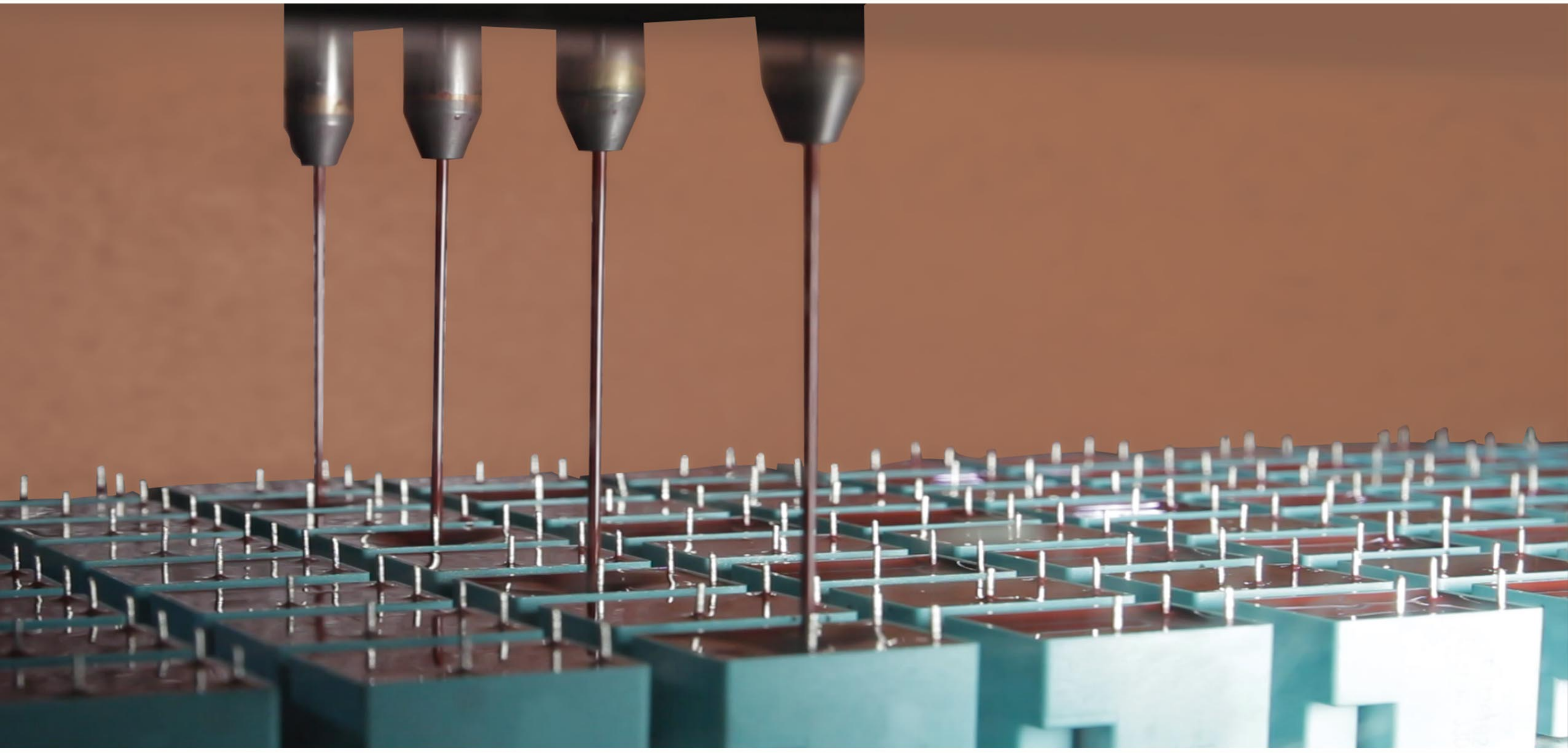




RESIN DISPENSING TECHNOLOGY
in preparation, dosing and mixing



Türkiye
Discover
the potential

www.rematomachine.com

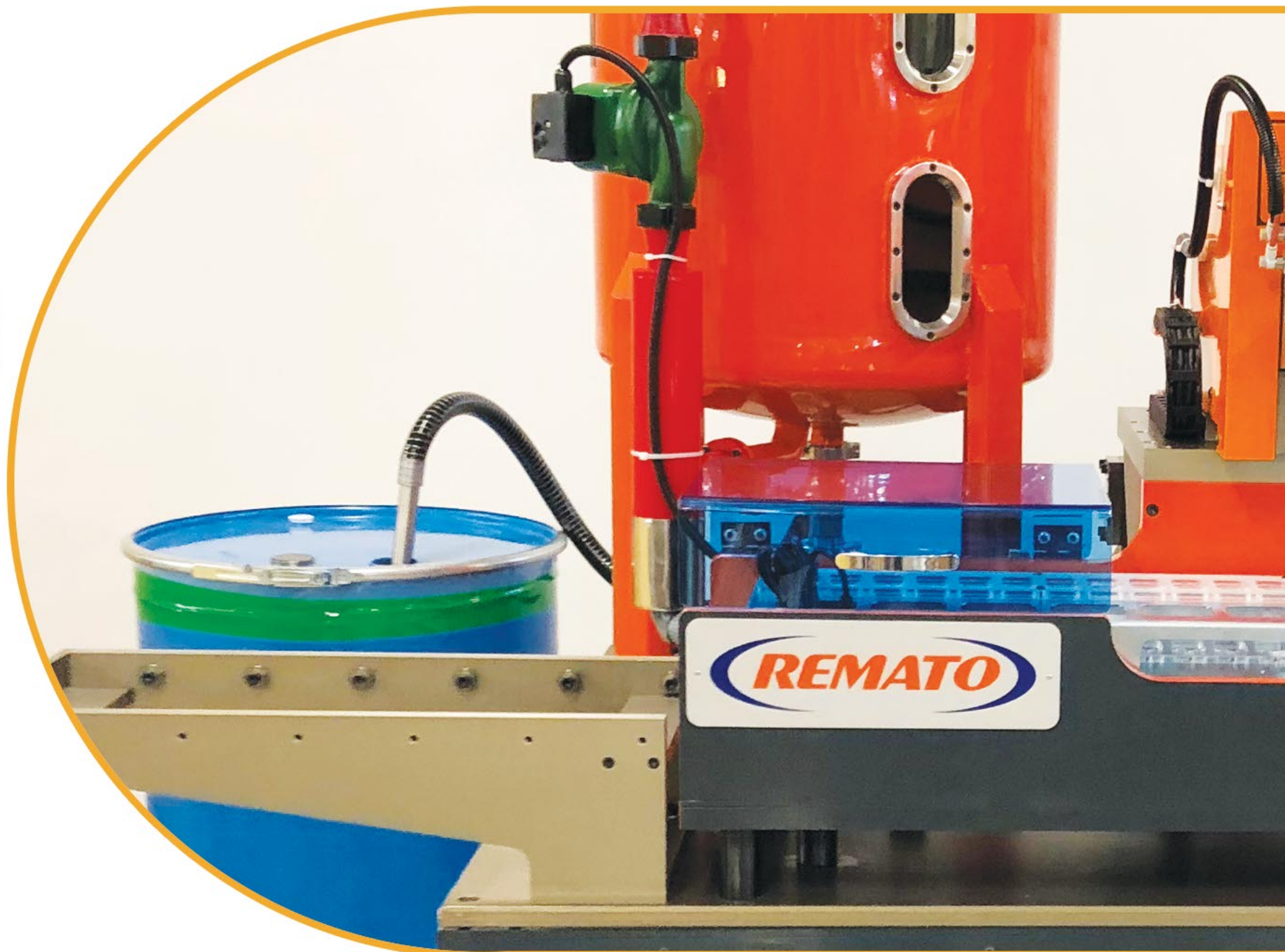
CONTENT

p.4 Preparation

1

p.6 Continuous Production

1.1



p.8 Dosing and Mixing

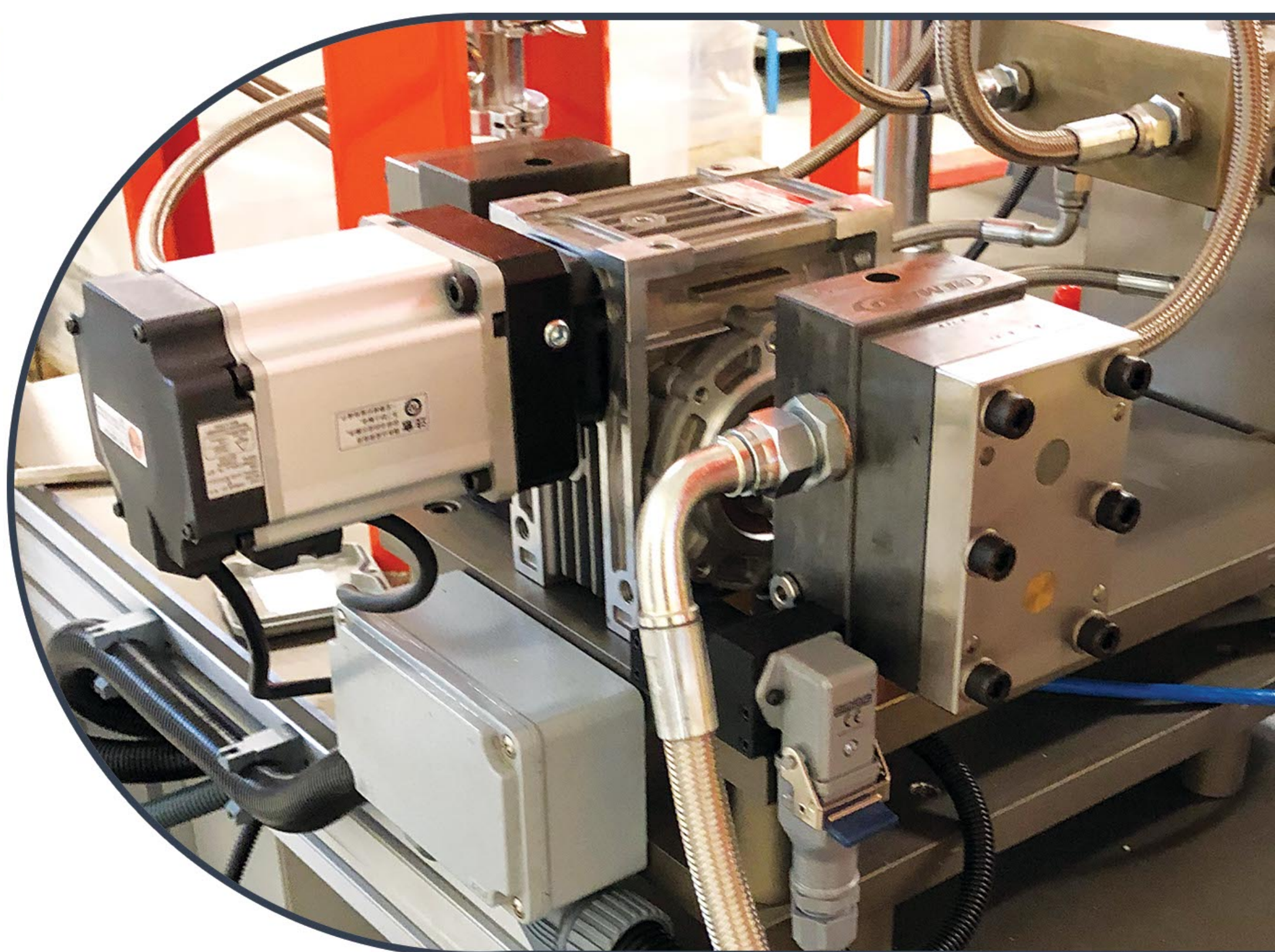
2

p.10 Dosing Pump and Control

2.1

p.11 Static Mixer

