



The Morrison Guide to Inverting

Container handling solutions to increase throughput.



Welcome

Automating the container inversion process has become essential in today's labor-challenged environment. Amid the scarcity of available workforce, manually inverting containers has proven to be both labor-intensive and time-consuming. To address this issue and optimize your packaging line, integrating automated equipment for container inversion offers an efficient and cost effective solution. By automating this process, you can significantly increase your throughput and help enhance overall efficiency.

There are multiple different ways companies can approach inverting, and which solution is best for you is dependent on a few critical factors:

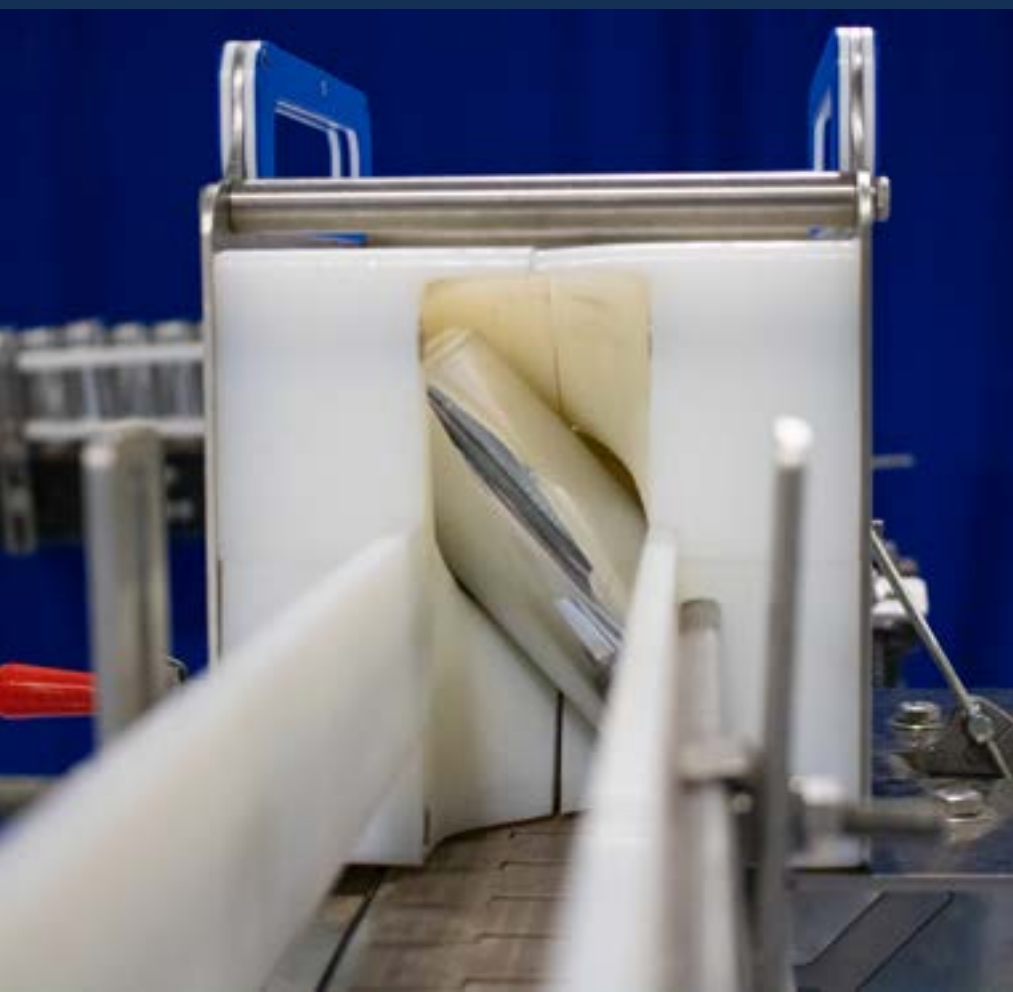
- The shape of your container
- The rigidity of your container
- Backlog present or random fed conditions
- Container environment (temperature, humidity, etc.)
- Application



Inverting is Most Often Used For:

1

**CODE
DATING**



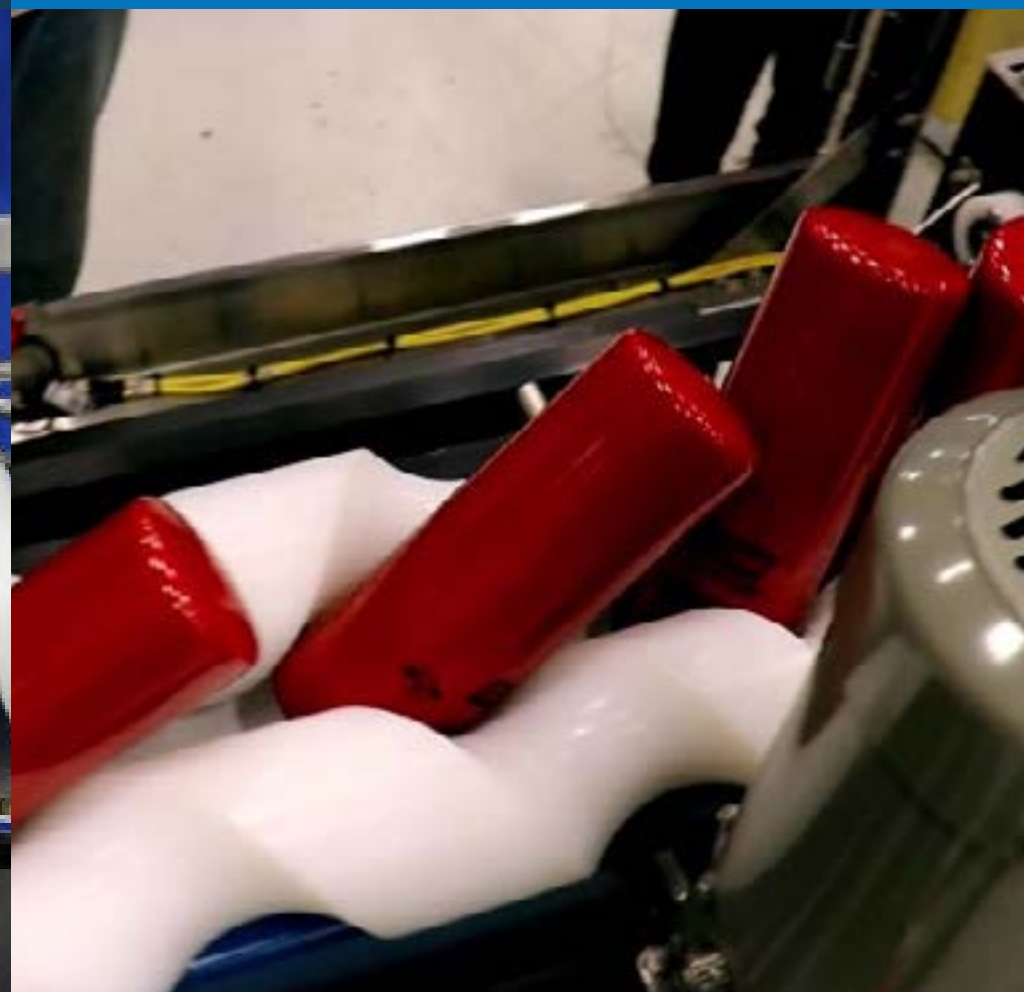
2

**SANITIZING +
RINSING**



3

**LAY DOWN,
STAND UP**



4

**MULTI +
VARIETY
PACKING**



5

STACKING



MCHS Inverting Solutions



Stainless Steel Twist

Stainless steel twists are utilized when you need complete control of your container during the inverting process. This solution provides 4 points of contact on your containers.



UHMW Twist

Best for applications where the product is sealed, UHMW twists can be changed over quickly.



Twist Block

Utilizing the backlog on your line, twist blocks are a cost effective and low footprint solution for inverting applications.

A close-up, high-angle view of industrial machinery, likely a pipe manufacturing or processing line. The machine is constructed from stainless steel and features several large, cylindrical rollers or guides. A long, thin metal rod or pipe is being processed through the machinery, extending from the foreground towards the background. The background is a solid blue color, possibly a wall or a backdrop. The overall scene is brightly lit, highlighting the metallic surfaces.

