



Drying Cabinets and Vacuum Machines for Moisture Sensitive Components



# Content



Our cabinets are esd-safe



Very environmental-friendly



**Jos Brehler**  
CEO Totech Europe B.V.

We are very pleased to welcome you to our newest brochure, and to show you the many new innovations that have been introduced in our new product line-up, much of which is German engineered and manufactured. During the past 5 years Totech Europe has grown into a global market leader, supplying MSD management solutions to many well-

known companies with whom we have worked closely to extend our technology. We also provide custom designs to meet special applications and invite you to contact us with any special requirements you might have.

Our development efforts have produced new levels of drying performance but also environmentally responsible products such as our HSDi series. The control and management of moisture sensitive components and PCB's in today's industry is a fast changing challenge. Super Dry by Totech is here to help you meet that challenge head on.



Page	RH 0,5%	RH <5%	N <sup>2</sup>	Room-temp.*	40°C	60°C
3 SDB-Series		✗	✗	✗		
4 SD-Series		✗	✗	✗		
6 HSD-Series	✗		✗	✗		
8 MSD-Series	✗		✗	✗	✗	
10 HSDi-Series	✗		✗		✗	✗
11 Custom-made cabinets	✗	✗	✗	✗	✗	✗
12 XSD-Series	✗		✗		✗	✗
14 SDA-Series		✗	✗	✗		
15 SDF / SDR-Series		✗	✗	✗	✗	✗
16 iStorage-System		✗		✗		
18 SDV-Vacuum Machines		✗	✗			
20 Product advantages						
21 Optional Accessories for all cabinets						
22 ESD & Cleanroom products						
23 Reference tables of the cabinets						

✗ Series equipment

\* without temperature adjustment, Ø-room temperature: 25°C

✗ Optional available

# Dry storage cabinets SDB-Series Wide choice at low prices.

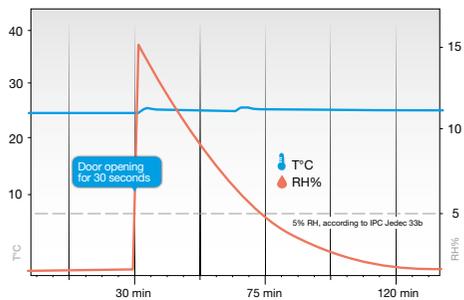
Storage < 5% RH    Room temp. Ø 25°C



Our Super Dry Basic dry storage cabinet Series combines 3 different sizes with patented drying technology. Specially designed for Dry Storage < 5% RH in conformity with IPC. These cabinets do not have door or humidity alarm and will be delivered with painted ESD shelves.

### Options:

- no further options available



SDB 1104, 1106

## SDB 151-21

Ext. dimensions (whd): 500 x 630 x 580 mm
Int. dimensions (whd) (excl. dry unit): 490 x 560 x 530 mm
Effective capacity: 145 l
Weight: 29 kg
Number of shelves: 3
Drying unit: 1 x U-2000 for < 5% RH
Power consumption: 21 W/h



## SDB 1104-21

Ext. dimensions (whd): 1200 x 184 x 670 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1560 x 620 mm
Effective capacity: 1160 l
Weight: 155 kg
Number of shelves: 5
Drying unit: 1 x U-2000 for < 5% RH
Power consumption: 21 W/h



## SDB 1106-21

Ext. dimensions (whd): 1200 x 1840 x 670 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1560 x 620 mm
Effective capacity: 1160 l
Weight: 160 kg
Number of shelves: 5
Drying unit: 1 x U-2000 for < 5% RH
Power consumption: 21 W/h



Text display with operation field of the 21-Series



(These cabinets cannot be equipped with N2 or Heater)

# Dry storage cabinets SD-Series

Storage < 5% RH	Room temp. Ø 25°C	optional 40°C
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Optimal protection with minimal deployment. User-friendly operation and compact construction guarantee safe and reliable storage requirements.



The cabinet of the SD-Series is equipped with a patented drying unit. This achieves a low humidity of < 5% RH. Humidity, temperature and alarm function are shown on a digital display. The circulation of the air in the cabinet is regulated through a door automatic. All surfaces are painted in a conducted way and in conformity with current ESD standards. These series were developed for a medium to long-term storage to avoid damages of humidity and oxidation.

