

InfoSight Custom Solutions – Mold Powder Feeder

Using Automation Expertise for New Technology

"We Barcode Difficult Stuff." InfoSight is known for marking barcodes and readable data on products where a paper or plastic label will not survive. The custom equipment InfoSight makes gives customers a safe, reliable, and consistent means to automatically mark their metal products. Recently, InfoSight engineers applied their expertise in automation to a different kind of application.

Problem: Applying mold powder to a continuous caster is normally a manual job. This exposes the employee to safety hazards, and can lead to thickness inconsistencies in the application of the powder.

Solution: InfoSight developed an automatic, closed loop Mold Powder Feeder, providing automatic and consistent application of mold powder and a safer work environment.

Mold Powder is added to the caster to protect the molten steel from air as well as to provide lubrication between the steel and the mold. InfoSight developed a Mold Powder Feeder that measures the amount of mold powder on the top of the mold and adds the powder as necessary. The feeder continuously moves back and forth across the width of the mold. Moving in one direction, a laser sensor measures the amount of powder. In the return direction, an auger feeds out the necessary powder to keep the level constant. Use the link below to view the video for further understanding.



Left: The Mold Powder Feeder at the InfoSight shop. Middle: The Control Panel. Right: The Mold Powder Feeder in Action at a steel mill.