



## **Reduce melting labour and Increase Productivity using Automated Monorail driven molten Aluminium pour ladle, 1500 kg/hr**

Aluminium die casting foundries with more than 5 electric holding furnaces, each with a capacity ranging from 500, 800, 1000 to 1400 kg, will require precise, timely refills to cope with production needs.

CMTS's Automated Monorail driven molten aluminum pour ladle, each ladle with a pour capacity of 60 or 80 kg, is capable of refilling aluminium melts to holding furnaces at the rate of 1500 kg per hour. This highly efficient molten aluminium transporter can be designed to dispense molten aluminium to more than 12 holding furnaces.

Another advantage of our design include the ability to switch the ladling of molten aluminium from one Central Tower Furnace to another Central Tower Furnace. This feature is particularly beneficial to the client when one Central Tower Furnace stops for prolonged maintenance work.

In the past, automated pour ladle equipment is unable to operate if the Central Tower Furnace had to be shut down for maintenance, thus reducing the productivity of the die casting foundry.

With CMTS's advanced automation technology, productivity in the aluminum die casting foundry can be maintained with only one Central Tower Furnace still operating.



The primary motivation of automating the dispensing of molten aluminium from the Central Tower Furnace to the individual holding furnaces serving the high pressure casting machines was to make the pouring more consistent and safer. Pouring with a ladle mounted on a forklift has been practiced to this day, but some impurities almost always managed to get into the ladle, and the height of pour encourages the accumulation of gases within the melt which can be detrimental to the melt quality.

One way to correct this problem is to ensure that dispensing is done in a smooth, non jerky fashion and the height of pour is limited and well controlled. This can be achieved using CMTS's Automated monorail driven molten aluminum pour ladle equipment.

Please contact us if you need to improve pouring productivity within your die casting foundry.