Ext. dimensions: 500 x 630 x 580 mm  
 Int. dimensions (whd) (excl. dry unit) : 490 x 560 x 530 mm  
 Effective capacity: 145 l  
 Weight: 29 kg  
 Number of shelves: 3  
 Drying unit: 1 x U-2000 for < 5% RH

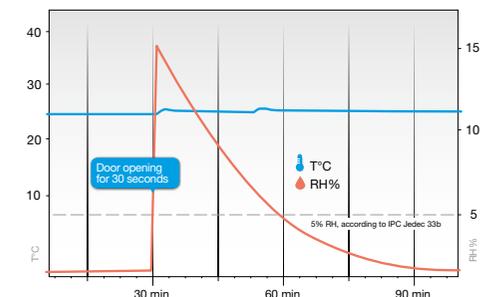
SD 151-21

Ext. dimensions: 500 x 1230 x 640 mm  
 Int. dimensions (whd) (excl. dry unit) : 490 x 1160 x 590 mm  
 Effective capacity: 340 l  
 Weight: 60 kg  
 Number of shelves: 7  
 Drying unit: 1 x U-2000 for < 5% RH

SD 302-21

Ext. dimensions: 880 x 900 x 740 mm  
 Int. dimensions (whd) (excl. dry unit) : 870 x 830 x 690 mm  
 Effective capacity: 500 l  
 Weight: 60 kg  
 Number of shelves: 3  
 Drying unit: 1 x U-2000 for < 5% RH

SD 502-21



SD 151, 302, 502

# Dry storage cabinets SD-Series

Storage < 5% RH	Room temp. Ø 25°C	Temperature 40°C (optional)	Nitrogen optional
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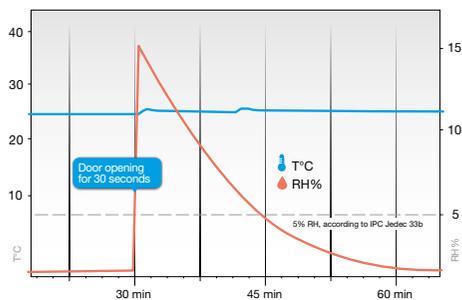


## Included:

- Door alarm & RH alarm included
- Chrome steel shelves
- Pre mounted holes for heater & auto flow system
- 2 dry units (SD 1106, SD 1104)

## Options:

- Shelves
- Adjustable legs
- Automatic nitrogen unit with door contact switch
- Two-colour alarm lights
- Datalogger
- Optional accessories



SD 1104, 1106

## SD 702-21

Ext. dimensions: 620 x 1840 x 780 mm
Int. dimensions (whd) (excl. dry unit) : 610 x 1560 x 730 mm
Effective capacity: 700 l
Weight: 110 kg
Number of shelves: 5
Drying unit: 1 x U-2000 for < 5%

## SD 1104-21

Ext. dimensions: 120 x 1840 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 119 x 1560 x 620 mm
Effective capacity: 1160 l
Weight: 155 kg
Number of shelves: 5
Drying unit: 2 x U-2000 for < 5% RH

## SD 1106-21

Ext. dimensions: 120 x 1840 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 119 x 1560 x 620 mm
Effective capacity: 1160 l
Weight: 160 kg
Number of shelves: 5
Drying unit: 2 x U-2000 for < 5% RH



# Drying cabinet HSD-Series

Drying 0.5% RH	Room temp. Ø 25°C	Nitrogen optional
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Our HSD Series combines a large choice of various cabinet sizes with high achievement drying technology “Made in Germany”. Category: Very good – our practice test winner for your production.



Text display with operation field of the 52-Series



## Equipment

- Height adjustable and sliding shelves
- Lockable doors
- Drying unit U-5000 Series, < 0.5% RH
- Precision sensor (Rotronic)
- Door and humidity alarm
- Text display with operation field
- Humidity and temperature report
- RS 232 interface for guarding online data
- ESD-safe design
- 4 Transport castors/ 4 Feet
- Integrated data logger

Ext. dimensions (whd): 610 x 1950 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 600 x 1730 x 660 mm
Effective capacity: 700 l
Weight: 90 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH

HSD 702-52

Ext. dimensions (whd): 124 x 1950 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 119 x 1740 x 660 mm/780 mm
Effective capacity: 1400 l
Weight: 180 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH

HSD 1404-52

Ext. dimensions (whd): 124 x 1950 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 119 x 1740 x 660 mm/780 mm
Effective capacity: 1400 l
Weight: 180 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH

HSD 1406-52

# Drying cabinet HSD-Series

Drying 0.5% RH    Room temp. Ø 25°C    Nitrogen optional

The HSD cabinet is especially characterized by its fast back drying, the precision sensor, and its reliable control unit. The dynamic drying unit U-5000 Series guarantees a fast drying and regeneration adapted to the number of its opening cycles. Therefore it is very suitable for operation with frequent approach. The maximum dryness is around < 0.5% RH and provides optimal storage conditions for your materials.

