

WAYNE
AUTOMATION CORPORATION



WAYNE AUTOMATION CORPORATION'S
THE ULTIMATE GUIDE
TO CASE ERECTORS

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What is a Case Erector?

Case Erectors are systems that take in Knocked Down Flat (KDF) containers—unformed units with the manufacturer’s joint already sealed—and assemble them into fully formed cases.

These cases are usually corrugated Kraft cardboard in the Regular Slotted Container (RSC) style, but can also take the form of Half Slotted Containers (HSCs), All Flaps Meet, Reverse Flaps, and Tablock style containers. KDF containers exist in either right hand or left hand configurations, and the majority of Wayne Automation case erectors are designed for right hand RSC’s.

Case erectors provide immense value to your organization by providing you with uniform, securely-built cases, assembled faster than an individual working by hand could accomplish. In the long term, this frees up your manpower, increasing productivity, and saving valuable time and money on the back end of your manufacturing cycle.

Numerous industries utilize case erectors to increase efficiency, including but not limited to:

- Brewing & Bottling
- Pharmaceuticals
- Cosmetics
- Homecare
- Electronics



Each of these industries values efficiency of production, and can achieve this by staying on the cutting edge of manufacturing technology. Case Erectors can be produced in automatic, hand loaded, or fully robotic configurations. Whether you’re retrofitting an existing product line or building a new one from the ground up, you have the flexibility to pick the option that meets your needs. Additionally, case erectors can utilize toolless changeover, helping you keep up with the demands of a changing

production and packaging environment.

Why is Quality Packaging Equipment so Important?

From the outset, quality packaging is vitally important for two specific reasons:

- It can increase the statistical likelihood of someone buying your product.
- It can reduce the chances of someone forming an unchangeable negative opinion about your product—before they even try it!

Most people make purchasing decisions based on outer packaging. Not only will people predictably choose a product with a nice looking exterior, they will often proactively form a negative opinion about products that have a bad appearance. And even more damaging, once someone forms a negative opinion about something, studies have shown that a person will hold on to that negative opinion indefinitely.

Since consumers clearly value product packaging, it's in a business's best interest to preserve their product's appearance. To maintain the integrity of your product and your brand, your merchandise must consistently arrive in crisp, clean, quality packaging. With regards to maintaining good product packaging, a good



quality case can only be made by a good quality machine.

Choosing quality packaging automation that can construct an attractive, sturdy box for your products is essential. In order to positively impact your sales numbers, you must make your packaging a top priority. Cracked bottles, scratched labels, and dented containers all present poorly. If that's a persistent problem, those flaws can add up to a bad reputation for your business. A good quality case will protect your products, preserve the aesthetics of your products, and enhance your sales.

Choosing the Right Case

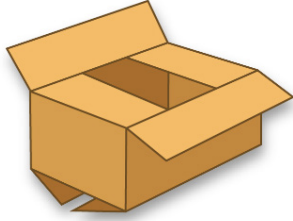
There are a number of case types available, and you must consider several variables to ensure you're using the best box for your products. You can get the most of the information you need by looking at your product's features and characteristics. Still, there may be some additional functions your case needs to perform (e.g. branding, marketing, displaying), so picking a random box type is not adequate.

To help you choose the best case for your products, here are four C's to consider:

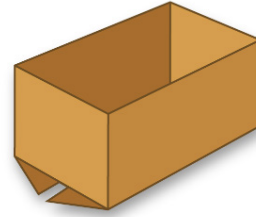
- **Containment** - Will the case hold the product efficiently? Is there too little or too much space?
- **Care** - Will it help protect the product and maintain its quality?
- **Communication** - Will customers be able to see and understand any information printed on it?
- **Convenience** - Will customers be able to easily open the case and access the product?



Common Case Types¹



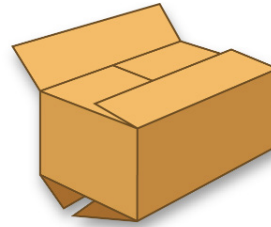
Regular Slotted Container (RSC)
 A very common box style.
Ideal for general purpose packaging and shipment.