2.2



p.12 Dispensing

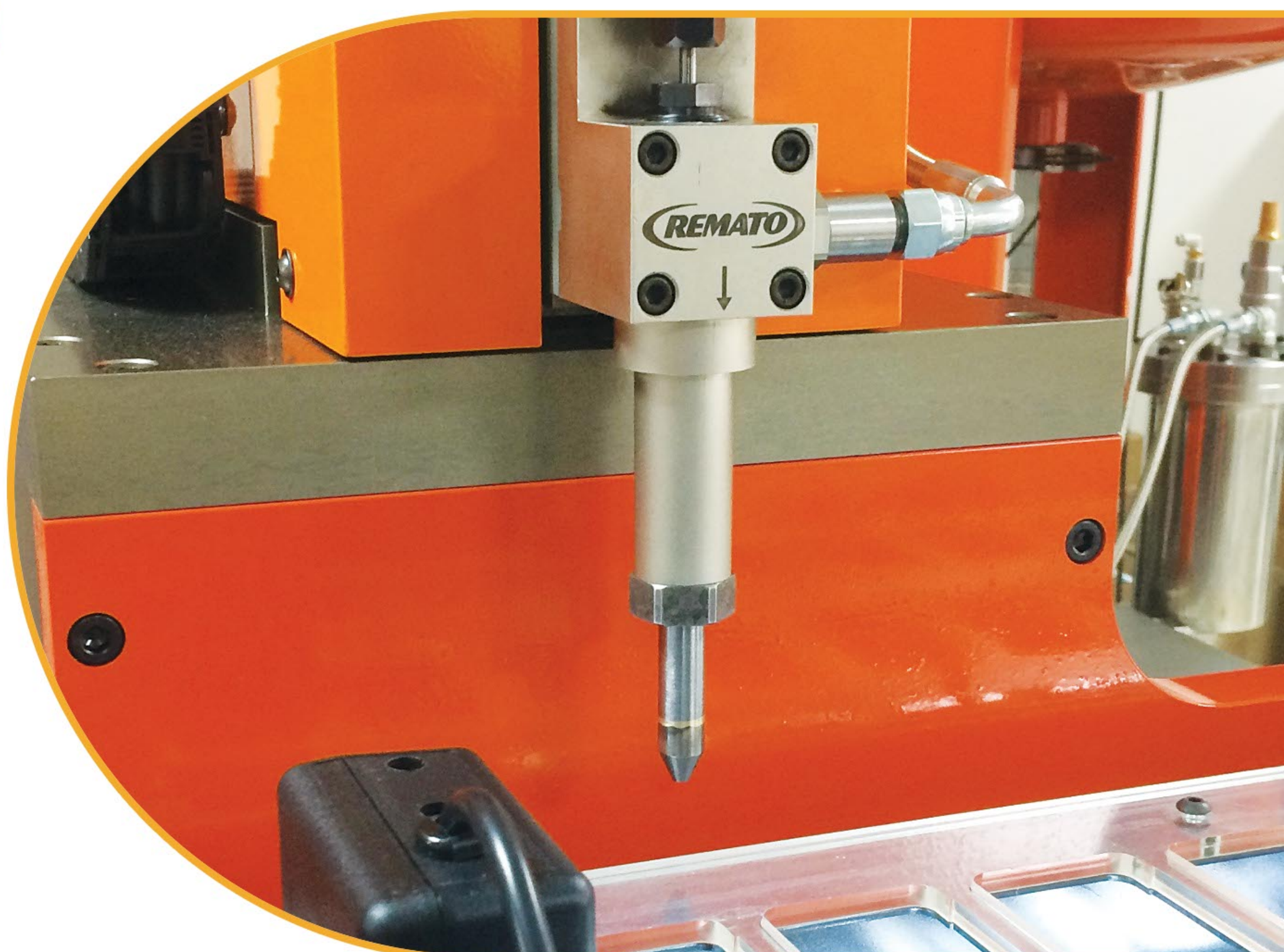
3

p.14 Atmospheric Dispensing

3.1

p.15 Vacuum Dispensing

3.2



p.16 About Remato



Preparation

The correct preparation of materials is the prior condition, which directly affects the quality of the reactive mixture. It should be ensured that the material is properly degassed and completely homogeneous.