## HSD 241-52

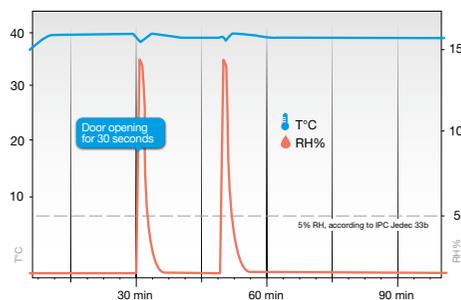
Ext. dimensions (whd): 610 x 820 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 600 x 600 x 660 mm
Effective capacity: 240 l
Weight: 55 kg
Number of shelves: 2 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH

## HSD 351-52

Ext. dimensions (whd): 610 x 1100 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 600 x 880 x 660 mm
Effective capacity: 350 l
Weight: 70 kg
Number of shelves: 2 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH

## HSD 472-52

Ext. dimensions (whd): 610 x 1380 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 600 x 1170 x 660 mm
Effective capacity: 470 l
Weight: 80 kg
Number of shelves: 3 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH



# Modular drying cabinet MSD-Series

Drying 0.5% RH	Room temp. Ø 25°C	Temperature 40°C (optional)	Nitrogen optional
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The cabinet that grows with your requirements. Made to size solutions are possible through modular construction.  
The standard cabinet can be extended with further modular cabinets up to 6000 l.



Ext. dimensions (whd): 840 x 2040 x 900 mm
Int. dimensions (whd): 760 x 1780 x 850 mm
Effective capacity: 1200 l
Weight: 120 kg
Number of shelves: 4 sliding shelves
Number of doors: 4 doors back & front
No drying unit pre-installed

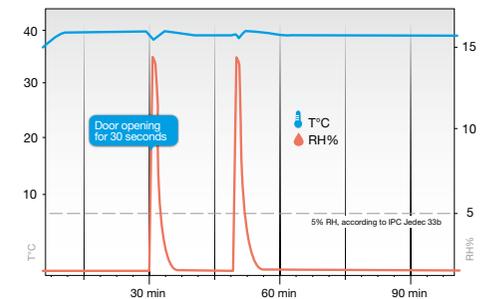
MSD 1212



Ext. dimensions (whd): 840 x 2040 x 900 mm
Int. dimensions (whd) (excl. dry unit): 760 x 1780 x 850 mm
Effective capacity: 1150 l
Weight: 150 kg
Number of shelves: 4 sliding shelves
Number of doors: 3 doors back & front
Dry unit: 1 x U-5000 for < 0.5% RH

MSD 1202-52

The cabinet is characterized by its innovative modular construction and makes a step by step extension of the storage capacity in the process of cabinet construction possible. Further cabinet parts or drying units can be integrated on demand in the system of the cabinet. The conveniently arranged and user-friendly display makes a safe adjustment of the following functions possible: humidity, alarm functions and heating. The serial production of RS 232 interface makes a simple reading of the integrated Dataloggers with our software possible. Our dynamic Drying unit U-5000 makes regenerations adapted to your demands.



# Modular drying cabinet MSD-Series

Drying <b>0.5% RH</b>	Room temp. <b>Ø 25°C</b>	Temperature <b>40°C (optional)</b>	Nitrogen <b>optional</b>
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## Equipment



- Lockable doors
- Drying unit U-5000 Series, < 0.5% RH
- Precision sensor (Rotronic)
- Door and humidity alarm
- Text display and operation field
- Humidity and temperature report
- RS 232 interface for online guarding of data
- ESD-safe design
- 4 Transport castors/ 4 Feet
- Integrated data logger

## MSD 611

Ext. dimensions (whd): 840 x 1200 x 900 mm
Int. dimensions (whd): 830 x 980 x 690 mm
Effective capacity: 561 l
Weight: 75 kg
Number of shelves: 2 sliding shelves
No drying unit pre-installed



## MSD 601

Ext. dimensions (whd): 840 x 1200 x 900 mm
Int. dimensions (whd) (excl. dry unit): 830 x 980 x 690 mm
Effective capacity: 561 l
Weight: 90 kg
Number of shelves: 2 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH



# Insulated drying cabinets HSDi-Series

Drying 0.5% RH	Temp. 40°C	Temperature to 60°C (optional)	Nitrogen optional
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Low energy consumption with temperatures up to 60°C are the successful way for a quick, drying of your components and PCB's. The drying of humidity sensitive components becomes increasingly important. To speed up the drying process we recommend insulated drying cabinets.



