

LOZIER + CASI

CASi-IBOD



Increase efficiency, optimize labor and reduce risk of injury with intelligent, automated box opening

*The most common way
to unpack merchandise
is also the most costly.*



Physical lacerations, lost labor and damaged goods are just a few of the major risks associated with using hand-held box cutters. Annually, these accidents cost corporations billions.

44%
OF ALL
WORK-RELATED
INJURIES INVOLVE
LACERATIONS
/CUTS
TO THE HANDS.

AVERAGE NUMBER
OF DAYS
AN EMPLOYEE
MISSES DUE
TO A CUT OR
LACERATION:
12 DAYS

\$33,000
per injury
AVERAGE WORKERS
COMPENSATION
COST TO
EMPLOYERS

Source: National Safety Council 2023

The CASi-IBOD is available in two models:

The **CASi-IBOD Single** utilizes one conveyor to transport boxes in and out of the cutting portal with one robot arm capable of performing a variety of cuts.

The **CASi-IBOD Duo** is similar in operation but has an additional conveyor with the robot sitting between the two lines. With the additional conveyor, the robot now alternates between the two cutting portals providing an increase in cycle rate of 73% compared to the CASi-IBOD Single.

Let us help you optimize warehouse efficiencies while maximizing return on investment with a CASi-IBOD solution.

SPECIFICATIONS	IBOD SINGLE	IBOD DUO
Maximum Rate	550 per hour	950 per hour
Minimum Box Size (LxWxH)	6" x 6" x 5" (153mm x 153mm x 115mm)	6" x 6" x 5" (153mm x 153mm x 115mm)
Minimum cut height on any box size	4.75" (from top of conveyor)	4.75" (from top of conveyor)
Maximum Box Size (LxWxH)	30" x 21" x 19" (762mm x 533mm x 483mm) (30" H possible with customization)	30" x 21" x 19" (762mm x 533mm x 483mm) (30" H possible with customization)
Power Requirements	230V - 3ph - 30 amp	230V - 3ph - 30 amp
Air Requirements	2.2 CFM @ 90 psi	5 CFM @ 90 psi
System Footprint	11.5' x 5.5' x 6.4'	11.5' x 8.3' x 6.4'



CASi-IBOD Single



CASi-IBOD Duo



How the CASi-IBOD WORKS

The Intelligent Box Opening Device (CASi-IBOD) is a box cutting machine capable of automating manual box cutting operations. The CASi-IBOD prepares and holds the box stationary to cut the box according to precise specifications defined by the customer.



1

DIMENSIONING

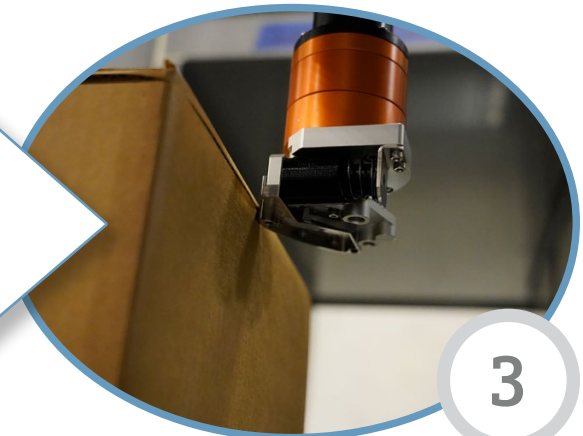
Light curtains within the cutting zone measure the height and width of the box.



2

PREPARE

Once measurements have been collected, the box is then secured into position to prepare for cutting.



3

CUT

CASi's software will select the precise cut specification defined by the user's selected cutting configuration.

BOX OPENING ACCOUNTS FOR 80% OR MORE OF INBOUND REPLENISHMENT LABOR.

85% OEE IS CONSIDERED WORLD CLASS FOR MANUFACTURING.
- SOURCE: VORNE

These CASi-IBOD options will save you valuable time and money with every use.

Automatic Cutting Tool Changer: Software in the CASi-IBOD control system tracks the blades' usage over time, and will issue an alert when the blades start getting dull. Automating this step significantly decreases the time it takes to change the blades, maximizing throughput and minimizing downtime.

Automatic Lid Remover: The integrated Lid Remover, part of the CASi-AutoDecant solution, removes box lids to prepare for decanting.

Box Flipper: The carton is lifted vertically from the conveyor, rotated 180° and placed back onto the conveyor. The open end of the carton is now face down on the conveyor, and the carton is conveyed to the decant module.