It is necessary to take precautions against the sedimentation of additives and fillers in the containers of the materials coming from the manufacturer. The material components are then vacuumed into the tanks and then the mixing of the material begins under vacuum for optimal degassing.

Raw materials contain some moisture, air bubbles and evaporating gas in their own containers. These substances adversely affect the electrical and mechanical properties of the products and dosing. If the air bubble reaches the disperser, it may cause errors in the required amount of casting material and impair the mixing ratio. This can lead to uneven production results and scrap. Therefore, the way to obtain material homogeneity and the correct reactive mixture is to process the material in a vacuum environment.

A properly designed agitator circulates the material so it helps degassing. Thus, as the air bubbles in the resin rises to surface, it surrounds and destroyed by vacuum and pure raw material is obtained.

- Full homogenization
- No sedimentation
- Perfect Degassing
- Temperature controlled tank design
- Tank Vacuum Sensitivity +/- 0.5 mbar





Continuous Production

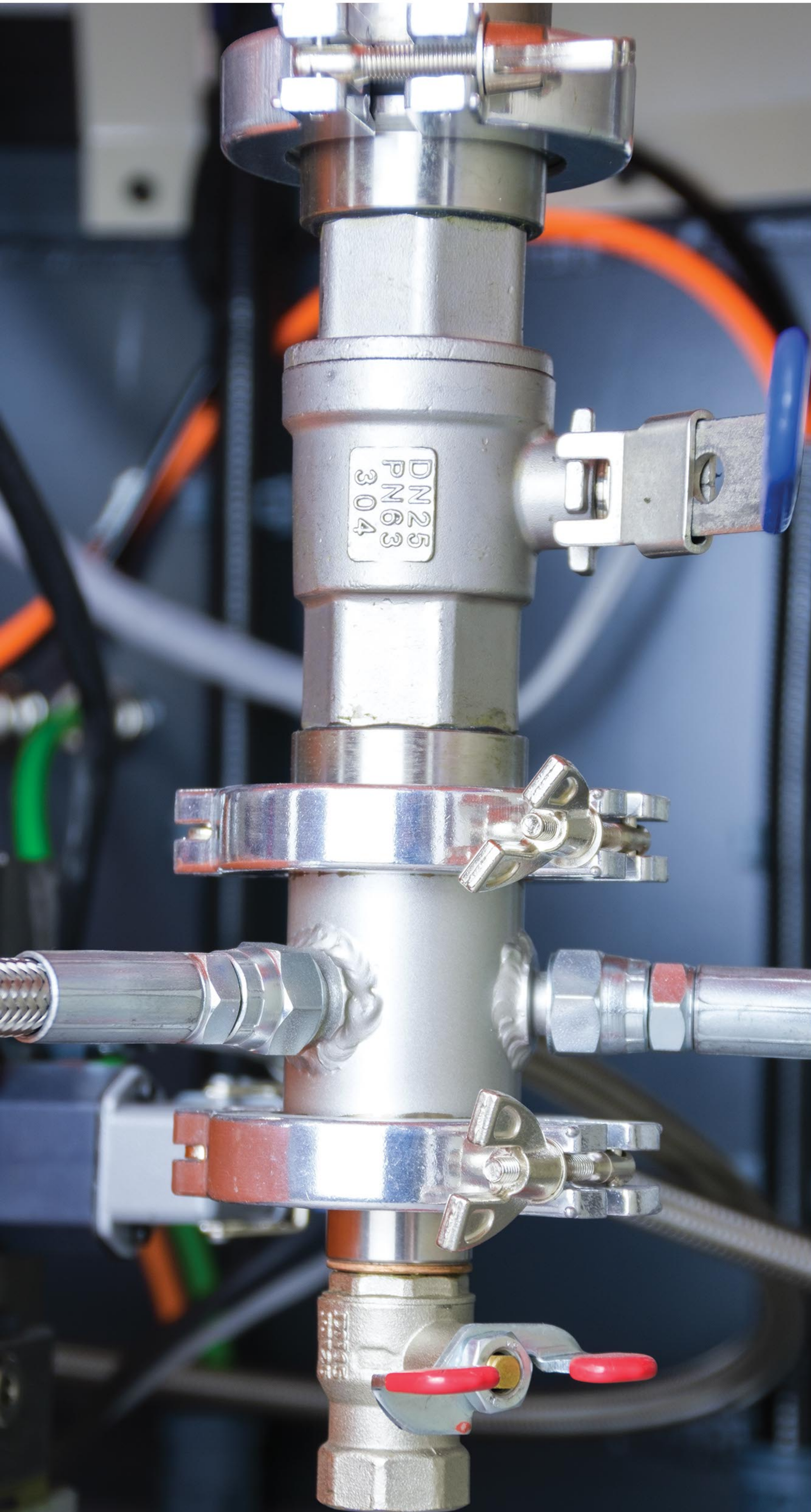


When there is a need for high-capacity production, extra preparation tanks need to be integrated into the system so that there is no waiting time for material preparation between shifts. After the ready material stock is finished, the homogeneous degassed material, is transferred to the casting tanks with the temperature-controlled feeding line and uninterrupted production is obtained.



