SMD Tower

Component storage just got intelligent.

MYDATA®

Increase the power of your production.

In today's SMD production environment, time is money. So rather than spending valuable time looking for components stored in different locations or returning material to stock, the MYDATA SMD Tower provides more intelligent and automatic access to component reels and trays. This is how the MYDATA SMD Tower can have an immediate positive impact on your productivity.

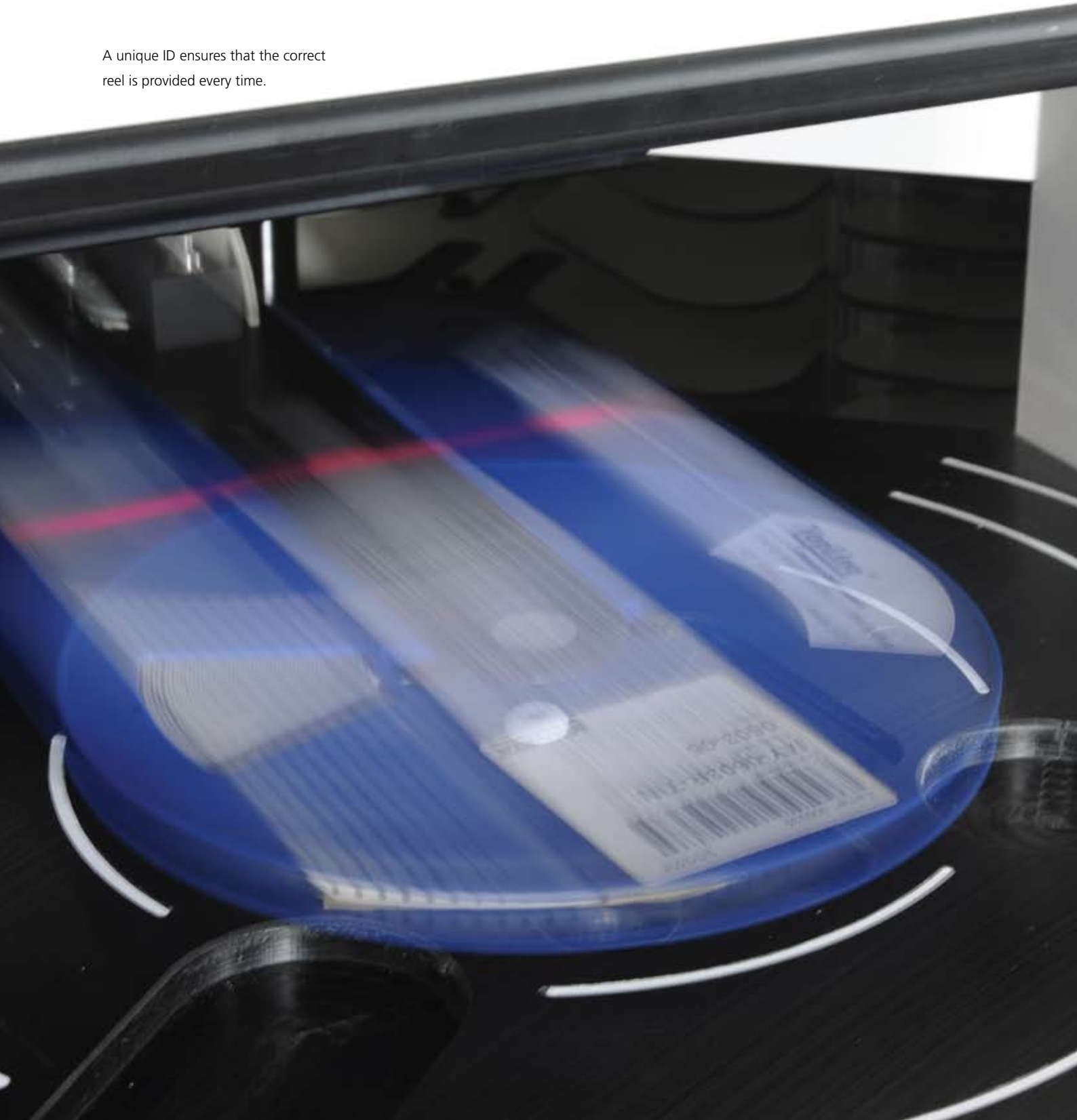
The MYDATA SMD Tower boosts production efficiency with:

- Fast storage and retrieval of components.
- Automated recording of all stock movements.
- No mix-ups of components in stock.
- Controlled environment and floor life monitoring for MSD components.
- Flexible, compact, high-capacity storage space next to production lines.

Compare this to manual processes that practically 'pre-program' mix-ups, and inflexible storage management systems that make integration into your ERP system or production equipment difficult.

