



T7700 is Fully Automatic Controller for Textile Dyeing and Washing Machines. With its flexible software infrastructure, it is compatible with all discontinuous machines regardless of brand and model.



Thanks to the Integrated Web Server, it provides ease of use and management for both the operator and technical maintenance team with features such as remote control, machine maintenance management, wireless monitoring.

It incorporates the latest software technologies with its LINUX operating system.

It provides a completely user-friendly interface with its 10.4" color touchscreen and keypad.

With USB and Ethernet connections, it provides easy access to projects and programs, software updates and remote technical support.

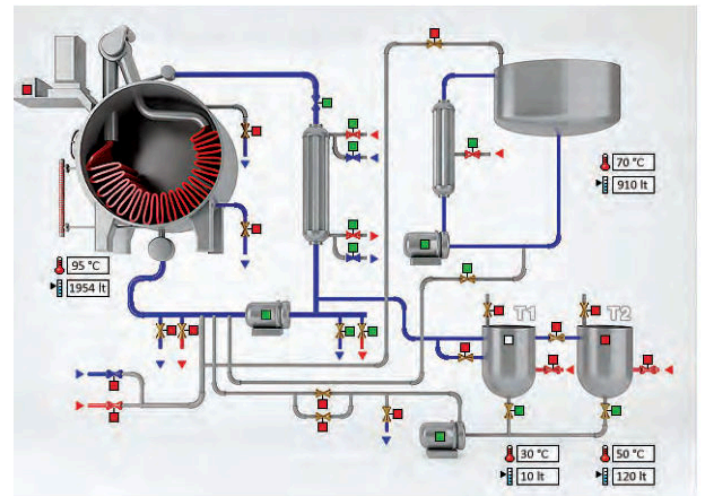
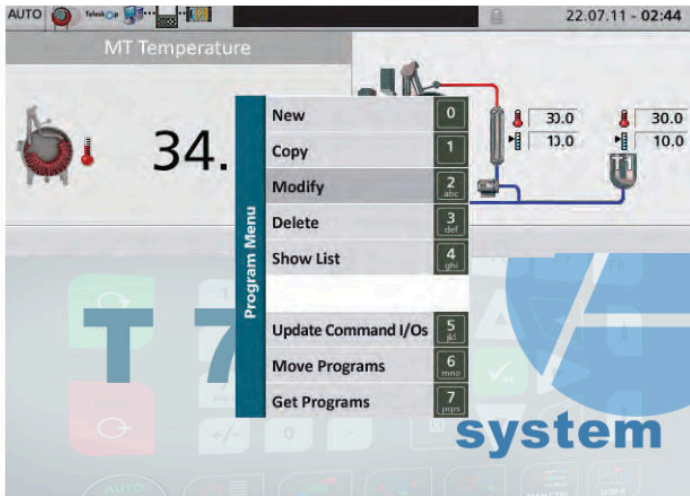
It provides a more detailed monitoring opportunity with animated mimic diagrams.

It ensures all process data to be recorded centrally by its continuous communication with TELESKOP Supervisory Management Systems.



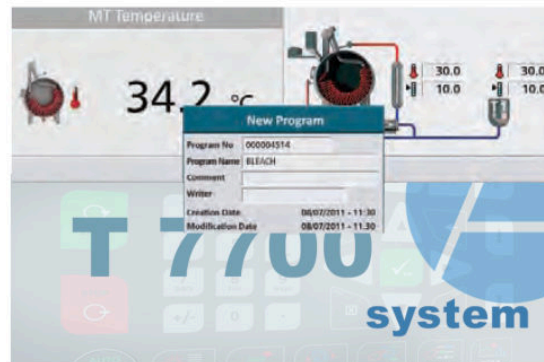
## BATCH CONTROLLER

*For discontinuous fabric, yarn dyeing and garment dyeing, washing machines*



## Easy to Use and Monitor

- Colorful graphical interface and interactively machine monitoring
- Touch screen
- Ability for user to change the information displayed on the screen
- Moving machine mimic diagrams
- Real-time temperature and level curves
- Real-time "tours - tour time" chart
- Managing machine equipment maintenance periods
- Manual interventions and their causes
- Idleness and its reasons
- Alarm management and alerts
- Manual intervention possibility
- Remote desktop connection
- Working as field data collection unit
- Password protection