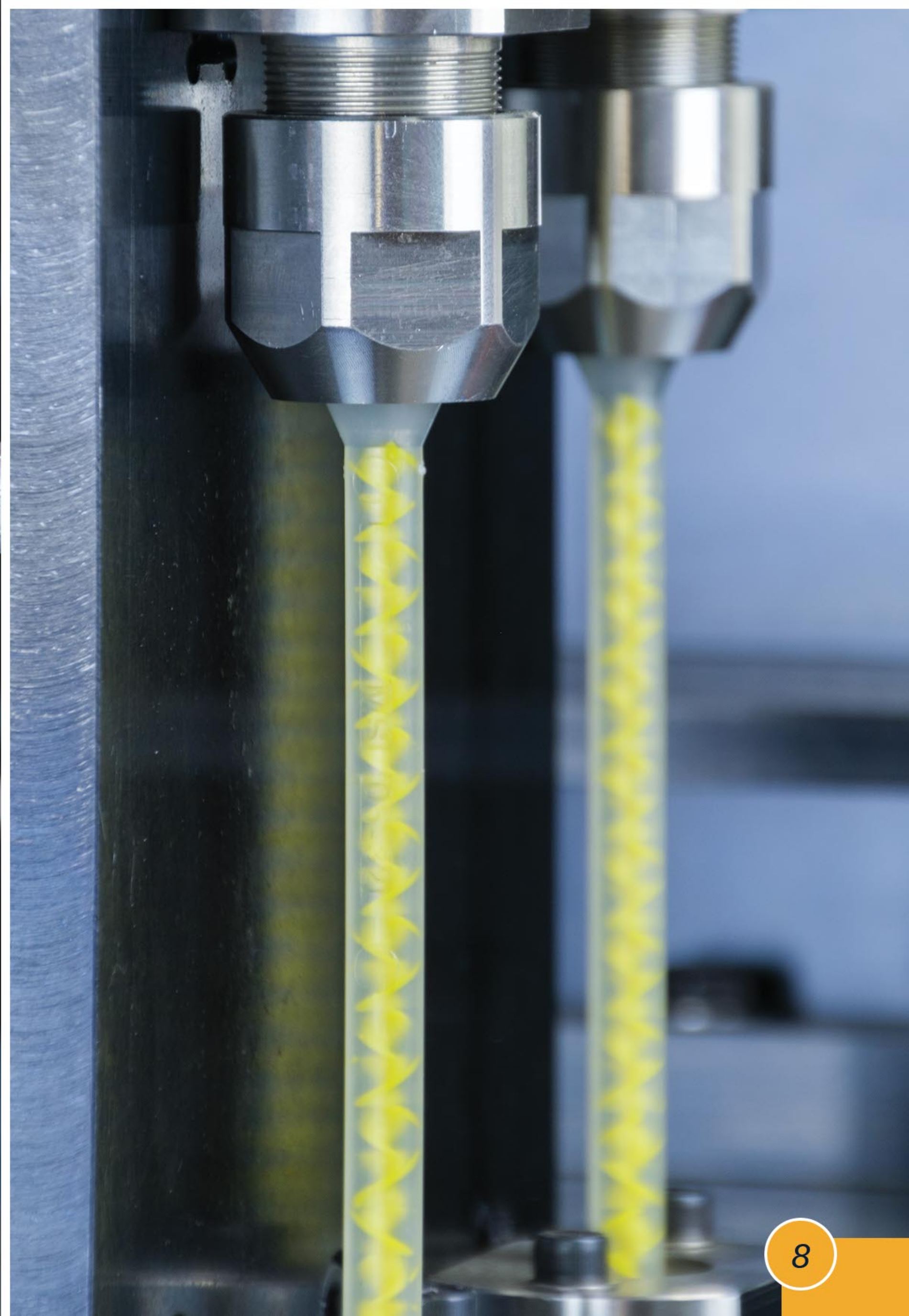


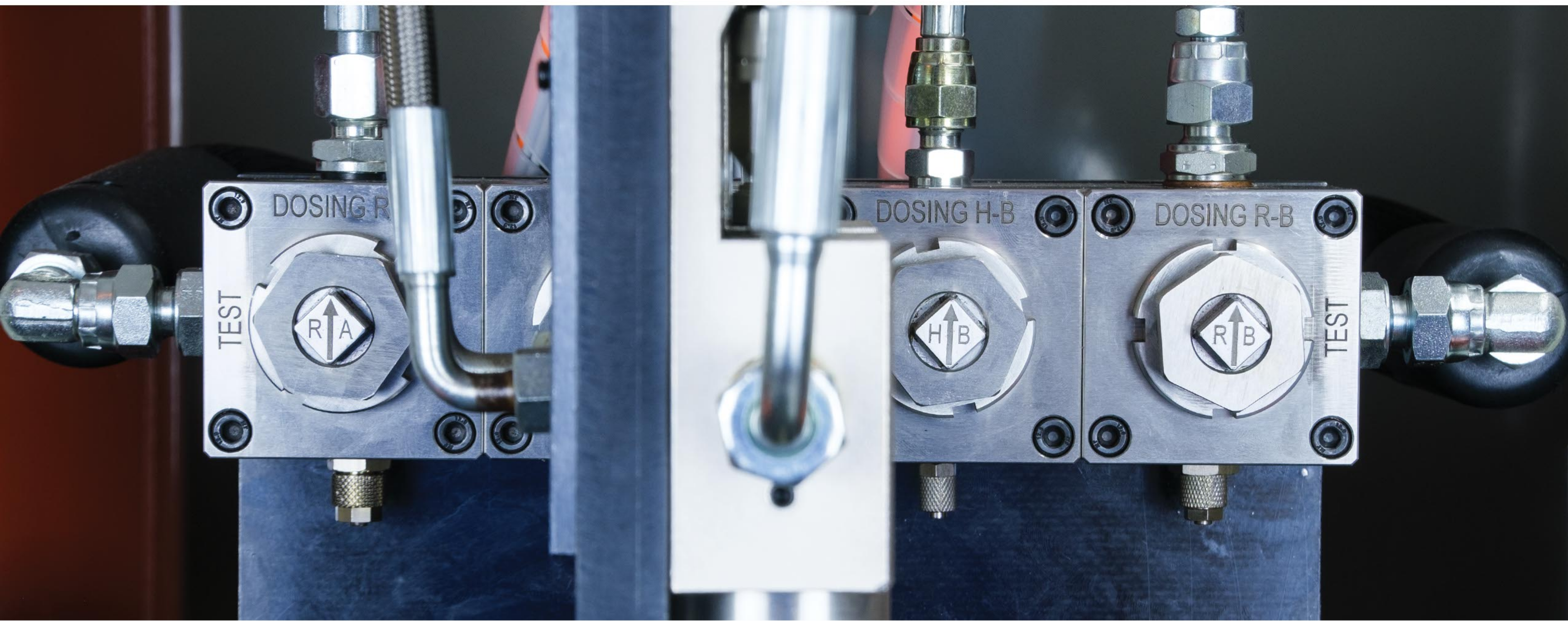
Dosing and Mixing



Precision and repeatability of the pumps in full harmony are of vital importance in order to obtain the reactive mixture in the desired ratio. Minor differences in mixing ratios and defects in mixing homogeneity cause rejected product.

Resin and hardener should be mixed as much as possible just before dispensing and then dispensed as soon as possible. Otherwise, increased viscosity in the reactive mixture leads to deterioration of the produced parts. All Remato equipment is equipped with an automatic dosing function to prevent such errors that may occur during the breaks of the operators.





Dosing Pump and Control

REMATO's dosing pumps are extremely wear-resistant and maintenance-free even with abrasive resins. They serve very precise dosing even smallest quantities.

The production of the right Reactive mixture requires very precise dosing. Thanks to servo motor controlled design, it allows you to control the resin flow rate very precisely. Accurate reactive mixture is obtained with precise flow synchronization of the pumps.

System pressures are under electronic control. In any pressure change, the process is stopped automatically and the reason is shown on the screen.

