

CONNECT TO CONFIDENCE

In high-stakes lab and manufacturing environments like yours, teams are hyper-focused on quality, performance, and forward momentum. You don't have time to be unsure about the reliability of your sterile tubing connections and the risk of product loss in even the smallest of process steps.

That's why we developed a portfolio of sterile tubing welders to deliver the thermal-driven certainty you need in each sterile connection you make — while providing the ease of use and flexibility your operations require.

Our welders are built on a 30-year legacy of cell processing and welding technology expertise.

They provide proven sterility, patented copper wafer technology, and optimal strength.

By leveraging our devices for your sterile tubing connections, you can enjoy a bedrock of confidence: A functionally closed system designed to prevent contamination and support a worry-free workflow.

Explore key performance points of our welders on the following pages.

For more information, please visit TerumoBCT.com or email us at FollowTheCell@terumobct.com.

Plus: Ask us about Veda™ Solutions

Terumo Blood and Cell Technologies is pleased to provide [Veda Solutions](#) suite of support offerings designed to add even more certainty to your operations.

Our **Veda™ Check** solution includes a range of device preventive maintenance and service packages. Installation qualification (IQ)/operational qualification (OQ) and other compliance-related services are also offered. [Learn more.](#)

Product and service availability is subject to regulatory approval in each country. Contact your Terumo Blood and Cell Technologies representative.

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Ask us about Veda Check:
Flexible service offerings that
support uptime and compliance.

Key performance points of the SCD™ IIB Sterile Tubing Welder



Sterility

Heats up to 260 °C (500 °F)¹
Certificate of Sterility



Speed

Less than 30 seconds to weld¹
Saves 2.5 hours per week of manufacturing
time compared to competitors²



Portability

6.4 kg (14 lb)
241 × 191 × 241 mm (w × h × d)
(9.5 × 7.5 × 9.5 in)



Ease of use

Requires minimal technical training
Easily implemented into existing processes
Wet-to-dry and dry-to-dry connections
Accommodates both PVC and C-Flex tubing*



Consistency

Produces connections with conformity
for easy addition to standard operating
procedures (SOPs)

*PVC: polyvinyl chloride. Use PVC tubing with a nominal outer diameter (OD) of 5.46 mm (0.215 in) and a wall thickness of 0.84 mm (0.033 in) or C-Flex tubing with a nominal OD of 6.35 mm (0.25 in) and a nominal inner diameter of 3.18 mm (0.125 in). Warning: The tubing sizes and types listed have been tested by Terumo Blood and Cell Technologies for weld strength and sterility; however, some users have had successful results using other types of thermoplastic tubing. PVC and C-Flex tubing are acceptable forms of tubing for use with this product. If you choose to use tubing other than that specified, it is your responsibility to test for weld strength and sterility according to the standards appropriate for the desired application. Use of non-specified tubing could cause a low-strength, nonsterile weld.

¹Data on file at Terumo Blood and Cell Technologies. SCD IIB Operating Instructions. Part no. 72513T. 2003.

²Data on file at Terumo Blood and Cell Technologies: SCD IIB can reduce manufacturing time by potentially 2.5 hours a week of weld time (20 welds a day for 5 days a week) when compared to competitors Sartorius BioWelder Total Containment and the Saint Gobain Connect-Flex Tubing Welder when welding two lengths of polyvinyl chloride (PVC) tubing with a nominal OD of 0.215 in and wall thickness of 0.033 in.

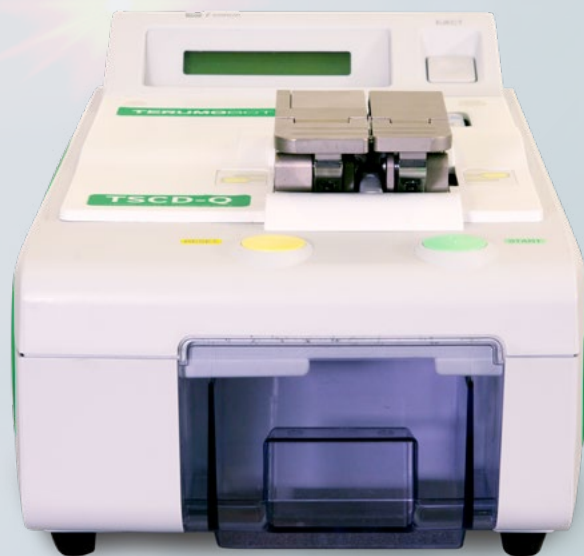
Tubing shall meet the specifications for the welder.

