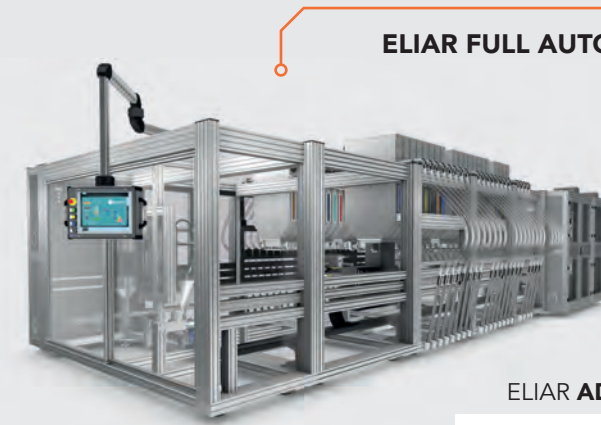




LABx
AUTOMATIC LABORATORY DOSING
AUTOMATION SYSTEM

The single address for all automation
needs of the textile industry.

Control Your Factory.



ELIAR FULL AUTOMATIC DYESTUFF KITCHEN

ELIAR ADW

You can watch our **ADW** promotional
video by scanning the QR code
on your mobile device.



ELIAR RDD

You can watch our **RDD** promotional
video by scanning the QR code
on your mobile device.



ELIAR FULL AUTOMATIC
DYESTUFF KITCHEN

ELIAR RPD

You can watch our **RPD** promotional
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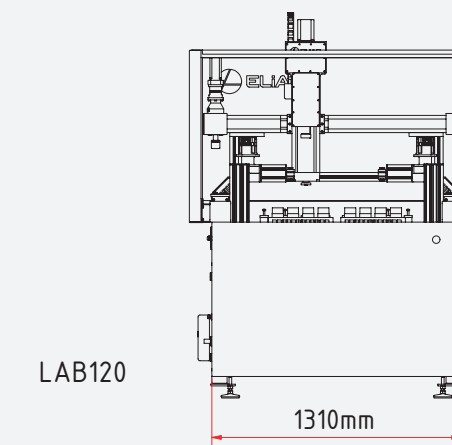
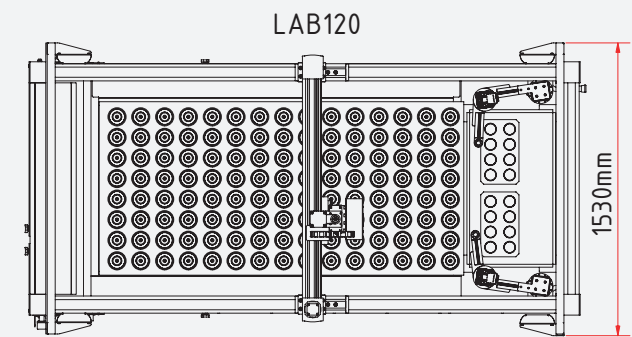
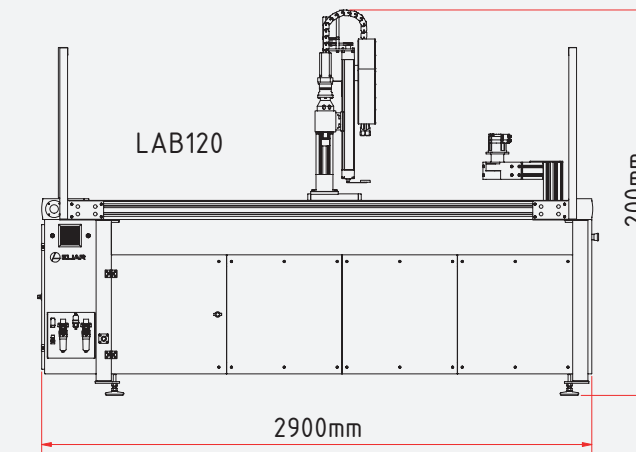
ELIAR DYEHOUSE
SUPERVISORY SOFTWARE

ELIAR TELESKOP

You can watch our **TELESKOP**
promotional video by scanning the
QR code on your mobile device.



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Technical Specifications

Dyestuff Capacity	: 40-80-120-160
No. of Dyestuff Tubes	: Robotic Selection
Number of Scales	: 2 x Digital Scales
Scale Accuracy	: Gravimetric, 0,01 g

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THE MOST PRECISE SOLUTION FOR YOUR LABORATORY RECIPES

Regardless of the size of your enterprise, the raw material you will process and the dyeing method you apply, the first step in obtaining the right color and shade in production is the correct creation of the laboratory dyeing recipe. After the recipe is created, it is necessary to cut the textile surface to be dyed in the laboratory in the right amount, to dissolve the dyestuffs in the prepared recipes with high precision, and to dose these solutions into the dyeing tubes according to the recipes to be studied. Eliar offers the most efficient laboratory automation system, the LABx product family to your service, so that your laboratory dyeing process can be carried out error-free and quickly.