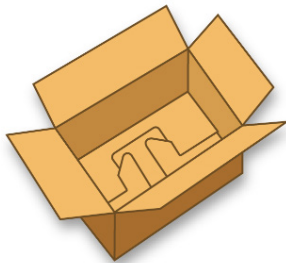
Half Slotted Container (HSC)
 Same as the regular slotted container only without a set of flaps.
Ideal for interplant shipment, store displays, tray alternative.



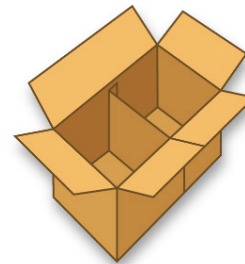
Overlap Slotted Container (OSC)
 In this style, the length of the box is greater than the width. The sealed overlap helps to keep the outer flaps from pulling apart.
Ideal for packaging where overlap seal prevents dust ingress.



Center Special Slotted Container (CSSC)
 This style provides extra strength because both the top and bottom have double the thickness of corrugated board.
Ideal for shipping items where the protection of two layers of corrugated (top/bottom) is required.

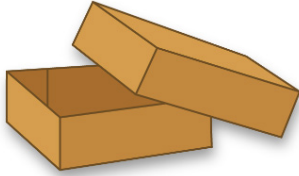


Snap or 1-2-3-Bottom Container (ALB)
 A style more convenient for small-volume shippers. The bottom is not fully sealed, so it may not be suitable for heavy products or concentrated loads.
Ideal for manual operations or reuse operations.



Integral Divider Container
 This is a self-divided box. Technically a regular slotted container but with a pre-glued internal divider.
Ideal for packaging where additional stack strength and product protection is required.

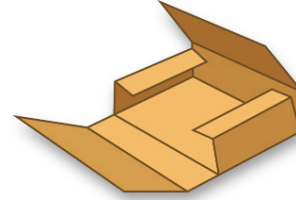
Common Case Types¹ - (Continued)



Telescopic Boxes (Design Style Trays, Infold Trays and Outfold Trays)

Telescopic boxes have separate tops and bottoms that fit over each other or a separate body.

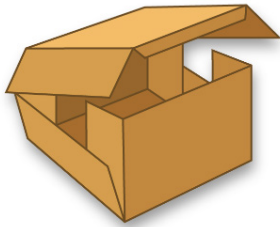
Ideal for temporary removable / reusable top protections.



Folders

A one-piece folder is when one piece of board is cut so that it provides a flat bottom, flaps to form the sides and ends, and extensions of the side flaps that meet to form the top.

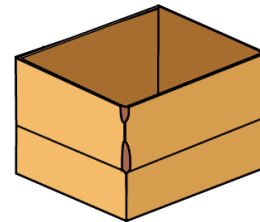
Ideal for use with integrated packs and seal equipment.



Wraparound Blank

A wraparound blank is formed into a box by folding it tightly around a firm product. The finished box is essentially an RSC turned on its side so that the bottom and top are unbroken.

Ideal for use with integrated packs and seal equipment.



Tablock Case

RSC Bottom case with top flap folded back and captured.

Ideal for reshippers, packaging lines that cannot handle a box with flaps up (like the RSC)

Choosing the Right Case Erector

No business that ships any significant amount of product has time to construct all its cases by hand. Automated case erectors do the job more efficiently. Just as you considered some questions to help you decide what type of box to use, here are a few more questions to help you pick the best case erector for your end-of-line process:

- **What case style will you be running?**

If you're only packing one kind of product, you may need only one style of case. However, if your product varies at all, you may need multiple styles. In that case you will need a machine that can work with different styles, and that can change over as quickly as your schedule demands.



- **Where will packages go after they're constructed?**

Once a case is constructed, it may need to make several stops before reaching your conveyors. It will probably still need to be sealed, it may need a partition insert, and it could need to be put through other processes such as tagging or branding. You'll want a machine that can pass packages through to other machines reliably and efficiently.

