

Steel Dynamics's New Flat Roll Mill to Use Berry Metal Chemical Energy and Lime Injection Technology.

Oxy-Gas Burner, Water-Cooled Housings, Valve Stands, Air Assist Lime Injection.

Berry Metal Company (BMC) has announced that the company has been selected by Steel Dynamics to engineer and supply the Chemical Energy Package and Lime Injection System for its new state-of-the-art Flat Roll Mill in Sinton, Texas. Berry is currently working on these projects, which will be installed and commissioned in the first quarter of 2021.

The Chemical Energy project scope includes construction and supply of custom designed V-Max™ Oxy-Gas Burners housed in BMC DuraForge™ water-Cooled Boxes along with Valve Stands to provide optimum chemical energy for the plant's new Texas EAFs.

“Our patented V-Max™ Burner Technology maximizes the oxygen and natural gas mix, providing increased penetration into the bath, to ensure optimum chemical energy for the EAF,” said George Boy, President of Berry Metal Company.

The Lime Injection System—which is bolstered by Berry's exclusive partnership with Nol-Tec Systems—incorporates patented Air Assist and Smart Assist transport technology to deliver enhanced injection efficiency into the furnace via Berry's patented Lime Injectors. The system utilizes low pressure continuous flow and senses any change in pressure—indicating a potential clog forming. The system automatically adjusts air pressure to keep the lime flowing.

“The unique benefit of our lime injection system is that it allows steel producers to successfully flow various gradients and sizing of lime particles from lime dust up to 7/8” nominal sizing without clogging,” said Boy. “That is game changing.”

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