

**CASE CORPORATION 2555 COTTON EXPRESS®
COTTON PICKER
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Abstract

Case Corporation's new Case IH 2555 Cotton Express® Cotton Picker provides customers around the world with a superior product that maximizes their productivity and success.

The new 2555 Cotton Express® Cotton Picker maximizes customer productivity by reducing total harvest time, while keeping the best features of the prior 2155 Cotton Express® Cotton Picker.

To previous key performance features such as:

- picking from both sides;
- vertical lift basket with power-metered unloading;
- superb cab; and
- non-contaminating components,

the 2555 Cotton Express® Cotton Picker has added:

- 36% increase in basket capacity;
- quick raise/lower basket lid;
- 25% larger fuel capacity;
- factory power guide axles; and
- factory option dual-ready logger tires (24.5X32).

Dependent on field size and unloading strategy, the Case Corporation 2555 Cotton Express® Cotton Picker can increase productivity by a typical 10%.

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Customer productivity and success were groundrules for the new 2555 design. The following discussion will focus on prior machine features retained and new features added.

First and foremost, the Cotton Express® has always picked cotton from both sides of the row. The Case IH picking drum is durable and reliable with all gear drum drive components. The spindles enter the picking zone, gently penetrating the plant from both sides to maximize cotton harvesting.

The picking drums are built with non-contaminating doffers and moistener pads that contribute to a higher quality harvest.

The next Case IH advantage is the Cotton Express® vertical lift basket with power-metered unloading. The operator can control the unloading in a stable platform. The vertical lift provides the stability, while the power-metering system allows the operator to control the unloading process. The Cotton Express® vertical lift basket with power-metered unloading allows the operator to put the exact amount of cotton where the operator wants and to easily top off module builders.

In addition, the 2555 cab continues to set the industry standard. With ergonomic control layouts, stadium lighting, operator comfort and superb visibility, the operator is truly picking in Southern Comfort.

The new features that make the typical 2555 10% more productive than the earlier models, focus on increasing total on-row time and minimizing time spent unloading or in preparation for transport.

The patented compactor with integral augers is the key to higher productivity. The average basket capacity is 7,500 pounds -- a 36% increase over the previous models with the same basket dimensions. Increased productivity is a result of minimizing the time spent unloading.

Three augers have been integrated into the basket compactor system. The compactor/auger system has two different modes of operation:

- Off/Manual Position -- The augers disengaged and compactor operating manually by depressing the control switch.
- Auto/Manual Position -- The augers turn continuously. The compactor cycles automatically when commanded by the auger drive pressure. Compactor cycles are optimized which reduces component wear and hydraulic horsepower usage.

In addition to minimizing the time spent unloading, compactor/ auger benefits include:

- virtual elimination of cleaning of the compactor, reducing daily maintenance;
- fully automatic system operation; and
- reduced compactor cycles that increase basket life.

Another new feature is the quick raise/lower basket lid to simplify moving the basket lid from field position to transport/storage position and back again. The time for basket lid raise or lower is less than 15 minutes -- with one person. With this capability, the large 1150 cubic foot basket size is standard on all machines. This new system utilizes the existing basket lift cylinders and other basket components.

Fuel tank capacity is now 150 gallons, an increase of 25%. This design meets customer requests to harvest 14 hour days under most field conditions.

The 2555 Cotton Express[®] Cotton Picker has added two factory installed options, the power guide axle and dual-ready 24.5X32 rims. Both options are provided to increase the harvest window during inclement weather or adverse picking conditions. Factory installation means higher reliability through factory assembly quality and factory testing.

The 2555 is a customer focused design. Both the basket lid raise/lower feature and the compactor/auger feature were designed to be retrofittable. Kits will be available for both the 2055 and 2155 Cotton Express[®] Cotton Pickers.

In summary, the Case Corporation 2555 Cotton Express[®] Cotton Picker is a superior product that maximizes customer success and productivity by a typical 10%. The features that provide the productivity increase include:

- a 36% increase in basket capacity to an average payload of 7,500 pounds;
- a quick raise/lower basket lid that allows one person less than 15 minute raise or lower; and
- an increased fuel capacity of 25% to allow fourteen hour days under most field conditions.



Figure 1. Case IH 2555 Cotton Express[®] Cotton Picker.