DS450®

High-Throughput Scanner and Tabulator

Less adjudication

Intelligent Mark Recognition (IMR®) and Positive Target Recognition & Alignment Compensation (PTRAC®) technologies reduce the number of ballots requiring time-consuming manual adjudication.

Efficient ballot transport control

Tru-Grip™ rollers ensure ballots are pulled one at a time, preventing scanning interruptions. Unfolded ballots are no problem!

No rescanning

If scanning is interrupted, there's no need to rescan all the ballots. Green lights indicate a ballot has been tabulated and red lights indicate it has not been tabulated.
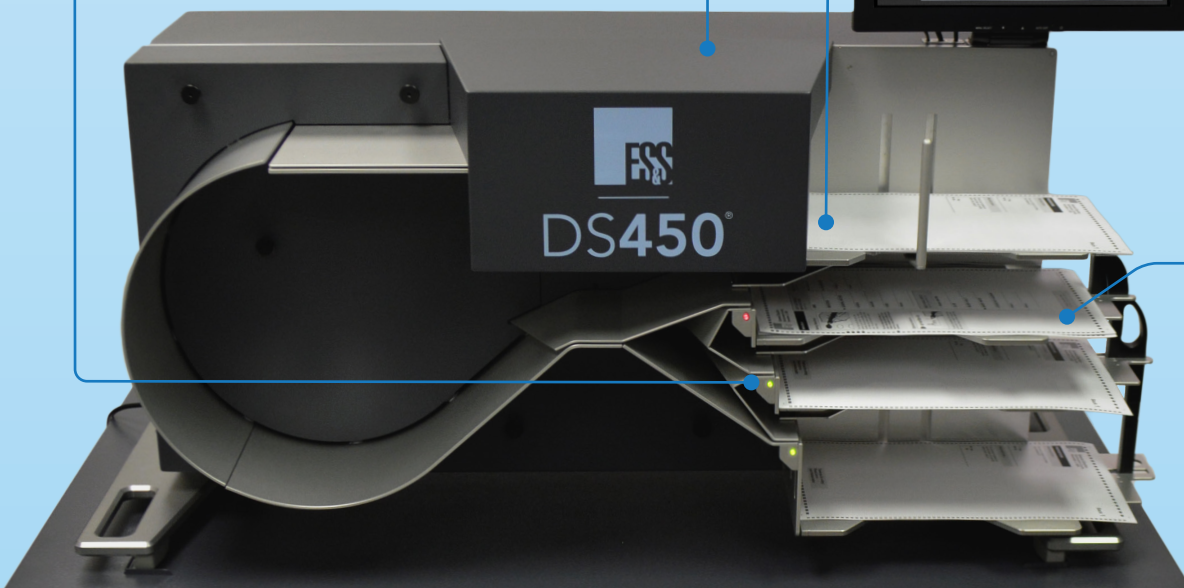
Easy to use

Touch-screen interface walks the user through the tabulation process step by step.
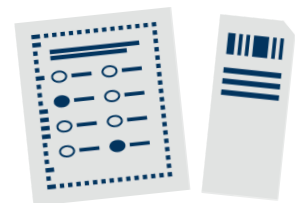
Customizable, full-speed sorting

No scanning interruptions for damaged ballots or ballots with exceptions. Sorts ballots into:

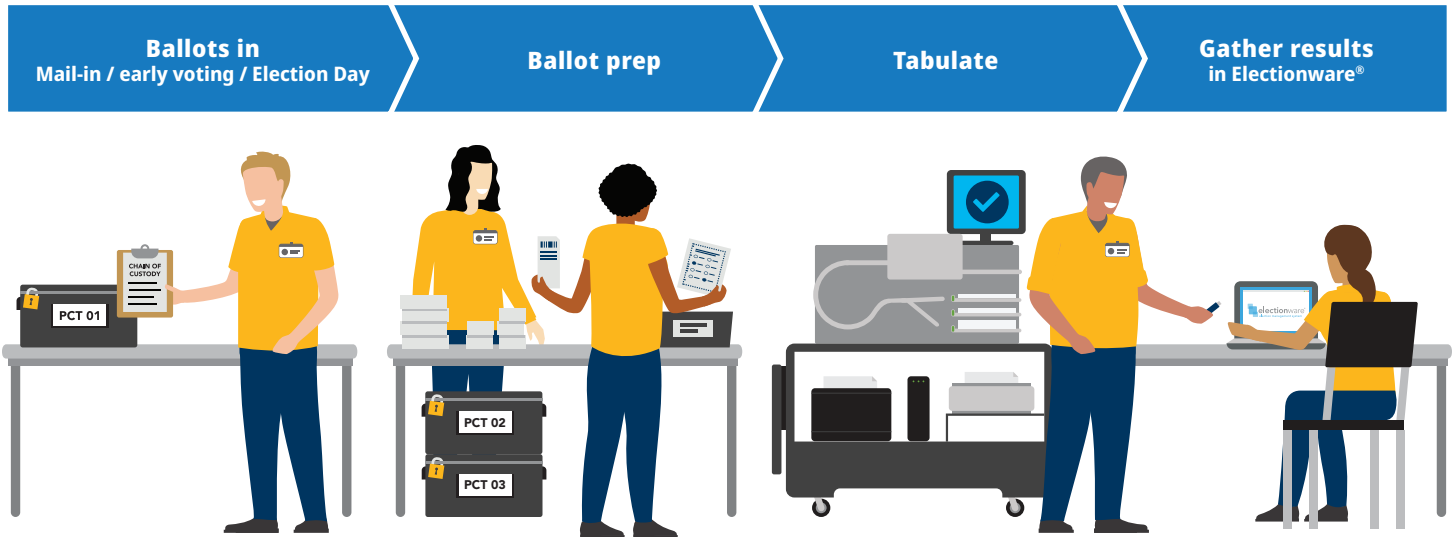- Requires further review
- Write-ins
- Counted

Complete ballot control from start to finish

Let the DS450 handle scanning, separating and sorting ballots, all without missing a beat. All ES&S tabulators scan ballots in any orientation – no need to make sure ballots are face-up and top-edge first before scanning.

72 14-inch flat ballots processed per minute

Process more ballots in less time

Ballots in Mail-in / early voting / Election Day	Ballot prep	Tabulate	Gather results in Electionware®

What you *don't* get with commercial-off-the-shelf (COTS) tabulators:

- **Purpose-built equipment.** Election experts designed ES&S tabulators specifically for elections.
- **Fewer scanning interruptions.** ES&S tabulators scan and tabulate previously folded and damaged ballots.
- **Customizable sorting.** ES&S tabulators allow for user-definable, real-time sorting, including both physical and digital ballot management.
- **Longer product life.** ES&S products are engineered with industrial-grade components, ensuring a 5-7 year production and service parts supply. Our parts manufacturers are dedicated to maintaining form, fit and functional equivalents when an inevitable change comes. This allows ES&S to support our products typically 10+ years.

Security you can count on®

The DS450 offers so many security features, we couldn't include them all here. To learn more about the great lengths we go to protect our systems and data, visit **essvote.com/feature/security**.

> " Our machines were humming along like a choir on Christmas Eve ... It was incredible to watch."
>
> **Brian Kruse**
> **Douglas County, NE**
> **Election Commissioner**