TBB 7000 Technical Specifications

Digital Input	**On/off 5-24 V DC**	64	**Operating Voltage**	24 V DC (-%15 / %20)
Dig./Counter Input	**1 Khz 5-24 V DC**	4	**Power Consumption**	25 W OpTerm, 30 W PLC
Digital Output	**24 V AC/DC 1A**	64	**Operating Temperature**	0-50 °C
Analog Input	**0/4-20 mA**	8	**Humidity**	% 10-85 (non-condensed)
Analog Input	**RTD (Pt -100)**	8	**Isolation**	2000 V (digital), 500 V (analog)
Analog Output	**4-20 mA**	16	**Analog Calibration**	Inputs- Pt100, mA (0-20,4-20)
Program Steps		Unlimited		Outputs- mA (0-20, 4-20)
Interlocks		200	**I/O Unit**	on PLC
Parallel Processing		16	**Program and calibration data downloading**	PC
Coupled Machines		**4**	**Communication**	2 x RS 232, 10 mbps ethernet
Display		10,4" Color TFT	**Memory**	32 MB
Keyboard		40 keys, industrial	**Real-time clock**	Yes

TBB 6600 Technical Specifications

Digital Input	**On/off 5-24 V DC**	64	**Operating Voltage**	24 V DC (-%15 / %20)
Dig./Counter Input	**1 Khz 5-24 V DC**	4	**Power Consumption**	20 W OpTerm, 30 W PLC
Digital Output	**24 V AC/DC 1A**	64	**Operating Temperature**	0-50 °C
Analog Input	**0/4-20 mA**	8	**Humidity**	% 10-85 (non-condensed)
Analog Input	**RTD (Pt -100)**	8	**Isolation**	2000 V (digital), 500 V (analog)
Analog Output	**4-20 mA**	16	**Analog Calibration**	Inputs- Pt100, mA (0-20,4-20)
Program Steps		Unlimited		Outputs- mA (0-20, 4-20)
Interlocks		200	**I/O Unit**	on PLC
Parallel Processing		16	**Program and calibration data downloading**	PC
Coupled Machines		**4**	**Communication**	2 x RS 232, 10 mbps ethernet
Display		5,7" Color STN	**Memory**	32 MB
Keyboard		34 keys, industrial	**Real-time clock**	Yes

TBB 6507 Technical Specifications

Digital Input	**On/off 5-24 V DC**	12	**Operating Voltage**	24 V DC (-%15 / %20)
Dig./Counter Input	**1 Khz 5-24 V DC**	1	**Power Consumption**	20 W
Digital Output	**24 V AC/DC 1A**	16	**Operating Temperature**	0-50 °C
Analog Input	**0/4-20 mA**	2	**Humidity**	% 10-85 (non-condensed)
Analog Input	**RTD (Pt -100)**	2	**Isolation**	2000 V (digital), 500 V (analog)
Analog Output	**4-20 mA**	4	**Analog Calibration**	Inputs- Pt100, mA (0-20,4-20)
Program Steps		5000		Outputs- mA (0-20, 4-20)
Interlocks		80	**I/O Unit**	Built in
Parallel Processing		4	**PProgram and calibration data downloading**	PC
Display		5,7" Grey tone STN	**Communication**	1 x RS 232, 10 mbps ethernet
Keyboard		32 keys, industrial	**Memory**	32 MB
			Real-time clock	Yes

ELİAR ELEKTRONİK

Levazım Mahallesi Korukent Sitesi A Blok
No: 8-9 Beşiktaş İSTANBUL-TURKEY
Phone: +90 212 274 30 31 pbx **Fax:** +90 212 274 20 30
E-mail: info@eliar.com.tr