| Command List  |  |
|---------------|--|
| Command Name  |  |
| Fill Liters   |  |
| Fill Ratio    |  |
| Get Dye Water |  |
| MT Transfer   |  |
| Get Dye Water |  |
| Fill Liters   |  |
| Fill Ratio    |  |
| Fill Liters   |  |
| Fill Ratio    |  |
| Fill Ratio    |  |

## Storage, Backup and Maintenance

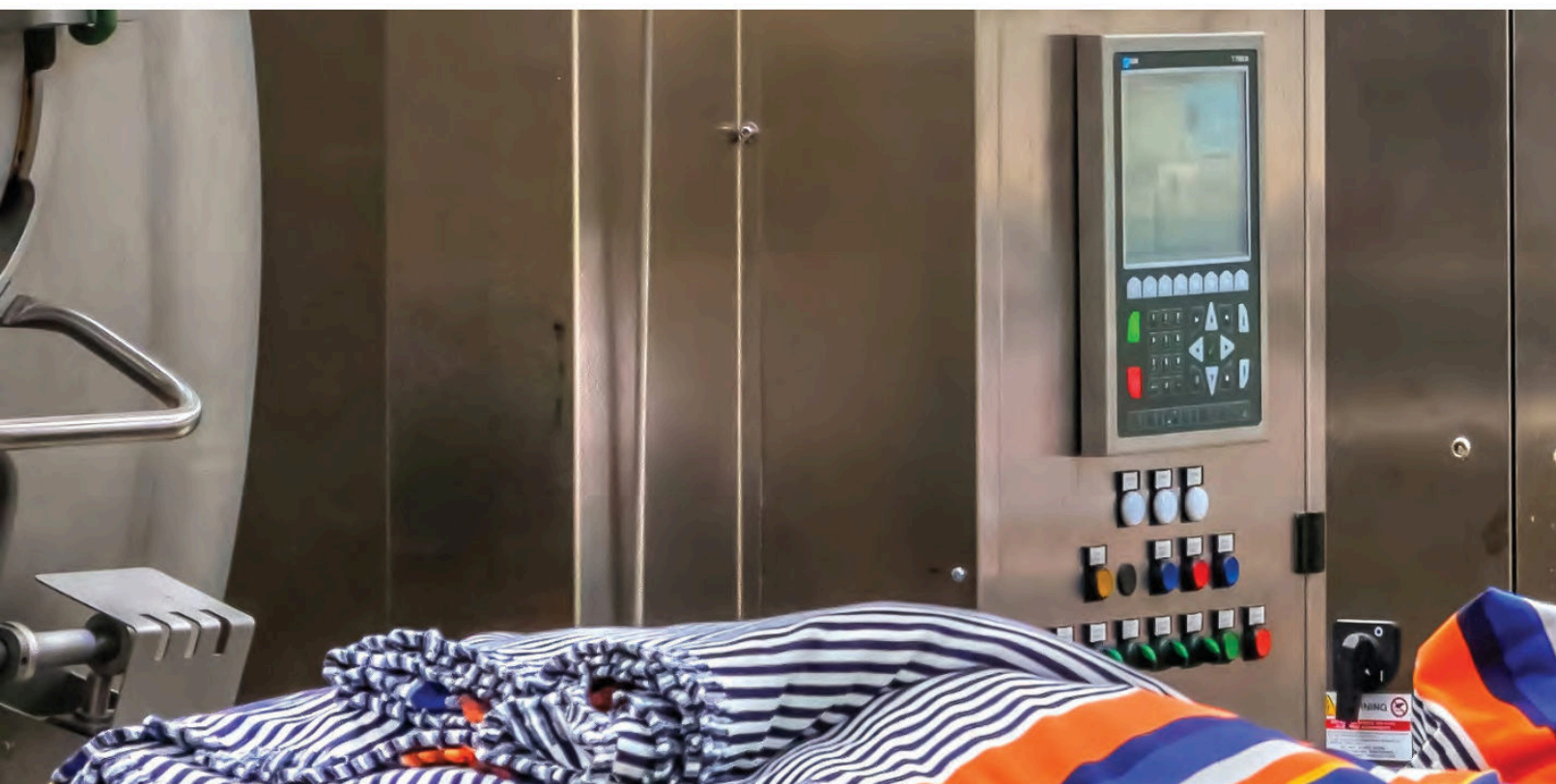
- Water, electricity consumption reports
- Theoretical steam consumption
- Backup of USB flash disk usage, configuration and process data
- Remote software version update with internet access

