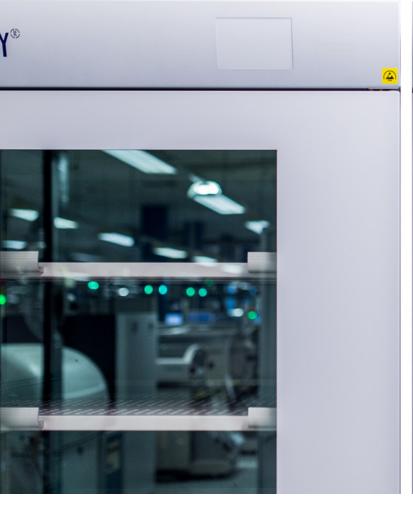


MORE THAN JUST DRY AIR

PRODUCT CATALOGUE





CONTENTS

DRYING CABINETS

























PREFERENCE TABLE Drying times at a glance 27

AUTOMATED STORAGE





VACUUM MACHINE



SDB SERIES ENTRANCE MODEL



Reliable and easy to use

FEATURES:

- Maintenance-free U-4001 drying unit with integrated fan
- ESD safe design (IEC 61340-5-1)
- User-friendly humidity visualisation through hygrometer
- Coated shelves
- Lockable doors
- Relative air humidity below 5% RH

OPTIONS:

- SMD reel rack
- Honeycomb module for IC tubes, etc.
- Additional shelves

SDB SERIES

The drying cabinets of the SDB series have been specifically designed as low-cost entrance models and feature only the basic functions. The patented 4001 drying unit guarantees constant low relative humidity for medium to long-term storage.







	SDB 151-40	SDB 1104-40	SDB 1106-40	
Ext. dimensions (WHD)	500 x 630 x 580 mm	1200 x 1840 x 658 mm	1200 x 1840 x 658 mm	
Int. dimensions (WHD)	490 x 560 x 530 mm	1190 x 1533 x 630 mm	1190 x 1533 x 630 mm	
Effective capacity	135	11391	11391	
Weight	37 kg	155 kg	155 kg	
Power consumption	24 W/h	24W/h	24 W/h	
Number of shelves	3	5	5	

Characteristics



U-4001 series dryer:Air drying RH to below 2% Regeneration: static (timercontrolled)



Stand alone battery operated humidity measurement device



Performance:30 min recovery time after door opening to below 5% RH



Control:No integrated control
Display of climate data
through hygrometer



Convection:Forced convection through forced air circulation



Documentation:External data logger optional

SD SERIES ROBUST DESIGN



Advanced technology and Robust design

FEATURES:

- Maintenance-free U-2000 drying unit with integrated fan
- ESD safe design (IEC 61340-5-1)
- Limit value monitoring (RH; °C)
- Door alarm, humidity alarm
- Digital control panel with humidity and temperature display
- Lockable doors
- Regulated relative humidity

- Suitable for storage and drying according to IPC standards
- Interruption-free and redundant drying by means of 2 drying units (SD-1104/1106 and SDF-1704 only)

OPTIONS:

- Automatic nitrogen unit
- Heater (40°C)
- Feeder rack

SD SERIES

The SD series comprises a wide range of cabinet models. Thanks to their advanced design, chrome steel standard shelves and reliable drying units, they offer maximum protection for medium to long-term storage.















	SD 151-21	SD 302-21	SD 502-21	SD 702-21	SD 1104-21	SD 1106-21	SD 1704-21	
Ext. dimensions (WHD)	500 x 630 x 580 mm	500 x 1127 x 640 mm	880 x 898 x 740 mm	620 x 1840 x 768 mm	1200 x 1840 x 658 mm	1200 x 1840 x 658 mm	1200 x 1840 x 960 mm	
Int. dimensions (WHD)	490 x 560 x 530 mm	490 x 1124 x 594 mm	870 x 830 x 702 mm	610 x 1533 x 735 mm	1190 x 1533 x 630 mm	1190 x 1533 x 630 mm	1190 x 1560 x 910 mm	
Effective capacity	135 I	3201	496	680 I	11391	11391	1700 I	
Weight	37 kg	68 kg	70 kg	152 kg	176 kg	176 kg	197 kg	
Power consumption	35 W/h	35 W/h	35 W/h	35 W/h	70 W/h	70 W/h	70 W/h	
Number of shelves	3	7	3	5	5	5	depending on cabinet layout	

