Specification

| Model | BC• ROBO®- 888 | BC• ROBO®- 8000 RFID |
|---|---|---|
| Available tube | Diameter 12-18mm Length 75-100mm<br>Can use Rubber, Film, Plastic, and none closure tubes | |
| Throughput | 10 sec/patient when processing<br>4 tubes (360patient/hour) | 12 sec/patient when processing<br>4 tubes (300patient/hour) |
| Number of drawer | 8kinds of tubes | 4 up to 30 kinds of tubes |
| Drawer capacity | 100 tubes per drawer | 100 tubes for big drawer<br>35-50 tubes for small drawer (depends on tube size) |
| Walk away time | 4 trays for horizontal output.<br>20 trays for tray stacker. | Depends on options |
| Number of empty trays | 20 empty trays on standby | Depends on options |
| Number of printer | 3 printers | Minimum 2 up to 6 printers |
| Print method | Direct thermal | Direct thermal or Thermal transfer |
| Printing | Alpha numeric, barcode, Rotate(90,180,270 degree)<br>Black & White inversion, Line and box drawing | |
| PC | Touch panel | |
| Available barcode | Code 39, JAN, Code 128A/B/C, 2of 5, NW7(Codabar) etc. | |
| Interface | TCP/IP, RS232C | |
| Power source | 100-220V 50/60Hz | |
| Dimensions | W600-H1180-D750(mm)<br>Excluding PC. | W745-H1220-D795(mm)<br>(2 units with 8 drawers type excluding PC) |
| Options | None | •Modular<br>•ABCT (Automatic Blood Collecting Table)<br>•Bag insert unit<br>•RFID printer |
| Standard | CE, Rohs, cTUVus | |
| Others | •Outpatient priority processing<br>•Reprint function<br>•Intelligent carriage unit<br>•Reject function<br>•Error protector to prevent from loading wrong kinds of tube.<br>•Pre-label detection<br>•Statistic report<br>•Quality control | |

Specifications subject to change without notice


**Manufacturer**

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VER3 Published March 2014



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TMC Techno Medica

Automated tube selecting and labeling system

# BC• ROBO® SYSTEM

BC•ROBO®-888
BC•ROBO®-8000 RFID


## Concept of BC• ROBO®

Lab automation is very common nowadays in modern laboratories. Barcodes and robotic systems effectively eliminate errors in the lab.

But how does this help if the mistake was made even before the tubes arrived in the lab? BC•ROBO®, invented and developed by TechnoMedica, is an automated system for selection and labeling blood collection tubes by LIS or HIS order.

The system produces kits with correct tubes and correct barcode labels along with a work list. The BC•ROBO® guarantees an error free work flow of all processes.
Higher quality and more safety in the lab are ensured.
A high speed work flow will always be guaranteed both in the inpatient and in the outpatient divisions.

Furthermore the system perfectly suits clinical trials or sample send out.

## All-in-one

Everything belonging to the same patient, such as barcoded tubes, labels for attachment by hand, and a work list are in a kit.
They are ready for blood collection.

## Advantages of BC• ROBO® system are,

- Eliminates patient mix-up.
- Eliminates discrepancy between test and selected tubes.
- Reduces barcode reading errors.
- Shortens turn around time.
- Less patient waiting time. Less queuing leads to patient comfort.
- Increases production.

BC·ROBO®

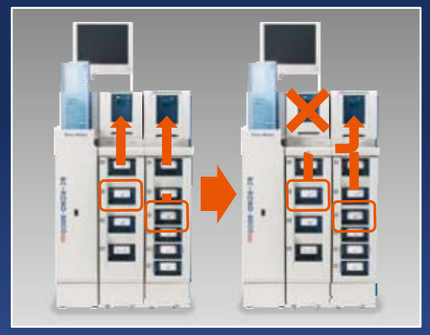
Automated tube selecting and labeling system

Techno Medica

## Features

### Random Access Tube Drawer

Tubes with size of diameter 12-17mm and length of 75-100mm can be used.
Tubes can be replenished easily by opening a drawer. The system identifies tube kind automatically and alerts if wrong tube is loaded.



### Triple 3x Back Up Capability

Due to the modular concept adopted in key components, they back up each other to minimize the down time in case of mechanical error.
1.Tube drawer 2.Drawer module 3.Printer

### Automatic Loading Printer

Just drop the label roll to the printer. Printer will be ready to use.
This function is available for model 8000RFID only.

### Tray Stacker

The system stacks up to 20trays to increase walk away time.

### Ultra High Throughput

The system processes up to 360patients(1440tubes) per hour depending on the system configuration.

### Easy To Use

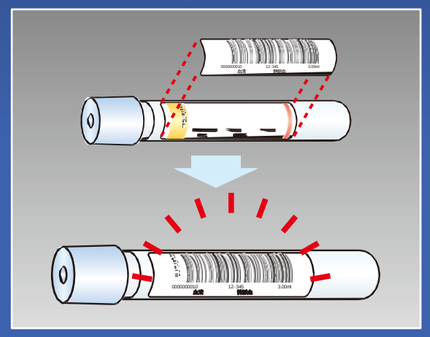
Just load the empty trays into the system. The system starts preparing patients kits right after data comes from LIS or HIS. No further operation is necessary.

### Barcode Quality Control

Built-in barcode scanner verifies if labeled barcode on each tube is readable or matched with LIS or HIS data.
The system alerts if unreadable or mismatched barcode is found. This function eliminates barcode reading errors or tube mismatch error in the lab.

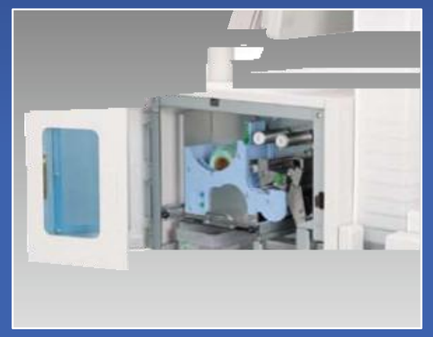

### Two Tray Output

Outpatient and inpatient can be processed at the same moment because of two tray output. Outpatient trays go to horizontal output, whereas inpatient or STAT trays go to tray stacker.



### Pre-Label Detection

The system detects the leading edge of the tube supplier label to avoid putting the label where it would block the window of the tube. This function enables viewing of the blood volume and quality in the tube.



### Reject Unit

Reject unit is designed to hold incomplete trays inside the system so that user will not mix up with usable trays.

## Option for BC·ROBO®-8000 RFID

The modular concept allows building a system that is customized for almost any situation.


### Options 1: RFID Printer

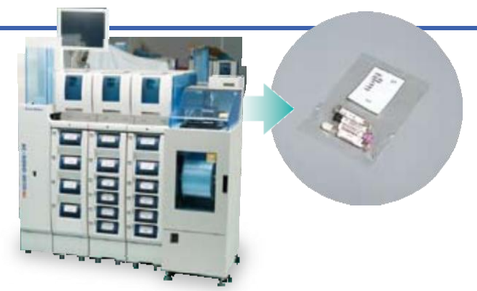
Printer can be upgraded to use Radio Frequency Identification labels which is one of the new technology to establish full specimen traceability.

### Options 2: Modular Concept

Modulars range from 1 unit 4 tubes to 5 units 30 tubes types.

### Options 3: ABCT

ABCT (Automatic Blood Collecting Table) delivers the tray to each blood collecting station by built-in conveyer.



### Options 4: Bag Insert Unit

Bag insert unit dispenses the tubes into the plastic bag instead of tray.