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C-Flex is either a registered trademark or trademark of Saint-Gobain Life Sciences in the United States and/or other countries.

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Ask us about **available service and support offerings** that can add even more certainty to your operations.

Key performance points of the TSCD™-Q Sterile Tubing Welder



Sterility

Heats patented copper welding wafer to 300 °C (572 °F)¹
Certificate of Sterility



Expediency

One weld every 14 seconds²



Strength

Welds meet or exceed ISO standard 3826-1 tensile strength requirements²



Adaptability

Connects two lengths of polyurethane tubing with 4.75 mm (0.187 in) outer diameter and 0.787 mm (0.031 in) wall thickness
Dry-to-dry | wet-to-dry | wet-to-wet connections



Movability

6.4 kg (14 lb)
224 × 177 × 342 mm (w × h × d)
(9.0 × 7.0 × 13.5 in)



Usability

Requires minimal technical training
Process steps on the LED screen guide the operator
Interconnected clamp allows for one-handed operation
Automatic wafer replacement



Consistency

Produces connections with conformity for easy addition to standard operating procedures (SOPs)

¹Terumo Blood and Cell Technologies. TSCD-Q Operator's Manual. Part no. 510000-012. 2014.

²Data on file at Terumo Blood and Cell Technologies.

Tubing shall meet the specifications for the welder.

Product and service availability is subject to regulatory approval in each country.
Contact your Terumo Blood and Cell Technologies representative.

TSCD™ is either a registered trademark or trademark owned by Terumo Corporation or its affiliates.

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Ask us about **Veda Check**:

Installation qualification and operation qualification (IQ/OQ), preventive maintenance, and other service offerings designed to boost operational confidence.

Tubing shall meet the specifications for the welder.

Product and service availability is subject to regulatory approval in each country. Contact your Terumo Blood and Cell Technologies representative.

TSCD™ is either a registered trademark or trademark owned by Terumo Corporation or its affiliates.

¹Terumo Blood and Cell Technologies. TSCD-II Terumo Sterile Tubing Welder Operating Instructions. October 2022. Part no. 1000035573.

²Data on file at Terumo Blood and Cell Technologies: Sterility testing of TSCD-II connections.

³Data on file at Terumo Blood and Cell Technologies: Terumo Blood and Cell Technologies complaints database PPR database 2016-2017-2018; Complaint Report Detail - TSCD II recorded 2018-2022 June; Global numbers of wafers sold 2016-2021.

⁴Data on file at Terumo Blood and Cell Technologies: Declaration of TSCD-II welding time. February 2010.

⁵Terumo Blood and Cell Technologies. Customer letter. BC-TSII-00042.

⁶Nightingale MJ, Lees B, Biset R, Mertens W. Use of a (proposed) standard protocol to validate Terumo TSCD-II connections between dissimilar blood bag tubing. *Vox Sang*. 2006;91(3):264-269.

⁷Data on file at Terumo Blood and Cell Technologies: Release test for TSCD-II. March 2020.

Key performance points of the **TSCD™-II Sterile Tubing Welder**



Sterile

Heats up to 300 °C (572 °F)¹

Certificate of Sterility

Maintains product sterility even when the outside of the connected tubing is contaminated with bacteria²



Reliable

0.0001% reports of leakage with over 165 million wafers used³



Fast

14 seconds to weld⁴



Flexible

3.86-4.6 mm PVC tubing⁵
(0.15 to 0.18 in)

Cold weld openings¹

Dry-to-dry | wet-to-dry | wet-to-wet connections



Strong

Welds meet or exceed ISO standard 3826-1 tensile strength requirements⁶⁻⁷



Compact

224 × 177 × 342 mm (w × h × d)
(9.0 × 7.0 × 13.5 in)

6.4 kg (14 lb)



Consistent

Produces connections with uniformity and conformity for easy implementation with standard operating procedures (SOPs)



User-friendly

Requires minimal technical training

Process steps on the LED screen guide the operator

Interconnected clamp allows for one-handed operation

Automatic wafer replacement