Inverting Solution

**1. STAINLESS
STEEL TWISTS**

1. Stainless Steel Power Twists

In scenarios involving the handling of challenging containers or specific applications demanding precise container control, our Stainless-Steel Twists, or 'Power Twists,' work in conjunction with our timing screws to effortlessly invert your containers. They are commonly used for food-contact applications in which the containers must be held rigidly in position. Power twists are preferred when food or consumables are in direct contact with the equipment. They are also used when you need access to the container during inversion, for tasks such as code dating or rinsing.

PRODUCT BENEFITS:

> **Allows for Larger Containers**

While UHMW can only support containers up to 12 inches, our stainless steel twists are engineered to seamlessly accommodate larger container sizes on your production line.

> **Full Control**

With four direct points of contact, these twists provide unparalleled control over your containers, offering the ultimate solution for seamless inversion on your production line.

> **Easy to Clean**

Stainless steel twists take on less dust and debris, making them less of a hassle during the cleaning process.

> **Easy to Retrofit**

These innovative twists effortlessly integrate into your existing production line.

> **Access to Container**

This solution gives you access to the container during the inversion process.





Inverting Solution

2. UHMW TWIST

2. UHMW TWIST

UHMW Plastic Power Twists are best for applications where the product is sealed. This solution can be changed over quickly and is great for repeatability, helping cut down on delivery times for your products. They are also utilized in air rinsing in some cases.



PRODUCT BENEFITS:

> **Short Delivery Times**

UHMW twists have a short turnover time allowing you to get back to production quickly.

> **Durable**

This solution is a durable option on your production line. UHMW twists can withstand against the wear and tear commonly associated with production lines.

> **Easy to Retrofit**

These innovative twists effortlessly integrate into your existing production line.

> **Fast Changeovers**

Our dynamic solution offers rapid changeovers, perfect for enhancing repeatability and drastically reducing wait times for your valuable products.





Inverting Solution

3. TWIST BLOCK

3. TWIST BLOCKS

The Morrison Twist Block is an inverting solution designed to flip containers from one side to the other within a UHMW plastic block that mounts to your conveyor. This backlog fed system is a great solution for rigid containers on your packaging line. It can be retrofitted to your existing mounting to replace blocks already on your line, or we can upgrade your system to our clamp mounting option.