DESIGNED TO MAXIMIZE THE EFFICIENCY OF YOUR LABORATORY

Developed with the engineering and assurance of Eliar, LABx is built to make your laboratory dyeing process faster and more precise. Eliar, which is among the world leaders with the products it produces for the textile industry, ensures that your laboratory work with maximum efficiency with the LABx it has developed. With LABx, you can have a laboratory where you can create your dyeing recipes perfectly and at the same time completely eliminate the errors and accidents that may occur during the application.

SPECIFIC CONFIGURATION FOR YOUR LABORATORY

ELIAR LABx product family can be configured with a solution capacity of 40, 80, 120 or 160, taking into account parameters such as the dyestuff types you use in your enterprise, the color variety you will apply and the type of material to be dyed. Eliar LABx manages the processes of weighing the textile material to be dyed and preparing the dyestuff solutions. Following the preparation process, it prepares a total of 1.100 daily recipes in order to apply your recipe exactly, thus ensuring the right result in one go.

GRAVIMETRIC (MASS) WEIGHING PRINCIPLE

In dyeing processes, dyestuffs, chemicals and minerals are always prepared with the principle of mass measurement. It is of critical importance in terms of both precision and reproducibility that laboratory studies, which will turn into production recipes in the next stages, are carried out with the gravimetric principle. ELIAR LABx allows you to follow the gravimetric weighing principle in your laboratory with its 2 high precision integrated electronic scales. In this way, it is ensured that laboratory recipes are adapted to production recipes with higher efficiency.

PERFECT DOSING WITH MULTI SYRINGE TECHNOLOGY

ELIAR LABx uses individual syringes for each dyestuff solution included in the automation system. In this way, time is not lost with syringe cleaning and both serial and parallel dosing continues uninterrupted. Since the cleaning step is completely eliminated, critical risks such as mixing of dyestuff solutions in the syringe are also eliminated. ELIAR LABx provides a unique laboratory dosing experience as it does not require syringe calibration thanks to its multi-syringe technology.

MULTI-AXIS SIMULTANEOUS AND ADJUSTABLE OPERATIONAL CAPABILITY

Thanks to the main dosing robot and 2 additional robots working simultaneously on different axes, ELIAR LABx carries out the water filling, salt dosing and dyestuff solution dosing steps at the same time and feeds 24 separate dyeing tubes uninterruptedly. Thus, all possible waiting times are considered as active dosing times. ELIAR LABx has been designed in a structure that allows dyestuffs to be grouped and to define different mixer speeds for these groups. It is ensured that all of your dyestuff solutions maintain the targeted homogeneity level throughout their use, and thus, your recipes are applied with a high percentage of accuracy.

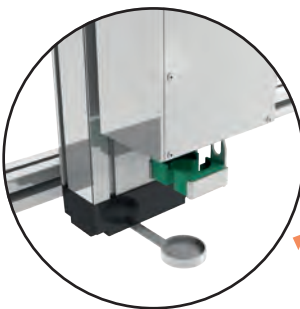
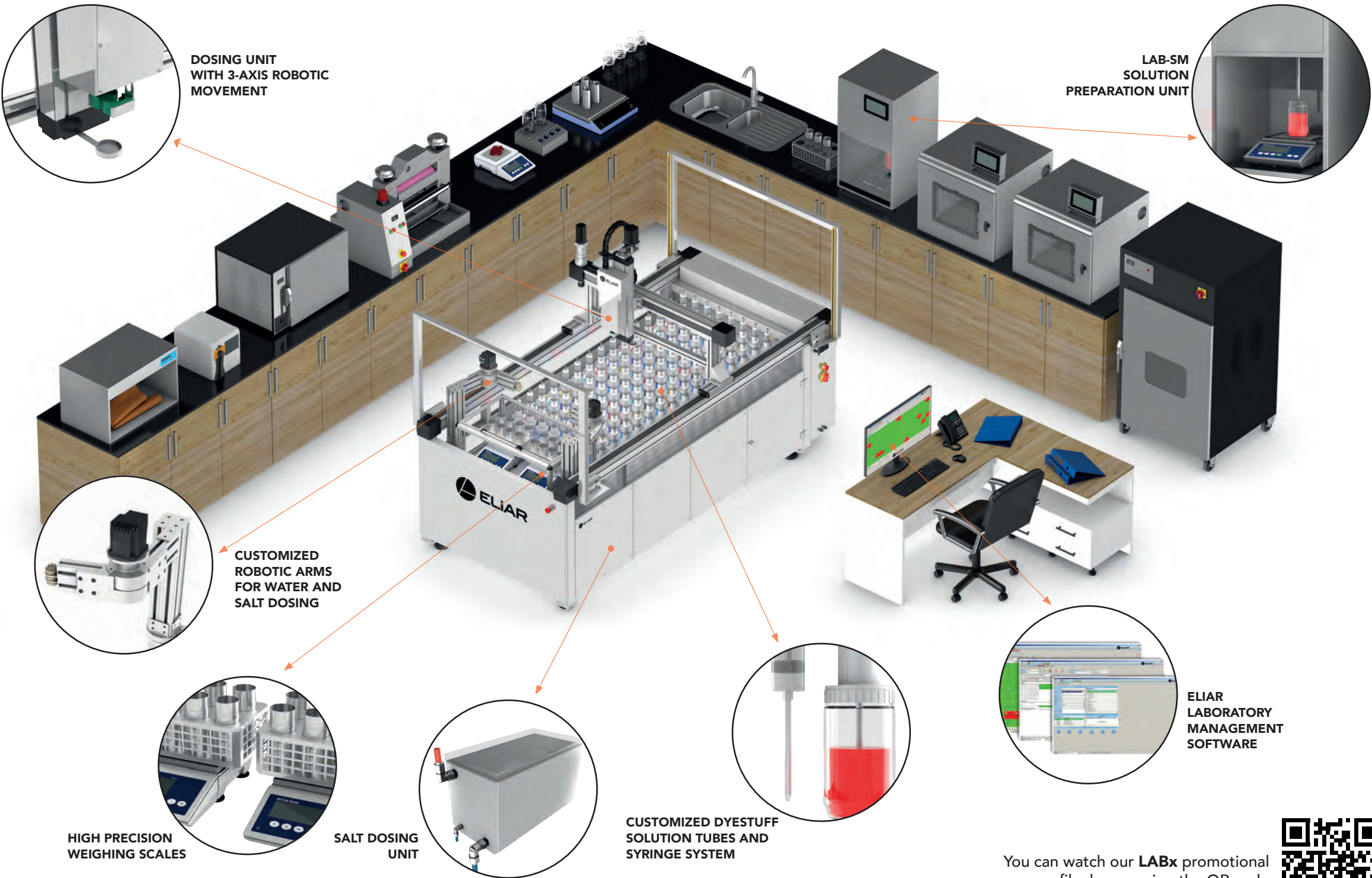
- 3 DIFFERENT DOSING ROBOTS
- ADJUSTABLE MIXING FREQUENCY

