

Berry Metal and NOL-TEC Systems form exclusive partnership. State-of-the-art pneumatic lime injection technology for the steel industry

Berry Metal Company (BMC) is proud to announce that it has entered into an exclusive partnership with Nol-Tec Systems (Nol-Tec) to engineer air injection systems that provide high efficiency delivery of lime used in the steel making process. The pneumatic systems significantly increase material flow rates while allowing injection of a much wider variation of particle sizes.

Nol-Tec's dense phase pneumatic conveying system, utilizing its industry leading M328 Fluidizer and Air Assist™/Smart Assist™ technology, maintains continuous low pressure flow throughout the piping system, allowing the use of lime sizing/gradients from lime dust up to 1 ½" without clogging.

Existing systems push high air pressure at the front of the system but they lose air pressure via pressure drop during transport from silo to furnace, resulting in reduced flow rates and clogging. The Berry/Nol-Tec systems eliminate this issue—providing a reliable and constant air flow through the entire process, eliminating clogging and flow issues.

Additionally, the systems are completely self-contained and sealed, eliminating lime yield loss while preventing lime dust from contaminating the work environment.

"This new state-of-the-art system developed between Berry and Nol-Tec has revolutionized lime injection systems in the steel industry," said David Werner, President of Berry Metal Company. "Our system incorporates Nol-Tec's patented Air Assist™ and Smart Assist™ technology with Berry's patented Lime Injector/Burner technology to solve the



Berry Metal and NOL-TEC Systems partner to produce state-of-the-art pneumatic lime injection systems.

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News Release



longstanding issues with traditional lime injection systems. Our system allows for fluctuations in particle sizing, eliminates clogging, and accelerates the lime particles into the bath for better yield and efficiencies in the steel making process. We are extremely excited to be working as exclusive partners with Nol-Tec.”

The Berry/Nol-Tec lime injection systems are custom designed—from silo through injection into the furnace including all controls, valving, transporters, piping, injectors, and HMI screens in pulpit—to fit each customer’s specific needs.

“Nol-Tec and Berry Metal’s innovative application of its patented technology to solve a longstanding and complex problem in the steel industry makes for an exciting partnership” said Todd Larson, President and CEO of Nol-Tec Systems. “Not only does our collective technology lead the industry, but our two companies collaborated extremely well throughout the project development phase and that gives me confidence about the future success of working exclusively with Berry’s team. We look forward to rolling out this technology and solving more bulk material handling challenges in the steel industry.”

About Berry Metal: The Berry portfolio includes chemical energy, lime injection, carbon injection, ladle and tundish preheaters, cooling panels, leak detection systems, repairs, and engineering in and around the steelmaking, ironmaking, and caster areas of steel production. Utilizing this deep experience in the steel industry, Berry Metal will lead the collective partnership efforts to introduce the pneumatic technology into the market, focusing on system design, construction/project support, implementation, and commissioning.

About Nol-Tec Systems: Nol-Tec is recognized as a global leader in the design and manufacture of pneumatic conveying equipment for the processing of dry bulk materials. We have experience handling hundreds of different products from a wide range of industries enabling us to deliver reliable and cost-effective bulk material handling systems. Our in-house test lab provides clients with the confidence they need to make informed decisions about their new system design, upgrade or retrofit. Industries include automotive, battery, bioprocess, biotechnology, building materials, ceramics, chemicals, fiberglass, food, glass, mining, oil & gas, steel, plastics, tire & rubber, and air pollution control. (www.nol-tec.com)

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