

FOX FLOWMETERS IN ALUMINUM PLANT APPLICATIONS

Aluminum plants require precision gas flow measurement instruments to improve their cost-per-pound of product. Worldwide aluminum prices and automotive industry demands are driving the requirement for improved flow measurement solutions. Fox Mass Flowmeters can be used in the following applications:

1. Nitrogen Annealing - Nitrogen is generally supplied by an on-site gas plant. Mass flow measurement is used to allocate costs and identify "wasters", such as leaks in the line or a purge left on to a non-operating annealing oven. Nitrogen is also used as a carrier for the fluxing process and to purge piping systems.
2. Turbo Air Cooling - In continuous casting operations, the aluminum ingot is cooled via compressed air and water. Mass flow measurement of compressed air injection rate improves the air-to-water ratio and hence, the cooling efficiency. Fox flowmeters are ideal for this application.
3. Utility Applications - Fox Mass Flowmeters can be used for internal billing of natural gas to their smelting, casting, annealing, and milling operations. Piping constraints make the Fox In-Line Flowmeter a great choice because the built-in flow conditioner eliminates the need for long, straight pipe runs before the meter.



Common Gases: Air, ammonia, biogas, butane, chlorine, compressed air, carbon monoxide, carbon dioxide, digester gas, dump gas, ethane, ethylene, helium, hydrogen, methane, mixed gases, natural gas, nitrogen, oxygen, and propane.
Contact Fox for other gases.