

MB&D

Leading Through Innovation



www.mbd-inc.com



Setting the Standard

Worldwide Leader in Biscuit Processing and Packaging Equipment



CUSTOMER - CENTRIC BY DESIGN

We are a firm believer that all of the business phases in the development of our products affect the customer experience. For this reason, our service strategy is specifically designed to add value to the customer experience and increase customer satisfaction. We quickly react to our customer requests and provide an outstanding service, incorporating the customer into the design process, and exceeding the customer expectations at every interaction.

- MB&D's customer retention is the highest in the market.
- The experience that we create is the dominant factor in customer satisfaction and profitability.
- We are proud to make service a dominant factor in our business proposition.

WHO ARE WE?

MB&D is the snack-food industry leader in providing quality, value added biscuit processing and packaging equipment. As a privately held company, we remain firmly focused on long-term success by effectively delivering real and long-term value to our customers.



WE VALUE OUR CUSTOMERS

COMPANY FACTS AND HISTORY

EST. 1974

THE BEGINNING

Founded by Bud Mims and continues to be family owned and led by his son, Darryl Mims. With over 40 years of experience in the Snack Food market, our company excels in providing highly engineered, turn-key solutions for diverse customer needs.

PRESENCE

OUR PRESENCE IN THE WORLD

The proven simplicity and performance of our products have allowed us to be the industry leader with over 500 machines operating in 50+ countries.

SOLUTIONS

WHAT WE OFFER

Complete solutions for In-line Depositing, Sandwiching and Packaging Equipment. We provide products with state-of-the-art designs, small footprint compared to stencil machines, and being one of the only suppliers in the market with the capability to produce up to two-meter wide machines.

INNOVATION

WE SET THE STANDARD

We are technology driven, built on innovation, integrity, and teamwork. Inventors in the original design and execution of high speed rotary indexing, controlled flipping, precise depositing and sandwiching techniques.
Simple Solutions Give Sweet Results!





WE BUILD MACHINES THAT WORK FOR YOU

BENEFITS - WHY MB&D



TURN KEY SOLUTIONS

We are proud to be a one-stop supplier, providing both in-house engineering and manufacturing all under one roof from our headquarters facility located just outside of Charlotte, North Carolina. This translates to quick turnaround times and excellent quality support.



BUILT WITH QUALITY, BUILT TO LAST

Our equipment is built to last. Our first machine, built in 1974, is currently still running production. We are the longterm industry solution. Our machines are robust and capable of handling all types of environments, while keeping service and preventive maintenance simple for our customers.



CONTROL SIMPLICITY

Our products are designed and manufactured to be simple to operate by our customer while keeping all of our sophisticated features and functionality available by selecting different configurations on the HMI. **Control is one touch away!**



EXPERIENCE ACROSS THE WORLD

44+ years of experience initiating solutions in the areas of biscuit handling, depositing, capping, and packaging systems. With over 500 installations in 50+ countries, we work on a global scale with agents strategically located around the world in order to meet our customer needs.



SANITARY AND SAFE

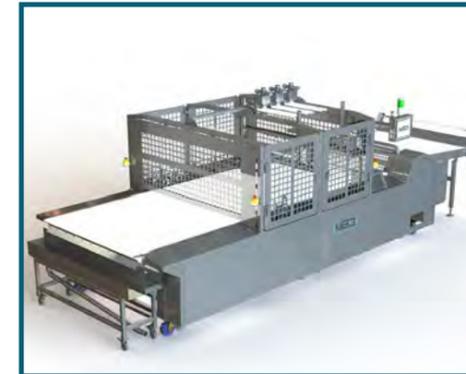
We use clean design techniques that allow timely and effective sanitation through easy and safe removal of parts. Sanitary design is about food safety, quality, and operational efficiency! We encompass all these principles within our equipment to provide added value and competitive advantage. Our sanitary design meets or exceeds industry accepted hygienic standards.



OUR RECIPE IS FLEXIBILITY

Our base systems are designed with the concept of running multiple items through the use of change part packages which can be easily implemented and customized via a change part profile. Change parts consists of rotary indexing devices, deposit manifolds, and capping station parts that can be installed in less than 15 minutes. **Countless possibilities!**

OUR PRODUCTS



THE COOKIE CAPPER

"The Cookie Capper" is our flagship machine for providing a turnkey and highly flexible sandwiching solution to our customers worldwide.



THE TRAY PACKER

The Traypacker takes products at full oven capacity, collates by number into slugs, and inserts them into a tray which is positioned precisely by the system.