Characteristics



U-2000 series dryer: RH drying to below 2% RH Regeneration: timer-controlled



Sensor: Integrated sensor, accuracy +/- 3% RH Offset configuration



Performance: 30 min recovery time after door opening to below 5% RH



Control: Humidity and temperature

display with parameter value input; humidity and door monitoring functions



Climate control: Optional heating up to 40°C Forced air circulation



Documentation: External data logger optional

SD+ SERIES PRECISION DRYING



Economical and precise

FEATURES:

- Maintenance-free U-2000 drying unit with integrated fan
- ESD safe design (IEC 61340-5-1)
- Limit value monitoring (RH; °C)
- Door alarm, humidity alarm
- Lockable doors
- Dynamic regeneration
- Integrated data logger
- Including software for PC visualisation

- Ethernet interface
- Regulated relative humidity

OPTIONS:

- Additional shelves
- Heater (40°C)
- Alarm light
- N² (nitrogen)

SD+ SERIES

The models of the SD+ series are essentially upgraded versions of the SD series. The cabinets are equipped with high-precision sensors. Dynamic regeneration of the drying units minimizes power consumption. A second drying unit ensure uninterrupted and redundant drying (SD+ 1104 and 1106 only). Datalogging through standard ethernet interface.







	SD+ 302-22	SD+ 1104-22	SD+ 1106-22	
Ext. dimensions (WHD)	500 x 1127 x 640 mm	1200 x 1840 x 658 mm	1200 x 1840 x 658 mm	
Int. dimensions (WHD)	490 x 1124 x 594 mm	1190 x 1533 x 630 mm	1190 x 1533 x 630 mm	
Effective capacity	3201	11391	11391	
Weight	68 kg	176 kg	176 kg	
Power consumption	24 W/h	48 W/h	48 W/h	
Number of shelves	7	5	5	

Characteristics



U-2000 series dryer: RH drying to below 2% RH Regeneration: dynamic



Sensor: Integrated Rotronic sensor, accuracy +/- 0.8% RH & +/- 0.2 °C



Performance:30 min recovery time after door opening to below 5% RH



Control:

PLC with limit value input through text display or web interface Door, temperature and humidity alarm



Climate control: Optional heating up to 40°C Forced air circulation



Documentation:

HSD SERIES EXTRA-FAST DRYING



Maximum process safety

FEATURES:

- Maintenance-free U-5000 drying unit with integrated fan
- ESD safe design (IEC 61340-5-1)
- Limit value monitoring (RH; °C)
- Door alarm, humidity alarm
- Lockable doors
- Regulated relative humidity below 0.5%
- Dynamic regeneration
- Integrated data logger

- Free software with viewer function
- Ethernet interface

OPTIONS:

- Automatic nitrogen unit
- Heater (40°C)
- Alarm light

HSD SERIES

The models of the HSD series come with a high-performance drying unit, precision measuring technology and an intuitive control panel.







	HSD 1104-52	HSD 1106-52	HSD 1704-52	
Ext. dimensions (WHD)	1200 x 1675 x 658 mm	1200 x 1675 x 658 mm	1200 x 1675 x 960 mm	
Int. dimensions (WHD)	1190 x 1533 x 630 mm	1190 x 1533 x 630 mm	1190 x 1533 x 910 mm	
Effective capacity	11791	11791	1700 I	
Weight	189 kg	189 kg	197 kg	
Power consumption	58 W/h	58 W/h	58 W/h	
Number of shelves	5	5	depending on cabinet layout	

Characteristics



U-5000 series dryer: RH drying to below 0.5% RH Regeneration: dynamic



Sensor: Integrated Rotronic sensor, accuracy +/- 0.8% RH & +/- 0.2 °C



Performance:15 min recovery time after door opening to below 1% RH



Control:

PLC with limit value input through text display or web interface Door, temperature and humidity alarm



Climate control: Optional heating up to 40 °C



Documentation:

MSD SERIES MODULAR DESIGN



The cabinet that grows with your requirements.