- **How fast does your end-of-line process need to run?**

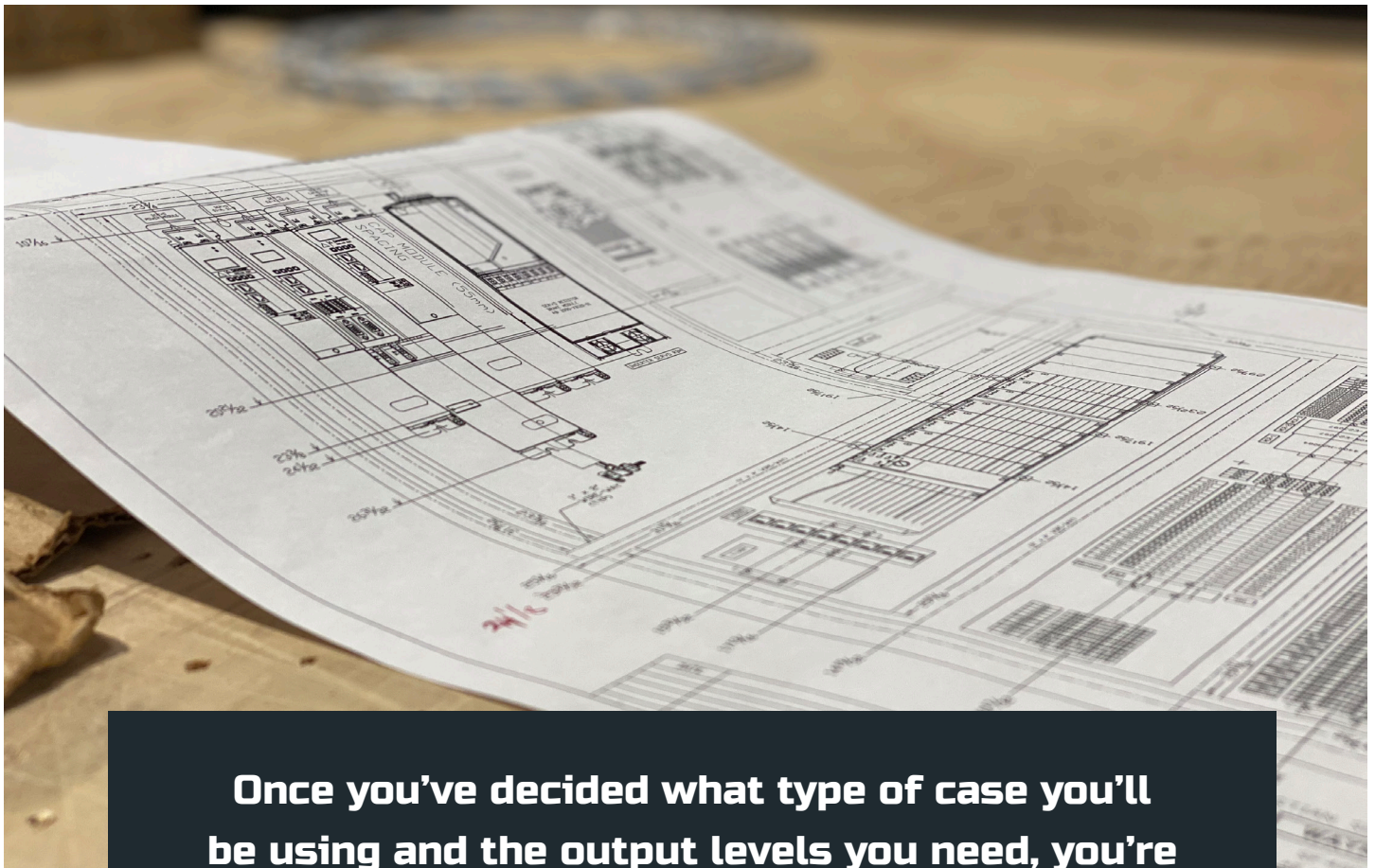
Case erectors run at different speeds depending on the case type and size they need to make. Run the numbers in advance and calculate how fast your end-of-line process really needs to operate to meet demand and deadlines.

- **How much space is available for the equipment?**

Too often, businesses want machines that are too large for the space they have available. You must accurately determine what machine footprint your floor space can accommodate before purchasing your equipment.

- **Do you want machinery that can grow with your business?**

You need a machine that can handle your current packaging needs. At the same time, you should also consider machines that can scale with your business. It's best to look at options that can adapt to handle other product offerings, as well as the cases you may need to use in the future should your product line change and grow.



Once you've decided what type of case you'll be using and the output levels you need, you're ready to choose an automated case erector!