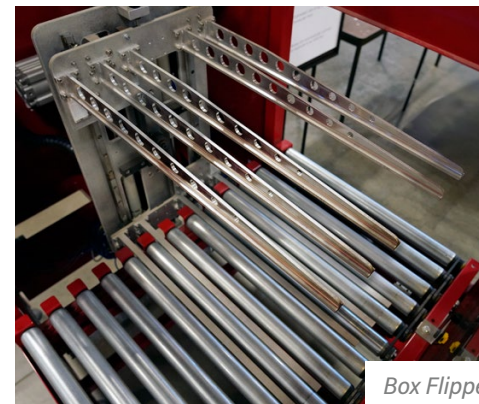
Scan Tunnel Module: Minimum 1-sided, up to 5-sided, scan module upstream of the CASi-IBOD, confirms product received in the facility and provides better visibility to a customer's state of inventory. This information is also used to automatically select the desired cut specification/selection for the product.



Automatic Cutting Tool Changer



Automatic Lid Remover



Box Flipper



Scan Tunnel Module

Features:

Software: Unlimited number of box-cutting configurations are within CASi-IBOD specifications. Data logging for integrating Upper - Level WMS. Fully integrate into 3rd party hardware & software.

Remote Support:

- Camera
- Diagnostics

Safety:

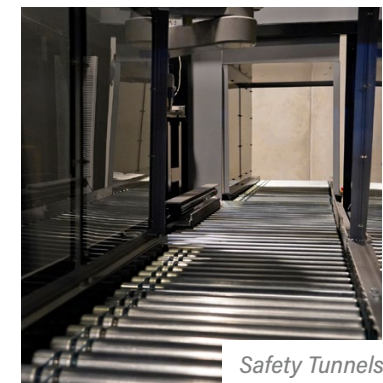
- E-Stops
- Light Curtains
- Impact Sensor
- Safety Tunnels



Software



Camera



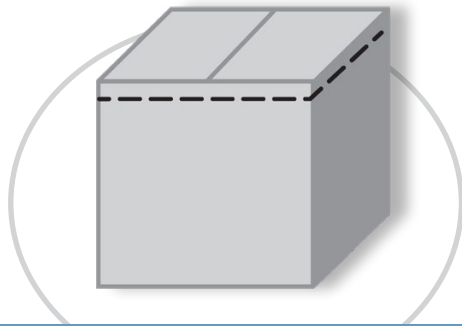
Safety Tunnels

What types of boxes can be cut?

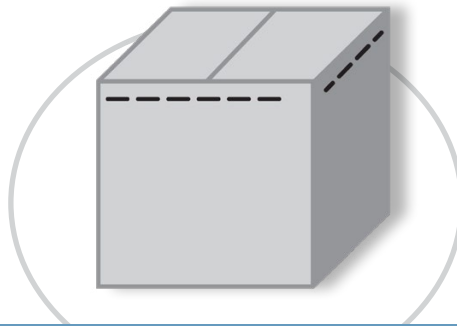
A broad range of box sizes can be automatically cut by the CASi-IBOD, as it measures the size of every incoming box in real-time. Same SKU batches - similar and mixed - may be processed by the CASi-IBOD, working seamlessly with standard workflows.

Standard cut options:

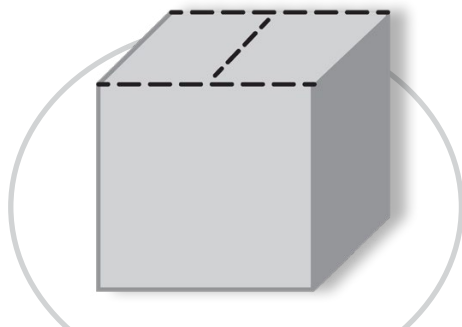
Standard cuts include: Side cut (3 sided or 4 sided), Tab cut, Tape cut, and Window Cut.



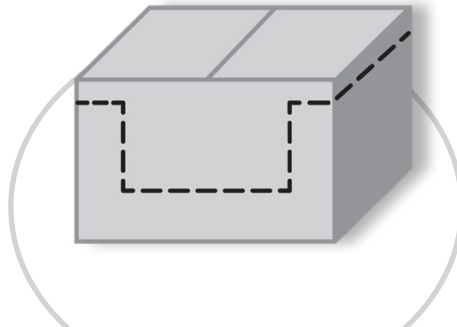
SIDE CUT | • 3-Sided • 4-Sided



TAB CUT



TAPE CUT



WINDOW CUT

**Other Custom
Cuts Available*



Intelligent receiving doesn't have to end at the CASi-IBOD.

