

Super Dry

Cabinet range



How to determine the right cabinet for the right application?

INTRODUCTION

TO TOTECH EUROPE AND SUPER DRY CABINETS

Totech Europe is the leading manufacturer of the widest available range of advanced Dry Cabinets. We deliver safe storage and fast drying solutions for a multitude of applications; Electronics & PCB assembly, watchmakers, solar industry, optoelectronics, microelectronics, medical, laboratory, 3D printing, digital media & film and more.

Next to the hardware, Totech is able to deliver complete software solutions, customer specific with extensive software which connect our products in the industry 4.0 factories for a complete and secured MSL process.

QUESTIONS YOU NEED TO ASK YOURSELF TO DETERMINE THE RIGHT MODEL!

How do you safely store your MSDs?:

- ✓ All MSDs should be stored in an atmosphere of 5% RH maximum. This can be done through storage in a Dry Storage cabinet (SDB, SD, ESDA) or in sealed moisture barrier bags.
- ✓ If your MSDs are not stored in the correct atmosphere, then you need to reset their MSL floor life before the production process, to prevent potential popcorning or delamination problems.
- ✓ Storing MSDs in a dry atmosphere will also reduce or stop problems caused by oxidation.

Totech offers a wide variety of cabinets for Dry Storage applications (see SDB, SD, ESDA ranges)

How do you reset floor life of your MSDs?

Many customers are still using costly baking processes. This can dry MSDs but may cause oxidation or intermetallic growths to form, thus generating wetting problems during reflow & subsequent quality issues.

Do baking ovens dry faster than fast-drying cabinets from Totech Europe?

No, because most devices cannot be baked at more than 40°C or 60°C. At these temperatures a fast-drying cabinets from Totech Europe can dry up to 2 times faster, without generating any oxidation problems.

XSDR reset cabinets have integrated timers & will notify the end user when the floor life time of the component has been reset.

Totech offers fast drying or floor life reset solutions including data logging and MSL tracking software on component level.

How do you keep track of the floor life?

- ✓ To secure the quality of components; the floor life of each product should be monitored.
- ✓ We offers Totech Storage Manager. The software suite that keeps you connected and enables you to organise, supervise, locate, and track the moisture sensitive devices used in your entire factory.
- ✓ The software can talk to ERP/MES systems for an even better integration.

How do you ship your MSDs to other locations?

- ✓ All MSDs still have to be stored in a safe atmosphere during transportation.
- ✓ Totech also supplies vacuum packaging machines (SDV range) and all associated consumables (MBB, HIC, Desiccant) to safely pack your MSDs for transport or for basic shelf storage.

How do you store your solder paste?

- ✓ Refrigerated storage prolongs the shelf life of solder paste.
- ✓ It should be kept in refrigerated storage, typically <10°C
- ✓ If exposed to temperatures >30°C for extended periods of time paste may no longer perform as expected.

- ✓ Totech offers several cooling cabinets including a data logging feature to provide complete traceability of storage conditions and environment history (XSDC ranges)

HOW TO DETERMINE THE APPROPRIATE CABINET FOR THE APPLICATION?

Scan QR for video of cabinets



DRY STORAGE CABINETS

To stop the floor life of sensitive devices & safely store them oxidation free.
Drying at 5 - 2% RH (with heating up to 40 °C available as option)



SDB Series



SD Series



SD+ Series



ESDA Series

DRYING CABINETS

To reset the floor life of devices
Drying at <1% RH (with heating up to 40 °C available as option)



HSD Series



MSD Series

FAST DRYING CABINETS

For maximum speed in drying or resetting process
Drying at <1% RH with heating up to 60 °C



XSD/XSDB/XSDR



XSDV Series

COOLING CABINETS

Fridge for solder paste or long term storage of components
long term storage & cooling
Cooling down to 2 °C with insulated body



XSDC Series

CUSTOMISED SOLUTIONS

Dry rooms or automated Dry Tower + material logistics.