Wayne Automation Case Erectors

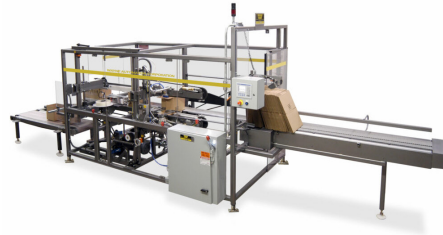
All of our machines are controlled by a full color touch screen, feature toolless changeover, and come standard with anti-intrusion switches for maximum workplace safety.



VCE Case Erector

Vertical case discharge

Speed	Up to 75 cpm
Case Types	HSC, RSC, All Flaps Meet
Sealing Options	Hot Melt Glue



WCE Case Erectors

Vertical case discharge

Speed	Up to 30 to 35 cpm
Case Types	HSC, RSC, All Flaps Meet
Sealing Options	Hot Melt Glue, Tape



WLRV-CE Case Erector

Wide range of case sizes, precision servo operation

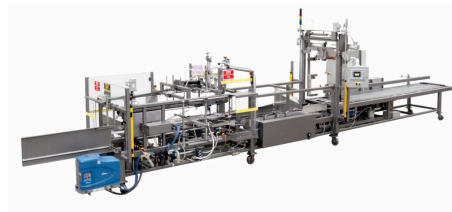
Speed	Up to 30 to 35 cpm
Case Types	HSC, RSC RH & LH Cases
Sealing Options	Hot Melt Glue



WMCE Vertical Case Erector

Vertical case discharge, affordable

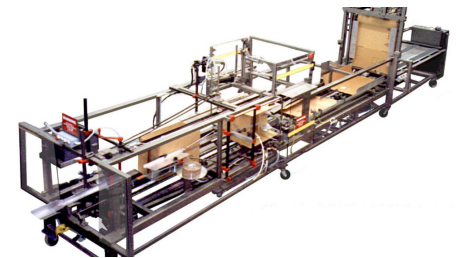
Speed	Up to 20 cpm
Case Types	HSC, RSC, All Flaps Meet
Sealing Options	Hot Melt Glue



MOD B Series Case Erector

Servo-enhanced

Speed	Up to 40 cpm
Case Types	HSC, RSC, Tablock, AFM
Sealing Options	Hot Melt Glue, Tape



CE-20/30 Case Erector

Oversized cases

Speed	Up to 35 cpm
Case Types	HSC, RSC, AFM, Tablock
Sealing Options	Hot Melt Glue, Tape



CE-24/30 SPI Case Erector

Jumbo cases with interlocking bottoms

Speed	Up to 8 cpm
Case Types	RSC or HSC with IBF
Sealing Options	Interlocked Flaps



Tablock Case Erectors

Various models and speeds available

Speed	Up to 40 cpm
Case Types	Tablock
Sealing Options	Hot Melt Glue, Tape

Commonly Requested Features



Fully Automatic Changeover

This category is covered by the WLRV-CE Case Erector, designed for toolless changeover through servo-driven operation. The WLRV-CE can handle RSC and HSC in both left hand and right hand configurations.



Compact Footprint

For smaller firms or production lines with space efficiency on the mind, we offer numerous models to meet your needs. These include the WMCE Vertical Case Erector, WCE Case Erectors and the CE-2100 Case Erector for entry level clients



Maximum Versatility

For clients who need the flexibility to construct different styles of boxes, we offer the CE-15/22 Case Erector and the Mod B Case Erector, which are designed for the widest variety of case styles, as well as servo-driven control for smooth operation.



