



"TC/American" Hot Metal Carrier System

Features and Benefits

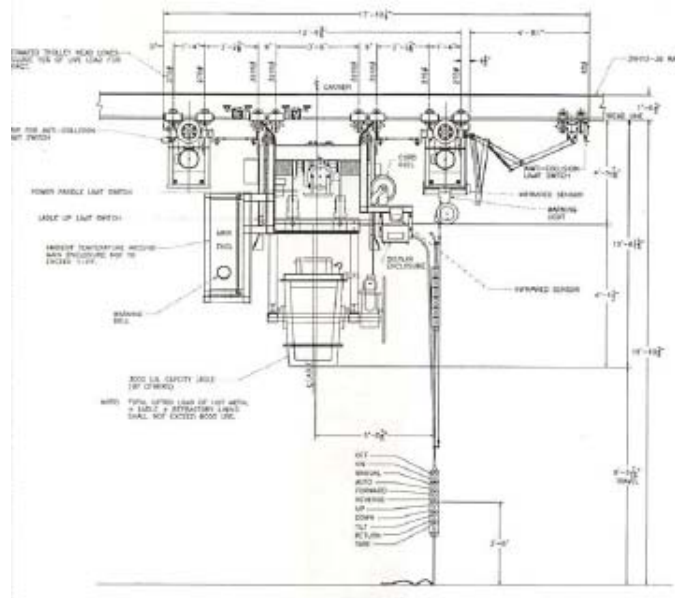
Safe (infrared transmitter)

Efficient (weighing system)

Easy to operate, reliable

Can be custom-designed (anti-collision system – strobe light flashes when carrier is energized, bell sounds as carrier travels between stations, etc.)

Industry Group: Monorail Manufacturers Association, Inc. (MMA)



Once the transfer of hot metal to the ladle is complete, the operator can dispatch the carrier automatically to the pouring stations with the touch of a button. Process has proved to be safe and reliable, with low maintenance.

When Victaulic, a manufacturer of fire protection and HVAC equipment, decided to expand its current facility they needed a way to transport hot metal from furnaces to auto-pouring stations. In order to perform this process, they required a system that would be safe, efficient and easy to operate. The company they turned to was TC/American Monorail, Inc., a company they have depended on in the past for expert material handling solutions. They wanted 3 autodispatched, hot metal carriers that could carry heavy loads and be equipped with an onboard weighing system.

TC/American's engineers designed a highly functional and dependable material handling system that will serve Victaulic's needs well into the 21st century. The new system consists of three hot metal carriers: two are in use while the third is used as a back-up. The carriers travel on a closed loop monorail system which is routed around the foundry. A glide switch and spur track provide easy access to the maintenance areas where the third carrier is stored.

Anti-Collision System Each carrier has a strobe light that flashes when the carrier is energized (a bell sounds as the carrier travels between stations). This safety feature consists of a trolley riding on the monorail connected to the carrier by a jointed arm. When the trolley hits an obstruction the arm collapses and trips a limit switch (disables forward motion control signal and sets brake). This unique material handling system proves again the versatility and practicality of cranes and monorails designed and built by TC/American Monorail.



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