THE PLACE PACKER

The Place Packer takes a full flow of product, orienting individual products, indexing, collating, and placing stacks of predetermined counts of products into a plastic or paper tray.



THE OVEN DEPOSITOR

The Oven depositor deposits directly to an oven band with speeds up to 300 deposit rows per minute.



||||| The Cookie Capper

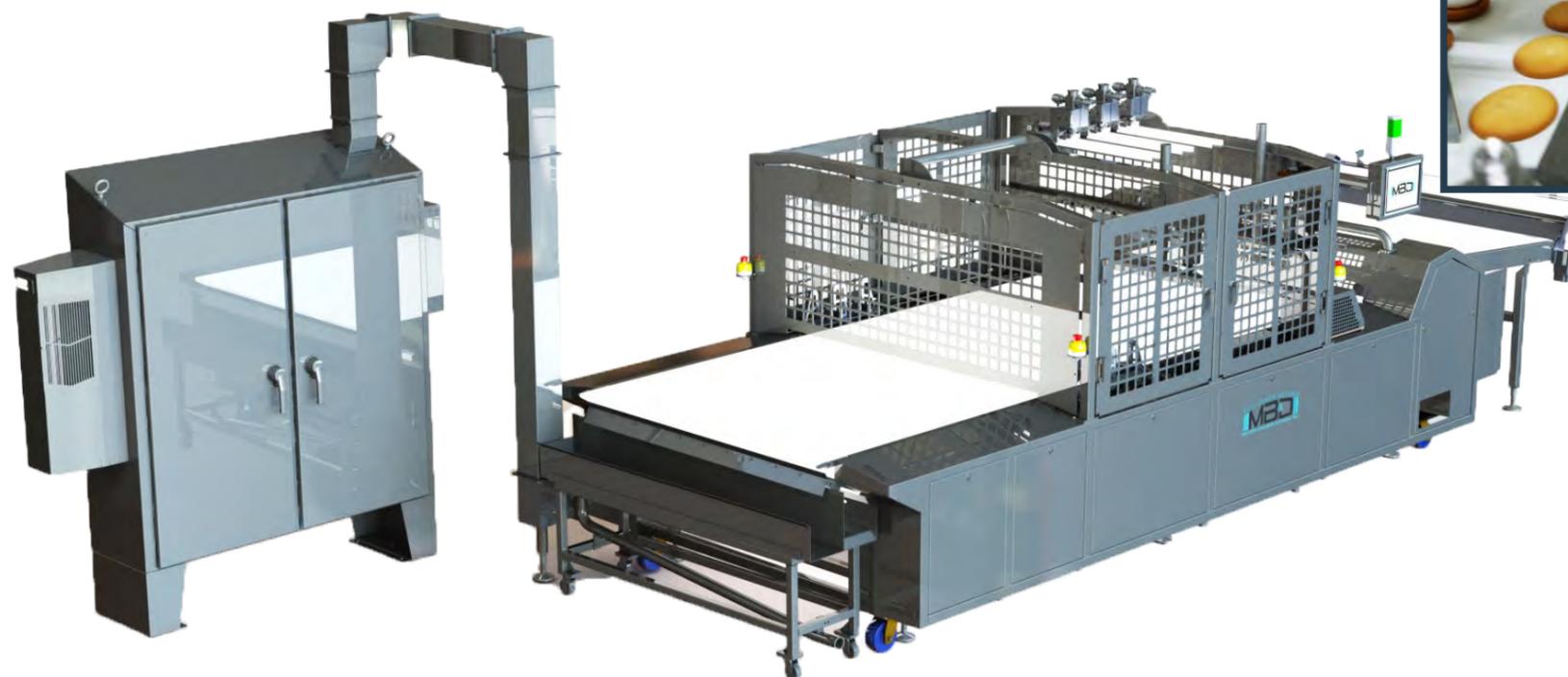
About the Capper

The Cookie Capper takes a full flow of product directly from a continuous oven band, orienting individual biscuits, indexing and flipping every other row, applying accurate amounts of filling, and then accurately positioning the tops onto the bottoms automatically at speeds up to 300 biscuit rows (150 rows of sandwiches) per minute.

We didn't invent the biscuit sandwich... We just perfected it...

The sandwiched products are then transported for enrobing, wrapping, or further processing. Our system is designed to run delicate soft cakes, wire-cut and multiple shaped rotary molded biscuits that fluctuate in size and shape because of upstream processes.