Ext. dimensions (whd): 640 x 1980 x 700 mm
Int. dimensions (whd) (excl. dry unit): 600 x 1730 x 660 mm
Effective capacity: 700 l
Weight: 90 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH

HSDi 702-52



Ext. dimensions (whd): 1230 x 1980 x 700 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1740 x 660 mm
Effective capacity: 1400 l
Weight: 180 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH

HSDi 1404-52

## Equipment

- Lockable doors with 20 mm double glass
- Continuously adjustable heating up to 40°C (60°C as option)
- Insulated cabinet body
- Drying unit U-5000 Series, < 0.5% RH
- Precision sensor (Rotronic)
- Door and humidity alarm
- Text display with operation field
- Humidity and Temperature report
- RS 232 interface for online guarding of data
- ESD-safe design
- 4 Transport castors/ 4 Feet
- Integrated data logger
- Various sizes on application
- 5 Sliding shelves

# Custom-made cabinets

Drying 0.5% RH	Storage < 5% RH	Temperatures 25°C, 40°C & 60°C	Nitrogen optional
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Our custom-made cabinets are the answer to the increased interest of our customers in individual solutions. With this modular concept we are in a position to react quickly to the wishes of our customers. By using reliable parts we guarantee a safe process also with special solutions. We are interested in low energy values and environment-friendly solutions. You have a choice in our single parts MSD / HSD and XSD. You can choose from the following components:

## Equipment possibilities

- Drying unit U-5000 Series
- Computer steering with touchscreen Display LCD 5.7" (320x240 Pixel)
- SD card reader
- Text display with operation field
- Double-walled insulation
- Heat-resistant double glazing
- Heating up to 60°C
- Electrical sliding door
- Individual cabinet sizes
- Individual Construction
- RS 232 interface for guarding online data
- Software for data processing
- Log steering with text display etc.



Dry room with special Trolley



U-5000



U-7000



N2 Auto Purge System



Heater 40°C



Heater 60°C



RS 232 interface



Double Glazing



Touchscreen Display



High accuracy sensor

# Insulated drying cabinets XSD-Series

The combination of high achievement dryer, heating and thick-walled insulation enables the XSD-Series to effect a quick drying of moist components and pcb's.



External dimensions (whd): 740 x 2120 x 800 mm  
 Internal dimensions (whd): 670 x 1440 x 590 mm  
 Effective capacity: 570 l  
 Weight: 142 kg  
 Number of shelves: 5  
 Dry unit: 1 x U-5002 for < 0.5% RH

XSD 702-52



External dimensions (whd): 147 x 2120 x 800 mm  
 Internal dimensions (whd): 1330 x 1430 x 590 mm  
 Effective capacity: 1150 l  
 Weight: 230 kg  
 Number of shelves: 10  
 Dry unit: 1 x U-5002 for < 0.5% RH

XSD 1404-52

The XSD-Series reaches humidity values of < 0.5% RH and regenerates automatically if necessary. Thanks to the double walled stainless steel body with 70 mm insulation a temperature up to 60°C is reached at the lowest consumption of energy. A central radial fan supports the drying process and provides an even temperature and humidity division in the cabinet. With the precision sensor of the firm of Rotronic the relevant process data are captured and are filed for back reference.

## General equipment

- Lockable doors
- Heat-resistant double glazing
- Radial fan for a stable temperature profile
- Continuously adjustable heating up to 60°C
- Insulated cabinet body / 70 mm
- Drying unit U-5000 Series, < 0.5%
- Precision sensor (Rotronic)
- ESD-safe design (also in- and outside glass)
- Height adjustable feet
- 5/10 Extendable shelves

## Text display with operation field of the 52-Series



## Equipment XSD with text display

- Text display with operation field of the 52-Series
- Humidity and temperature report
- Integrated data logger
- RS 232 interface for data.

# Insulated drying cabinet XSD-Series

Drying <b>0.5% RH</b>	Temp. <b>40°C</b>	Temp. <b>60°C</b>	Nitrogen <b>optional</b>
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## Equipment XSD

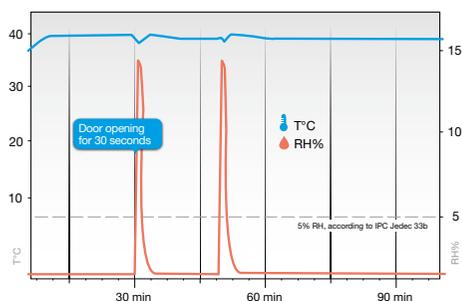
General equipment like XSD-Series (page 10)

- Interior lighting
- SD card reader for process documentation
- Viewer (to show recorded data of PC)
- Computer steering with touchscreen Display LCD 5.7" (320x240 Pixel)
- Reading of humidity and temperature for a period of 120 min.