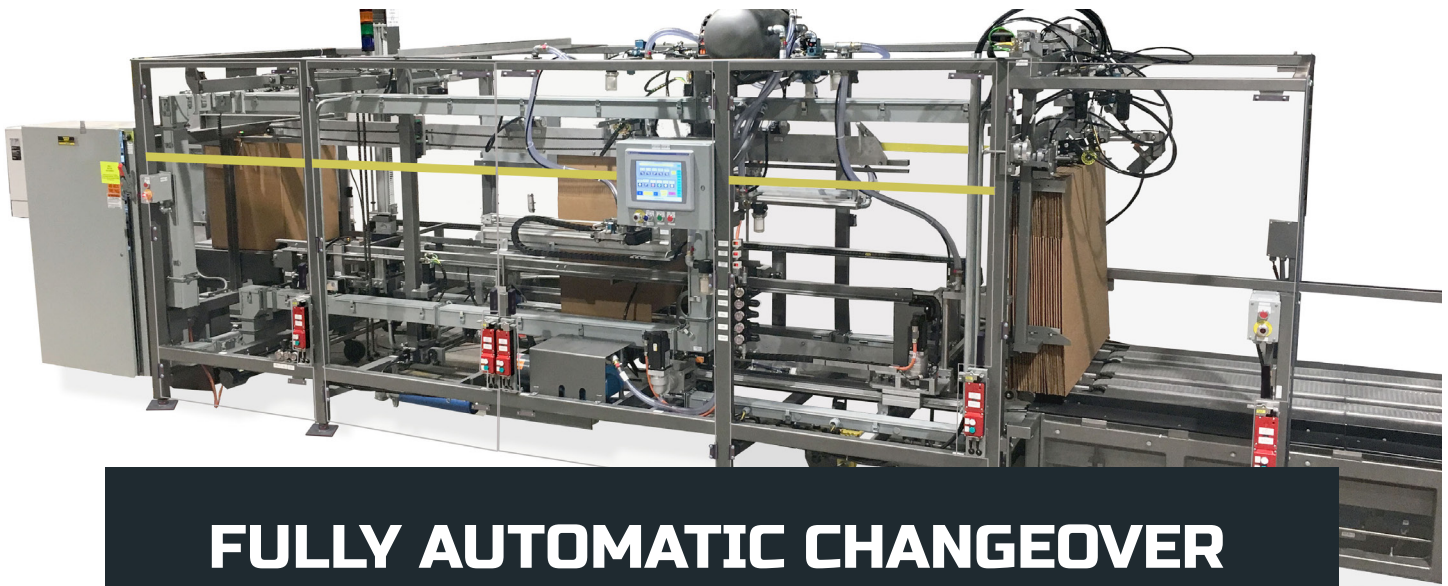
Maximum Speed

If ensuring a rapid packaging line is your top priority, we offer the VCE Case Erector, a vertically discharging case rector capable of handling 75 cases per minute.



Specialty Applications

For unique applications, Wayne has you covered. Our CE-20/30 Caverse Erector is built for oversized and Tablok style cases, while the CE-24/30 is built for oversized cases with interlocking bottom flaps. The Tablock Case Erector finishes out this category, specifically designed for processing Tablok cases at high speeds.



FULLY AUTOMATIC CHANGEOVER

Keeping up with a changing product portfolio can be challenging, but your case erector technology can ease the burden. Wayne Automation's Large Range Vertical Case Erector, model WLRV-CE is built for OEM's who need to handle a wide variety of case sizes and styles on the fly.

The WLRV is our dedicated model for fully automated, toolless changeover, meaning you can change the case sizing solely through the touch screen, saving labor and lost time which would normally be spent halting production to prepare for a new line. Unique among the Wayne Automation product line (and the entire industry), the WLRV-CE can change between left hand and right hand KDFs at the push of a button.

We're proud to say the WLRV-CE Case Erector is the only system on the market capable of handling cases from 6" x 6" x 4" all the way up to 24.5" x 20" x 18", and can vertically erect both left and right hand style cases. This is accomplished by a fully servo driven system, which carries out all changeover commands. Our multi-axis servo system is currently patent pending, providing an unmatched value proposition for a fully automated erecting system.

For further automation of a fast moving production line, the WLRV-CE can be paired with our Automated Magazine loader, removing the need for an operator to manually load the case erector.

The WLVR-CE Case Erector can produce up to 35 cases per minute in both RSC and HSC styles, featuring a hot glue melt system, and our standard suite of safety features, including lexan safety doors and automated anti-intrusion switches.

Compact Footprint

Wayne Automation case packers started with the craft brewing industry; small suppliers who had to be conscious about the square footage of every machine on their floor. We continue our dedication to the small suppliers with our line of case erectors designed for minimal footprint sites.

WMCE Vertical Case Erector

The WMCE Vertical Erector is designed for customers who need an affordable, small footprint solution. This is a purely mechanical system, utilizing compression mandrels and mechanical cams, offering ease of troubleshooting. The WMCE builds up to 20 cases per minute, discharging them vertically, and secured via an ITW Dynamini Hot Melt Glue System.