We control placement of filling and top biscuit within ± 1 mm and control filling target weights to within ± 1 %. Machine widths up to 2 meters wide (~79 inches) enable high production rates by processing many products per machine cycle.



Sandwiching Made Easy |||||



Infeed Section

A special endless conveyor belt with many features to unscramble, receive the products, place them into lanes, accumulate the products appropriately, and deliver them into Rotodex 1 for synchronization.



Flip Section

The most versatile and efficient method in the market for flipping every other row to provide alternate rows of tops and bottoms. Our innovative design provides speeds to 300 rows per minute.



Deposit Section

Deposit of the crème, jam, chocolate, caramel, marshmallow, or other similar fillings is accomplished with the deposit manifolds. Our state-of-the-art manifolds are mounted to platforms for easy removal and cleaning including No Product - No Deposit.



Capping Section

Station where the sandwiching takes place. The top biscuit comes to its final registration at Gate 3. The Vacuum Jet picks up the top clearing the deposited biscuit. The Vacuum Jet places the top biscuit onto the bottom to create a precise sandwich.

Capper Features

- ▲ Quick Changeover and Versatility
- ▲ Simple Process w/ Sanitary Design
- ▲ Linear Capping Design
- ▲ Servo Driven Technology
- ▲ HMI Controls
- ▲ Auto Product Alignment
- ▲ Auto Speed Synchronization
- ▲ Auto Belt Tracking
- ▲ Auto Belt Washing
- ▲ Central Lubrication
- ▲ Bypass Conveyor Mode
- ▲ No Product - No Deposit Options
- ▲ CIP Options
- ▲ And much more...

|||| The Tray Packer

About the Tray Packer

The Traypacker takes products at full oven capacity via supply cooling conveyors, guides them into multiple lanes, accumulates and indexes them, places them into groups (slugs) of a predetermined count, and drops them into a tray which is positioned precisely by the system. Speeds up

to 220 rows per minute are achieved with this process. Various types of biscuits can be processed including wire-cut, rotary molded, enrobed, and sandwiched items.



Loading Made Easy



Infeed Section

A special endless conveyor belt with many features to unscramble, receive the product, place it into lanes, accumulate the product appropriately and synchronize it into the Rotodex.



Collating and Dump Section

This section receives the biscuits and forms groups (slugs) by a mechanism with an insertion device which continues to move outward pushing the slug into a position ready to drop. At a programmable time, the hinges move into an open position, thereby, allowing the products as a unit to drop into the trays below.



Delivery Section

Delivery of the filled trays is presented to the downstream conveyors for further processing. The unfilled trays can be delivered to another flighted conveyor through an automatic denester.

Tray Packer Features:

- ▲ Quick Changeover and Versatility
- ▲ Simple Process w/ Sanitary Design
- ▲ Small Footprint
- ▲ Servo Driven Technology
- ▲ Auto Product Alignment
- ▲ Auto Speed Synchronization
- ▲ Exclusive Slug Collating
- ▲ Auto Belt Tracking
- ▲ Central Lubrication
- ▲ Tray Dump Cushion
- ▲ Denester Options
- ▲ Supply and Discharge Conveyor Options
- ▲ HMI Controls
- ▲ And much more...

