Smart Feeders. The latest in intelligent component handling.
As today’s variety of SMT components grows, so does the need for smarter, more flexible feeder solutions. Agilis tape and stick feeders and tray handling systems are designed to meet this demand. While the word “intelligent” has become something of a buzzword today, we at MYDATA call our feeders intelligent as they provide quantity and location tracking, operator guidance, simplified data entry, moisture sensitive device (MSD) handling and on-the-fly changeovers. In short, our feeders are designed to make our customers’ work more efficient and therefore more productive.

Handle any component
MYDATA’s modular feeder system ensures both unrivalled flexibility and ease of use. Choose from a combination of intelligent feeders and magazines covering tape, stick and tray carriers, all of which are designed to handle the full range of today’s SMT components. Mix, switch and reload components as production needs change, and the system will instantly re-optimize to maintain the highest possible efficiency at all times.

Enjoy the industry’s fastest and most helpful feeder
The standard Agilis tape feeder can be loaded in less than ten seconds. Ultra-compact and comprising no moving parts, Agilis is a durable, reliable feeder solution that is both fast and easy to use. Plug-and-play simplicity means you can load and unload feeders in seconds, saving countless hours of operator time.

Specially designed software automatically recognizes the presence, absence and location of components, which means you never have to program pick positions and production doesn’t stop if a feeders runs out of parts. Instead, the machine alerts the operator, re-optimizes and continues mounting other components. You can also replenish feeders quickly and easily while the machine is mounting.

Whatever your production size, barcode scanning eliminates manual entry of feeding parameters during loading and unloading, making setups and changeovers faster than ever.

Keep track of component data at all times
From component storage and retrieval to loading and optimization, components are automatically traced every step of the way. As all magazines and Agilis feeders are given a unique ID, the operator can check quantity, location, MSD data and batch codes at any point during production.

Regardless of whether you request a single feeder or tray, or automatically process a complete kitting list, the system records every movement and seamlessly keeps track of all stored reels and component quantities.

Award-winning intelligent feeder systems

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MYDATA feeder systems provide the most intelligent and agile component delivery solution on the market. Whether it’s tape, stick or matrix tray feeders, or components of any shape and size, MYDATA’s feeders are designed to deliver the utmost in reliability, performance and easy operation.

Advantages of intelligent feeder systems
- Fast and accurate setups and changeovers
- Rapid loading and unloading of feeders
- Simplifies data entry with barcodes and electronic ID
- Provides full component data and inventory tracking
- Feeders can be removed and replenished on-the-fly
- Magazines allow multiple feeder changes at one time
- No pick position programming is needed
Agilis™ – the groundbreaking concept continues

The award-winning Agilis feeder system’s unique flexibility allows you to mix and match single feeders, or replace all your feeders at once – depending on how you want to work. Now, using the new Agilis Flex feeder, you can confidently switch between components of virtually any size and pocket depth. Whichever feeders you choose, you can count on intelligent functions that consistently ensure quality and enhance productivity.

Tape feeders
A revolution in feeder design, Agilis tape feeders significantly reduce changeover and setup times. With or without take-up reels, they are extremely fast to load and unload, and can handle an almost endless variety of tape components. Preloaded Agilis feeders can even be stored along with tape reels, ready for instant use in the next job. Automatic location detection means that feeders can be placed anywhere in the machine, giving you true plug-and-play functionality, even during operation.

For fast handling and traceability, unique barcodes identify specific component reels and connect them to a particular feeder. The machine automatically detects the location of each reel based on the feeder’s unique identity. This allows you to rearrange the feeders into any position in the machine, even during operation. Fine-tuning in both the x- and y-axes is done automatically through pick offset data registered by the vision system. The magazine has a linear motion mechanism, which ensures smoother, faster and more controlled acceleration and deceleration.

The Agilis feeder system is designed to handle practically all tape and stick components. The simplicity of its design means you can now load and unload feeders in a flash and save countless hours of operator time.

Agilis tape feeder system. Agilis Flex (left) and the ultra compact Agilis tape feeders (right).
Fast, compact Agilis tape feeders
The compact 8, 12 and 16 mm Agilis tape feeders are extremely fast to load and unload. An innovative cover-tape separator on the pen-sized feeder exposes components for easy picking, which also makes it easier to handle short tape clips. Agilis tape feeders are ultra-compact, lightweight and constructed with no moving parts, making them extra durable and practically maintenance-free. To give you full production flexibility, the feeders can be mixed freely in the magazine. The Agilis LM8 magazine holds up to 16 feeders for 8 mm tapes, while the Agilis LM1216 magazine takes up to eight feeders for 12 or 16 mm tapes.

Agilis Flex – handle any component on tape
The Agilis Flex feeder represents an evolution of the Agilis concept, this time in a wider, more flexible format. As intelligent as the compact Agilis tape feeder and the ability to interchange with any feeder position, Agilis Flex now offers you the possibility to handle any tape component, from 8 to 152 mm in width, with pocket depths that accommodate even the thickest, tallest components. Whatever tape components arrive on your production floor, rest assured: Agilis Flex is built to handle them.

