



TERUMOBCT
Unlocking the Potential of Blood

TSCD® II/TRUCISE® TOTAL SYSTEM

NEXT-GENERATION TERUMO STERILE TUBING WELDER
WITH ENHANCED DATA MANAGEMENT



POTENTIAL

As a global leader in blood component, therapeutic apheresis and cellular technologies, we believe in the potential of blood to do even more for the world than it does today. This belief inspires our innovation and strengthens our collaboration with customers.

By helping you enhance patient care, we unlock the potential of blood to:

- Make even safer, higher-quality transfusions available to more people
- Advance blood therapies to help customers bring more treatment options to patients
- Develop cellular therapies that may fundamentally improve health care



CONSISTENT, FAST AND EFFICIENT NETWORKED STERILE DOCKING

TSCD II STERILE TUBING WELDER AND TRUCISE DATA MANAGEMENT SYSTEM WORK TOGETHER TO HELP YOU REDUCE OPERATING COSTS, IMPROVE OPERATIONAL EFFICIENCY AND BRING MORE VALUE TO THE HOSPITALS YOU SERVE.

HELPING YOU **TAKE COMMAND OF DEMAND**

From donation management to collections and processing, the goal of blood centers is to meet customers' demand for blood components as efficiently as possible.

Blood centers work hard to meet demand. But, because demand can be so volatile, they often do so at a high cost. Changes in demand can create a need for costly imports or leave you with excess units and no available export options.

Terumo BCT solutions and services work together to help enable blood centers to respond quickly and efficiently to changes in demand. This helps reduce costs and waste, while improving service to your customers and the patients they ultimately serve.



ADVANCED TECHNOLOGIES THAT WORK TOGETHER
TO HELP YOU MEET DEMAND

TSCD II STERILE TUBING WELDER

INCREASE FLEXIBILITY OF YOUR COLLECTIONS AND
LAB WITH CONSISTENT, FAST, EFFICIENT WELDS

The TSCD II device is a user-friendly tubing welder ideal for sterile docking collection sets, as well as a wide range of other lab applications. Designed for quality, reliability, traceability and flexibility, it now can be used to connect PVC tubing in any combination of wet and dry.

Compact, lightweight and equipped with a pop-up handle, the TSCD II device is designed for portability and can be easily moved.



TRUCISE DATA MANAGEMENT SYSTEM

ENHANCE THE PROCESS CONTROL AND
PRODUCTIVITY OF TSCD II STERILE CONNECTIONS

The Trucise data management system is compatible with both TSCD and TSCD II devices. Using the Trucise system helps both enhance process control and greatly simplify data collection and management.



Using the TSCD II device and the Trucise system together can help improve efficiency and reduce the risks associated with sterile docking and lab processes.

TSCD II/TRUCISE TOTAL SYSTEM MAY HELP YOU:

Reduce operating costs	<ul style="list-style-type: none"> ▪ Reduce processing costs
Increase operational efficiencies	<ul style="list-style-type: none"> ▪ Increase staff efficiency ▪ Increase product efficiency ▪ Increase process efficiency ▪ Offer improved quality and regulatory compliance

CONSISTENT, FAST AND EFFICIENT WELDS

TSCD II STERILE TUBING WELDER

Terumo's sterile tubing welders have been used extensively in labs and blood centers around the world for more than two decades. Today, our devices are indispensable for creating quick and safe PVC tubing connections while maintaining a functionally closed system.

The TSCD II device creates closed system PVC tubing connections. Applications include, but are not limited to:

- Component pooling
- Leukoreduction
- Collection set modification
- Component aliquoting
- Apheresis set modification
- Quality control sampling
- Cell washing and freezing



The TSCD II device builds on the success of the TSCD sterile tubing welder, adding several key features.

NEW FEATURES INCLUDE:

- Wet-to-wet welds: the TSCD II device is versatile
- Automatic wafer replacement
- Redesigned clamp: heavy-duty, interconnected clamp simplifies operation
- LCD display: communicates the status of the welding process, provides error alerts, reports when wafer cassette is empty and disposal box is full
- Detachable shelves for bag support
- Larger built-in disposal box for used wafers

CREATES STRONG, CONSISTENT WELDS

Quickly connects PVC tubing in any combination of wet and dry—including wet-to-wet—with strong, smooth welds. All Terumo sterile tubing welders are subject to minimum tensile strength requirements.

GUIDES OPERATION

An easy-to-read backlit LCD screen clearly displays device status and guides operators through the welding process.

MAINTAINS CLOSED SYSTEM

The TSCD II uses the same, single-feed wafers as the TSCD. Terumo's patented wafers heat to 572 °F (300 °C). This high temperature maintains sterility during cutting and welding but does not allow particulates or chemical residue to form in the tubes.