Custom Engineering Services

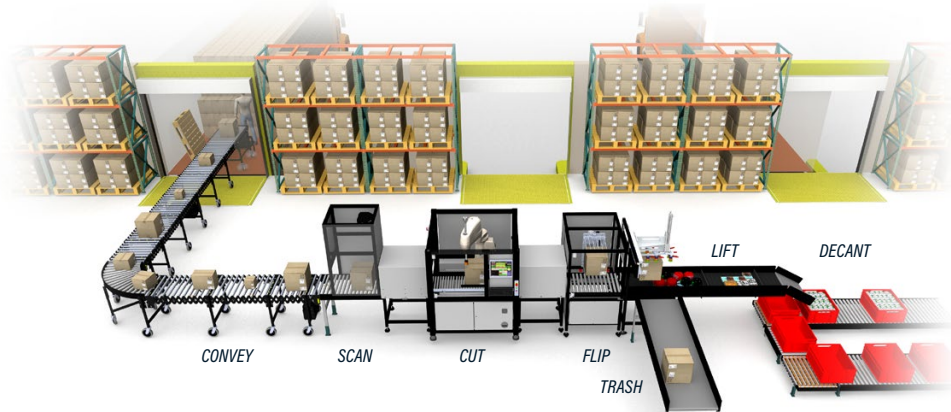
CASi designs, builds and services intelligent automation for receiving, order fulfillment and logistics. Our responsive sales and engineering team starts by understanding our customers' unique processes and needs.

From there, we develop a tailored solution that delivers maximum return and increases efficiency.

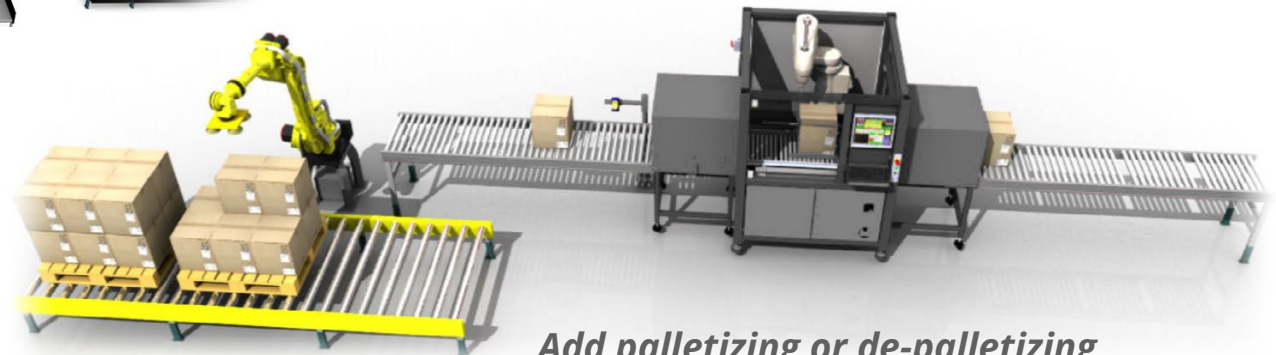


Optimize operator labor

by utilizing CASi-Conveyor for loading and unloading.

