

the **morrison guide** to **CHANGE PARTS**

container handling solutions
for increased productivity

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FEEDING · TURNING · GROUPING · TWISTING · INVERTING · COMBINING · DIVIDING · ORIENTING

the morrison guide to **CHANGE PARTS:**

Change parts, also known as stars and guides, are essential to many packaging lines.

With these products, Morrison's goal is to increase performance, help reduce down time, and minimize wasted product. Our expert change parts engineers can measure, design, and install parts specific to your system and your unique container handling needs.

This guide will take you through how we do it.

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CONTAINER HANDLING
EXPERT DESIGN
SUPPORT BUILT IN®

STARS + GUIDES FOR YOUR PACKAGING LINES

With so many change parts manufacturers on the market, we're happy you want to work with Morrison. Our unparalleled industry expertise in container handling allows us to produce the best change parts on the market.

When working with Morrison, you're getting Support Built In® from the start. That means, we're going to take into account your operation, changeover pain points, and machine manufacturers with our design, so you can have change parts that work for YOU - not just for anyone.

We don't do cookie cutter at Morrison because your containers are what make your business special. Everything is uniquely designed to make your operation more productive. It's why we love being a partner in your line efficiency. Increasing our production quality and throughput is as important to Morrison as it is to you. **That's a promise.**

types of machines we make change parts for:

- rinser
- filler
- capper
- corker
- wire hooder
- capsulator
- labeler
- foiler
- sleever
- spinner
- and more



Enjoy greater flexibility and control:

Morrison designs products to fit your application, no matter how complex or unique. Our line of change parts features a flexible star-wheel design to perform specific functions as needed.

Tightly-engineered designs provide effective container and bottle control for the most delicate operations, including labeling, filling, and capping applications.

For maximum versatility, our change parts can be incorporated into new equipment or applied to upgrade existing machinery.

DID YOU KNOW?

CHANGE PARTS ARE

ALSO CALLED:

guides
stars and guides
star wheel
changeover parts
quick change parts
exchange parts
infeed starwheel
bottle handling parts
container handling parts



WHY DOES WORKING WITH AN EXPERT MATTER?

Every machine is man-made and worked on by different maintenance personnel. One-quarter of an inch discrepancy between machines makes an incredible difference when it comes to container handling, so Morrison provides the best accuracy in the industry to better avoid the possibility of human error.

The engineer designing your parts will start with an electronic machine measure of your specific machine to ensure your parts are as accurate as we can make them, the first time around. Then, an engineer will come back out for install, allowing them to ensure parts work and fit as intended, and any field modifications are properly documented. This process allows Morrison to ensure your parts are what you need them to be from the start, and it allows us to design with the unique qualities of your operation in mind. In many cases, we adapt the parts to operator need (such as removing unnecessary material to lighten the weight of parts or changing split locations for easier install) to provide stars and guides that are maintenance and operator friendly from the start.

This dedication to your line is why working with a container handling expert makes a true difference in your productivity. Other companies may squawk at the price and time this would cost them, but Morrison knows our customers deserve this level of support because your line benefits.



WHAT TYPES OF CHANGE PARTS DO WE MAKE?

Quick Change Core Parts

These parts are the Morrison standard to make your changeover between container sizes easier. They are equipped with core plates for easy swapping, often within minutes.

The quick-change core parts are tool-less where the OEM style may not be. This makes the quick-change core parts much quicker, easier, and lighter to changeover.



OEM Styled Change Parts

We retrofit change parts to your existing machine in a non-destructive manner. These are the standard OEM-styled parts that are likely on your machine.

We can also often replace them with our quick-change core parts to minimize your changeover times.



Our Customers Are Saying...



"MSI and Morrison engineering teams have worked together for years on a wide variety of projects from simple timing screws to fully automated orienting / container handling equipment. We appreciate the quick response, thorough engineering, and equipment performance that Morrison provides. Morrison is one of our 'go to' equipment partners."
- Charles Weinberg, MSI Express



"When it comes to flexibility, reliability, and responsiveness, the Morrison team really sets themselves apart. Their partnership is critical to our ability to succeed in our fast-paced industry. When we're faced with a challenging timeline, Morrison is always there to support our efforts."
- Eric Myjack, Voyant Beauty

HOW WE MAKE PRECISE CHANGE PARTS

Morrison's production process of change parts follows a simple three steps and it has since 1971. First, we'll design the parts with precision in mind. Next, our team will take them to the manufacturing floor. And finally, we will come back to your plant to install.

What does this mean for you? *You're parts will allow you to achieve your goals and you get a team dedicated to your throughput.*



Step 1: DESIGN

Our engineering team will come measure your system with our electronic measuring tool, allowing us to model the packaging machine mounting locations, and we'll talk with your team to uncover production pain points with the machine in question. This information will be used to design the change parts and make sure they are quality.