FEATURES:

- Maintenance-free U-5000 drying unit with integrated fan
- ESD safe design (IEC 61340-5-1)
- Limit value monitoring (RH; °C)
- Door alarm, humidity alarm
- Coated sliding shelves
- Lockable doors
- Regulated relative humidity below 0.5%
- Dynamic regeneration
- Integrated data logger
- Online monitoring

- Free Totech Viewer software
- Ethernet interface
- Adjustable legs

OPTIONS:

- Passive MSD 1223 add-on cabinet
- Automatic nitrogen unit
- Additional drying unit
- Convection module with heater (40 °C)

MSD SERIES

The MSD drying cabinets can grow with your demand. The modules are designed for easy extension to suit your needs.







	MSD 1222-54 Basic cabinet	MSD 1223-00 Add-on cabinet
Ext. dimensions (WHD)	840 x 2040 x 900 mm	840 x 2040 x 900 mm
Int. dimensions (WHD)	830 x 1780 x 850/730 mm	830 x 1780 x 850 mm
Effective capacity	1200	1255 I
Weight	140 kg	125 kg
Power consumption	30 W/h	30 W/h
Number of shelves	4	4

Capacity MSD 1222-54:	
Example storage	
Reels: 352	
Diameter: 330 mm	
Thickness: 8 mm	

Characteristics



U-5000 series dryer: RH drying to below 0.5% RH Regeneration: dynamic



Sensor: Integrated Rotronic sensor, accuracy +/- 0.8% RH & +/- 0.2 °C



Performance:15 min recovery time after door opening to below 1% RH



Control:

PLC with limit value input through touchscreen display or web interface Door, temperature and humidity alarm



Climate control:

Optional heating up to 40°C Forced air circulation



Documentation:





Perfection down to the last detail

FEATURES:

- Maintenance-free U-5000 series drying unit with integrated fan (XSDB & XSD series only)
- Insulated cabinet body
- 4" touchscreen display (XSDB & XSD series only)
- Powerful radial fan
- Heater (40°C) (XSDB)
- Heater (60 °C) (XSD)
- Cooling 2-20 °C (XSDC)
- ESD safe design (IEC 61340-5-1)
- Limit value monitoring (RH; °C)
- Door, humidity and temperature alarm
- Sliding grate shelves (XSD only)

- Lockable doors
- Regulated relative humidity below 0.5% RH
- Dynamic regeneration (XSDB & XSD series only)
- Integrated data logger (Not for XSDC 601-01)
- Free Totech Viewer software (Not for XSDC 601-01)
- Ethernet interface (Not for XSDC 601-01)
- Internal illumination (XSD & XSDC series only)

OPTIONS:

- Drawers
- Heater (60°C) (XSDB)
- 7" touchscreen display

XSDB / 54 / 57 SERIES

The premium cabinets of the XSD series combine high-performance drying along stable temperature and humidity curves with top-class design and craftsmanship.





	XSDB 701-54	XSDB 1402-54	
Ext. dimensions (WHD)	700 x 1930/2110 x 808 mm	1432 x 1930/2110 x 808 mm	
Int. dimensions (WHD)	544 x 1504 x 600 mm	1315 x 1504 x 600 mm	
Effective capacity	490	1190	
Weight	142 kg	230 kg	
Power consumption	230 W/h (40°C)	230 W/h (40°C)	
Number of shelves	5	10	

Characteristics



Dryer:RH drying to below 0.5% RH Regeneration: dynamic



Sensor: Integrated Rotronic sensor, accuracy +/- 0.8 RH & +/- 0.2 °C



Performance:10 min recovery time after door opening to below 0.5% RH



Control:
PLC with limit value input through touchscreen display or web interface
Door, temperature and humidity alarm



Climate control: Heating up to 40°C (optional up to 60°C) Forced air circulation



XSD / 54 / 57 & XSDV SERIES

The XSD series based on the XSDB series but features a stainless steel cabinet body, LED lighting, 60°C heater as well as sliding shelves with telescopic rails.