- Operation, control and programming via touch screen
- Mixing ratio, dosing quantity and dosing speed are adjustable in the interface
- Exact material level displays in real time
- Pump pressures and temperatures are displayed on the screen in real-time
- In case of faults or deviations, system stops and reported immediately
- Constant pressure



Static Mixer

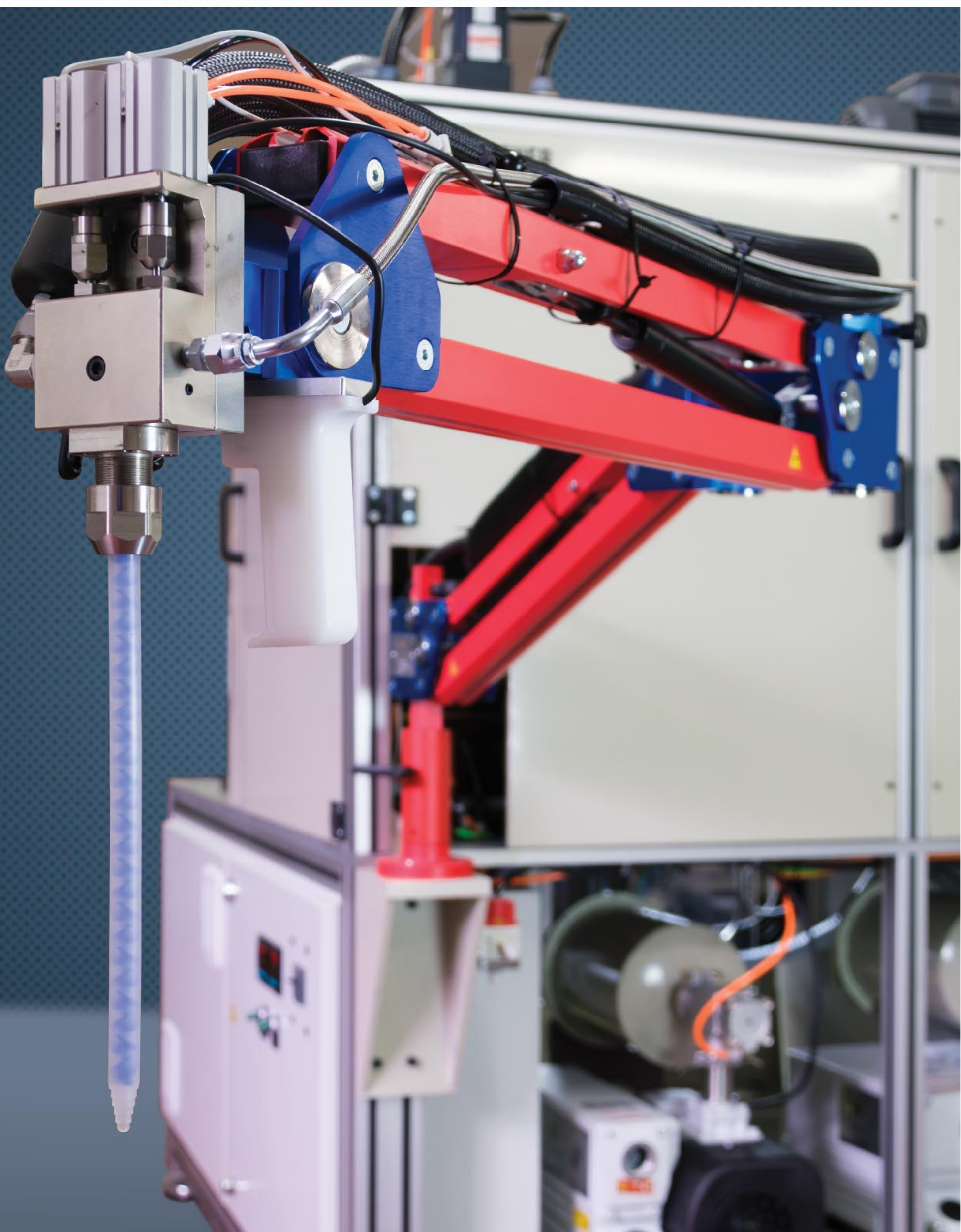
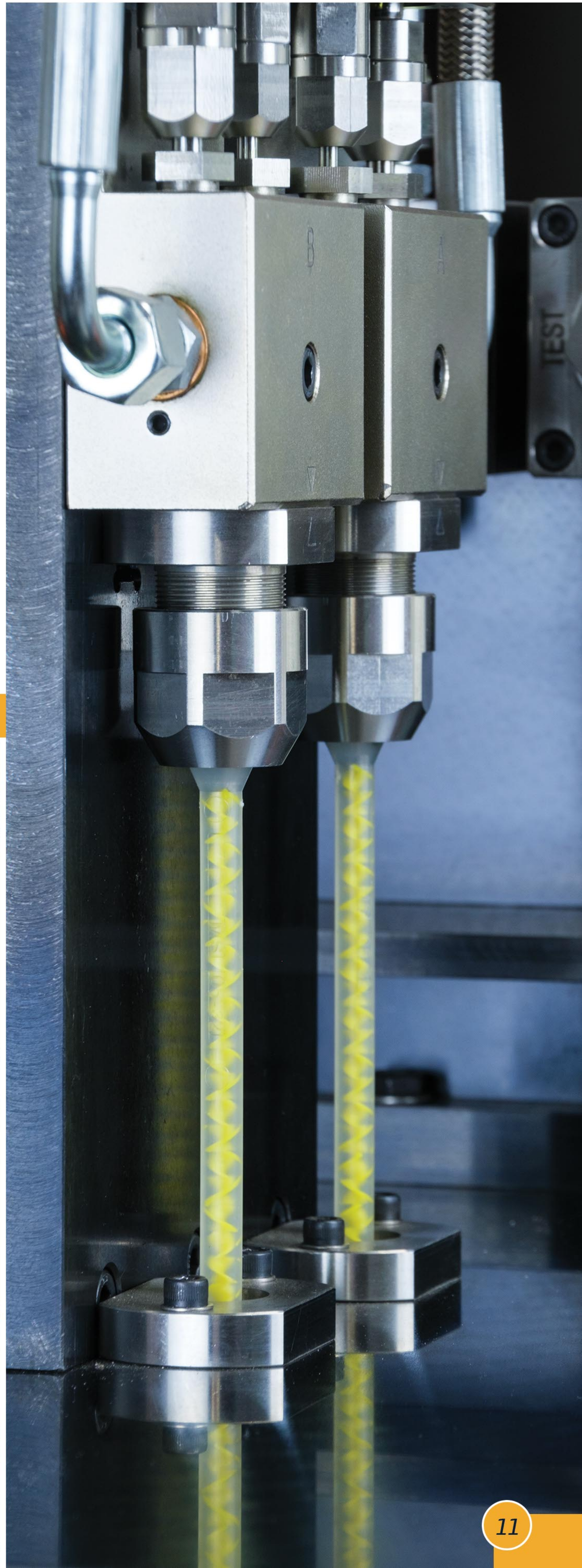
A static mixer is a precision engineered device for the continuous mixing of fluid materials.

The homogenous mixture of resin and hardener is provided by helical mixing panels positioned at 90 degree to each other placed in tube without dead space.

According to customer requirement Static mixers can be both disposable or the system can be equipped with a closed cleaning system.

The closed cleaning system has been developed for the least effort and optimal operation for the operators. The solvent in the cleaning tank cleans all of the machines's distribution paths with compressed air until the tip of the nozzle.