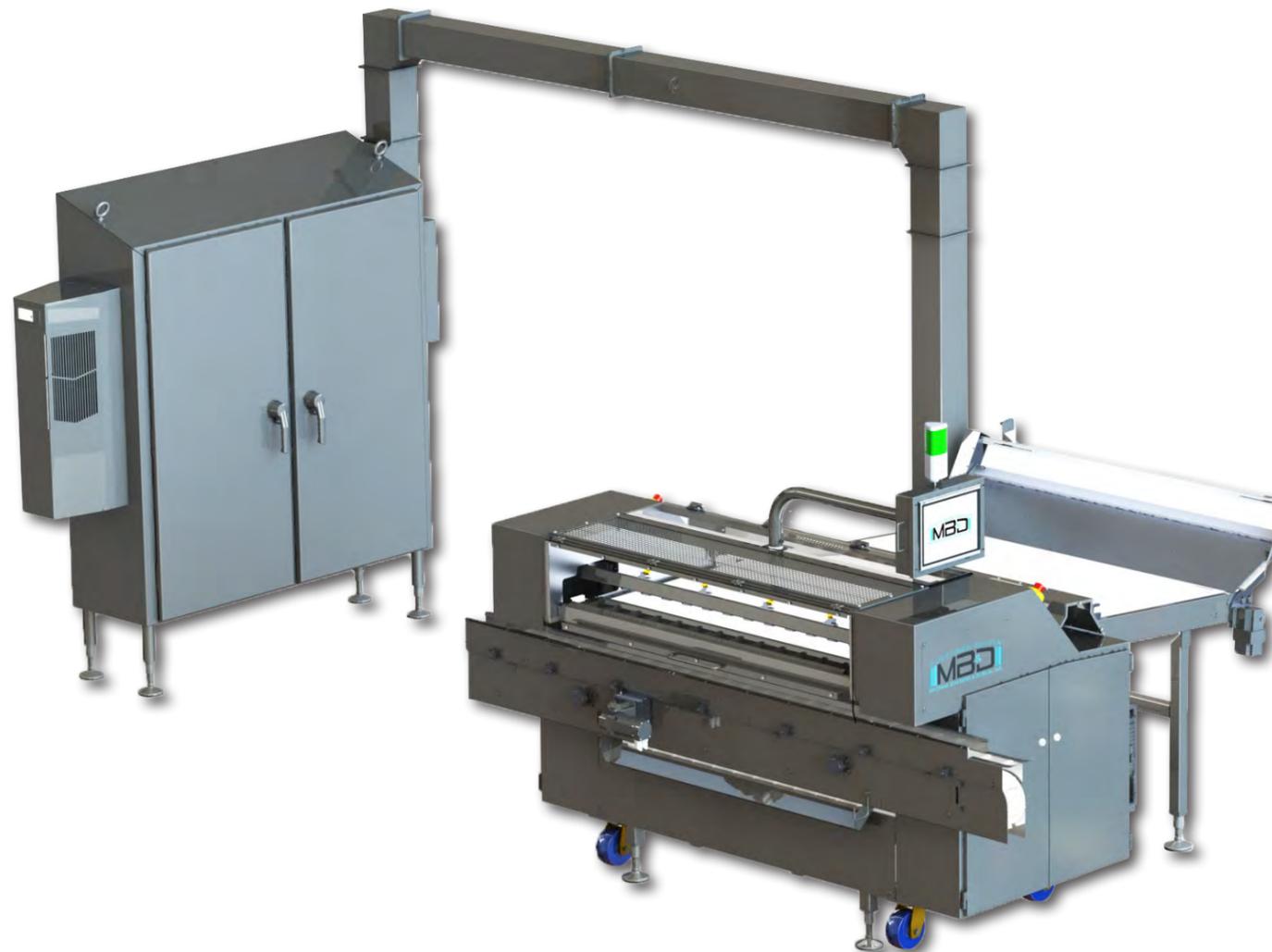
|||| The Place Packer

About the Place Packer

The Place Packer takes a full flow of product directly from a continuous cooling tunnel or supply conveyor, orienting individual products, indexing, collating and placing stacks of predetermined counts of products into a plastic or paper tray.

Various types of biscuits can be processed including wire-cut, rotary molded, enrobed, and sandwiched items, and much more.

"Stacking Done Right!"



Stacking Made Easy |||



Infeed Section

A special endless conveyor belt with many features to unscramble, receive the product, place it into lanes, accumulate the product appropriately and synchronize it into the Rotodex Indexing device to be registered and prepared for other functions in the machine.



Stacking and Collator Section

Once the biscuits leave the Rotodex they are conveyed into the Vacuum pick-up station. This station utilizes a Vacuum manifold bar to pick up the biscuits from the infeed conveyor and delivers them into the collator station. Once the proper number of biscuits are stacked, the collator bottom section hinges open to dump stacked biscuits into the trays below.



Delivery Section

Delivery of the filled trays is presented to the downstream conveyors for further processing. The unfilled trays are supplied by a denester via a supply conveyor just prior to the tray stacking section.

Place Packer Features:

- ▲ Quick Changeover and Versatility
- ▲ Simple Process w/ Sanitary Design
- ▲ Small Footprint
- ▲ Servo Driven Technology
- ▲ Auto Product Alignment
- ▲ Auto Speed Synchronization
- ▲ Exclusive Stacking Collation
- ▲ Auto Belt Tracking
- ▲ Central Lubrication
- ▲ Tray Dump Cushion
- ▲ Denester Options
- ▲ Supply and Discharge Conveyor Options
- ▲ HMI Controls
- ▲ And much more...

||||| The Oven Depositor |||||

About the Oven Depositor

The Oven Depositor deposits pumpable batter directly to an oven band with speeds up to 300 deposit rows per minute. It is also fully programmable to operate in sync with other deposits or cavities on the band by integrating with an existing rotary molder or sheeter.