TWIST BLOCK BENEFITS



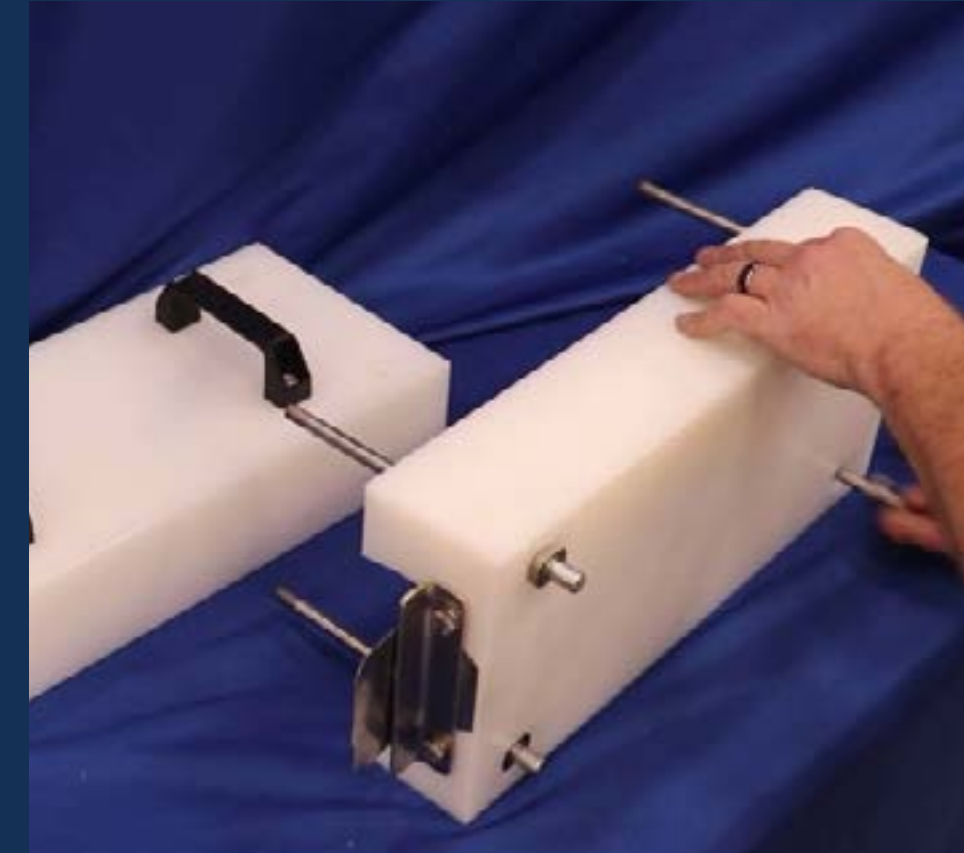
REDUCED FOOTPRINT

Our standard model twist block is designed to fit within a versatile range of 12 to 18 inches. This compact and cost-effective solution maximizes available space on your line, allowing you to strategically place it where you need it most.



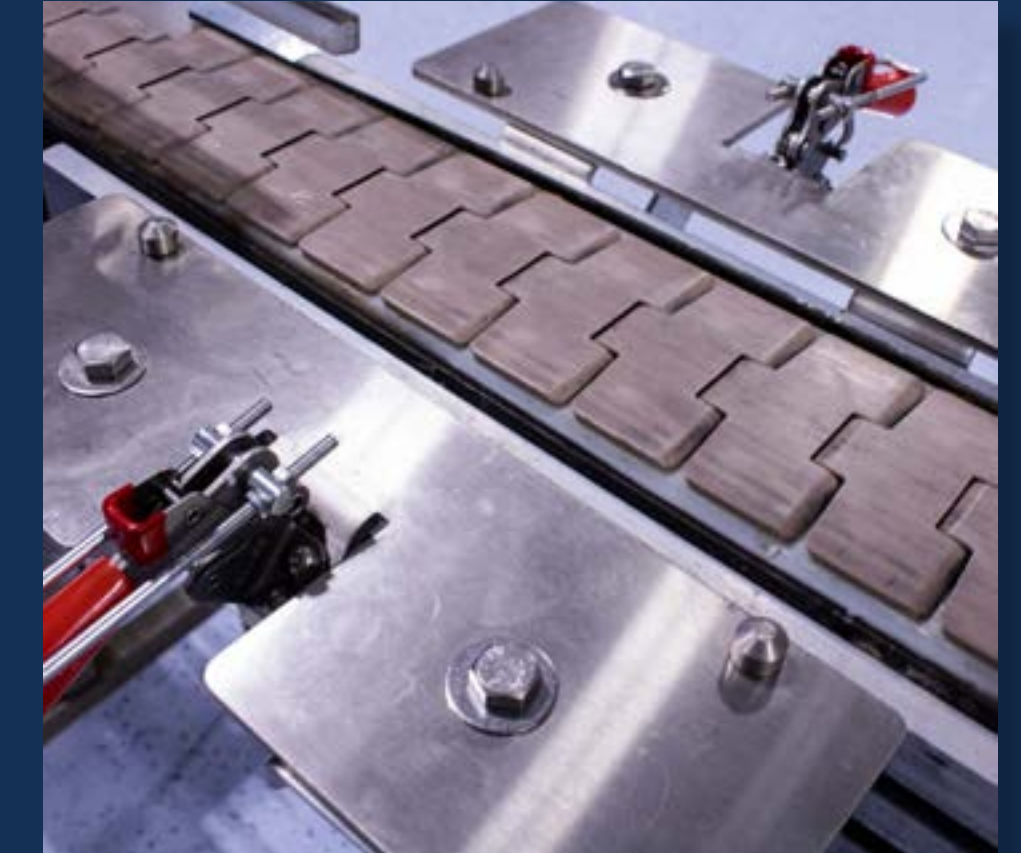
CUSTOMIZABLE

If standard models prove inadequate for your needs, our team can create a customized solution to optimize your production and maximize efficiency.



EASY TO CLEAN

We take pride in our design's simplicity, which allows for easy disassembly and cleaning, setting it apart from other products available on the market. With fewer parts to deal with, maintaining and tidying up the product becomes a hassle-free task.