## Operation element of the 53-Series



Full graphic touchscreen  
Display LCD 5.7"  
320x240 Pixel



## XSD 702-53

External dimensions (whd): 740 x 2120 x 800 mm
Internal dimensions (whd): 670 x 1440 x 590 mm
Effective capacity: 570 l
Weight: 142 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5000 for < 0.5% RH



## XSD 1404-53

External dimensions (whd): 147 x 2120 x 800 mm
Internal dimensions (whd): 1330 x 1430 x 590 mm
Effective capacity: 1150 l
Weight: 230 kg
Number of shelves: 10 sliding shelves
Dry unit: 1 x U-500 for < 0.5% RH



# Acrylic cabinets ESDA-Series

Drying < 5% RH	Room temp. Ø 25°C	N2 optional	< 1% optional
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Our acrylic cabinet series offers conveniently arranged storage possibilities with low humidities. Installation of an optional nitrogen or drying unit is available.



Text display with operation field of the 41-Series



N2 Auto Purge system



Nitrogen unit

Our ESDA-Series is suitable for storage under controlled atmosphere. This can be achieved through a nitrogen-unit or installation of our drying unit U-4000 for <5% RH or U-5000 for <1% RH. By ordering the U-5000 all technical features as well the text display out of the 52 serie are included (similar as the HSD/MSD series). All ESDA cabinet versions are made ESD safe.



External dimensions (whd): 520 x 750 x 520 mm  
 Internal dimensions (whd): 560 x 480 x 730 mm  
 Effective capacity: 200 l  
 Weight: 30 kg  
 Number of shelves: 2  
 Optional drying unit: U-4000

ESDA 201

External dimensions (whd): 570 x 1770 x 520 mm  
 Internal dimensions (whd): 560 x 480 x 1480 mm  
 Effective capacity: 400 l  
 Weight: 50 kg  
 Number of shelves: 5  
 Optional drying unit: U-4000

ESDA 402

External dimensions (whd): 1150 x 1770 x 520 mm  
 Internal dimensions (whd): 1120 x 480 x 1480 mm  
 Effective capacity: 800 l  
 Weight: 100 kg  
 Number of shelves: 10  
 Optional drying unit: U-4000

ESDA 804

# Drying Cabinet for feeder systems

The cabinets of the SDF and SDR-Series are equipped with high performance dryers and are suitable for storage in between of complete feeder systems. **Special sizes on application.**

Drying* <b>1% RH</b>	Room temp. <b>Ø 25°C</b>	Temperature to <b>40°C &amp; 60°C (optional)</b>	Nitrogen <b>optional</b>
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\* <5% RH SDF, 1% RH SDR



External dimensions (whd): 1200 x 1840 x 960 mm  
 Internal dimensions (whd): 1190 x 1560 x 910 mm  
 Effective capacity: 1700 l  
 Weight: 197 kg  
 Dry unit: 2 x U-2000 for <5% RH

**SDF 1704**

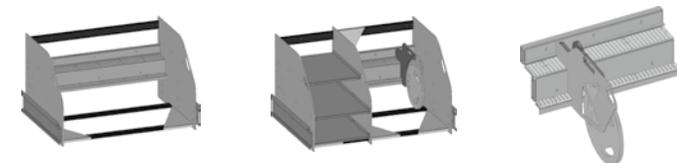
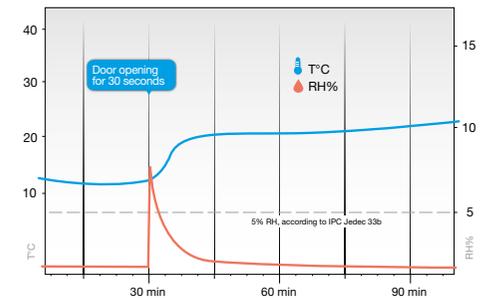


External dimensions (whd): 1050 x 1560 x 1050 mm  
 Internal dimensions (whd): 990 x 1200 x 990 mm  
 Effective capacity: 1200 l  
 Weight: 197 kg  
 Dry unit: 1 x U-5000 for <1% RH

**SDR-Series**

Data SDR-1200

The feeder cabinets achieve a very low humidity level of up to 1% RH and are suitable for storage in between of feeder (trolley) systems. The internal life of the cabinets is especially geared to its feeder system. With this the upper part of the cabinet can be fitted with shelves. The SDR-Series can be supplied with Touchscreen Display, Heating (up to 60°C) and dynamic Drying unit U-5000 series.