The MYDATA SMD Tower can be used with any pick and place machine brand and enables space-saving, fast and error-free storage of components.

A unique ID ensures that the correct reel is provided every time.



Safely store and retrieve any component.

Offering the correct component in the right place and in a controlled atmosphere, ready for a quick and simple set-up in your SMD line, the MYDATA SMD Tower greatly enhances production efficiencies. This highly flexible and expandable buffer storage unit holds up to 546 different SMD reels or up to 294 trays, and can dispense any one you request in just a few seconds.

Retrieval times can be reduced even more when storage capacity is multiplied by combining several Tower units that work in parallel. The Tower may also be equipped with an optional adsorption unit that feeds in dry air to produce a controlled storage atmosphere with a relative humidity of less than 5%. This allows you to store components sensitive to humidity (MSDs) as per IPC/JEDEC standard 033B. In addition, air temperature and humidity are recorded and provided as 'traceability data'. MSD utilization duration can be monitored as well.

Convenient and incredibly quick.

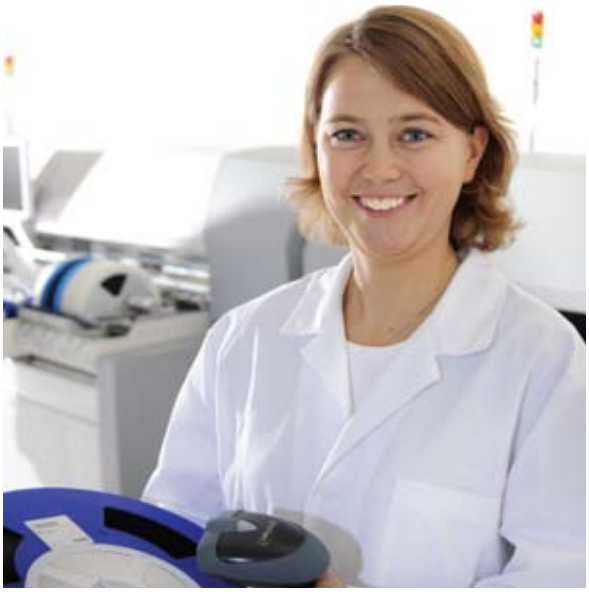
Whether you request a single reel or tray, automatically process a kitting list or entire assembly program, the SMD Tower's database records every movement and keeps track of all stored reels and component quantities. Using a unique identification code ensures that the correct component is always provided or stored. Set-up errors due to mix-ups are virtually impossible.

Simply place the reel you've chosen to store in the terminal and press the 'Start' button. The integrated barcode scanner automatically identifies the reel and transfers the component information to the PC. The database software immediately places the reel in its assigned location. Within seconds, the SMD Tower is ready to accept the next reel.

Retrieval is just as easy. Simply enter a part number, choose a kitting list or select a assembly program. The items are then retrieved sequentially and booked out.

Fast and convenient handling of reels and trays.

Tray box for up to 3 JEDEC trays.



The unique ID used for assigning components to feeders.

Compact and flexible.

By making the most of a compact circular design – built around a central triple axis pick-up – the SMD Tower enables fast and error-free storage of reeled components and trays in just one square meter of floor space.

The SMD Tower can be equipped to store reels between 8 mm and 44 mm thick – with a diameter of between 180 mm (7") and 330 mm (13") – in any combination permitted by the total given height of the system. If you choose, trays can be stored in place of reels – or in mixed storage configurations with reels. The choice is yours.

Increase up-time and minimize searching for components.

To make errors is human, and expensive. Conventional, manual access storage systems carry a high risk for mix-ups. Depending on when mistakes are noticed, a great deal of damage may already have occurred. At best, time for set-ups increases and valuable production time decreases. In worst-case scenarios, entire production batches are beyond repair. In addition, searching for misplaced reels can be avoided completely. The SMD Tower makes such errors a thing of the past. After a few averted mix-ups, the investment may already have paid for itself.

Multiple ways to integrate efficiency into production.

Until now, reels had to be located and retrieved one by one, from rigid, space-consuming storage systems. By comparison, the MYDATA SMD Tower provides you with an automated and intelligent storage system. Plus, integrating proprietary storage management systems into available database structures is fast and easy with the remote order protocol.

While its primary application is as a buffer storage unit for SMD assembly, the Tower can also be used as a repair storage container in conjunction with AOI systems, as access-protected safety storage for high-value components, or as MSD storage for humidity-sensitive components.

The high degree of flexibility that allows seamless integration into your production environment further enhances the SMD Tower's quick return on investment.

