



MAMMOTH
MANUFACTURING INC

Mammoth Manufacturing

Case Study

MICROMAIN



Mammoth Manufacturing

AT-A-GLANCE

Nearly



\$4 Million

ANNUAL REVENUE



\$435,222

Since its founding in 2013
(steadier than the industry)

**ANNUAL REVENUE
GROWTH**



Meeting high manufacturing standards

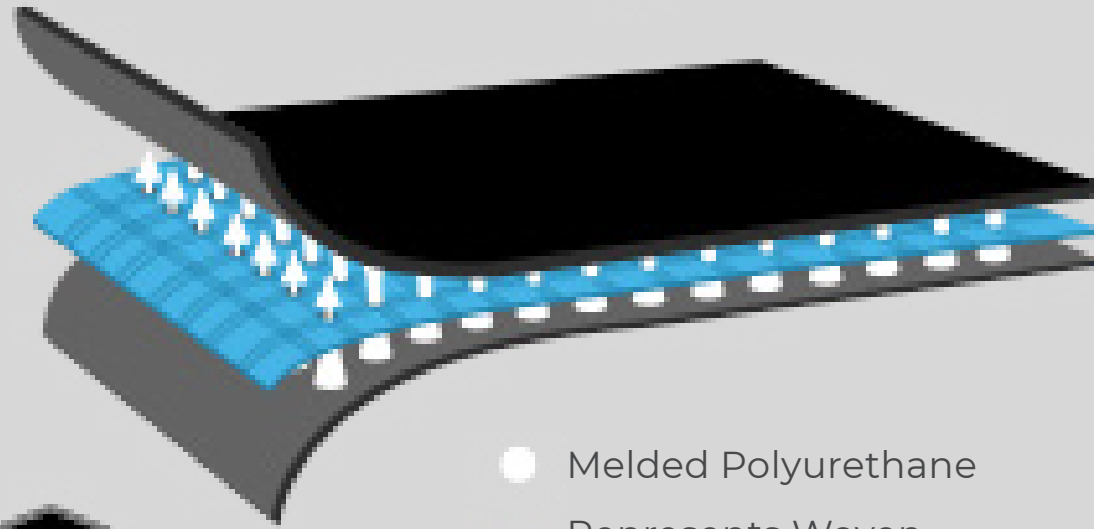
Introduction

Manufacturing maximum-durability products used in high-stakes situations—such as major construction projects and agricultural irrigation systems—requires the use of expensive assets that must be in optimal operating condition at all times. Unfortunately, many otherwise successful companies find themselves plagued with preventable machine failure and unscheduled downtime, leading to revenue loss and poor quality control.

Mammoth Manufacturing, an industry leader in custom heating, ventilation, and air conditioning equipment (HVAC) found itself in this position, which is why it turned to MicroMain's CMMS software.



Extruded-Through-The-Weave



- Melted Polyurethane
- Represents Woven Reinforcement Jacket

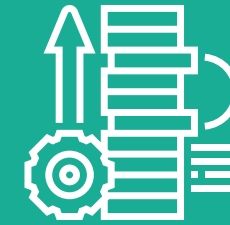
The Story of Mammoth Manufacturing

Since opening its doors as the Brown Sheet Iron and Steel Company in 1935, Mammoth has introduced many technological changes. Founded in 2013 in Oklahoma City, Mammoth is the North American distributor for Grand Alliance Industrial, one of only three or four companies in the world that produce 12-inch lay flat hoses used for the delivery of water in construction or irrigation. Mammoth specializes in the rental and distribution of lay-flat hoses suitable for use in water transfer rental equipment.

Mammoth prides itself on its unique manufacturing process for extruded-through-the-weave hose that doesn't involve the use of tubes or adhesives. Instead, Mammoth uses a unique one-step procedure using thermoplastic polyurethane (TPU). The result is a hose with a homogenous single wall of reinforced polyurethane: smooth, tough, resistant to abrasion and weathering, and ready for heavy-duty service under the harshest conditions.



Technicians were missing crucial work order information, which slowed them down



A long maintenance backlog led to more emergency maintenance



Increased downtime reduced productivity and led to costly repairs

Why Mammoth needed a CMMS

Mammoth primarily serves clients in the oil and gas sector—highly regulated industries where companies routinely average [27 days](#) of downtime per year, costing them \$38 million annually. Consequently, tight quality control is a top priority for ensuring Mammoth's products are up to par.

