API-Cecomp Group n'fo

Technical & Application Notes

Application: Monitoring power usage on motors and compressors

Type Of company: Steel Plant

Location: Ohio

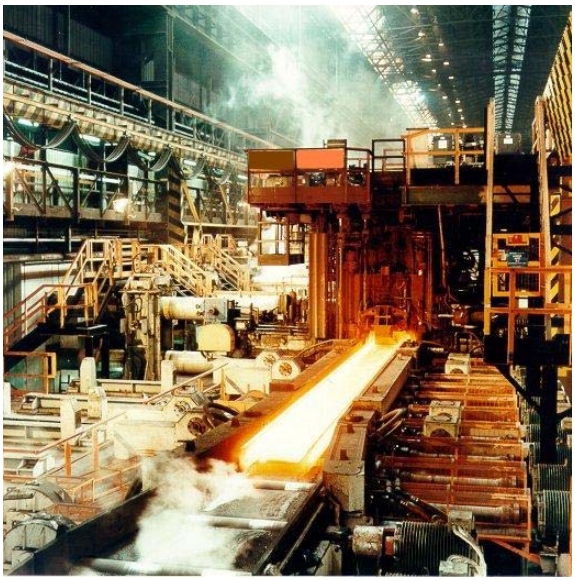
Problem: The customer is a steel mill. A steel mill is an industrial plant for the manufacture of steel and a mini-mill is traditionally a secondary steel producer. However, some of the world's largest steel producers are using mini-mills exclusively. Usually it obtains most of its iron from scrap steel, recycled from used automobiles and equipment or byproducts of manufacturing. A typical mini-mill will have an electric arc furnace for scrap melting, a ladle furnace or vacuum furnace for precision control of chemistry, a strip or billet continuous caster for converting molten steel to solid form, a reheat furnace and a rolling mill. Most of the energy usage is from the furnace and the motors inside the plant.

Note: For additional information on steel mills see http://en.wikipedia.org/wiki/Steel_mill

The customer has a requirement to monitor power usage and efficiency on compressor and feeder motors and integrate this information into the plant control and power monitoring system.

Solution: The customer purchased a Camille Bauer Model A210 with EMMOD203. The installation of the A210 during the monthly maintenance shutdown gave the customer a cost effective visual power monitor. The EMMOD203 allowed the customer to fully integrate the energy information into their plant control and power monitoring system which allowed them to reduce operating costs.

A210



Benefits of API's solution:
Accurate monitoring of energy usage
Very cost effective
Use a standard product

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