	XSD 701-54	XSD 1402-54	XSDV	
Ext. dimensions (WHD)	700 x 1930/2110 x 808 mm	1432 x 1930/2110 x 808 mm	variable	
Int. dimensions (WHD)	544 x 1504 x 600 mm	1315 x 1504 x 600 mm	variable	
Effective capacity	490	1190 I	variable	
Weight	142 kg	230 kg	variable	
Power consumption	230 W/h (40°C)	230 W/h (40°C)	variable	
Number of shelves	5	10	variable	

Characteristics



RH drying to below 0.5% RH Regeneration: dynamic



Sensor: Integrated Rotronic sensor, accuracy +/- 0.8% RH & +/- 0.3 °C



Performance:10 min recovery time after door opening to below 0.5% RH



Control:

PLC with limited value input through touchscreen display or web interface Door, temperature and humidity alarm



Climate control:

Heating up to 60°C Forced air circulation



Documentation:

XSDC SERIES

The XSDC series is the ideal solution for controlled cooling. It provides a stable temperature for all cooling storage needs like solder paste.



	XSDC 601-01	XSDC 601-02	
Ext. dimensions* (WHD)	702 x 2060 x 672 mm	702 x 2060 x 672 mm	
Int. dimensions* (WHD)	550 x 1526 x 579 mm	550 x 1526 x 579 mm	
Effective capacity*	466	466 I	
Weight*	113 kg	113 kg	
Power consumption*	60-100 W/h	60-100 W/h	
Number of shelves*	3	3	

Characteristics



Dryer:No drying available



Sensor: Rotronic Sensor accuracy +/- 0.8% RH & +/- 0.2 °C



Performance:
20 min recovery time after
10 hour power down to
below 5 °C



Control: PLC with limit value input through text display and web interface (601-02)

Door and temperature alarm



Climate control: Cooling 2-20 °C Forced air circulation



Documentation:

Integrated data logger Climate data recording Free Totech Viewer software (all 601-02 only)

XSDC SERIES LONG TERM STORAGE



Drying combined with cooling

FEATURES:

- Maintenance-free U-5000 series drying unit with integrated fan
- Insulated cabinet body
- Powerful radial fan
- Cooling 10 °C below environment temperature
- ESD safe design (IEC 61340-5-1)
- Limit value monitoring (RH; °C)
- Door, humidity & temperature alarm
- Lockable doors
- Regulated relative humidity below 5% RH

- Dynamic regeneration
- Integrated data logger
- Free Totech Viewer software
- Interior lighting

OPTIONS:

- Drawers
- Humidity & temperature alarm light
- 7" touchscreen display

XSDC LONG TERM STORAGE

The XSDC Long Term Storage cabinet provides a stable low temperature and humidity for all long term storage needs. Data logging of temperature and alarms is achieved with the integrated data logger. Clean air filters can be equipped to provide additional component protection.



XSDC 1402-54	
1432 x 1930/2110 x 808 mm	
1315 x 1504 x 600 mm	
1190 I	
255 kg	
790 W/h	
10	
	1432 x 1930/2110 x 808 mm 1315 x 1504 x 600 mm 1190 I 255 kg 790 W/h

Characteristics



Dryer: RH drying to below 5% RH Regeneration: dynamic



Sensor: Integrated Rotronic sensor, Accuracy +/- 0.8% RH & +/- 0.2 °C



Performance:30 min recovery time after door opening to below 5% RH



Control:

PLC with limit value input through text display or web interface Door, humidity and temperature alarm



Climate control: Cooling 10 °C below environment temperature



Documentation:





Reset of multiple MSL level components at the same time

FEATURES:

- Maintenance-free U-2000 series drying unit with integrated fan
- MSL timers for embedded containers for each chamber
- Touchscreen display
- Two separate chambers which can be independently heated up to 60 °C
- Regulated relative humidity for each chamber (<1% RH)
- Insulated cabinet body
- ESD safe design (IEC 61340-5-1)
- Limit value monitoring (RH; °C)
- Door, humidity & temperature alarm
- Lockable top chamber door

- Regulated relative humidity below 5% RH
- Dynamic regeneration
- Integrated data logger
- Free Totech Viewer software
- Interior lighting
- SMD reel racks with reel support

OPTIONS:

- SMD reel rack with reel support
- Humidity & temperature alarm light

XSDR SERIES

The XSDR series has an outstanding performance for drying moisture sensitive components and pcb's. It is equipped with two chambers that are individually adjustable. It is developed to reset the floorlifetime of components, based on our Reference Table (p. 27). It has an integrated timer that can be manually set, and it will notify the user when the component is ready for use again. The dynamic drying units of the 2000 series reach very reliable low humidity values of ≤1%RH and automatically regenerate if necessary. As a result of an insulated double metal sandwich construction, a precise temperature of 60°C can be reached with a very low power consumption.



