BÖHRINGER

BREAKING BOUNDARIES SINCE 1948

BÖMATIC

User Friendly Ready-mix Software

Introduction

Böhringer, plants are renowned for their simplicity in function and operation. Based on valued customer feedback, BÖMATIC was developed in keeping with customers requests for a user-friendly automation system with simplicity of function.

BÖMATIC is one of the most user friendly simple to understand and operate automation system tailored for mobile applications currently available.

- The Bömatic line is deployed with state-of-the-art automation hardware and software to ensure a seamless operating experience. Current industry standards and best practices for system integration are implemented, including using up-to-date PLC hardware and standardized programming languages.
- Utilizing Siemens PLC hardware, the ability to provide support around the world becomes immediately more sustainable. Key partnerships with system integrators ensure that software and hardware support of automation components can be achieved swiftly and efficiently.
- Industry support of the Bömatic product line with hardware and software is more stable than ever, after selecting Siemens for the base platform.

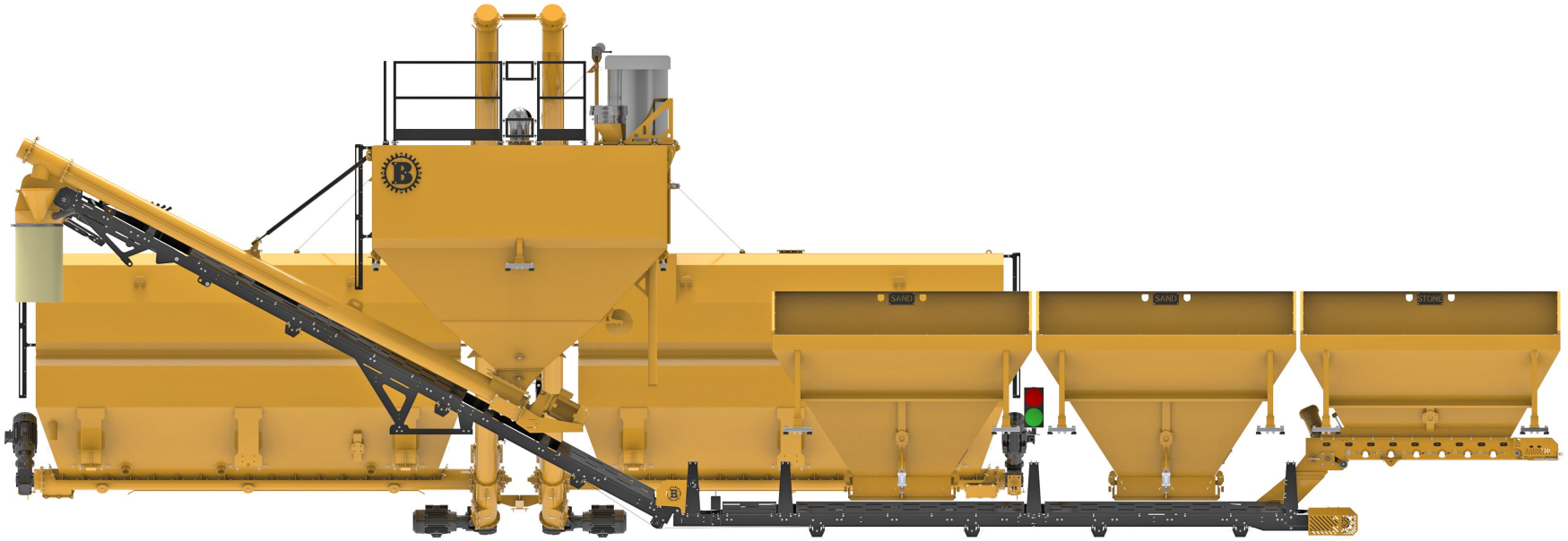
Böhringer B100-B120-B100-B150 Powered By BÖMATIC