Intuitive, powerful and versatile software.

The control software, with its simple, intuitive interface runs on a standard PC and communicates with the SMD Tower via the local area network. The software contained in the first unit's scope of delivery can manage an unlimited number of SMD Towers and external storage locations.

The software's client version works independently of the SMD Tower and offers access to all databases. For example, the client software can be used in the incoming goods department to record new components as well as their barcode registration. By doing so, new components will already be registered as they proceed to manufacturing and can be stored immediately.

The 'Job Scheduling Module' is an important part of the software. The module manages several order lists. These lists are arranged chronologically by production dates in the scheduling module. Colored indicators in front of the corresponding article signal whether the order can be manufactured completely, in part, or not at all.

Additional powerful functions such as retrieval to external locations, job preparation or automatic minimum stock monitoring also help you avoid unwanted production stoppages.

Traceability.

Comprehensive concepts for backtracking through individual production steps are increasingly becoming a requirement for SMD manufacturers. The SMD Tower software stores all relevant information in the database, such as stock movements, temperature and relative air humidity, SMD utilization duration, and all user activities. All traceability data are also available as export files.

Barcode Label Designer.

The software comprises a label designer module to generate unique barcodes. Depending on label size, all data may be represented as barcode or as plain text. A carrier barcode generator automatically provides a consecutive ID code.

Communication with SMD Production Machines.

The SMD Tower Software has two modes of operation – Standard mode and MYLabel mode.

The standard mode offers full functionality for any production environment. In addition, the software is designed to allow easy integration to exchange data with SMD production machines. The software can then serve as a set-up station and allows the user to assign articles to intelligent feeders via barcode ID. Data is then transferred to the production machine.

In MYLabel mode, set-up support, feeder assignment, job planning and much more are managed by MYLabel and MYPlan software. When using the MYLabel mode, some functions in the SMD Tower Software are simply de-activated in order to offer extended functionality and seamless integration.

THE FOLLOWING DATA IS MANAGED WITH THE REMOTE ORDER PROTOCOL

Article Name and Comments	Fifo
Identification (Barcode Carrier)	Lead-Free
Storage Location	Design
Manufacturer	MSD / MSL
Packaging (Reel, Tray, etc.)	Reference
Total / Minimum stock	User-Defined Fields

The MYLabel connection enables a tight integration with MYDATA softwares.

Registration of new reels can be made at the incoming goods department with the client software.

SWEDEN
MYDATA automation AB
Adolfsbergsvägen 11
PO Box 20155
161 02 Bromma
Sweden
Tel: +46 8 475 55 00
Fax: +46 8 475 55 01

JAPAN
MYDATA automation K.K.
Sumitomo Rokko Building 1st floor
1-4-1, Shinkawa, Chuo-ku
Tokyo 104-0033
Japan
Tel: +81 3 3553 5053
Fax: +81 3 3553 5051

CHINA
MYDATA automation, Shanghai
Block 4, No. 700 Gui Ping Road,
Cao He Jing Hi-Tech Park,
Shanghai 200233, China
Tel: +86 21 6485 5389
Fax: +86 21 6485 7208

MYDATA automation, Dongguan
Shop 206, Dong Bao House,
Yee Hong Road, Yee On Industrial City,
Yan Tian, Feng Gang Town, Dongguan,
Guangdong, China
Tel: +86 769 8756 7313
Fax: +86 769 8756 8152

SINGAPORE
MYDATA Asia Pte Ltd.
Asiawide Industrial Building
5 Pereira Road, #01-01
Singapore 368 025
Tel: +65 6281 7997
Fax: +65 6281 7667

USA
MYDATA automation, Inc.
320 Newburyport Turnpike
Rowley MA 01969-2002
USA
Tel: +1 978 948 6919
Fax: +1 978 948 6915

UK
MYDATA automation Ltd.
Unit 2, Concept Park
Innovation Close
Poole, Dorset, BH12 4QT
England
Tel: +44 1202 723 585
Fax: +44 1202 723 269

BENELUX
MYDATA automation B.V.
Eindhoven Airport
Flightforum 880
5657 DV, Netherlands
Tel: +31 402 62 06 67
Fax: +31 402 62 06 68

FRANCE
MYDATA automation S.A.
13 Rue de Norvège BP122
91944 Courtaboeuf Cedex
France
Tel: +33 1 69 59 24 34
Fax: +33 1 69 28 71 00

GERMANY
MYDATA Royonic GmbH
Wächterhofstraße 50
85635 Höhenkirchen
Germany
Tel: +49 8102 749090
Fax: +49 8102 749098

MYDATA®

www.mydata.com
info@mydata.se

P-001-0207/March 2009