	XSDR 702-24
Ext. dimensions (WHD)	700 x 2060 x 850 mm
Int. dimensions (WHD)	582 x 696 x 685 mm
Effective capacity	260 I
Weight	138 kg
Power consumption	30 W/h per chamber
Number of shelves per chamber	2 (additional shelves available as an option)

Characteristics



RH drying to below 1% RH Regeneration: dynamic



Sensor: Integrated Rotronic sensor, Accuracy +/- 0.8% RH & +/- 0.2 °C



Performance:30 min recovery time after door opening to below 5% RH



Control:

PLC with limit value input through touchscreen display or web interface Door, humidity and temperature alarm



Climate control:

Heating up to 60 °C for each chamber Forced air circulation



Documentation:

ESDA SERIES ACRYLIC CABINETS



Transparency combined with versatility

FEATURES:

- High-quality polycarbonate cabinet body
- Lockable doors
- U-2000 drying unit (ESDA 402-21 and 804-21 only)
- ESD safe design
- Door and humidity alarm (ESDA-402-21 and ESDA-804-21 only)
- Digital control panel (ESDA-402-21 and ESDA-804-21 only)

OPTIONS:

- External signal lamp
- ESD wheels
- Nitrogen unit
- U-4000 drying unit

ESDA SERIES

The cabinets of the ESDA series have been designed with transparency in mind. They come with a wide range of equipment options, such as nitrogen units, various different dryers, ESD safe design, etc.











	ESDA 201-00	ESDA 402-00	ESDA 804-00	ESDA 402-21	ESDA 804-21	
Ext. dimensions (WHD)	574 x 750 x 517 mm	574 x 1690 x 517 mm	1152 x 1690 x 517 mm	574 x 1690 x 517 mm	1152 x 1690 x 517 mm	
Int. dimensions (WHD)	560 x 730 x 480 mm	560 x 1480 x 480 mm	1120 x 1480 x 480 mm	560 x 1480 x 480 mm	1120 x 1480 x 480 mm	
Effective capacity	200	400 I	800 I	400 I	800 I	
Weight	23 kg	59 kg	87 kg	60 kg	88 kg	
Power consumption	/	/	/	35 W/h	35 W/h	
Number of shelves	2	5	10	5	10	

Characteristics



U-2000 & U-4001 series dryer: RH drying to below 2% RH Regeneration: timer-controlled



Sensor:
No integrated sensor
(xxx-21 with integrated sensor
accuracy +/- 3% RH)



Performance:
30 min recovery time after door opening to below 5% RH (only with drying unit)



Control:

Humidity and temperature display with parameter value input; humidity and door monitoring functions (xxx-21 only)



Convection:

Forced convection through forced air circulation (only with drying unit)



Documentation:

External data logger optional

SDR SERIES WALK-IN DRY ROOMS



Custom-built dry rooms

OPTIONS:

- Maintenance-free U-5000 drying unit with integrated fan (also available with U-7000 drying unit)
- Insulated wall panels
- Heater (40 °C) with powerful radial fan
- Heater (60 °C) with powerful radial fan
- Limit value monitoring (RH; °C)
- Door alarm, humidity alarm
- Lockable doors

- Sight panels
- Regulated relative humidity below 5%
- Dynamic regeneration
- Integrated data logger
- Free software with viewer function
- 4" / 7" Touchscreen display

SDR SERIES

Custom-built dry rooms. We assist you in choosing the right dimensions, colour, drying capacity and software for your specific application. We use top-quality series components and advanced technology to build affordable dry rooms that meet your requirements.