AUTOMATES WAFER FEED

Eliminates the need to manually replace wafers and reduces the risk of wafer jams. The information panel alerts operators when the wafer cassette is empty and the wafer disposal box is full.

MONITORS WAFER DISPOSAL BOX

Wafers are automatically discarded after a single use into a built-in disposal box to avoid cross contamination. An integrated sensor reduces the risk of jams by alerting operators when the disposal box is full and disabling operation until the box is emptied. The wafer disposal box holds 300 used wafers.

SIMPLIFIES OPERATION

Durable materials stand up to intensive use while interconnected design enables fast, one-handed operation.

ENHANCES PORTABILITY

This lightweight device includes a built-in handle.

ENHANCE THE PROCESS CONTROL AND PRODUCTIVITY OF TSCD II STERILE CONNECTIONS

TRUCISE DATA MANAGEMENT SYSTEM



The Trucise system is an electronic documentation and process control device designed to advance the automation of sterile welding while increasing the accuracy and ease of documentation. The Trucise system works with both TSCD and TSCD II sterile tubing welders.

The Trucise system consists of:

- **Application software**
Compatible with Microsoft® Windows® 7, Windows® XP and Windows® Vista, this flexible software allows you to establish and customize your process, documentation and reporting parameters to meet your facilities' specific requirements.
- **Trucise Communications Module**
This easy-to-use touch screen monitor facilitates accurate documentation and ensures adherence to your pre-established processes.
- **Barcode scanner**
The electronic barcode scanner ensures accurate and efficient data entry for barcoded products, including wafers, disposable bags, needles and more.

Trucise V2.0 builds on the success of the original Trucise system, adding several key features.

NEW FEATURES INCLUDE:

- Enhanced compatibility: works with Microsoft® Windows® 7, Windows® XP and Windows® Vista
- Automatic connection between the Trucise system and both TSCD and TSCD II devices
- Event logging
- Required mandatory comments for rejected welds
- File editing protection
- Enhanced data storage: archives records for the last 100,000 welds

IMPROVES THE ACCURACY OF DATA ENTRY

The electronic barcode scanner ensures accurate and efficient data entry for barcoded products. The touch-screen communications module also contains an optional confirmation and/or double entry to ensure documentation accuracy.

SIMPLIFIES RECORD MAINTENANCE

Critical data is automatically stored in the communications module. This information can be electronically transferred to the Trucise system application software installed on your laptop or desktop computer. This helps store data where it is readily accessible, easily sorted and quickly configured for report generation.

HELPS MINIMIZE HUMAN ERROR

Automating data collection eliminates manual transcription errors as well as the need for paper records. Managing the sterile welding process by guiding operators through the proper steps provides greater process control.

STANDARDIZES PROCEDURES, ENSURES UNIFORMITY AND ENHANCES COMPLIANCE

Trucise system application software enables you to customize and establish process, documentation and reporting parameters to meet your facility's specific requirements. By automating these processes, the Trucise system can enhance compliance at your facility.

SIMPLIFIES SYSTEM TRAINING AND IMPLEMENTATION

Terumo BCT is committed to supporting a seamless adoption of every new technology we offer. We can customize a training program to meet your specific needs and assist you with system setup, including software configuration.

To accommodate your growth, the Trucise system features a two-tiered product line:

- **The Trucise Total System Kit** contains the application software, communications module and barcode scanner.
- **The Trucise Communications Module Kit** includes the communications module and barcode scanner. Each sterile tubing welder requires its own communications module kit.

SYSTEM SPECIFICATIONS

TSCD II TERUMO STERILE TUBING WELDER		
Model	3ME-SC203A	
Tubing material	Polyvinyl Chloride (PVC)	
Tubing size	Blood Bag Type Tubing	
	<table border="0"> <tr> <td>Outer Diameter: 03.86 mm–04.60 mm 0.152 in–0.181 in</td> <td>Wall Thickness: 0.508 mm–0.800 mm 0.019 in–0.031 in</td> </tr> </table>	Outer Diameter: 03.86 mm–04.60 mm 0.152 in–0.181 in
Outer Diameter: 03.86 mm–04.60 mm 0.152 in–0.181 in	Wall Thickness: 0.508 mm–0.800 mm 0.019 in–0.031 in	
Wafer	TSCD Wafer, Product Code 1SC*W017	
Power supply	AC 100 V–AC 240 V, 3A 50–60 Hz	
External dimensions width x height x depth	224 mm x 177 mm x 342 mm 9 in x 7 in x 13 in	
Weight	Approximately 6.5 kg (14.33 lbs)	
Weld cycle	Approximately 1 weld every 14 seconds	
Accessories	AC power cable, bag supports, fuses (250V/4.0A), cassette of TSCD wafers and operating instructions	
OPERATING CONDITIONS	The instrument should be allowed to equilibrate at these conditions before use.	
Ambient temperature	10 °C to 40 °C (50 °F to 104 °F)	
Humidity	10% to 80%, RH non-condensing	
Altitude	Up to 3,658 meters maximum (12,000 ft)	
STORAGE CONDITIONS		
Ambient temperature	–10 °C to 50 °C (14 °F to 122 °F)	
Humidity	10% to 95%, RH non-condensing	



