

UNIVERSAL DE-BOXER



Open and remove product from boxes of varying shapes and sizes the safe, hygienic and efficient way with the Universal De-boxer.

This machine has been developed to remove the need for operators to manually open boxes or cartons.

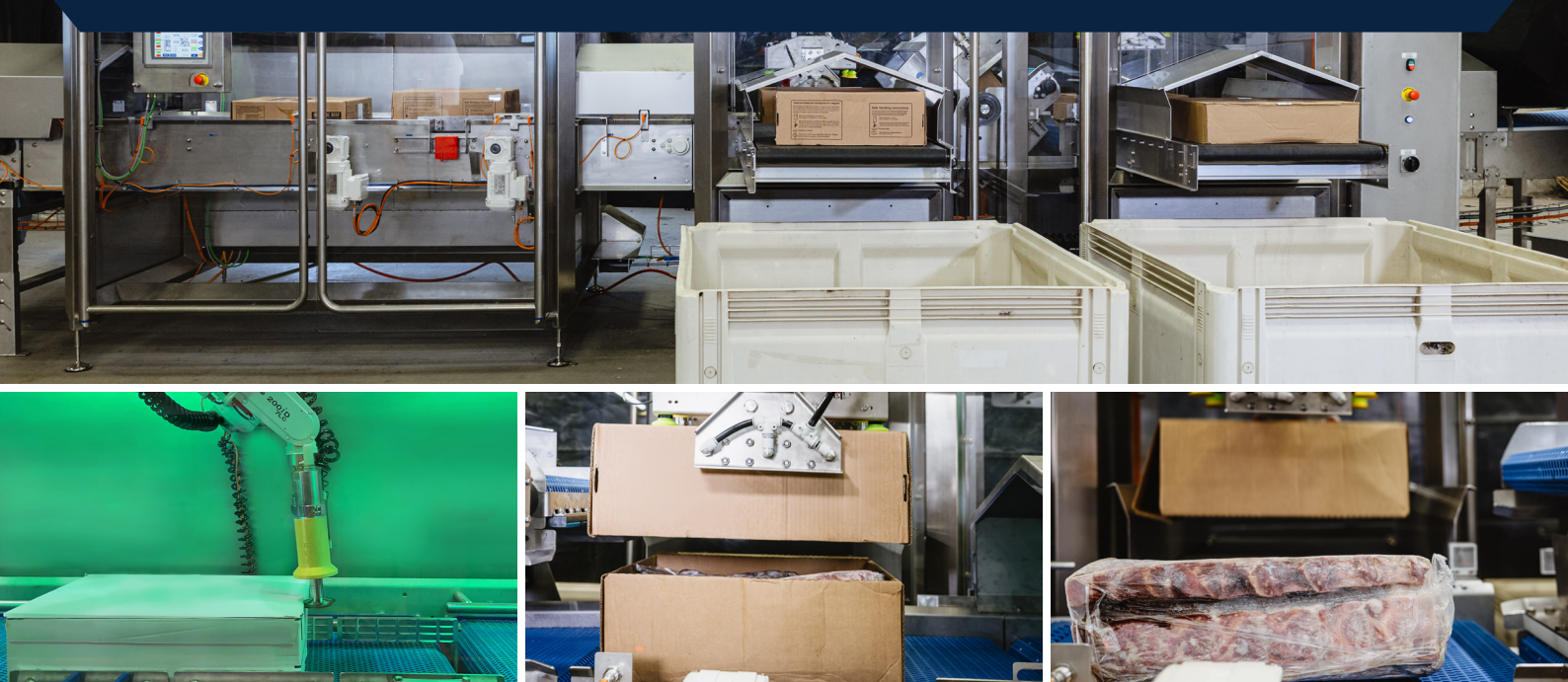
It is a modular system with components to cut open the tops of sealed boxes, and to remove the contents from the box. It is often delivered together with a de-palletiser.

APPLICATIONS

- › Operations where bulk product needs to be removed from boxes to prepare it for further processing
- › Lines handling multiple box sizes and/or box formats (such as taped, glued and shoebox style boxes)

BENEFITS

- › Operator input not required for box size and shape changes
- › Reduces labour requirements – allows staff to be redeployed to higher value work
- › Eliminates manual handling, knives and the associated risk of injury
- › Removes risk of product contamination by operators
- › Sanitary design with full wash down compatibility



FEATURES

The first module is known as the Universal Box Cutter, or UBC, and cuts open the tops of sealed boxes.

The UBC uses vision technology to scan each box to determine its size and shape, and then deliver the optimal cut profile for each box, on the fly, without the need for operator intervention. It is capable of cutting box straps and bands, and adapts

automatically to handle damaged boxes.

The second module lifts the cut top or lid off the box, inverts the box and then removes the bottom of the box to deliver the contents onto the conveyor line, ready for further processing. Waste cardboard is conveyed to a cardboard compactor or centralised location for recycling.

Our universal de-boxer solution can be provided with the first, second or both modules, depending on the requirements of the processing line.

It is often delivered together with a de-palletising system, to provide a completely automated solution to the front-end of a secondary processing line.

SPECIFICATIONS

Box weight	Up to 40kg (90lb)
Box dimensions	Length 150-820mm (6-32¼") Width 150-500mm (6-19½") Height 120-320mm (4¾-12½")
Operating temperature	0-45°C (32-113°F)
Throughput	Up to 8 boxes per minute
Wash down	Machine can be fully washed down, with optional spray bars supplied for CIP (clean in place)
Compliance	Meets or exceeds the following standards: Electrical NFPA 70, NFPA 79 3A Sanitary standards FDA approved materials IP69K, NEMA 4X



Robotic de-palletising system can be supplied as an optional add-on.