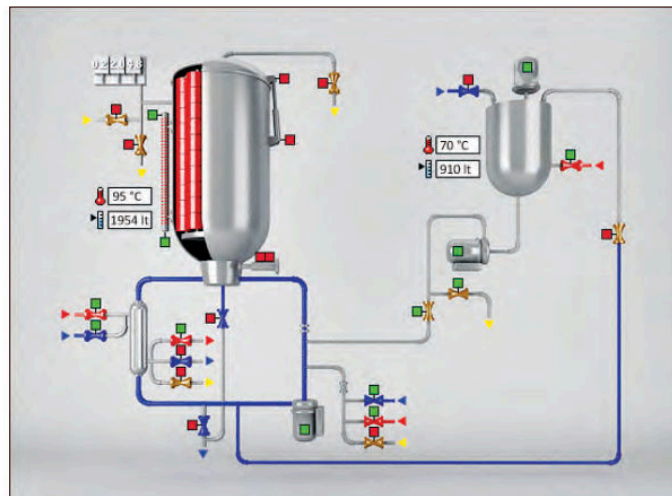
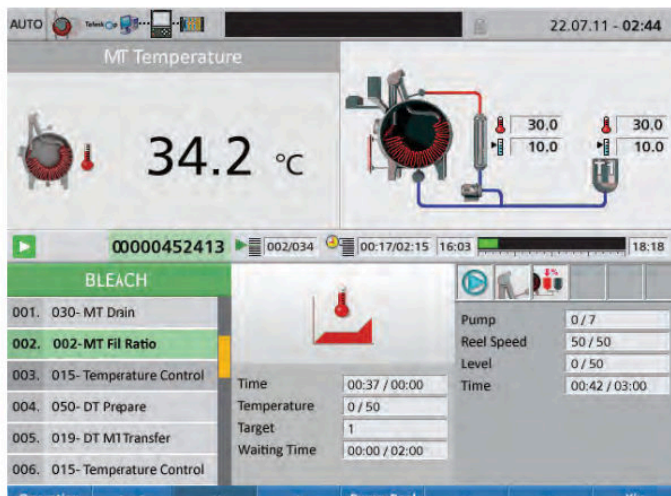
## Multi Language

Supporting languages such as Turkish, English, Chinese, Arabic, Persian, Portuguese, Russian

## Utility Applications

Project Configuration Management Software, configuration backup, report tool, version update tool





## IEC-61131 Standard

It contains the **IEC-61131** standard for function writing in the universal standard.

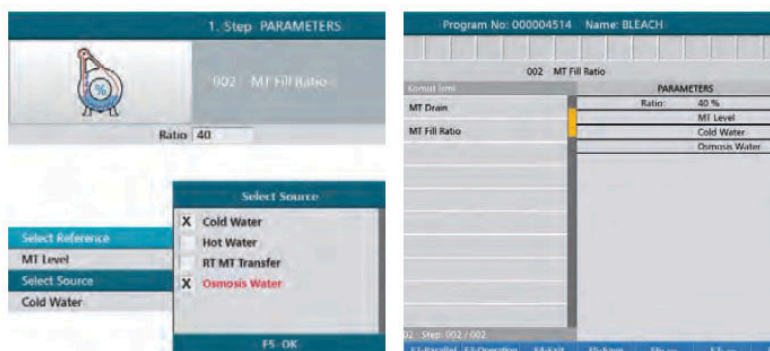
It provides 100% flexibility and security especially for machine manufacturers.