SIMPLE MOUNTING

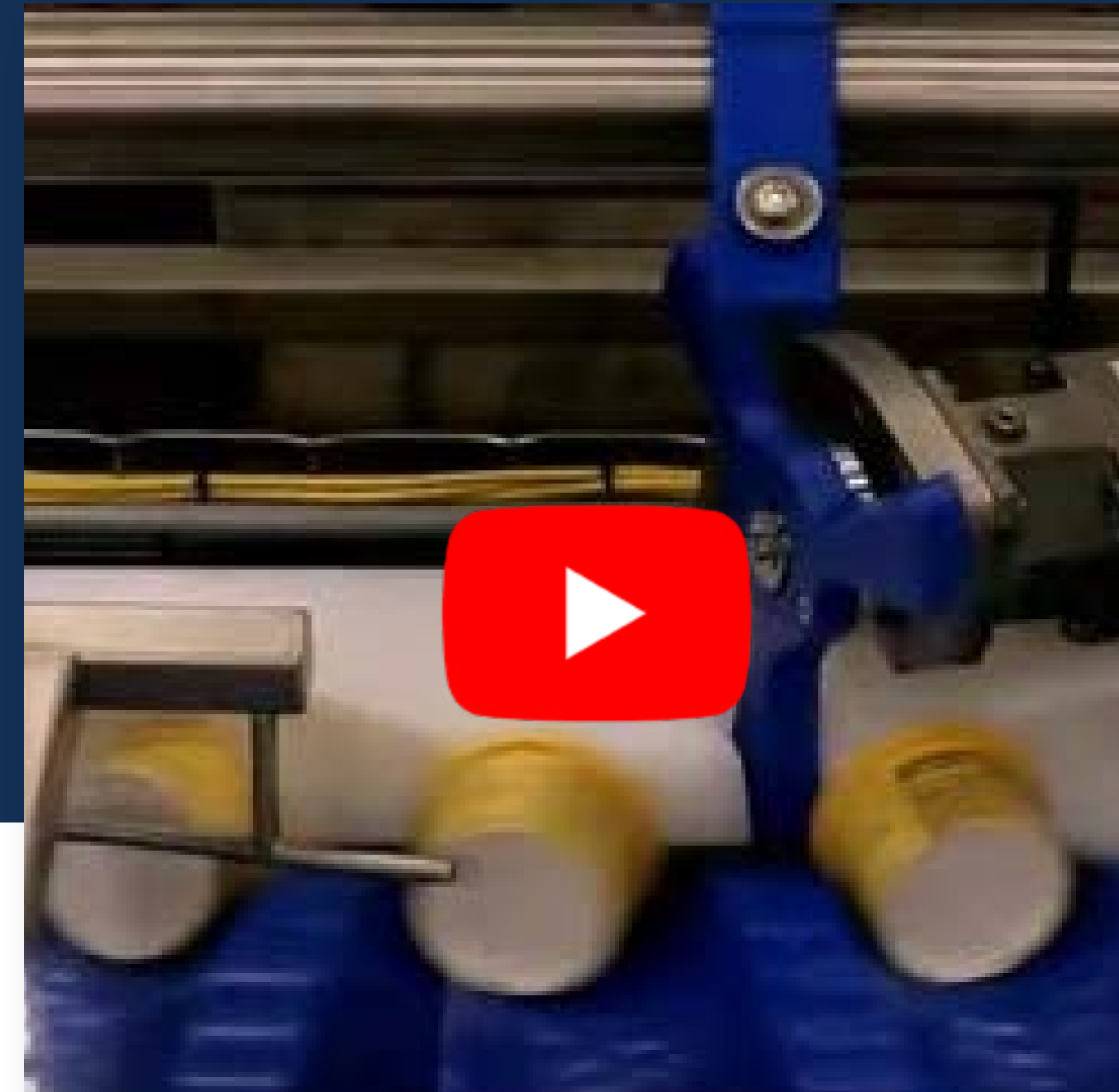
Light weight and easy to maneuver, this block features quick change clamps, making changeover simpler if you are running multiple container sizes on your line.

More Inverting Solutions



Pneumatic (Pick and Place)

The pick and place operation follows the linear speed of the screw and picks out containers from the screw. It uses continuous motion to follow the position of the screw and grab containers.



Flip Wheel (Alternating Inverter)

The alternate inverter uses continuous motion and a 2-to-1 servo motor, creating an alternate inverted pattern of containers for applications like case packing and other end of line procedures.



INNOVATIVE
CONTAINER HANDLING
EXPERT DESIGN
SUPPORTBUILT IN®



CONTACT US

CONNECT WITH AN EXPERT



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