- — Perfect homogenization without dead space
- — Temperature controlled design
- — Low maintenance
- — Perfect homogenization for different mixing ratios.
- — Ensures optimal viscosity of reactive compounds at constant temperature

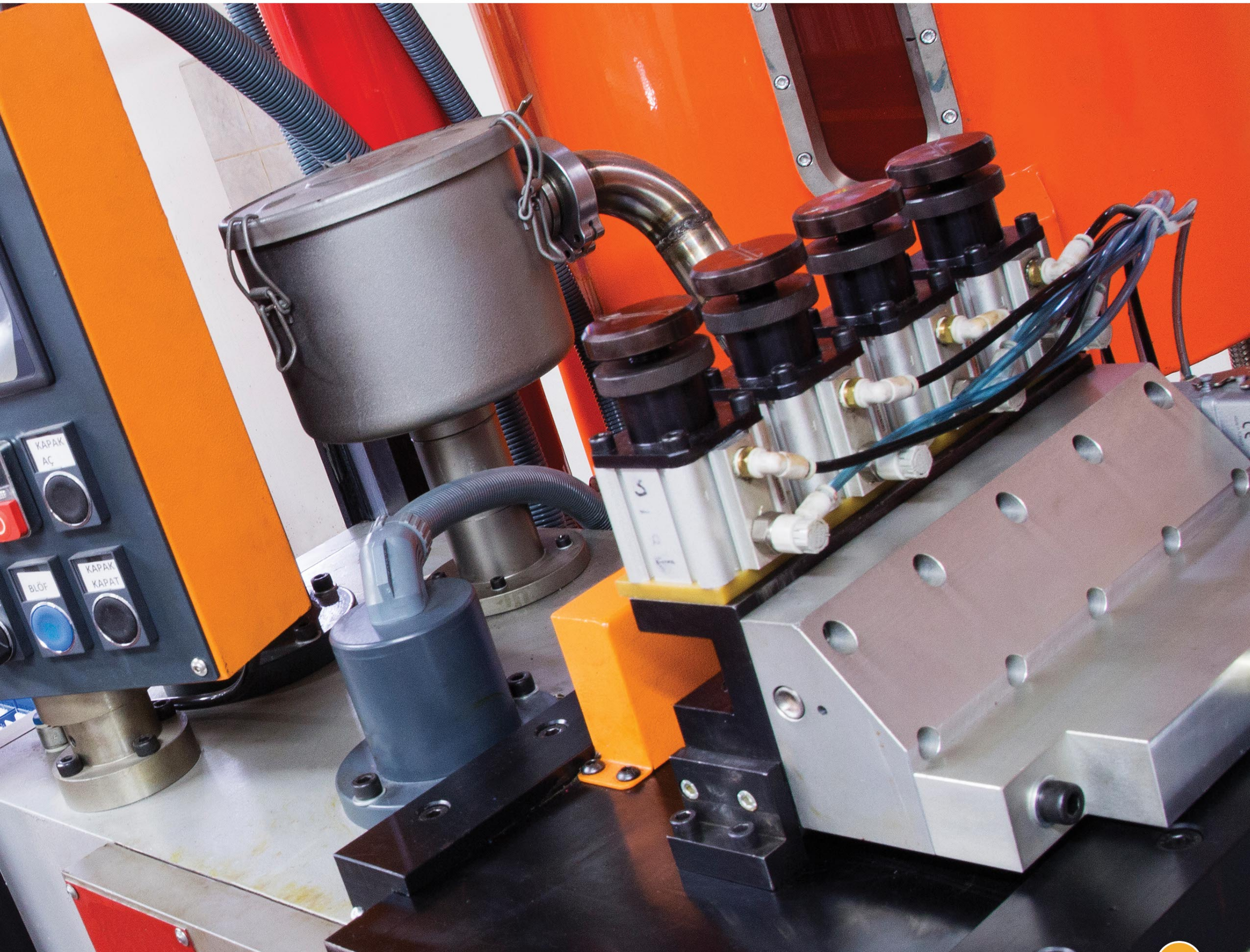


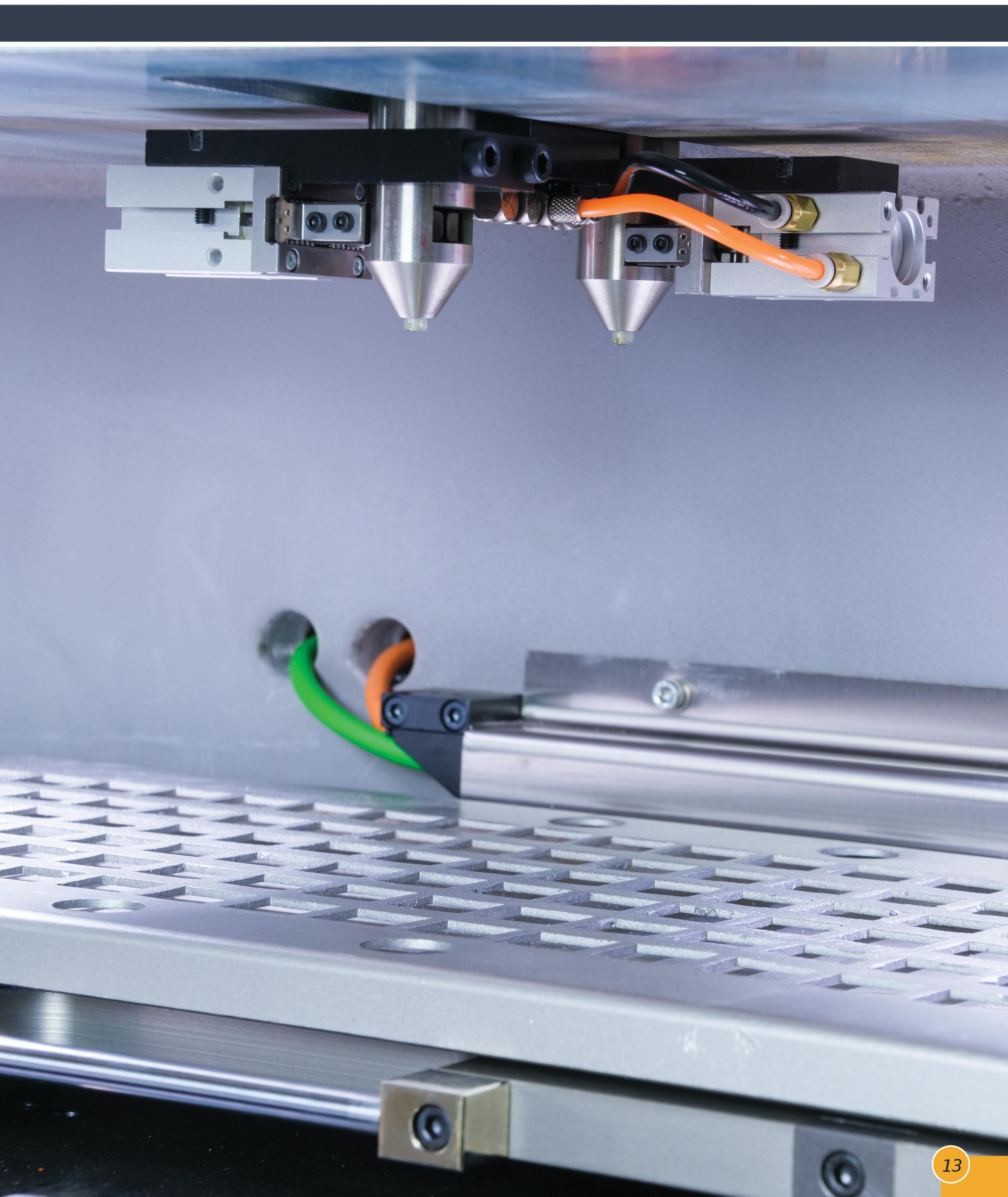
Dispensing

Remato's dosing nozzles are provided with closing pins. These extremely wear-resistant closing pins offer a very long service life with extremely precise and drip-free dosing.

The simultaneous movement of the dosing nozzles and trays optimizes the dosing process, thus reducing cycle times.

Choosing the right dispensing system is a key factor when considering the process engineering of a project as a whole. REMATO offers perfectly adapted solutions for precise dosing of many electronic parts and components in atmospheric or vacuum environment.