Characteristics



U-5000/U-7000 series dryer: RH drying to below 5% RH Regeneration: dynamic



Sensor: Integrated Rotronic sensor, Accuracy +/- 0.8% RH & +/- 0.2 °C



Performance: Depending on dry room size



Control:

PLC with limit value input through text display or web interface Door, humidity and temperature alarm



Heating:

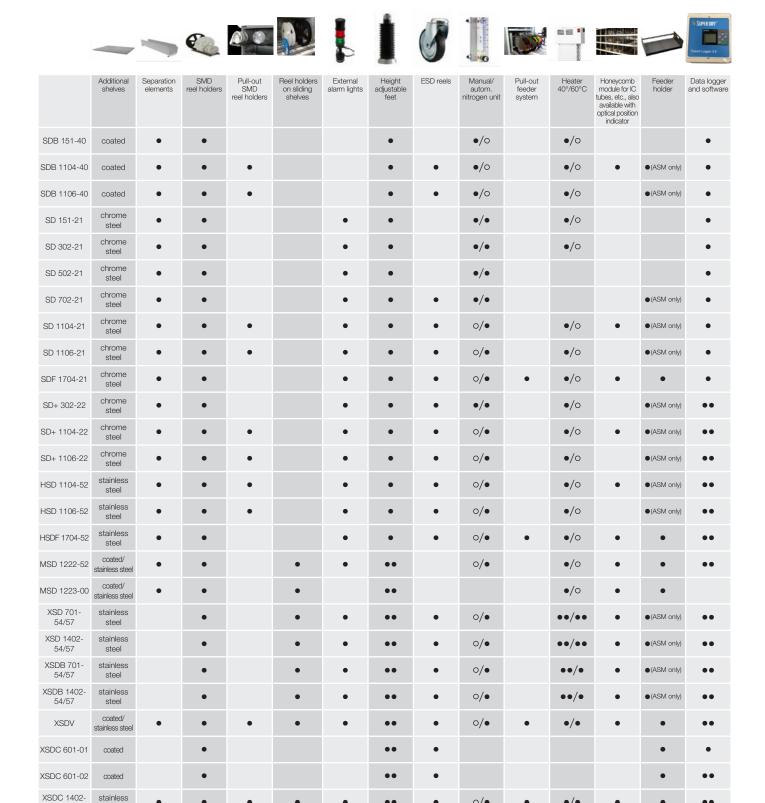
Active heating by means of integrated heater, up to 60 °C (optional)



Documentation:

OPTIONAL EQUIPMENT AND ACCESSORIES

Options that make all the difference



0/•

•/•

••/••

●(ASM only)

••

54/57

XSDR

steel

optional

[•] standard

o not available

REFERENCE TABLE

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.

	MSL level	Drying at 1% RH (HSD, MSD & XSD-Series)			Drying at 2% RH (SDB, SD, SD+ & ESDA Serie)		**Drying at 5% RH (N²-Cabinets)	
		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
Body thickness ≤ 1,4 mm	2	3 days	36 hours	10 hours	8 days	3 days	8 days	17 hours
	2a	4 days	2 days	12 hours	9 days	4 days	9 days	23 hours
	*3	8 days	3 days	18 hours	12 days	5 days	13 days	33 hours
	4	9 days	4 days	24 hours	15 days	6 days	15 days	37 hours
	5	10 days	5 days	30 hours	17 days	7 days	17 days	41 hours
	5a	10 days	6 days	36 hours	22 days	9 days	22 days	54 hours
Body thickness ≤ 2,0 mm	2	18 days	8 days	2 days	25 days	10 days	25 days	63 hours
	2a	22 days	10 days	2 days	30 days	15 days	29 days	3 days
	3	23 days	11 days	2 days	35 days	16 days	37 days	4 days
	4	28 days	14 days	3 days	40 days	17 days	47 days	5 days
	5	35 days	16 days	4 days	50 days	24 days	57 days	6 days
	5a	56 days	18 days	4 days	67 days	27 days	79 days	8 days
Body thickness	2	67 days	20 days	5 days	80 days	30 days	79 days	10 days
> 2,0 mm ≤ 4,5 mm	2a	67 days	22 days	5 days	80 days	30 days	79 days	10 days
	3	67 days	22 days	5 days	80 days	31 days	79 days	10 days
	4	67 days	22 days	5 days	80 days	31 days	79 days	10 days
	5	67 days	22 days	5 days	80 days	31 days	79 days	10 days
	5a	67 days	22 days	5 days	80 days	31 days	79 days	10 days

^{*} according 100TQFP-Test (Semiconductor Device (100TQFP) Dehumidifying Property)