Mammoth began working with MicroMain in the year 2000 as part of the company's new maintenance excellence program. The company wanted to increase the capacity of its team of technicians who serve its manufacturing plants.

The first step? Eliminating time-wasting activities. Next: increasing wrench-on time (the percentage of a technician's shift spent on actual maintenance tasks) by automating data entry and other administrative tasks.

Prior to using MicroMain, Mammoth used a manual system for maintaining its facility and equipment. Consequently, the company was locked into a vicious cycle of backlogged maintenance tasks, which caused preventive and routine maintenance tasks to be neglected. As a result, technicians had to intervene in more emergencies—leading to more downtime and costlier repairs.

Starting small, going big

Increasing the maintenance team's capacity was a major challenge—and an urgent priority—considering the team is responsible for Mammoth's multi-million-dollar sheet metal equipment, paint booths, welding machinery, overhead cranes, and water test tanks in addition to the entire facility, grounds, and support systems.


When Mammoth first partnered with MicroMain, they initiated a pilot project to implement MicroMain's CMMS software in the sheet metal department, which was a top maintenance priority.

The company created and executed a preventive maintenance plan for 12 high-priority assets, then rolled out the CMMS to the rest of the plant and grounds, which included nearly 800 assets. With the CMMS, maintenance technicians and a planner/scheduler are now able to easily schedule preventative maintenance and focus on preventing problems rather than resolving them.

Implementing a new way of working

Before using a CMMS, technicians would spend a lot of time chasing down parts, manuals, and other items. Now, technicians can view OEM recommendations, inventory location, and even supporting images within the work order.

- Streamlining the work order process has made technicians more efficient, driving down the organization's overall Mean Time To Repair (MTTR) while enabling technicians to move more quickly from one job site to the next.
- Having efficient technicians increases the maintenance team's capacity, which enables the plant to conserve staffing costs.



*"We hit our multimillion-dollar sheet metal system with it upfront and it paid off tremendously," "We immediately realized that we were **getting our work orders out on time, completing our preventive maintenance and corrective work promptly, and reducing our problem areas and emergency work.**"*

JEFF NEVENHOVEN TECHNICAL SUPPORT MANAGER AT MAMMOTH HEADQUARTERS IN CHASKA, MINNESOTA

Starting small, going big

When Mammoth began looking at CMMS vendors, they saw that many systems were very expensive. With prices starting at \$89 per admin license and \$39 per technician license, MicroMain's Global CMMS enabled Mammoth to pay only for what it needed.

"With MicroMain, we get everything that the competition offers and more, for a fraction of the cost," said Nevenhoven

Mammoth's maintenance staff didn't have much exposure to computer systems, so having user-friendly software with access to training was important. MicroMain provided robust training specialized for admin and user roles to enable Mammoth's maintenance team to quickly get up to speed.

"MicroMain's trainer did an excellent job helping train all of the users here at Mammoth," said Nevenhoven. "In fact, our lead technician was able to complete the training via a conference call on a laptop computer. He had no computer experience at all, but the trainer was able to familiarize him with the software quite easily."

The Results

In addition to eliminating administrative busywork, MicroMain's CMMS helped streamline Mammoth's daily maintenance process. Each day, new work orders come in, get processed, and closed out. In addition to tracking people, parts, machines, preventive maintenance tasks, and inspections, the computerized system provides a daily procedure that enables work to get done efficiently and effectively.



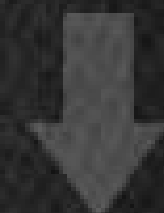
Work orders are processed, assigned, and closed out quickly



Inspections and preventive maintenance tasks are done on time



Fewer emergencies, lower maintenance costs, and increased productivity lead to good vibes all around!



LESS ELONGATION



Successes Mammoth had after working with MicroMain



Facility maintenance costs are down by 52%



Overtime is down by 48%



More work is getting done with 42% less manpower



Reduced emergency maintenance



Inspired by Mammoth's story and want to reduce unscheduled downtime and maintenance costs at your manufacturing plant? Get in touch with our sales team for a free, no-strings-attached consultation. If you want to see our CMMS in action, click here to [book a demo or start a free trial](#).



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