Different feeder racks available:  
 Siplace, Europlacer Assembleon, Fuji, Juki etc.

# Super Dry iStorage SDI

The first intelligent storage system for process-ready components up to 5,500 reels!

The first automatic modular storage system for keeping more than 5,500 reels, pcb's, trays etc. The Totech Super Dry iStorage System combined with The U-7000 Drying Unit protects humidity sensitive components against the dangers of oxidation and humidity, because it can achieve a relative humidity of less than 2% RH. This new drying cabinet stands out by its innovative modular construction which enables the user to add more room when production demand increases.

Ext. dimensions (whd): 1155 x 2663 x 1190 mm

Weight: 263 kg

Racks for components

Space for lodging 160 reels of 7" up to 16mm

Automatic arm with handle manipulator for components pick-up/storage

Chamber for pick-up/storage of the components

Recognizable system through barcode for the management of the material location in the cabinet, PC, software for orders management and traceability

## Head Module

Ext. dimensions (whd): 1780 x 2663 x 1190 mm

Weight: 371 kg

FREEDOM 630 - 630 reels diameter 7" and height up to 16mm

FREEDOM 765 - 315 reels diameter 7" and height up to 16mm and 450 reels diameter 7" height 8mm

FREEDOM 900 - 900 reels diameter 7" and height 8mm

## Free Module



Storage < 5% RH	Room temp. Ø 25°C	Nitrogen optional
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Ext. dimensions (whd): 1780 x 2663 x 1190 mm  
 Weight: 371 kg  
 TRAY 160 - 160 trays for reels with diameter up to 15" and height up to 32 mm or tray for QFP/BGA or PTH components or various material in proper containers  
 TRAY 228 - 80 trays for reels with diameter up to 15" and height up to 32 mm or tray per QFP/BGA or PTH components or various material in proper containers and 148 shelves for reels diameter up to 15" and height up to 12 mm or tray for QFP/BGA  
 TRAY 296 - 296 trays for reels diameter up to 15" and height until 12 mm or tray for QFP/BGA

### Tray Module

Ext. dimensions (whd): 1780 x 2663 x 1190 mm  
 Weight: 371 kg  
 MIX 395 - 315 reels with diameter 7" and height 16mm; 80 trays for reels with diameter up to 15" and height up to 32 mm or tray per QFP/BGA or PTH components or various materials in proper containers  
 MIX 463 - 315 reels with diameter 7" and height 16mm; 148 trays for reels with diameter up to 15" and height up to 12 mm or tray for QFP/BGA  
 MIX 530 - 450 reels with diameter 7" and height 8mm; 80 trays for reels with diameter up to 15" and height up to 32 mm or tray per QFP/BGA or PTH components or various materials in proper containers  
 MIX 598 - 450 reels with diameter 7" and height 8mm; 148 trays for reels with diameter up to 15" and height up to 12 mm or tray for QFP/BGA

### Mix Module

### Drying Unit

The U-7000 "Rotation Series" is developed for bigger dry rooms. By uninterrupted drying you always have drying achievement available.

Max. Dry performance: 2% RH  
 Drying capability: 1,6 kg/h  
 Dry air max.: 300 m³/h

### U-7000 Drying Unit



# Vacuum Machines SDV 46

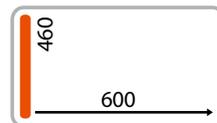
Our ESD vacuum machine series is particularly suitable for being used in ESD protected sections. The controlled reduction of humidity and oxygen content serve to ensure safe storage and transport conditions. Ideally suitable for the packaging of moisture-sensitive materials.



Int. dimensions (whd): 650 x 210 x 475 mm  
Sealing length: 460 mm  
Vacuum pump: 21 m<sup>3</sup>/h  
Weight: 95 kg  
Digital steering Z-3000

**SDV 46**

Sealing length



## Control Display Z3000 / (Model Z-2000, Time Controlled)

Our sensor control has been equipped with a vacuum sensor, and allows for the accurate setting of important parameters. Humidity and oxygen content can be reduced in a controlled manner. 99 program memories facilitate your packaging result's reproducibility and ensure easy handling and operation.



## ESD Safe

Our machines have been equipped with acrylic covers. All surfaces are electrically conductive. Critical surfaces have been coated with dissipative plastics, and feature a bleeder resistance of 1-6 Ohm/sq, compliant with the ESD standard.