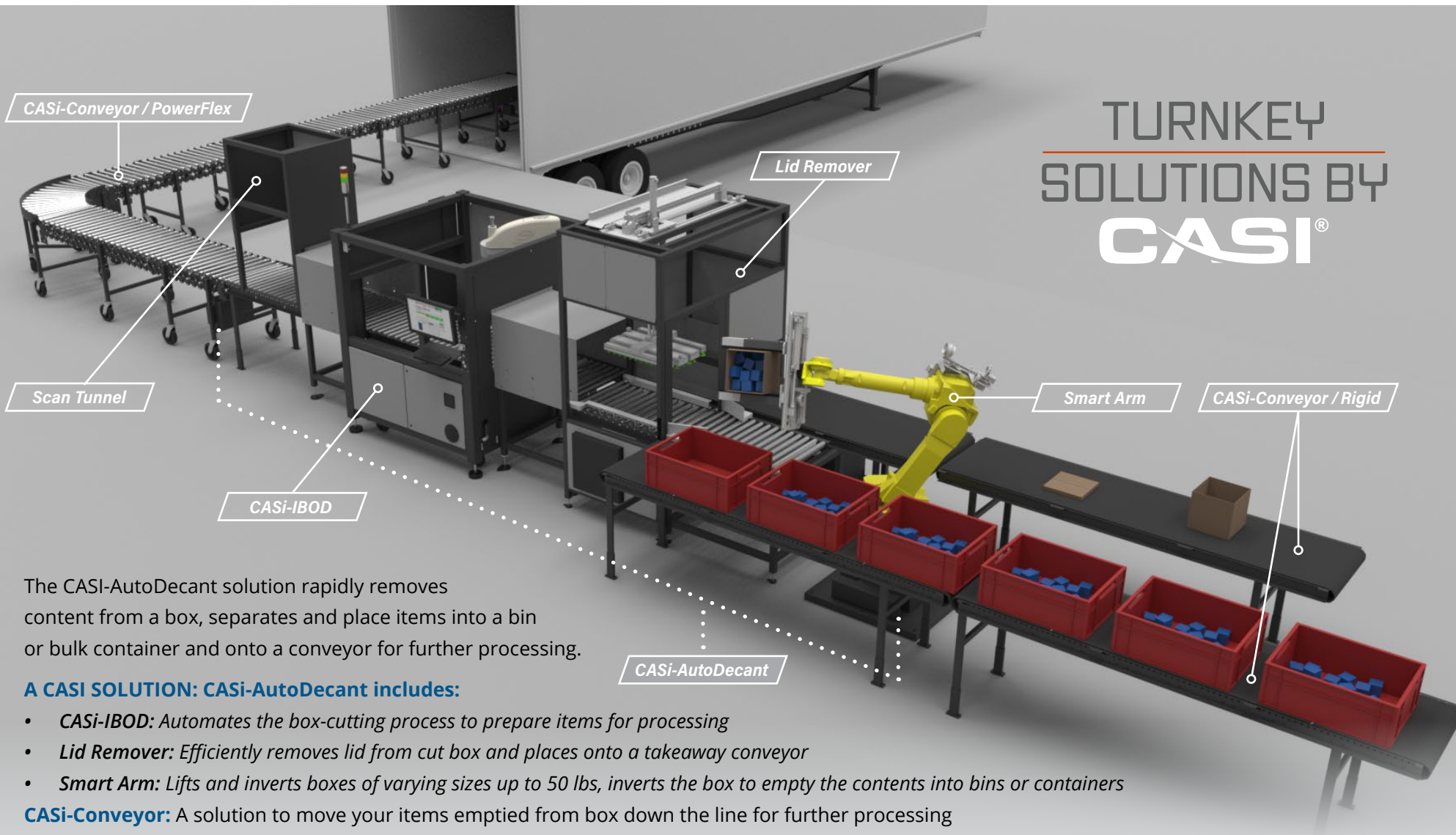


Automatically decant products into ASRS bins.



Add palletizing or de-palletizing

to the CASi-IBOD for complete automation.



TURNKEY
SOLUTIONS BY
CASi®

The CASi-AutoDecant solution rapidly removes content from a box, separates and place items into a bin or bulk container and onto a conveyor for further processing.

A CASI SOLUTION: CASi-AutoDecant includes:

- **CASi-IBOD:** Automates the box-cutting process to prepare items for processing
- **Lid Remover:** Efficiently removes lid from cut box and places onto a takeaway conveyor
- **Smart Arm:** Lifts and inverts boxes of varying sizes up to 50 lbs, inverts the box to empty the contents into bins or containers

CASi-Conveyor: A solution to move your items emptied from box down the line for further processing

- **CASi-Conveyor Rigid:** Powerful, efficient, 24-volt conveyor with your choice of drive configuration & belt selection
- **CASi-Conveyor PowerFlex:** Powered conveyor that can move & bend as needed

Discover CASI

With nearly 170,000 square feet of dedicated manufacturing space in Frisco, Texas, CASI provides high-quality solutions with minimal lead time and the ability to customize automation to your specific needs.

CASI designs, manufactures, installs, and services state-of-the-art turnkey automation systems for retail and e-commerce businesses.

CASI's approach to solution design is not a one-size-fits-all approach, but rather a flexible, scalable and modular solution. CASI's overall objective is to provide the right balance of high-tech automation and necessary optimization of labor operations to increase accuracy, efficiency, and profitability.



Compatible Solutions Include:

CASi-SLAM



Automated Scanning, Labeling & Manifesting for Outbound Shipping

CASi-AutoDecant



Automatically transfers box contents to a conveyor, bin, or workstation

CASi-Conveyor



24-volt rigid & flexible conveyor

CASi-SmartBox®



Automatic box-resizing system to reduce parcel shipping costs

CASi-SORT



Sortation solutions for inbound and outbound

CASi-FlashSort®



Automated unloading, receiving, and sorting

**LET US HELP
DEVELOP A SOLUTION
TO FIT YOUR NEEDS.**

CASI®

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Go to www.casiusa.com/patents for
patent information on CASI solutions.

**CLICK OR
SCAN QR CODE**
to see how we
stack up against
the competition.