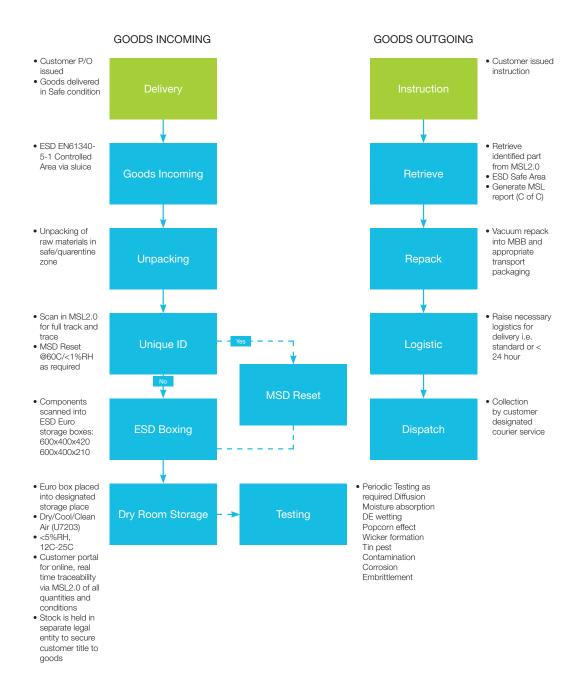
^{**} according to IPC J-STD-033C

STORAGESTORAGE AS A SERVICE



Storage as a Service` by Super-Dry Totech completes our offering for MSD and Long-Term Storage solutions. For those companies that do not wish to make the investment in capital equipment, or maybe looking for a flexible and scale-able off-site warehousing solution, this is the alternative value-added service. As we see, there is a growing trend in the electronics industry that component lead-times are increasing, whilst reducing development cycles make it increasingly necessary to hold extra stocks on the operational side. Warranty management, and last time buys are other reasons why we see growing requirements for specialised storage services. We fill that space. Our new facility in Zwolle, Netherlands, houses a safe, secure quarantined area, that is compliant to international standards for MSD and LTS component storage. We use our patented technologies for temperature and humidity control with transparent and fully traceable management logging so that customers can access online information to verify the status of their stocks in real-time. We also provide a full range of interim testing regimes as necessary. Full technical details are available at your request. Please contact us to explore the possibilities of off-site, flexible, `Storage as a Service`.

PROCESS MAP SUPERDRY-TOTECH MSL AND LONG TERM STORAGE





SOFTWARE USER FRIENDLY DOCUMENTATION



TOTECH VIEWER

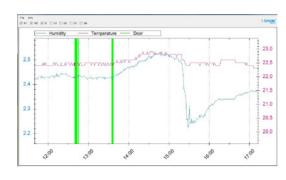
Standard cabinet monitoring with integrated logger (standard for SD+, MSD, HSD, XSDB, XSDV)

FUNCTIONS:

- Writing of climate data, door openings and alarms to SD card
- Transfer of data through Ethernet to PC
- User-friendly display of all relevant data
- Data processing in MS Excel

BENEFITS:

- Seamless documentation
- Excellent process safety



TOTECH MONITOR

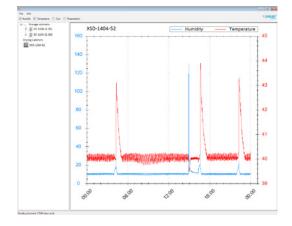
Real-time cabinet monitoring with alarm function (optional)

FUNCTIONS:

- Online monitoring of humidity and temperature
- Management of data of multiple drying cabinets
- Measurements displayed on PC in table or chart format
- Automatic device identification
- Real-time alarm messages via e-mail and/ or SMS

BENEFITS:

- Seamless documentation
- Excellent process safety
- Tamper-proof
- Fast response thanks to real-time monitoring



MSL 2.0

Reliable cabinet and component monitoring (optional)

CABINET MONITORING:

- Online monitoring of humidity and temperature
- Management of data of multiple drying cabinets
- Measurements displayed on PC in table or chart format
- Automatic device identification

COMPONENT MONITORING:

- Recording of all loading and unloading processes
- Dynamic calculation of remaining floor life time
- Documentation of drying process
- Lockout function upon expiry of floor life time

COMPONENT LOGISTICS:

- Continuous localisation of all components
- Traceability of all stock movements
- Information and evaluations about unused material



All data from all cabinets available at a glance



Dynamic calculation of remaining floor life time



Stock reports available at a push of a button

DRY TOWER

VOLUME & PROCESS OPTIMIZED COMPONENT STORAGE



BENEFITS:

REDUCED PERSONNEL TIME

VOLUME OPTIMISED STORAGE

SHORT SETUP TIME

HIGH DEGREE OF AUTOMATION

PERFECT DOCUMENTATION







DRAWER CABINETS

Our Dry Towers consist of up to four cabinets equipped with the maximum number of drawers. A chaotic placing strategy guarantees volume optimised storage.