AUTOMATION MADE EASIER

- A SIMPLE DESIGN
- B RENOWNED COMPONENTS
- C USER FRIENDLY INTERFACE
- D EASY TO USE

BÖMATIC

User Friendly Ready-Mix Software



DISPLAY X2BASE

BÖMATIC

General description

Part number	630005205
Life cycle status	Mature
Warranty	2 year

Certifications

General	CE, FCC, KCC, UL 61010-2-201

Mechanical

Mechanical size	196 x 146 x 52mm
Mounting option	Panel Mount
Number of touches	1million finger touch operations
Touch type	Resistive
Cut-out size	186 x 136mm
Weight	0.7 kg
Housing material	Plastic (PC+ABS), Gray
Buzzer	Yes
LED	Yes

Display

Size diagonal	7" diagonal
Resolution	800x480 pixels
Backlight	LED Backlight
Backlight life time	20000 hours
Backlight brightness	400 cd/m2
Backlight dimming	Industrial Dimming
Display type	TFT-LCD with LED backlight

Serial communication

Number of serial ports	2 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/485
Serial port 3	RS 232
Serial port 4	RS 485

Ethernet communication

Number of Ethernet ports	1
Ethernet port 1	1x10/100 Base-T (shielded RJ45)

G TOUTCH SCREEN

DISPLAY X2BASE

Power

Input voltage	24 V DC (18 to 32 VDC)CE: The power supply must conformwith the requirements according to IEC 60950 and IEC 61558-2-4.UL and cUL: The power supplymust conformwith the requirements for class II power supplies.
Power consumption (max)	9.6W
Input fuse	Internal DC fuse

System

CPU	ARM9 400 MHz
RAM	128 MB
FLASH	256 MB, 200 MB free

Expansion interface

Expansion port	No
SD card	No
USB	1xUSB 2.0 400mA

Environmental

Operating temperature	-10°C to +50°C
Storage temperature	-20° to +60°C
Shock	15g, half-sine, 11ms according to IEC60068-2-27
Vibration	1g, according to IEC 60068-2-6, Test Fc
Sealing front	IP65, NEMA 4X/ 12 and UL Type 4X/ 12
Sealing back	IP20
Humidity	5% – 85% non-condensed

H DURABLE SCREEN PROTECTOR

SIEMENS CONTROLER

BÖMATIC

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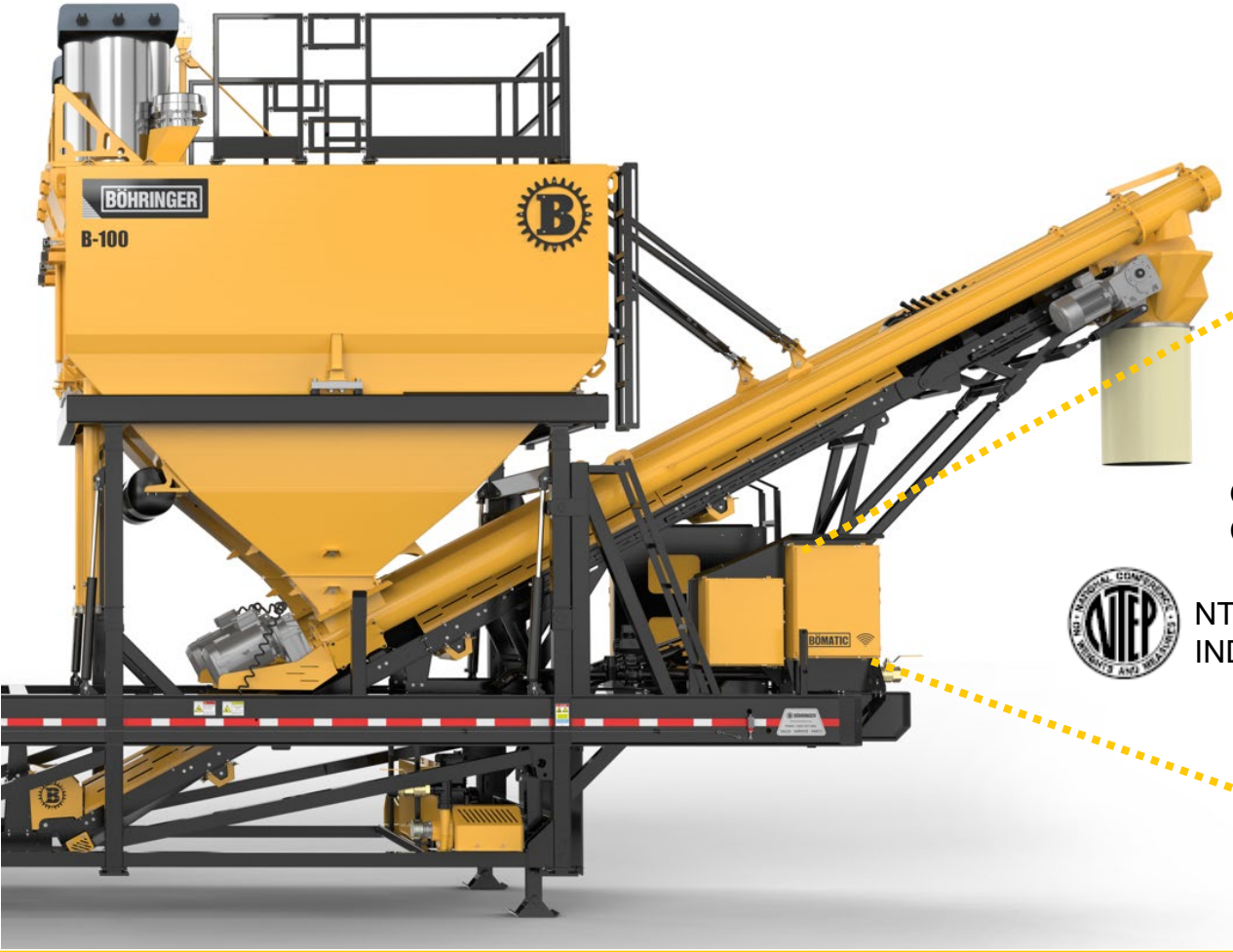
TOSIBOX REAL TIME
REMOTE IN ACCESS