ELIAR LABx LABORATORY MANAGEMENT SOFTWARE

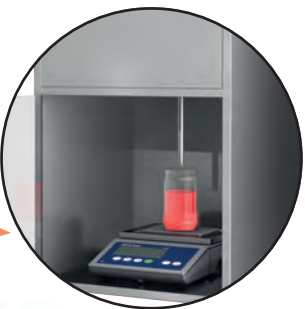
Preparation of dyestuff solutions, numbering of the prepared solutions and defining their position on the ELIAR LABx tray, tracking the amount of use of these solutions in the recipes, warning for the preparation of new solutions in cases such as the end of the solution, the expiration of the useful life, the preparation of your recipes according to the color and tone to be obtained, the laboratory of the prepared recipes are all handled by ELIAR LABx Software. All your laboratory processes are always under control and recording, thanks to the ELIAR LABx Laboratory Management Software, which has functions such as entering the dyeing program into the actual production dyeing program, accuracy scoring for each dosed dyestuff solution and complete recipe, converting approved laboratory recipes into production recipes, and recipe archiving.

PERFECT PROJECTS WITH EXPERT ESTABLISHMENT IN THE TEXTILE INDUSTRY

Aligned with its vision for the future, with the awareness that the only way to progress is the triangle of qualified knowledge, qualified workforce and optimum cost, Eliar, thanks to its wide engineer staff specialized in their fields and the R&D center that directs technology, shares its deep application experience with you from the projects it has carried out in different parts of the world. During the selection and projecting of the most suitable laboratory automation system, Eliar also cooperates you in every aspects of your automation project and with its technical team specialized in textile automation systems, takes the responsibility of all design, project and engineering works, installation stages and commissioning processes from the production of your project until the delivery stage and always offers you turn-key automation projects.



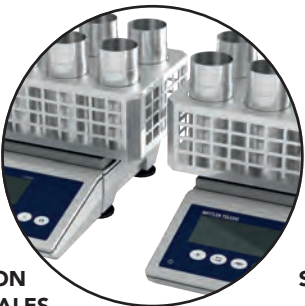
DOSING UNIT
WITH 3-AXIS ROBOTIC
MOVEMENT



LAB-SM
SOLUTION
PREPARATION UNIT

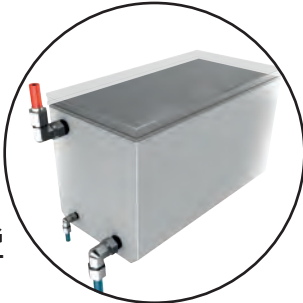


CUSTOMIZED
ROBOTIC ARMS
FOR WATER AND
SALT DOSING

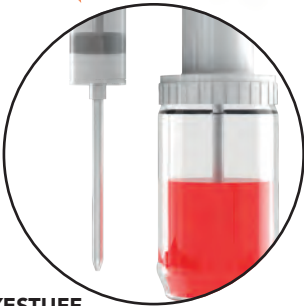


HIGH PRECISION
WEIGHING SCALES

SALT DOSING
UNIT



CUSTOMIZED DYESTUFF
SOLUTION TUBES AND
SYRINGE SYSTEM



ELIAR
LABORATORY
MANAGEMENT
SOFTWARE

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