SYSTEM SPECIFICATIONS

TRUCISE DATA MANAGEMENT SYSTEM

PRODUCT	CODE	DESCRIPTION
Trucise V2.0 Total System Kit	METTS2	Includes Trucise system communications module, barcode scanner and application software
Trucise V2.0 Communication Module Kit	METCM2	Includes Trucise system communications module and barcode scanner (Required for each additional TSCD II device setup)
Trucise Support Stand	MESTND	Optional stand to support Trucise system communications module

COMMUNICATIONS MODULE

External dimensions width x height x depth	23.37 cm x 22 cm x 10.16 cm 9.2 in x 8.66 in x 4 in
Weight	1.95 kg (4.3 lbs)
Power supply	Input: 100–240V AC –10%, 50–60 Hz, 1.2 A Output: 24V DC, 2.71 Amps

OPERATING CONDITIONS

The instrument should be allowed to equilibrate at these conditions before use.

Ambient temperature	10 °C to 40 °C (50 °F to 104 °F)
Humidity	10% to 85%, RH non-condensing
Altitude	Up to 12,000 feet maximum (approximately 3,658 meters)

STORAGE CONDITIONS

Ambient temperature	–10 °C to 50 °C (14 °F to 122 °F)
Humidity	10% to 95%, RH non-condensing

ELECTRICAL SPECIFICATIONS

Power input	24V DC, 2.2 Amps Maximum
Power supply	Input: 100–240V AC –10%, 50–60 Hz, 1.2 A Output: 24V DC, 2.71 Amps
Power cord	7.5 ft detachable cord from power pack to wall 4.5 ft cord from device to power pack
Requirements	Plugs and outlet must be grounded 100–240 VAC –10% UL Listed (E300305)

BARCODE SCANNER

External dimensions width x height x depth	7.87 cm x 15.24 cm x 13.46 cm 3.1 in x 6 in x 5.3 in
Weight	0.179 kg (6.3 oz, 0.39 lbs)

ELECTRICAL SPECIFICATIONS

Power input	24V DC, 0.5 Amps Maximum Scanning at full power: 275 mA At standby: 125 mA
Power supply	50 watts, 24V DC output; 110–220V DC input; 50–60 Hz input power adaptor
Power cord	6 ft, RS232 interface cable cord
Requirements	Plugs and outlet must be grounded AC 100V to AC 240V 50–60 Hz

The TSCD II sterile tubing welder model number 3ME-SC203A and Trucise data management system are only available for sale in the United States and Canada.

TSCD II sterile tubing welder and Trucise data management system are manufactured by Terumo Medical Corporation, Elkton, MD, and distributed by Terumo BCT, Lakewood, CO. TSCD is a registered trademark of Terumo Corporation, Japan. Trucise is a registered trademark of Terumo Medical Corporation, Elkton, MD.



TAKE COMMAND OF DEMAND WITH THE TSCD II/TRUCISE TOTAL SYSTEM.
CONTACT YOUR TERUMO BCT REPRESENTATIVE TODAY.

TERUMOBCT

Terumo BCT, Inc. USA

10811 West Collins Ave.
Lakewood, Colorado 80215-4440
USA

USA Phone: 1.877.339.4228
Phone: +1.303.231.4357
Fax: +1.303.542.5215

Terumo BCT Europe N.V.

Europe, Middle East and Africa
Ikaroslaan 41
1930 Zaventem
Belgium

Phone: +32.2.715.05.90
Fax: +32.2.721.07.70

Terumo BCT (Asia Pacific) Ltd.

Room 3903-3903A, 39/F
ACE Tower, Windsor House
311 Gloucester Road
Causeway Bay, Hong Kong

Phone: +852.2283.0700
Fax: +852.2576.1311

Terumo BCT Latin America

La Pampa 1517—12th Floor
C1428D2E
Buenos Aires
Argentina

Phone: +54.11.5530.5200
Fax: +54.11.5530.5201

Terumo BCT Japan, Inc.

Ebisu South One Bldg. 9F
1-7-8, Ebisu-minami,
Shibuya-ku Tokyo 150-0022
Japan

Phone: +81.3.6743.7890
Fax: +81.3.6743.9800

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