BENEFITS

- Stores up to 43,000 reels per m²
- Optimised utilisation of height, depth and width
- Fast access to all components
- Volume optimised storage
- Extendable by combining any number of storage modules

5-AXIS GRIPPER SYSTEM

The automated gripper system moving along 5 axes uses vacuum to transport component reels and trays safely and quickly. The gripper system can pick up loads of up to 3 kg.

BENEFITS

- Short access times
- Safe and efficient component transport
- Suitable for reels, trays and closed packagings

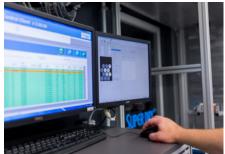
CONVEYOR TECHNOLOGY

The Dry Tower can be equipped with custom-engineered conveyor technology for batch processing of reels and boxes, catering for decentralised loading/unloading as well as line supply. Our system allows for maximum flexibility in your component logistics, as each batch is automatically transferred by roller and belt conveyors, lifts or autonomous transport systems to the best available position.

BENEFITS

- Minimum personnel time
- Just-in-time line processing
- Decoupling of loading and retrieval processes







CLIMATE CONTROL

Our U-7000 series drying unit guarantees controlled humidity values <5% RH. When components sensitive to moisture are brought into the unit, the processing time is automatically stopped, reducing the risk of damage from oxidation. Using a 40°C heater, MSL components can be dried gently at the right temperature.

BENEFITS

- Permanent re-drying of components according to JEDEC standard
- Fast re-drying thanks to minimum relative air humidity
- Optional heating (up to 40°C) accelerates drying process

SOFTWARE

The standard interface allows for the integration of the Dry Tower into your existing MES system. Important storage data and parameters such as humidity, temperature and operator intervention are documented for subsequent evaluation. Our integrated commissioning function allows for efficient retrieval in the desired sequence and with regard to FIFO.

BENEFITS

- Reliable monitoring and documentation of moisture sensitivity levels as well as drying, stopping and processing times according to JEDEC standard
- Automatic commissioning function
- Standard interface for integration into existing systems
- Seamless logging along entire logistics chain
- Unrivalled versatility thanks to freely configurable storage strategies

WE ASSIST YOU ALL THE WAY – FROM PLANNING TO IMPLEMENTATION.

SDV SERIES PERFECT PACKAGING



ESD safe packaging for long-term storage

SDV 46 FEATURES:

- Deep-drawn stainless steel vacuum chamber
- Antistatic acrylic glass cover
- Double seam welding
- High-pressure sealing systems
- Inserts for level adjustment
- Z-3000 sensor control
- 99 Program memory slots
- Service function
- Key lock, fast-stop and step vacuum functions

- Shipped with initial equipment
- Quality Busch vacuum pump
- Cordless sealing systems

OPTIONS:

- Nitrogen gas unit
- Additional sealing systems
- Trolley frame with bag tray
- Etc.

SDV SERIES



	SDV 46
Int. dimensions	650 x 210 x 475 mm
Seal length	450 mm
Vacuum pump	21m^3/h
Weight	105 kg
Digital control	Z-3000 (sensor-controlled)





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 1x106 Ohm, 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.

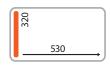






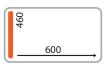


	SDV 26	SDV 36 basic	SDV 36	SDV 46 basic	
Int. dimensions	580 x 125 x 350 mm	450 x 210 x 460 mm	450 x 210 x 460 mm	650 x 210 x 475 mm	
Seal length	310 mm	410 mm	410 mm	450 mm	
Vacuum pump	10m^3/h	16m^3/h	16m^3/h	16m^3/h	
Weight	60 kg	69 kg	70 kg	102 kg	
Digital control	Z-2000 (timer-controlled)	Z-2000 (timer-controlled)	Z-3000 (sensor-controlled)	Z-3000 (sensor-controlled)	









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