DRY TOWER



SDR WALK IN DRY ROOMS

VACUUM PACKAGING MACHINES

SDV Series Vacuum packaging machine up to 5mbar



SDV Series

SMART CONNECT SOLUTIONS

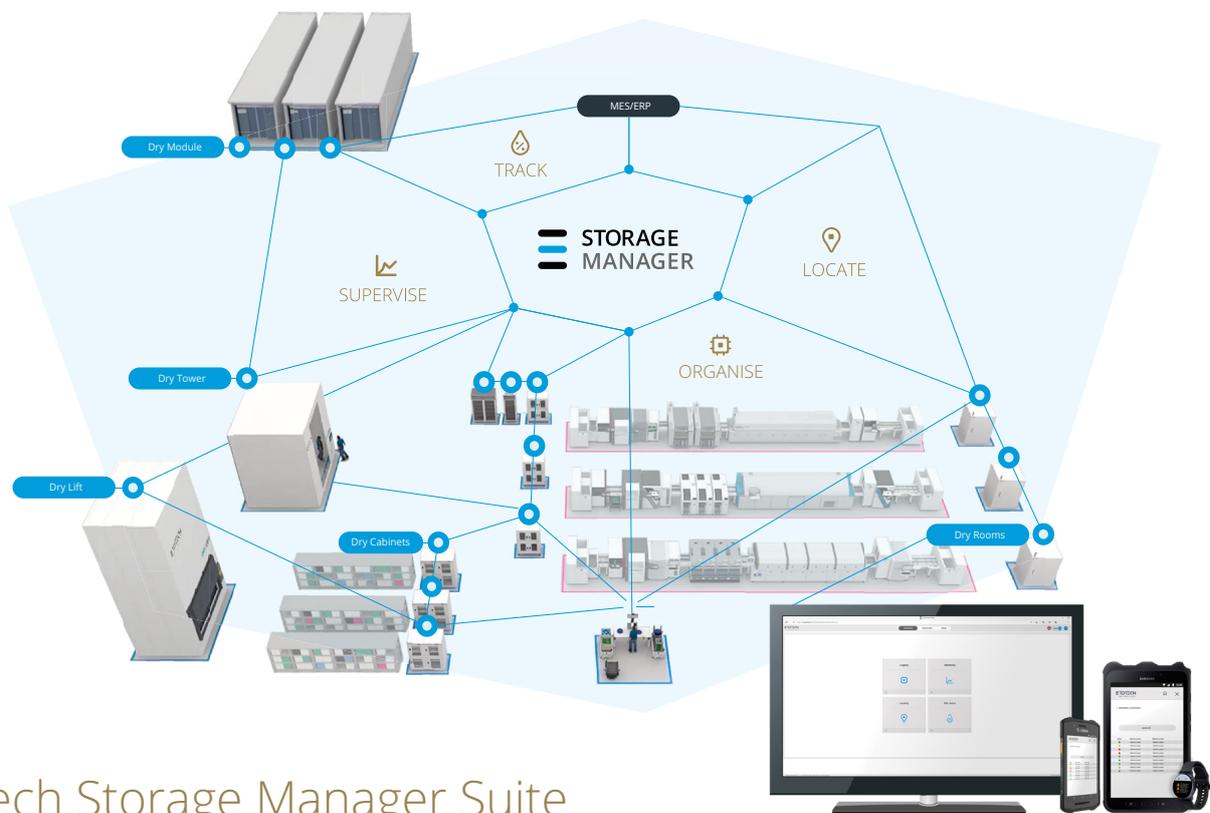
STORAGE & MSL MANAGEMENT ON MANY LEVELS

Low humidity desiccant Dry Storage Systems from Totech Europe protect your electronic components, PCBs, and other moisture-sensitive semi-manufactured products against defects caused by humidity.

Our mission is to develop controlled storage solutions that minimize the failures of components, component waste, and optimize the quality of those components.

Our Dry Storage Solutions deliver a low, controlled level of humidity (<0.5%). This qualifies them not only for unlimited safe storage of components but also means they can safely remove moisture, thus resetting floor life without oxidation, even at ambient temperatures.

To keep track of these processes, you can choose Totech Storage Manager. This software suite works perfectly in combination with the different hardware solutions of Totech Europe. It is developed for the Smart Connect range, from Dry Cabinets to Dry Rooms and all automated solutions.



Totech Storage Manager Suite



Logging Module

ensures that data such as relative humidity and temperature, measured by the system's sensors, is retrieved and logged.



Monitoring Module

enables you to set alarms. Notifications will be raised by the Storage Manager on multiple devices, by email, or even through an optional smartwatch extension.



Locating Module

enables you to store your products in and out by scanning them. This module keeps track of the storage location and timing of the storage processes.



MSL Status Module

not only keeps track of the time a product is scanned in or out of a location but also calculates the remaining floor lifetime and drying status according to JEDEC-J-STD-033D or Totech reference of the drying table.

