



The northern Michigan company invested heavily in a new state-of-the-art facility, showing its commitment to its core customers and the whole industry.

BRIAN SANDALOW, ASSOCIATE EDITOR

hen AFS Corporate Member EJ broke ground on its new metalcasting facility in February 2017, it was an

important milestone for the company and its commitment to its future and the industry as a whole.

The plant, in Warner Township near Elmira, Michigan, signaled the beginning of the company's next era in its northern Michigan home. EJ is a privately owned business with members of the fourth and fifth generation of the Malpass family actively involved in the operations. The corporate headquarters are in

East Jordan, Michigan, where the company was founded over 135 years ago.

By modernizing its operations,

EJ was founded in 1883, and the construction of the new foundry represents the single largest investment in the history of the company.

EJ was illustrating its investment in the future. It decided to transition to electric melting and discontinue producing brake drums, while focus-

ing on EJ's core products: access solutions for water, sewer, drainage, telecommunications and utility networks.

Two years later, the sprawling plant covers 7 1/2 acres on a 200-acre plot of land and is fully operational as the company was able to keep its 340 employees working. At the intersection of US Highway 131 and Michigan





The new facility rises above the northern Michigan landscape, and is on a 200-acre plot of land.

All photos courtesy of EJ

BUSINESS BIO

East Jordan, Michigan www.ejco.com Founded: 1883 Employees: 340

The Basics: The new facility in Warner Township near Elmira, Michigan, houses four electric melt furnaces and two molding lines. The site is 200 acres, and the building is 7 1/2 acres.

Quotable: "Everyone is really pleased with the outcome of the new foundry. The construction of the new foundry represents the single largest investment in the history of EJ." - Tom Teske, vice president and general manager of the Americas for EJ.

State Highway 32, the modern facility rises out of the northern Michigan landscape. Efforts to buy the land and power the facility were successful. Inside, the lights are welcoming and bright, and much of the equipment is brand new.

"Everyone is really pleased with the outcome of the new foundry. The construction of the new foundry represents the single largest investment in the history of EJ," said Tom Teske, vice president and general manager of the

Americas for EJ. "We are pleased we have a family group of shareholders with a long-term view of investing in our business."

But getting to the final outcome wasn't easy. It meant continuing production in the older plant while the new one was being completed 15 miles away. Land wasn't readily available, not to mention land with the right soil to handle a massive new foundry and everything else required. Northern Michigan winters aren't easy for

anybody, let alone construction crews. Finding those construction crews and all the necessary tradespeople was challenging thanks to a strong economy that has kept workers busy.

"There's got to be a lot of perseverance," EJ president Tracy Malpass said. "Some things are going to happen, and you'll have to work your way through them. There's been a lot of sleepless nights for all those involved in the project, but we've learned a lot and are better for it."



Mark Aepelbacher, director, cast products, is seen at the core set line.

Those sleepless nights, however, are paying off. On October 25, 2018, the company hosted an open house at the new plant, and production is now humming along. For the investment in its future, EJ has been named the 2019 Metalcaster of the Year by Modern Casting.

Making the Move

In September 2016, EJ announced it would be retiring the East Jordan foundry, located there since 1883. The retirement of the operation came with excitement, as employees learned the company would build a new, state-ofthe-art foundry just 15 miles away.

The shift to more modernized operations and staying close to its original location are examples of the company's dedication to growing the business, servicing its customers, and the importance of retaining a dedicated and loyal workforce.

"Once the decision was made to build the new foundry, communication to our employees was our top priority," Malpass said. "Our leadership team carefully planned the communication to all employees. During the construction and move, multiple videos, pictorial updates, pamphlets, and meetings were used to keep employees informed. We were excited about the project, and we wanted to ensure our employees were informed and excited too."

"When the move was announced, we conveyed why," said Mark Aepelbacher, director, cast products. "We needed to keep our employees informed, all while ensuring that we continued to support production and safety at our original foundry in East Jordan."

As Aepelbacher mentioned, EJ not only took on a large construction project, but continued operations at its East Jordan facility until the move was completed. This allowed the company to continue providing for its customers and maintain jobs for its employees, so they could shift to their new work location.

The project started with the complicated task of securing land. The property required certain soil conditions, access to roads, power,



The electric furnace melting deck is one of the changes for EJ at its new facility.

well water, and the correct permits, among other necessities. The process to find land within 15-20 miles of East Jordan, which was expected to go quickly, lasted nearly six months.

Purchasing the land was one aspect but getting power to the site was an additional challenge. Due to the transition to electric melt, standard power would not suffice. Connecting a nearby high-voltage electrical distribution line required EJ to work with site neighbors to acquire additional property and easements.

Once the land and power were taken care of, EJ had to get around to another task: building the facility.

"The design and equipment selection phase was exciting," said Todd Ingalls, director, facilities engineering & support. "We were tasked with selecting equipment that would support our environmental and safety expectations, as well as increase our efficiencies."

While designing the foundry, EJ focused on environmental responsibility. Since a high amount of environmental controls are at this site, the environmental impact is reduced. The air pollution control equipment is highly efficient, the melting equipment does not use fossil fuel, and there is no

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—Tracy Malpass



Construction carried on during the winter months.

release of process or non-contact cooling water from the facility.

The company also worked to reduce noise and lighting while controlling storm water.

To help plan the facility and manage the project, EJ turned to AFS Corporate Member Kodiak Group, which partnered with EJ's Facility Engineering Support team to design the process flow, engineer the building, and manage the construction of the project. AFS Corporate Member Simpson Technologies supplied the sand mixing and cooling equipment, fellow AFS Corporate Member Otto Junker designed and

installed the electric melting and pouring system, while AFS Corporate Member Sinto was responsible for the new green sand molding line and relocating an existing molding line from the old foundry to the new one. AFS Corporate Member Haley & Aldrich was selected for environmental design and permitting.

Many of those names had worked with EI on their Ardmore, Oklahoma, foundry that was completed in 2001. That familiarity helped, as did the experience of having built a foundry within the last 20 years.

Though the support from vendors and suppliers was key, finding construction and tradespeople to erect the building proved to be difficult. Given a strong economy, construction crews were somewhat difficult to find, and they also had to be prepared to build through the tough Northern Michigan winters.

Malpass estimated construction



productivity during the winter months was about half of what it normally would be, given the weather. EJ kept safety top-of-themind and made decisions to support the safety of the construction crews and their own employees. Wind gusts meant cranes would be shut down, temporary walls and heating were added to protect crews from the elements, and safety features were added to prevent hazardous working conditions.

Keeping It Going

To keep the business moving forward, EJ built up inventory prior to transitioning to the new facility. It also relied on the Ardmore location to ramp up production to cover customer demands.

That wasn't the only challenge the company had to beat.

"Once the transition started to the new foundry, we faced some

"Our employees have been resilient and willing to learn new processes and procedures."

—Scott Nachazel

challenges simply learning the new operation. The two most difficult challenges were starting up on 20 hours of production per day and the change from cupola to electric melting," said Scott Nachazel, facility manager. "Our employees have been resilient and willing to learn new processes and procedures."

Teske echoed that sentiment, and made it clear what the new building says about EJ's future.

"This new foundry demonstrates that we have the capacity to supply high-quality products to U.S. markets while protecting worker safety and doing so with the very best environmental controls available," Teske said. "It also demonstrates to our customers that we're committed to being a leader in this industry, that we have unmatched capabilities and resources, and that we'll be here for the long haul."



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