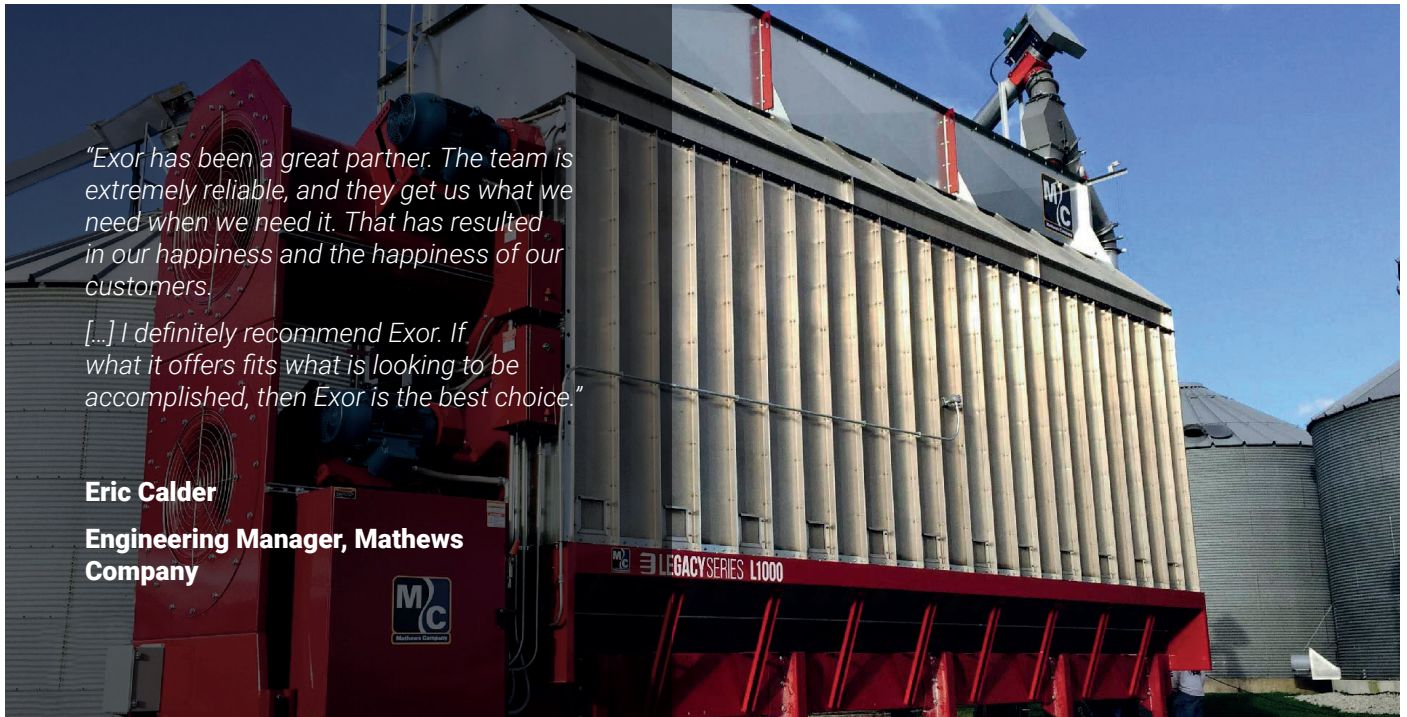


# Mathews Company Customer Success Story by X Platform



Founded in 1954, Mathews Company is specialized in the production of continuous-flow grain dryers and mixed-flow dryers. Today, Mathews Company is recognized as a grain specialist and leader in the industrial farm equipment sector.



*"Exor has been a great partner. The team is extremely reliable, and they get us what we need when we need it. That has resulted in our happiness and the happiness of our customers.*

*[...] I definitely recommend Exor. If what it offers fits what is looking to be accomplished, then Exor is the best choice."*

**Eric Calder**  
**Engineering Manager, Mathews Company**

## Story Overview

**Headquarters:** Crystal Lake, Illinois, USA

**Sector:** Agricultural Equipment

**Employees:** 50

**Machinery digitalized:** ~ 150 per year

**Year of Partnership:** 2016

**X Platform:** HMI & IPC + Edge Visualization

## Project Summary

X Platform employed to Mathews Company case: just over a decade ago, it operated all of its grain-drying equipment with buttons and switches, and knobs with lights that communicated the equipment's status. Even though this way of operating equipment was common in the industry, Mathews Company sought to do better.

## Mathews Company's Challenge: gearing up for modern technology

Doing better meant discovering a more effective and efficient way to control and monitor the company's equipment.

In 2010, Mathews Company's initial attempt at technological advancement with the installation of a low-resolution touchscreen proved insufficient.

Problems included the touchscreen's small size, limited graphical capabilities, and memory constraints that affected the equipment's responsiveness and the complexity of information it could handle.





Mathews Company stuck with the configuration for four years before deciding to take a different, more creative route.

Addressing the limitations in its initial efforts to modernize control systems, Mathews Company embarked on a rigorous development phase to rectify the issues identified.

This involved a few years of dedicated research and development with a small team of engineers to ensure a more robust solution for the control system challenges.

# Mathews Company's Solution: the touchscreen flow

Mathews Company was looking for the following features and critical attributes to modernize their equipment:

-  A fully touchscreen-based control system to drastically minimize the use of physical controls to only essential emergency stop switches
-  A dual-screen setup for built-in redundancy, with each control panel operating identical software
-  A touchscreen with low input or display lag time
-  A user-friendly interface for an efficient operational experience



## Our Technology: X Platform

Hardware

**HMI eX710:** a dual, 10-inch screen, an integrated control panel within the machinery structure for machine operation visualization and control. Thanks to its computing power, it collects data and categorizes them into dashboards. Panel navigation is facilitated by the touchscreen. The double mounting guarantee the proper functioning of the machinery in the case of alarm monitoring or even in the event of a failure on one of the two screens.



Software

**Runtime Software JMobile:** license uploaded on eX700 series. JMobile enables machines to adjust to a diverse range of communication protocols, enhancing efficiency through the utilization of a singular technology.

## X Platform Results



### Reduced Problem-Solving Time

Because all the error messages are in the Human-Machine Interface, they are easily seen on the screens



### Improved Efficiency and Reliability

The innovative dual-screen setup notably improved operational efficiency and reliability



### Modernized User Experience

The user-friendly interface facilitated a shorter learning curve and minimized operational errors



Your Challenge,  
Your Solution,  
Our Technology

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