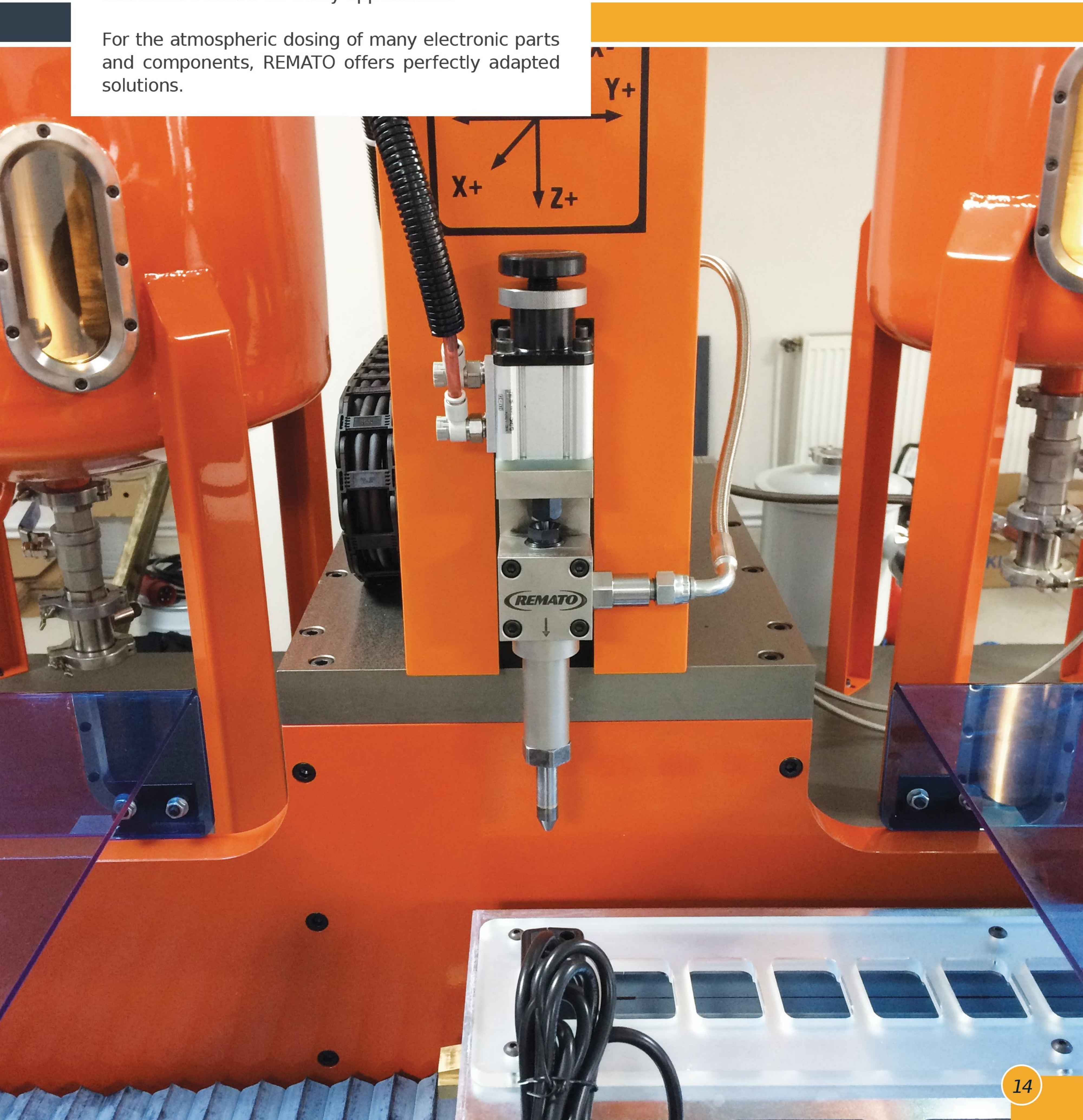


Atmospheric Dispensing

Atmospheric dispensing is important for many applications and quality requirements today.

Mixing and dosing degassed and dehumidified materials in atmospheric environment is quality and economic method for many applications.

For the atmospheric dosing of many electronic parts and components, REMATO offers perfectly adapted solutions.