## Nitrogen

Optionally, a nitrogen unit may be installed to facilitate the packaging of materials, which are vulnerable to oxidation or of pressure-sensitive nature. The additional reduction of oxygen content and diffusion rate are ideal for long-term storage.



## IPC Conform

The construction & control system are based on the IPC regulation



# Vacuum Machines SDV-Series

Storage < 5% RH    Temp. 25°C    Nitrogen optional

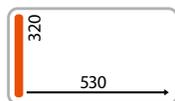
The ideal combined action of vacuum chamber, heating system, and vacuum pump characterizes this apparatus.

Dependent on the size of the machine trays, sticks and reels can be packed in conformity with the "IPC norm Jedec 033B". All models are available in ESD Design, with Nitrogen Unit, and Under Carriage. In case you are interested in consumer materials such as drying means, humidity indicators or moisture barrier bags, go to our webshop, [www.totech\\_superstat.com](http://www.totech_superstat.com)



Internal dimensions (whd): 580 x 125 x 350 mm	Internal dimensions (whd): 450 x 210 x 460 mm	Internal dimensions (whd): 450 x 210 x 460 mm	Internal dimensions (whd): 650 x 210 x 475 mm	Internal dimensions (whd): 650 x 210 x 475 mm
Sealing length: 320 mm	Sealing length: 420 mm	Sealing length: 420 mm	Sealing length: 460 mm	Sealing length: 460 mm
Vacuum pump: 10 m³/h	Vacuum pump: 16 m³/h	Vacuum pump: 16 m³/h	Vacuum pump: 16 m³/h	Vacuum pump: 21 m³/h
Weight: 60 kg	Weight: 69 kg	Weight: 70 kg	Weight: 92 kg	Weight: 95 kg
Digital steering Z-2000	Sensor steering Z-2000	Sensor steering Z-3000	Digital steering Z-2000	Digital steering Z-3000

## SDV 26

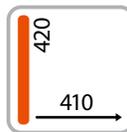


Sealing length



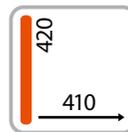
100 x 660 mm

## SDV 36 basic



250 x 500 mm

## SDV 36

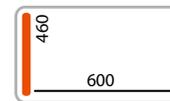


420 x 440 mm



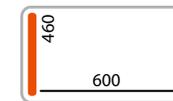
420 x 540 mm

## SDV 46 basic



Moisture Barrier Bags  
Humidity Indicator & Desiccant

## SDV 46



# Advantages Totech cabinets SUPER DRY®

- Drying level (example)
- Recoverytime after door opening
- Accuracy of Sensor RH% & T°C
- Accuracy of Temperature
- User Friendly Handling
- ESD features
- Datalogging
- Online read out
- RH% Setting & Stability
- Internal illumination
- Door & humidity alarm buzzer
- Energy saving consumption
- Specification

## XSD 1404-53

- Level 3 component < 1,4mm, 18 hours, (60°C / 1%RH)
- < 6 minutes
- 1% / ± 1°C (Rotronic)
- ± 2°C
- Display with Touchscreen & features
- Conductive stainless steelbody also window ESD safe
- Endless
- SD card
- All settings possible & stable read out
- Standard
- Standard
- Due to 800 Watt/h and 40 mm double PUR Insolation & dynamic dry unit
- Fast drying



## HSD-i 1404-52

- Level 3 component < 1,4mm, 18 hours, (60°C / 1%RH)
- < 6 minutes
- 1% / ± 1°C (Rotronic)
- ± 5°C
- Display multi language, 5 menu's & up and down button
- ESD metal painted body also window ESD safe
- Standard 2000 measuring points
- RS232 Standard
- All settings possible & stable read out
- Not available
- Standard
- Due to 10mm Airflex insolation & dynamic dry unit
- Dynamic dry unit



## Competitors

- Level 3 component < 1,4mm, (25°C / 5%RH) 16 days
- < 1 hours
- 3% / ± 1°C
- ± 10°C
- Only up & down button
- No ESD paint, window ESD safe
- Not standard, available as option
- Not standard, available as option
- No settings or not stable read out
- Not available
- Not standard
- No or poor insolation & no dynamic dry unit
- Not in programm

- Drying level (example)
- Recoverytime after door opening
- Accuracy of Sensor RH% & T°C
- Accuracy of Temperature
- User Friendly Handling
- ESD features
- Datalogging
- Online read out
- RH% Setting & Stability
- Internal illumination
- Door & humidity alarm buzzer
- Energy saving consumption
- Specification