Time savings per month when using Agilis compared to standard feeders

<table>
<thead>
<tr>
<th>No. of feeders loaded or unloaded per day</th>
<th>50 sec time saving per feeder</th>
<th>60 sec time saving per feeder</th>
<th>45 sec time saving per feeder</th>
<th>30 sec time saving per feeder</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>50 hrs</td>
<td>33 hrs</td>
<td>25 hrs</td>
<td>16 hrs</td>
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<tr>
<td>200</td>
<td>100 hrs</td>
<td>66 hrs</td>
<td>50 hrs</td>
<td>33 hrs</td>
</tr>
<tr>
<td>500</td>
<td>250 hrs</td>
<td>166 hrs</td>
<td>125 hrs</td>
<td>83 hrs</td>
</tr>
<tr>
<td>1000</td>
<td>500 hrs</td>
<td>333 hrs</td>
<td>250 hrs</td>
<td>166 hrs</td>
</tr>
</tbody>
</table>

Stick Feeders
Capable of handling a wide range of components in a single magazine, MYDATA stick feeders provide high-mix SMT manufacturers with tremendous flexibility. Setups and changeovers can be accomplished quickly and easily, thus eliminating bottlenecks when switching from one type of job to another. At the end of the day, this means significantly higher productivity.

Increased throughput with ASM
The Agilis Stick Magazine, ASM, utilizes a high-precision, short-stroke linear drive with a servo-controlled, horizontal motion to effectively reduce operator assistance and component waste. Because the ASM handles a very wide range of SMT components – from the smallest TSSOP to large PLCCs and high connectors – you will always be prepared for any job. Removable stick pallets with a built-in pallet ID and barcode system allow you to replenish and pre-load pallets, as well as prepare data before pallets are loaded into the magazine. Feeding is automatically calculated based on component data entered prior to loading. Pick-up positions are automatically localized and trimmed as well, thus eliminating the setup and changeover time associated with other stick feeders. With ASM, you can simply plug in and go.
Tray solutions for any volume

When it comes to components on matrix trays, MYDATA offers optimized solutions for any production volume. Whether small, average or large, all are highly cost-efficient. We also offer smart functions for component management and replenishment to further boost your productivity.

TEX – Sophisticated tray management for large volumes

With its 32 JEDEC matrix tray capacity, dual-track design and series of intelligent functions, the Tray Exchanger (TEX) is the ideal solution for matrix tray management. The dual-track design allows the MYDATA placement machine to pick from one track while the other is being changed. An empty-tray warning function and a built-in barcode system enable tray recognition. This eliminates additional programming when trays are replenished. To protect delicate components, tray accelerations are also controllable. If your production needs change, you can easily remove the TEX and retrofit it into any position in the machine. And, since the TEX uses only two magazine positions, it is possible to have several TEXs on one machine. To utilize the dual-track functionality, the TEX can be equipped with two cassettes with narrow tray pallets. However, for handling of larger trays, it is also available with a wide pallet cassette.

TWM – For average tray volumes

The Tray Wagon Magazine (TWM) provides matrix tray capability for use when limited quantities of trays are required. The magazine is fitted within the machine’s ordinary magazine slot in the same manner as with tape and stick magazines. The matrix trays are placed on a servo-controlled tray table that positions the components on the tray in the pick-up position. The tray table is interchangeable with the other available sizes – from the smaller single “module” (occupies one magazine slot in the machine) up to the largest (occupies three magazine slots).

Flexible Tray Holder – For small tray volumes

The Flexible Tray Holder is an effective unit for handling single-matrix trays. Four magnetic corner holders and four under-tray supports can affix trays of any size. There are no adjustments to be made and no tools required. Simply position a tray with the holders, teach the machine software its location and start mounting.

Tray Wagon Magazine has a capacity of up to 7 JEDEC trays.
Flexible Tray Holder is an effective unit for small tray volumes.
Get the most out of your machine

Even with the industry’s most agile feeder systems, there are times when standard solutions won’t suffice. Should you have special feeder requirements, we can help build a solution to fit your application. From magazine and stick positioners to a specially designed range of accessories, we do everything we can to help you get more out of your feeders and equipment.

Agilis Bins
Increase your flexibility and efficiency by keeping pre-loaded feeders on hand, in additional Agilis bins. The bins are available in two versions: 7” reels and 13” reels (each holds 8 reels).

Large-reel attachment
The optional large-reel attachment extends your feeding capability up to 24” tape reels, for tape widths ranging from 8 mm to 152 mm. Available for Agilis and Agilis Flex.

Stick positioning
A variety of positioners are available to suit standard and non-standard components. A positioner affixes a stick in the stick magazine and positions the component in the non-standard components. A positioner affixes a stick in the stick magazine and positions the component in the

Tape Clip Magazine
Minimum production costs by using the Tape Clip Magazine to handle short tape clips. With its width adjustment capability, different combinations of tape sizes can be fitted alongside each other in the magazine. The Tape Clip Magazine is available in two sizes, with a maximum capacity of 5 and 11 pieces of 8 mm tape, respectively.

Generic Feeder Interface
The Generic Feeder Interface (GFI) is just one example of the many special applications as well as third-party feeders from the magazine slot in a MYDATA machine. More information about this possibility is available upon request.

A wide range of snap-in stick positioners available.

Handle short tape clips with the Tape Clip Magazine.

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