Manifold Deposit Section

These depositor heads are mounted onto a traveling platform plate which are capable of hosting up to four deposit manifolds. This platform is servo controlled in order to perform multiple deposit profiles. When the deposit function is enabled, the Deposit Manifold actuator shaft will be activated, and the manifold will begin to dispense filling onto the oven band or biscuit.



FEATURES:

- ▲ Fully Servo Controlled
- ▲ Creme Mixing Option
- ▲ Capable of Multiple Deposit Heads
- ▲ Batter Distribution Piping
- ▲ CIP Options
- ▲ Filling Prep and Aeration Options

What Our Customers Think

“ MBD went the extra mile to help us make a success of the project. For me, they are not just one of the best, but the best!”

Ross Oldham
Process Development Manager
2 Sister's Group / Fox's Biscuits

“ I would recommend MBD for any of your projects as the team listens to the business needs and makes recommendations. The system provided was designed and operates as intended. The equipment that met our needs.”

David Vidovich
Tasty Baking Company / Flowers Foods
Director of Plant Operations

“ The most practical machine with a reasonable investment!”

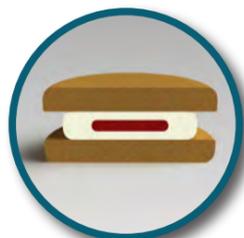
Yoo Heung Suh
President
SUH Corporation



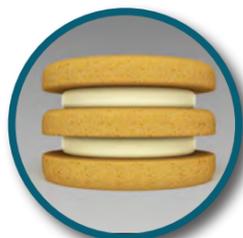
COUNTLESS POSSIBILITIES



CO-EXTRUSION DEPOSIT



CO-EXTRUSION SANDWICH



DOUBLE DECKER SANDWICH



MALLOW PUFF TARTLET



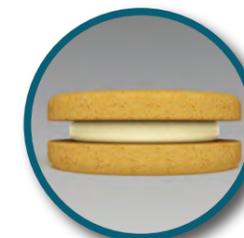
MULTI-STRIP DEPOSIT



MULTI-STRIP SANDWICH



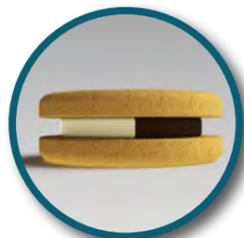
SPOT DEPOSIT



SPOT DEPOSIT SANDWICH



DUAL DEPOSIT TARTLET



HALF & HALF SANDWICH



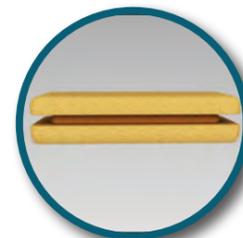
HALF & HALF DEPOSIT



JAM & CREME RING



STRIP DEPOSIT



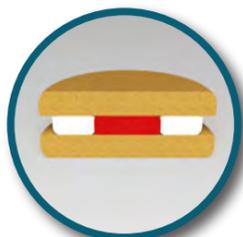
STRIP DEPOSIT SANDWICH



SWEEP DEPOSIT



TARTLET



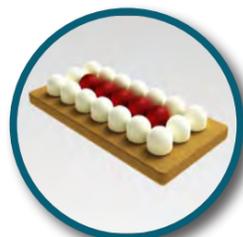
JAM & CREME SANDWICH



CAKE DEPOSITING



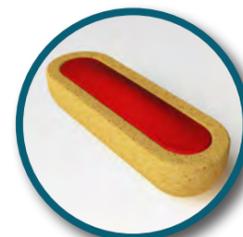
CAKE SANDWICH



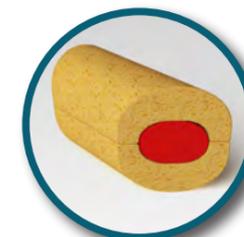
MULTI SPOT RECTANGULAR



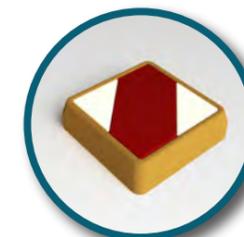
SPONGE CAKE SECTIONED



CAKE SANDWICH STRIP DEPOSIT



CAKE SANDWICH



RECTANGULAR DUAL-DEPOSIT TARTLET



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