WCE CASE ERECTOR

The WCE Case Erector offers reliable performance on a budget, producing 30-35 cases per minute. This reliable, affordable option features an all mechanical solution and hot melt system like the WMCE, with the addition of a Dekka tape head for 2" or 3" tape. Additionally, the CE-2100 can handle RSC, HSC and AFM style cases, providing you with compact versatility in an entry level system.

Maximum Versatility

When you need to prioritize flexibility on your shipping and packaging line, Wayne Automation has you covered. Our CE-15/22 Case Erector and MOD B Case Erectors are built for a wide range of case types and adhesive closure methods, all without sacrificing efficiency and throughput.



CE-15/22 CASE ERECTOR

The CE-15/22 Case Erector covers the widest range of case styles and adhesive options. This includes RSC, HSC, AFM top and/or bottom, CSSC, and Tablok cases, with options for tape and Nordson hot melt or cold glue.

In its base configuration, toolless adjustment makes changeover quick and easy. For companies looking for even higher level automation, this case erector is also available with fully motorized adjustment for automated changeover. If you opt for a motorized CE-15/22, pre programmed products can be selected from the Allen-Bradley Color touchscreen for ease of use.

The CE-15/22 Case Erector can achieve speeds of up to 35 cases per minute, and with millions of combined operating hours in the field, this system is proven under 24/7 conditions.



VCE CASE ERECTOR

For around-the-clock businesses prioritizing speed above all else, Wayne has just the case erector for you. Our VCE Case Erector is designed for maximum throughput and efficiency, assembling RSC, HSC and AFM style cases at up to 75 cases per minute. The VCE case erector is vertically oriented, discharging cases upright after being sealed from the bottom

The VCE case erector is designed from the ground up for reliable case forming even at high speeds, and uses interior and exterior compression mandrels to ensure cases are glued securely and squarely. All changeovers can be done by hand, and even the mandrels remove via a pull pin. Fully motorized adjustments are also available, allowing pre-programmed selections for automatic changeover.

Speed isn't just a factor in operation, but in downtime and maintenance too. That's why the VCE case erector was designed for fast, efficient maintenance. The driveline features automatic tensioners to increase component lifespan, and lubricant points are positioned outside of the system. Our Total Planned Maintenance (TPM) system, an optional add on, will inform you of regular maintenance tasks, with full color instructions on the color touch screen.



CE-24/30 CASE ERECTOR

Specialty Applications

Wayne Automation is no stranger to turnkey engineering and custom requests, which is why we offer a robust line of case erectors for unique, specialty applications.

CE-20/30 Case Erector

The CE-20/30 Case Erector is designed for forming oversized cases, with maximum dimensions up to 30" long, 20" wide and 30" high. Based on our highly successful CE-15/22 case erector model, the CE-20/30 can handle RSC, HSC, AFM and Tablok style cases, with the option for tape or hot melt glue closure, and with a maximum throughput of 35 cases per minute.

CE-24/30 Case Erector

The CE-24/30 Case Erector is a specialty system designed for jumbo sized cases with interlocking bottom style cases. This system can handle RSC style cases with dimensions up to 30" long x 24" wide x 20", as well as HSC style cases up to 30" long x 24" wide by 42" high. The CE-24/30 case erector can form up to 8 cases per minute, and has a surprisingly small footprint at only 8' by 12'.



TABLOK CASE ERECTORS

Tablok Case Erectors

Wayne Automation sets the gold standard for tablock (Tablok) cases, and for this task we offer multiple different erectors. The MOD B series offers servo driven performance with a 40 CPM throughput, while the CE-20/30TL handles large format Tablok cases at up to 35 CPM.

About Wayne Automation

Wayne Automation has been a leading innovator in the packaging and automation industry since 1976. Owing to our products' rugged construction and exceptional reliability, they became a popular choice in the glass and container industry, where 24/7 operation is standard. Today, we're proud to offer packaging equipment for every stage of your process. Our machines are delivered and integrated by our on-the-ground field service technicians, and new upgrades are constantly available as we improve our products.

Contact Us

If you've identified the case erector for you and want to get a quote, or if you want to speak with us to find out which product suits you best, please contact us anytime so Wayne Automation can get to work for you!



wayneautomation.com

