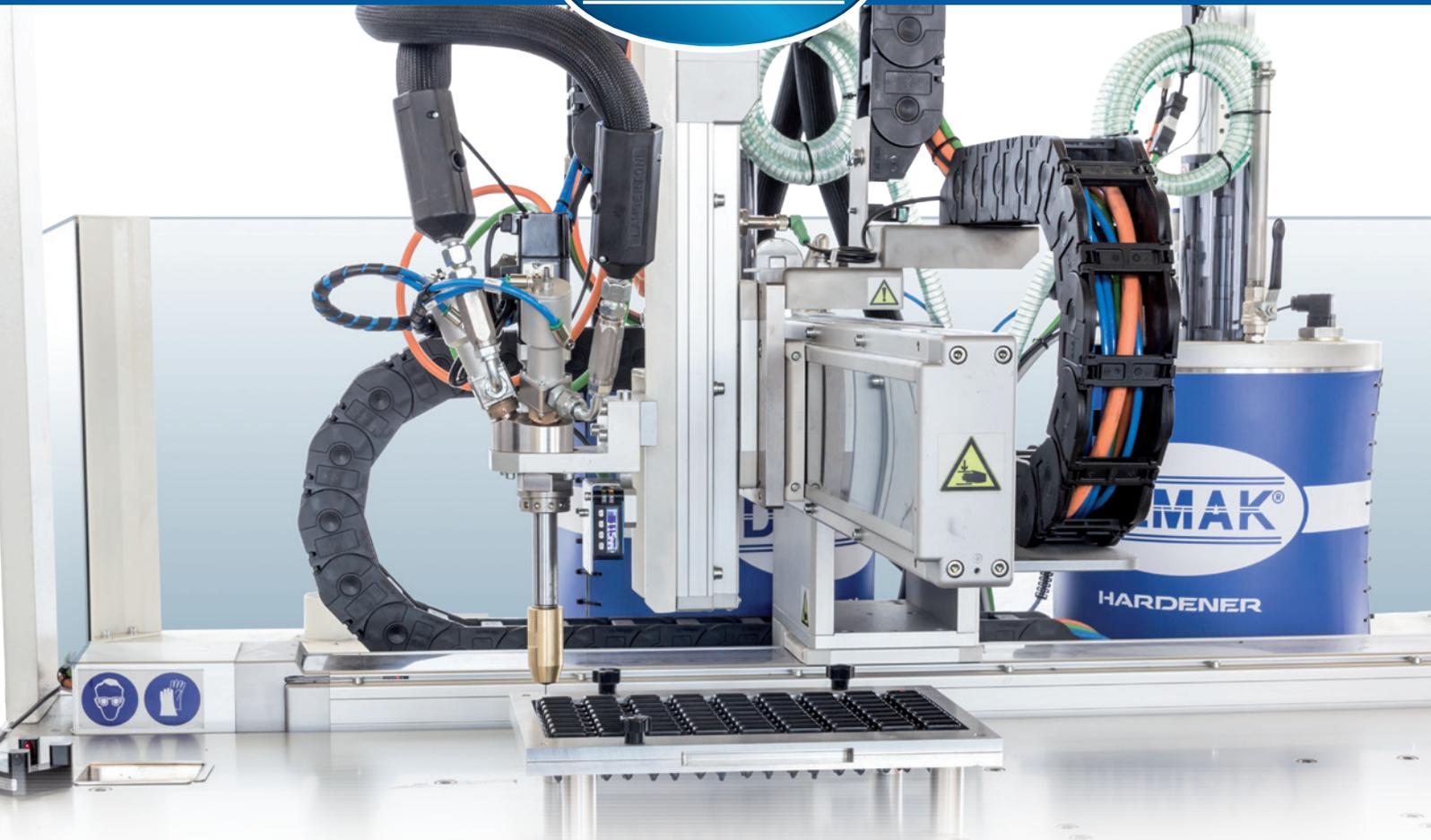
VACUUM CHAMBER [z] - 300x300x360 mm



VACUUM CHAMBER [xyz] - 500x380x450 mm



VACUUM CHAMBER [xyz] - 500x300x120 mm



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GROUP



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