TOSIBOX

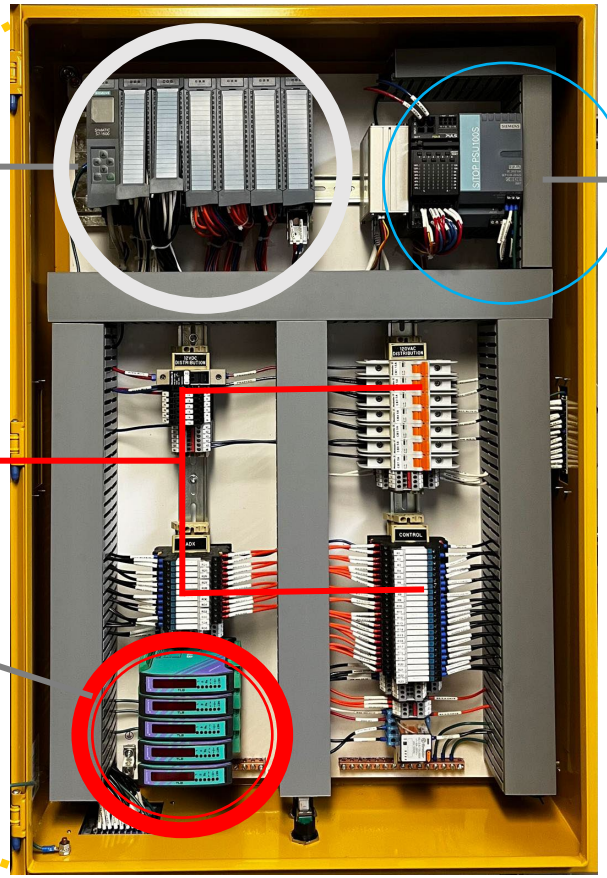


SIEMENS

SIMATIC S7 1500

OFF THE SHELF
CONSUMABLES

NTEP CERTIFIED SCALE
INDICATORS



BÖMATIC

TOSIBOX®

Lock 500/500i
Quick Start Guide

PATENTED CONNECTION METHOD

1 Matching the Lock with the Key

1. Connect the operating voltage of 12-48V DC to the Lock and wait for 1 minute. In case you have a product version with Power Source kit, use the conversion cable. It converts the AC adapter's coaxial connector output to stripped wires that are needed to power the Lock 500. Follow the polarity symbols in the front panel. Use + and - terminals to power the device.
2. Insert the Key into the USB port of the Lock. When the LED on the Key turns off, (after approx. 10 seconds) the matching is complete, and you can remove the Key from the USB port.
3. Go to 2a if deploying into broadband networks (ethernet) or 2b if deploying into mobile networks (Lock 500i only). If deploying Locks as DHCP client into existing networks, please see the TOSIBOX® user manual.