WHY: *Every machine is man-made, which leaves room for human error. Even though a company has made parts before for a similar machine, you want your parts to be made to take into account even a millimeter of difference as that can affect breakage and your ability to run at higher speeds for more throughput.*



Step 2: MANUFACTURE

With your parts now designed, they come to our manufacturing floor. Morrison manufactures the steelwork and plastic components to ensure a high quality finish. Then we assemble and inspect the parts. This inspection is performed by the engineer, making sure your parts match the prints before shipping them off.

WHY: *By running everything under one roof, we have a nimble operation that allows your parts to be manufactured with shorter lead times. Multiple CNC machines and shifts on the floor keep parts moving, and often, we can have replacement parts to you within 24 hours in the event of downtime.*



Step 3: INSTALL

The final step is installation. Of course, we know your team is adept at installing these parts, but by having our engineers come perform install, we can watch the parts and maintain precision in handling.

WHY: *You bought our parts because you needed consistency and reliability. As everything is man-made, your installation should be too! Our process allows us to catch anything that may seem off, and modify a part to achieve long-term performance and reliability of the change parts. When you need to reorder parts for the same system or a new bottle size, we can take these items into account upfront and save your team time.*

quick service solutions to **KEEP YOU RUNNING**

Morrison has the knowledge and the expertise to get the job done quickly and get it done right — the first time.

Our goal is to keep your packaging line up and running, maximizing your production rate and reducing costly downtime.

The world of packaging can be unpredictable, so we run multiple shifts in our shop. That means, **if for any reason you need a replacement change part, we can often have it in your hands within 24 hours.** That's the kind of service customers can expect from us.

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precision parts can **INCREASE THROUGHPUT**

If your parts are not expertly designed, increasing speeds on your lines can lead to more crashes and downtime. But now more than ever, companies need ways to increase throughput to get more product on the shelf and this demands more speed on the production line.

Morrison keeps speed in mind, working to keep tight fits on containers for better handling and better chances of meeting your increased production goals.

Your change parts manufacturers should be dedicated to your production output.

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service + installation **SUPPORT BUILT IN®**

Morrison has a dedicated field service department so you can rest easy knowing we have the right people to service and install any of our equipment, as well as train operators on best changeover practices that reduce downtime on your line. This is part of our Support Built In® program offered to every customer.

When you work with Morrison, you get a partner for a lifetime.

WHAT IS SUPPORT BUILT IN®?

It's included in all our Morrison's products. This is our personal customer service program for any general questions you may have or technical expertise you need before, during, and after installation - for years to come.

Our support doesn't just stop at installation. We'll be there any time you need replacement parts or help diagnosing other container handling inefficiencies on your line.

Beyond change parts, our department, equipped with PMMI certified trainers, is trained to diagnose and provide real-time solutions, in plant and remotely, that will keep your line up and running and discover solutions for better container handling.

INDUSTRIES SERVED

wine + spirits + beer
beverage
food + snack
dairy
pharmaceutical
tobacco
household products
cosmetics
personal care
canning
pet food
grain + mill + spices

CHANGE PARTS OPTIONS AND CUSTOMIZATION

COLOR CODE YOUR CHANGE PARTS + SCREWS FOR QUICK, EASY CHANGEOVER

Production downtime costs money! To reduce changeover times, Morrison timing screws and change parts can be manufactured with color coding.

We stock 6 colors, but additional ones can be requested to fit your line needs. Select one of the stock colors for us to make your order with for shorter lead times.



RUNNING MULTIPLE CONTAINERS ON THE SAME LINE? USE COLOR PLUGS FOR EASY CHANGEOVER IDENTIFICATION

WHAT ARE COLOR PLUGS?
If you order all of the same color parts and screws but still want to create color association with container sizes being run, color plugs are a great option to use.



Morrison will install a color plug, highlighted on the right, in your screws and change parts that will allow operators and maintenance to quickly identify which screws and change parts need to be installed to run the different container. This can minimize changeover time by making identification simple.

MORRISON PARTS CARTS - SAFE STORAGE SOLUTIONS



Parts carts are great storage solutions when parts are not in use - for example, when running a different container size or during sanitation processes. Morrison's carts keep containers safe from damage instead of storing them in a pile on the floor.

Morrison's shadow board design highlights the specific place each part should be stored, making it easy for operators to quickly locate each individual part. This helps with the **5S lean manufacturing concepts** that many plants look to implement.

Carts have stainless steel frames to allow for cleaning of the parts directly on the carts and are equipped with extra enclosed storage to accommodate any other pieces that accompany your container handling sets.

how to place YOUR ORDER

When you're ready to place your order, our sales team can come to your plant, virtually or in person, to provide a line evaluation at no cost to you.

After that, we can begin processing your order, scheduling a measure, and get you the parts you need to get up and running. It's that easy.

Let's bring Morrison container handling expertise to your plant and achieve your production goals.

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CONNECT WITH AN EXPERT



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