## MSD / HSD

- Level 3 component < 1,4mm, 8 days, (25°C / 1%RH)
- < 6 minutes
- 1% / ± 1°C (Rotronic)
- ± 5°C
- Display multi language, 5 menu's & up and down button
- ESD metal painted body also window ESD safe
- Standard 2000 measuring points
- RS232 Standard
- All settings possible & stable read out
- Not available
- Standard
- Dynamic dry unit
- MSD can grow with your needs



## SD

- Level 3 component < 1,4mm, 13 days, (25°C / 3%RH)
- < 45 min
- 3% / ± 1°C
- ± 5°C
- Up en down settings, calibration as well as alarm settings
- Dissipative body also window ESD safe
- Not standard, available as option
- Not standard, available as option
- All settings possible & stable read out
- Not available
- Not standard by SDB serie
- N/a
- Stable dry unit



## Competitors

- Level 3 component < 1,4mm, (25°C / 5%RH) 16 days
- < 1 hours
- 3% / ± 1°C
- ± 10°C
- Only up & down button
- No ESD paint, window ESD safe
- Not standard, available as option
- Not standard, available as option
- No settings or not stable read out
- Not available
- Not standard
- No or poor insolation & no dynamic dry unit
- Not in programm

# General options for all cabinet series



Shelves



Separation elements



External alarm lights



Door alarm



Various data loggers



SMD reel holders



SMD reel holder on extendable shelf



SMD reel holder extendable



ESD wheels



Height adjustable feet



Calibration apparatus



Nitrogen unit



N2 Auto Purge system



Heating 40°- 60°C



Various steering



Heater max. 40°C



A leader in ESD & Cleanroom safety, with a broad depth of products.

We have all the static control products you will need to outfit your static safe environments and Cleanroom Areas.

You will see that we will have many opportunities for innovative new products, including a wider offering of static control and cleanroom products.

## We Aim for the following:

- Customer Satisfaction
- Quality Products
- Very Competitive Pricing
- Innovation
- Highly Motivated and Specialist Team
- Long Term Relationships with Customers
- Maximum Availability
- Respect Delivery Terms



## Our ESD product offering

- ESD Flooring
- ESD Workstations
- Personnel Grounding
- ESD Garments
- ESD Table Mats
- Cleanroom Wipes
- Cleanroom Garments
- ESD Packaging Materials
- ESD Handling and Storage
- ESD Foams
- ESD Test and Measurement
- ESD Brushes
- Cleanroom Accessories
- Kapton tapes
- ESD Paper
- ESD Office Equipment
- ESD Service Equipment
- ESD Tapes
- ESD Gloves
- Cleanroom Masks
- ESD Shoes



Our reference table offers you a survey of the drying times of your components. Please read it dependent on component strength, MSL Level, temperature and humidity Level.

**Body Thickness**

Level	Drying at 1% RH (MSD, HSD, HSDi & XSD-Series)			Drying at 2% RH (SDB, SD & SDA-Series)		**Drying at 5% RH	
	25°C 1% RH	40°C 1% RH	60°C 1% RH	25°C 2% RH	40°C 2% RH	40°C 5% RH	90°C 5% RH

**Thickness  
≤ 1,4 mm**

2a	5 days	2 days	12 hours	7 days	3 days	5 days	23 hours
*3	8 days	3 days	18 hours	12 days	5 days	8 days	33 hours
4	9 days	4 days	24 hours	13 days	6 days	9 days	37 hours
5	10 days	5 days	30 hours	14 days	7 days	10 days	41 hours
5a	10 days	6 days	36 hours	15 days	9 days	10 days	54 hours

**Thickness  
> 1,4 mm  
≤ 2,0 mm**

2a	22 days	10 days	2 days	30 days	15 days	22 days	3 days
3	23 days	11 days	2 days	35 days	16 days	23 days	4 days
4	28 days	14 days	3 days	40 days	17 days	28 days	5 days
5	35 days	16 days	4 days	50 days	24 days	35 days	6 days
5a	56 days	18 days	4 days	67 days	27 days	56 days	8 days

**Thickness  
> 2,0 mm  
≤ 4,5 mm**

2a	67 days	20 days	5 days	80 days	30 days	67 days	10 days
3	67 days	22 days	5 days	80 days	31 days	67 days	10 days
4	67 days	22 days	5 days	80 days	31 days	67 days	10 days
5	67 days	22 days	5 days	80 days	31 days	67 days	10 days
5a	67 days	22 days	5 days	80 days	31 days	67 days	10 days

\* according 100TQFP-Test  
(Semiconductor Device (100TQFP)  
Dehumidifying Property)

\*\* according to IPC J-STD-033B





dealer

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