

# AUTOMATIC CORN CUTTER



## SELF-CONTAINED PRODUCTION MACHINE

The CCM Automatic Corn Cutter is a self-contained production machine that orientates, feeds and cuts ears of corn with increased production volume and orientation efficiency. Units are adaptable to an existing cutting room and require little or no modifications to existing conveyors.

## FEATURES

**Self Clearing:** Computer sensors are activated automatically to instantaneously clear product jams in the cutter head. This system maintains virtually uninterrupted product flow.

**Sanitation:** All parts in contact with product are of stainless steel or food grade plastic and are easily accessible for cleaning.

**Compatibility:** On line compatibility without major structural changes to present system. Available for belt or oscillating systems.

**Cutter Feed System:** Unique belt feeder system assures gentle handling and maintains center alignment of ears, for a top quality cut of finished product.

**Design:** Units are sturdy and compact in size thus requiring minimal floor space. Designed to facilitate low maintenance costs. Hydraulic drive system with air actuated cylinders for primary control.

**Electrical:** Low 12 Volt computerized system for added safety.

## MACHINE OPERATIONS

- Infeed Control
- Singulation
- Orientation
- Gentle Handling
- Feeding
- Cutting
- Auto Clearing



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## OPERATING FEATURES:



- 1** Ears of corn are fed onto the infeed-wheel by the Metering Conveyor.



- 2** The infeed-wheel singulates the ears of corn to pass through a sensing unit that determine the direction the ears of corn are facing (tip-first/butt-first). An integrated counter records cutter speed, track speed, current ears/minute & total ears processed.

After the ears of corn pass through the sensing unit and are analyzed, they are directed by the track assembly to the Flipper Gate and Orientation Turn-wheel.

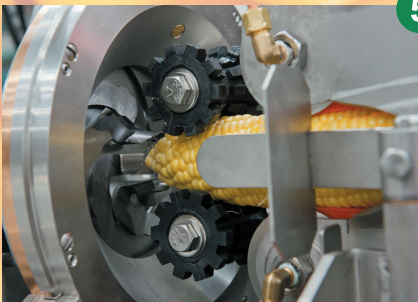


- 3** For tip-first ears of corn, the Flipper Gate remains closed and the ears of corn are fed onto the Turn-wheel in the correct orientation.



- 4** For butt-first ears of corn, the Flipper Gate is activated by the sensing unit to "push" the ear of corn, allowing the corn to rotate and feed onto the Turn-wheel in the correct orientation. The sensing unit can also detect rubbins (small ears of corn), allowing the flipper gate to open thus removing them from the product flow.

The ears of corn are now fed onto the Cutting Feed System which adjusts to the size of the ears while firmly holding them in place, assuring a quality feed and cut.



- 5** The ears of corn are fed through the rotating cutting head, cleanly cutting the kernels of corn from the cob. The cob and cut corn are discharged out of different chutes for collection.

## SPECIFICATIONS

<b>Inlet Height</b> .....	Variable std. 66"
<b>Overall Length</b> .....	approx. 70"
<b>Overall Width</b> .....	approx. 58"
<b>Air Requirement</b> .....	45 scu. ft./hr.@90psi
<b>Water Consumption</b> .....	approx. 7gal./hr.
<b>Hydraulic Requirement</b> ...	approx. 10 gpm
<b>Minimum Spacing</b> .....	5.5' on center
<b>Orientation Accuracy</b> .....	85-95%
<b>Average Rate</b> .....	110-130 ears/min.
<b>Instantaneous Rate</b> .....	185 ears/mon.
<b>Hydraulic Oil</b> .....	(Food Grade) 215 SSU@100
	(Oil temp must be maintained between 110-120°F
	"Specifications subject to change without notice"