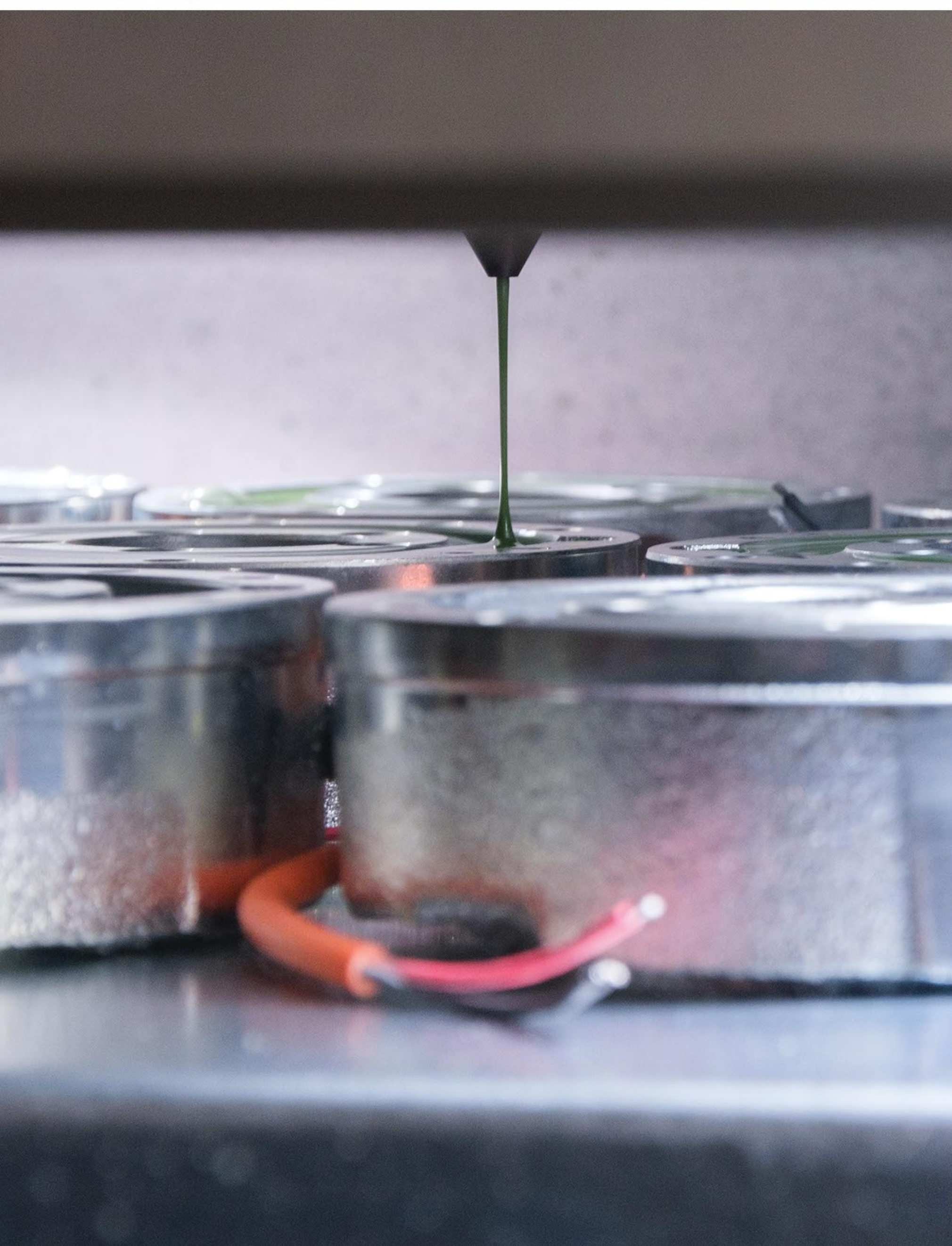
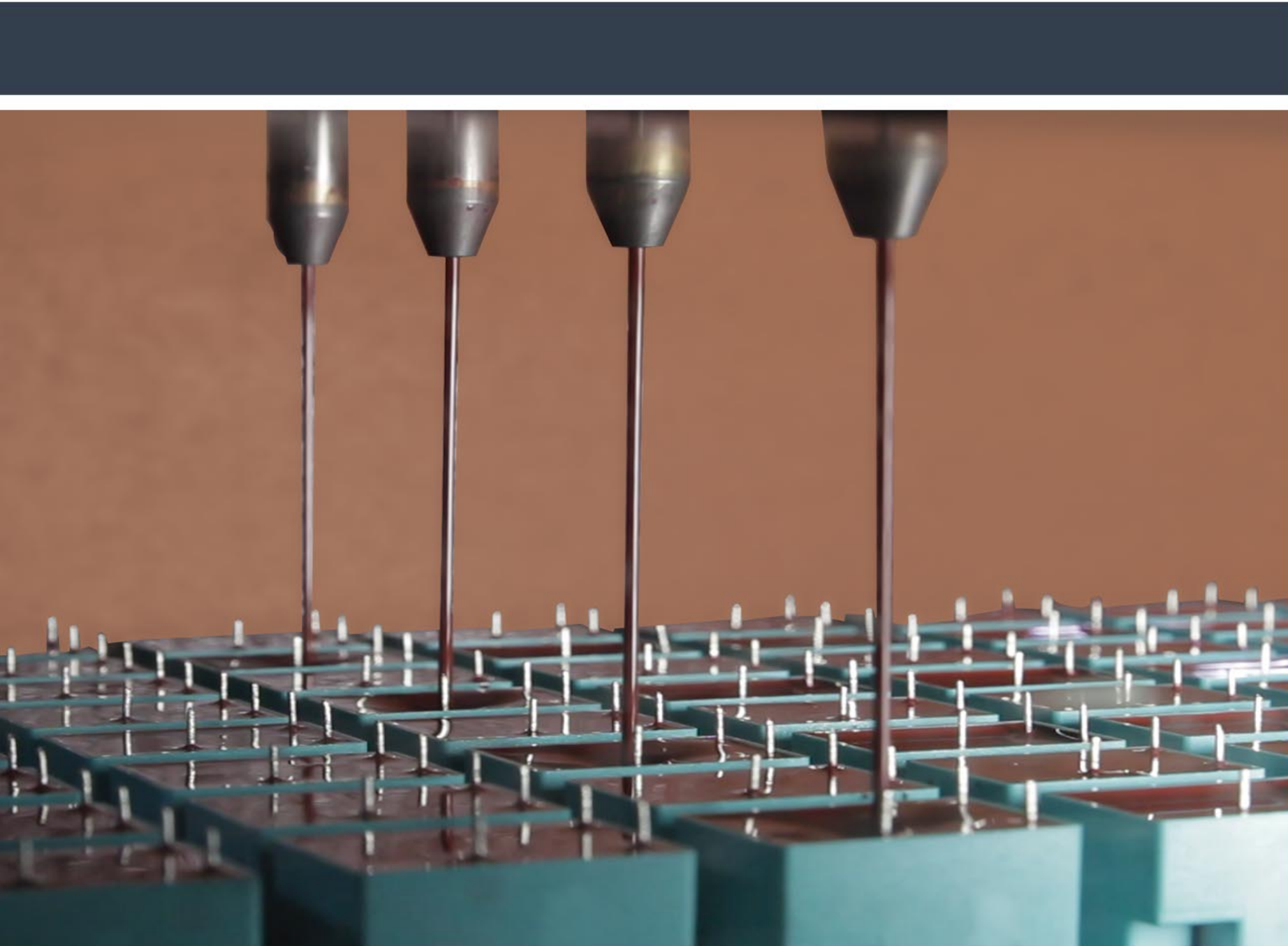


Vacuum Dispensing

Dispensing under vacuum; At the highest quality requirements, it guarantees reliable operation over the whole lifetime of the products, with the perfect results of full impregnation level of the resin.

In complex product geometries, potential voids in corners and edges can collect air bubbles during dosing, which can subsequently cause complete failure. This situation is avoided by dispensing under vacuum. The most important factors here are the absence of bubbles and effective protection against moisture.

Electromagnetic coils, and especially ignition coils, must meet extremely high quality standards. When they are potted with resin under vacuum, they provide better protection against environmental influences in terms of high voltage, high temperature resistance, electrical insulation, heat dissipation and mechanical stability.



About Remato



REMATO has developed advanced expertise in designing and manufacturing of superior quality machines for the production of wound components and their encapsulation processes for more than 30 years.

Thanks to this experience, it is one of the leading suppliers in the industry with having ability to customize their systems and produce effective solutions for customers' winding and dosing needs.

REMATO with its wide range of products, provides reliable service to its customers from stand-alone machines to fully automated lines that can meet their production needs.

Over the past 30 years, REMATO has continued to develop with a unique passion to high-quality engineered systems, as well as develop user-friendly software for easier management of machines. And today, the company proudly stands out its success in the areas of SOFTWARE, QUALITY and SERVICE.



Software

TARGET: Programming capability without the need of user manual.

To this end, REMATO has developed sophisticated Windows-based software structures that transform complex tasks into smaller, simpler functions.

Thanks to the intelligent modularity of our software implementations, machines are easier to manage and user friendly, giving our customers the ability to work more efficiently, gain more comfortable and safe control capability and to program in a very short time.

Thanks to this sensitivity, Remato combines knowledge with durability and functionality to ensure first-class systems are delivered to customers.



Quality

REMATO always aims to provide its customers with top-notch quality products complying with international standards and norms.

Our company ensures the continuity of the production successfully by program development, mechanical design, parts making and assembling. It manages all processes with the quality management system that it has established in accordance with the ISO 9001 standard and presents the customers with faultless systems.

Each part of our equipment is passed from 100% tests and assemble precisely and that leads high precision with good stability of the machine and obtains maximum efficiency for our customers.



Service



Providing our customers with exceptional service and effective support for our systems to work consistently and efficiently is a pioneering criteria for us. Also we focus on equipment planning and after-sales service to ensure timely delivery and customer satisfaction.

In order to provide the best service we continuously train our technicians to have special knowledge about the systems and guide you through the installation and initial programming trainings in your factory for the entire lifetime of the system by our expert staff.

A Worldwide Brand



30+ years of experience with trusted R&D solutions to solve your winding and dosing projects.

OUR KEY CUSTOMERS







RESIN DISPENSING TECHNOLOGY
in preparation, dosing and mixing

REMATO

ELEKTRONİK MAKİNE
SAN. ve TİC. LTD. ŞTİ

Yakuplu Mh. Beysan San. Sitesi
Birlik Cad. No:21
Haramidere - Beylikdüzü / İstanbul
TURKEY

t: +90 (212) 875 06 24
f: +90 (212) 875 06 23
m: +90 (553) 754 06 24
info@rematomachine.com



Türkiye
Discover
the potential

www.rematomachine.com