## HTML5 Based Integrated Internet Server

Access via mobile devices and internet with applications such as maintenance, monitoring, testing, software update, dashboard.

## Improvement and Acceleration Features

- Flexible and optimized programmes with formulabased target value calculations
- Automatic calculation of command parameters with "Batch start parameters"
- Ability to execute 15 parallel commands in one step
- Ability to define machine and timer constants
- Ability to work acoupled up to 6 machines
- Automatic fabric speed calculation and tours control with tour time calculation
- Starting pre-planned and ready-made processes loaded into the controller



## Teleskop® Supervisory Control Software

Ready-to-run dyeing processes that can be loaded from Teleskop  
Fully automatic workflow of chemical and dyestuff requests sent to the dispensers

## User Management

Multi-user operation with authorization status  
Multi-level password security

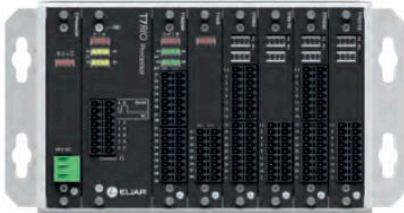


## Input Output Configurations

| I/O Unit | Digital Input | Digital Output | Analog Input | Analog Output | Counter |
|----------|---------------|----------------|--------------|---------------|---------|
| T7RIO-6  | 64            | 64             | 16           | 16            | 8       |
| T7RIO-10 | 96            | 128            | 24           | 24            | 8       |

# T7RIO

Rack Type, Automation Control System



T7RIO-6



T7RIO-10



T7RIO CPU

RS-485(isolated)  
8xCounter (1 kHz)



### ANALOG INPUT / OUTPUT T7AI088

\* 8xAI (0/4-20 mA, 0-10 V,  
Pt100 (first 4 channel))  
\* 8xAO (0/4-20 mA, 0-10 V)

### T7AI8

\* (8xAI) (0/4-20 mA, 0-10 V,  
Pt100(first 4 channel))

### T7AO8

\* (8xAO) (0/4-20 mA, 0-10 V)



### DIGITAL INPUT

#### T7DI32

\* 32xDI (24VDC)

#### T7DI16

\* 16xDI (24VDC)



### DIGITAL OUTPUT

#### T7DO32

\* 32xDO (24V, 1A max.)

#### T7DO16

\* 16xDO (24V, 1A max.)

## Technical Specifications

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| CPU                     | Intel® Atom™ based                                |
| Screen                  | 10.4" TFT, 800x600 dpi, 64 K<br>Color Touchscreen |
| Keypad                  | 41 button, Industrial                             |
| Working Voltage         | 24 V DC (18-36 V)                                 |
| Power Consumption       | 25 W OpTerm,<br>30 W T7RIO                        |
| Working Temperature     | 0-50°C                                            |
| Humidity                | % 10-85 (non-condensed)                           |
| Isolation               | 2000 V (digital), 500 V (analog)                  |
| Operating System        | LINUX                                             |
| Power Outage Protection | Li-ion battery,<br>Automatic switch-off           |

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| I/O Unit          | T7RIO                                                                        |
| Connection        | USB 2.0 & 3.0, 10/100 Mb Ethernet,                                           |
| Memory            | RAM: 2 GB<br>Flash Memory: 32 GB                                             |
| Protection Rating | IP 64 (front), IP 21 (back)                                                  |
| EMC Compatibility | EN 61000 - 4 - 2<br>EN 61000 - 4 - 4<br>EN 61000 - 4 - 6<br>EN 6100 - 4 - 11 |
| Boyutlar          | 274x349 (front), 170x242 (back)<br>100 (depth)                               |
| I/O Configuration | Max. 10 socket<br>(flexible I/O cards)                                       |

### Eliar Elektronik San. A.S.

Esentepe Mahallesi Saglam Fikir Sokak No:1

Postcode: 34394 Sisli / Istanbul / Turkey

+90 212 274 30 31

+90 212 274 20 30

info@eliar.com.tr

www.eliar.com



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