TBB 7000
TBB 6600
TBB 6507

ELİAR
TBB Series
TEXTILE DYEING MACHINE CONTROLLERS

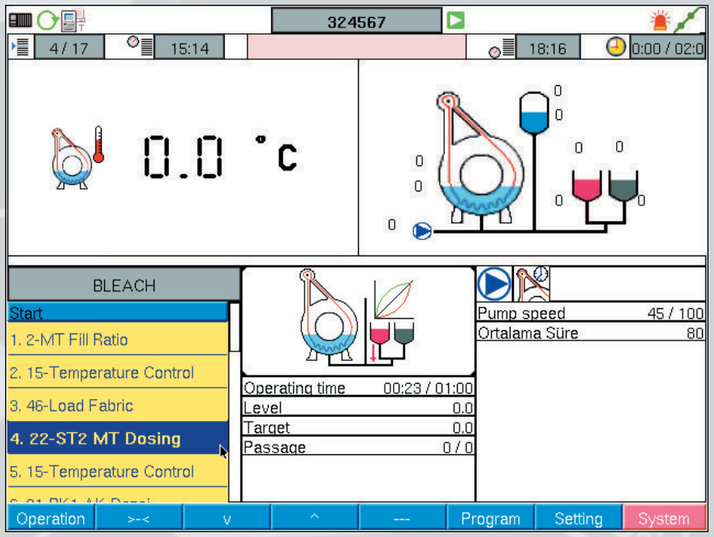
- **Complete product range - From simplest to highest requirements**
- **State of the art technology with robust construction**
- **Ready for Totally Integrated Dyehouse Automation**
- **Safe Investment for your Future Needs**

Your Partner for Dyehouse Automation

ELİAR

Easy usage and monitoring

- Color Graphical User Interface and interactive machine
- Easy access to frequently used information and screens using short cut keys
- Easy change of monitoring information on the screen
- Monitoring dyeing process from any web browser
- Machine mimic diagram
- Real time temperature, level graphics and comparison with theoretical values.
- Real time cycle-cycle time graphic
- Alarm management and warnings
- Running command manually
- Manual intervention to running dyeing process
- Barcode reader connection and prevention of human failure
- Open controller configuration to end-user

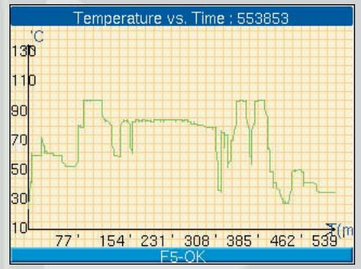


Dyeing, drying and rinsing process functions

- Usage and easy adaptation to fabric dyeing, drying, rinsing, bobbin dyeing, drying machines
- More than 50 dyeing functions, and defining 75 different commands
- Easily adding new functions special to machine or process

User management

- User definition and assigning access rights for the screens and menus
- User log-in and log-out



Software functions

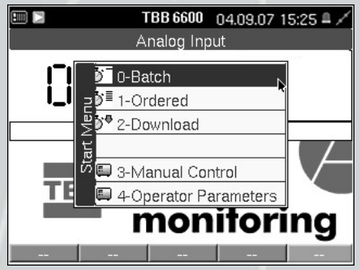
- Using formulas in commands and flexible dyeing programs
- Automatic calculation of set points of commands in the dyeing programs using batch start parameters
- Power-failure handling
- Batch start/stop/cancel feature using the buttons on the panel
- Reel and pump speed adjusting by panel buttons
- Flap positioning by panel buttons
- Consumption reports

Unlimited language support

- Support of Turkish / English / Chinese / Arabic / Greek / Russian / Portugal and other languages
- Changing language in runtime

Teleskop, Central Monitoring and Control Software connection, and integration to dye-house system

- Connection to Teleskop through Ethernet
- Preparing and starting a batch remotely from Teleskop
- Online chemical and dye requests from chemical and dye kitchen through Teleskop



Archiving, backup and maintenance

- Saving alarms (last 2 days) , temperature (last 100 batches) , level (last 100 batches) , cycle time graphics (last 20 batches)
- Browsing archive through the web browser
- Backup of dyeing programs and configurations using USB flash memory

PC Utility Software

- Easy configuration of different machines from the PC utility software
- Backup up of dyeing programs and moving between the machines
- Mimic diagram configuration
- Version upgrade software

State of the art software and hardware technology

- Linux® operating system -reliable and virus proof
- Linux® operating system -open and flexible design
- Connection by the Internet all over the world
- Web server and monitoring dyeing process from the web browser
- Intel® XScale microprocessor
- USB ports and easy data backup and version upgrade

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