2b Deploying into Mobile Networks with internal LTE modem *(Lock 500i only)*

You can connect the Lock to the Internet with an internal Modem. Before inserting or removing the SIM card(s), disconnect the Lock power supply.

1. Install the antennas as shown in the picture 1.
2. Insert a SIM card to slot 1 as shown in the picture 2.
3. Connect a computer to any LAN port with an ethernet cable.
4. Check IP and password from the bottom of the Lock. Type IP into your browser to access the Lock's user interface. Log in using "Admin" account. Select Network → Internal Modem and fill in the APN according to your mobile operator settings. Enter PIN code if necessary. Click Save.
5. Plug network devices into the Lock's LAN ports (LAN 1-3). See *Deploying the Lock* in the user manual for static IP configurations.
6. Verify on the Lock user interface status page that the Internet connection is OK. This is also indicated on the front panel with symbol .

For more information and latest supported modem models, visit www.tosibox.com/support

Picture 1.

Picture 2.

3 Using the Key

To install the Key software, insert the TOSIBOX® Key into the USB port of your computer.

The TOSIBOX® Key user interface shows all Lock devices matched to the Key and the network devices connected to them. For more options, click or .

The Lock is connected to the Internet and the Key has a remote connection to the Lock.

The Lock is connected to the Internet, but the Key doesn't have a remote connection to the Lock.

The Lock is not connected to the Internet.

LUMAS TLB ELECTRONIC SCALE INDICATOR

BÖMATIC

NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:
Indicating Element
Digital Electronic
Model: TLB-XX and TLBEVO-XX (See below)
n_{max}: 5000
Accuracy Class: III

***Submitted By: Contact Info. Updated October 2016**
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Standard Features and Options

Automatic Zero Tracking (AZT)
Semi-Automatic (Push Button) Zero
Programmable Tare
Semi-Automatic (Push Button) Tare
DC Power Supply 12-24 VDC
Gross/Net Display
Linearity Calibration Points (5)
Remote Calibration
LED Display

XX Suffix Designates Communication Options:
TLB / TLBEVO – (analog + serial RS485)
TLB485 / TLBEVO485 – (serial RS485)
TLBPROFI / TLBEVOPROFI – (PROFIBUS)
TLBPROFINETION / TLBEVOPROFINETION – (PROFINET/IO)
TLBCANOPEN / TLBEVOCANOPEN – (CANOPEN)
TLBDEVICENET / TLBEVODEVICENET – (DEVICENET)
TLBETHEIPN / TLBEVOETHEIPN – (ETHERNET/IP)
TLBETHERCAT / TLBEVOETHERCAT – (ETHERCAT)
TLBETHETCP / TLBEVOETHECP – (ETHERNET/TCP/IP)
TLBMODBUSTCP / TLBEVOMODBUSTCP – (MODBUS/TCP)
TLBCCLINK / TLBEVOCCLINK – (CC-LINK)
TLBSERCOS / TLBEVOSERCOS – (SERCOS-III)
TLBPOWERLINK / TLBEVOPOWERLINK – (POWERLINK)
Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Mahesh Albuquerque
Chairman, NCWM, Inc.

Ivan Hankins
Chair, NTEP Committee
Issued: October 14, 2022

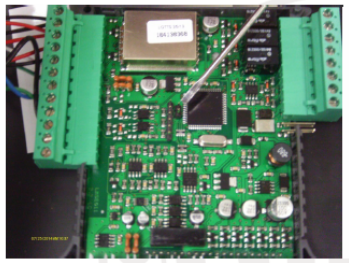
1135 M Street, Suite 110 / Lincoln, Nebraska 68508

Laumas Elettronica SRL
Indicating Element / TLB-XX and TLBEVO-XX

Application: A general purpose indicating element to be interfaced with an NTEP certified and compatible weighing element.

Identification: The adhesive identification badge is located on the top of the indicator. If the badge is removed the word "VOID" repeatedly appears.

Sealing: The indicator is sealed by using a self-destructive adhesive label place over the seam between the top and bottom half of the indicator. The seal prevents the top and bottom half from being separated allowing access to the jumper shown below from being moved. When the jumper is on, the indicator can be calibrated and configured. The jumper is off the indicator cannot be calibrated or configured. Also when in calibration or configuration mode, the annunciators continually scroll to show the indicator is not in the regular weighing mode. See pictures below for sealing method and jumper location.



Jumper Location

Sealing Method – Both Models

Test Conditions: This certificate supersedes Certificate of Conformance Number 14-072 and was issued without additional testing to add the new model description "TLBEVO-XX". The new models are a repackaging of the current electronics. No testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance 14-072: The emphasis of this evaluation was on the device design, operation, marking requirements, performance, and compliance with influence factors. The indicator was interfaced with a Rice Lake BM 1212 (NTEP CC 95-072) weighing/load receiving element to verify zero, discrimination zone of uncertainty, and motion detection requirements. A load cell simulator was used to perform several increasing/decreasing tests, DC voltage testing at 12 VDC and 24 VDC, and temperature testing over a range of -10 °C to 40 °C (14 °F to 104 °F).

Evaluated By: T. Buck (OH) 14-072

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2014 Edition. *NCWM Publication 14 Weighing Devices*, 2014 Edition.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: J. Truex (NCWM)14-072; D. Flocken (NCWM) 14-072A1

Laumas Elettronica SRL
Indicating Element / TLB-XX and TLBEVO-XX

Example of Device:

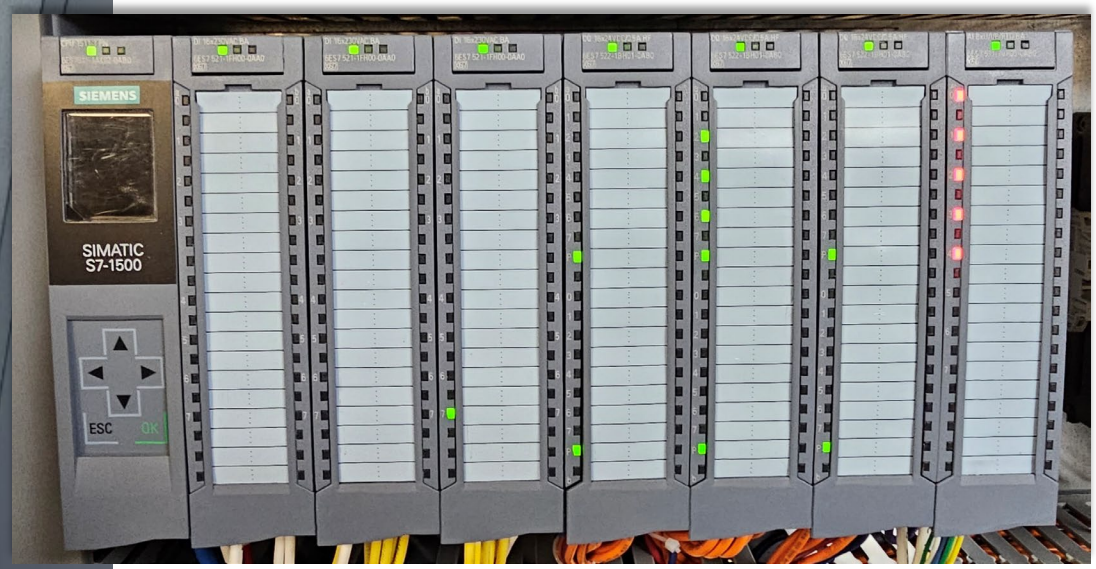
Model TLB-XX

Model TLBEVO-XX

SIMATIC S7-300 - Proven and available until 2033

The SIMATIC S7-300 is used in many applications worldwide and has been proven successful millions of times. The SIMATIC S7-300 universal Controllers saves on installation space and features a modular design. SIMATIC is known for continuity and quality. You want your application to be future-proof? Then you should look at the advantages and new possibilities of the SIMATIC S7-1500 and the engineeri...

SIMATIC S7-1500 Controller



Integrated Accounting Platform.

Easy to use and print from any “Cyber” protected computer

BÖMATIC

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