



foto-captor



foto-captor remote system



laser-captor



proxi-captor

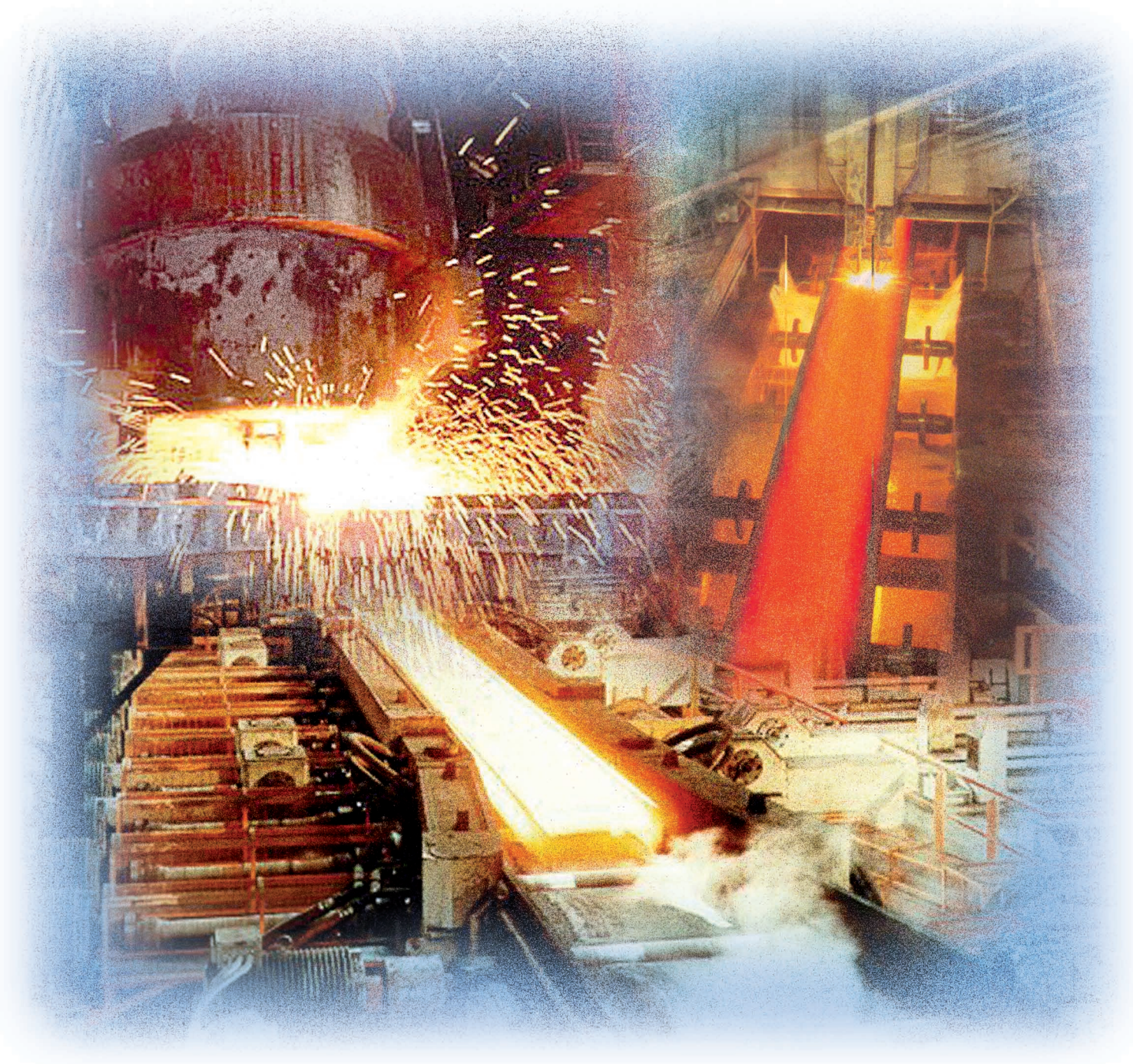


flow-captor



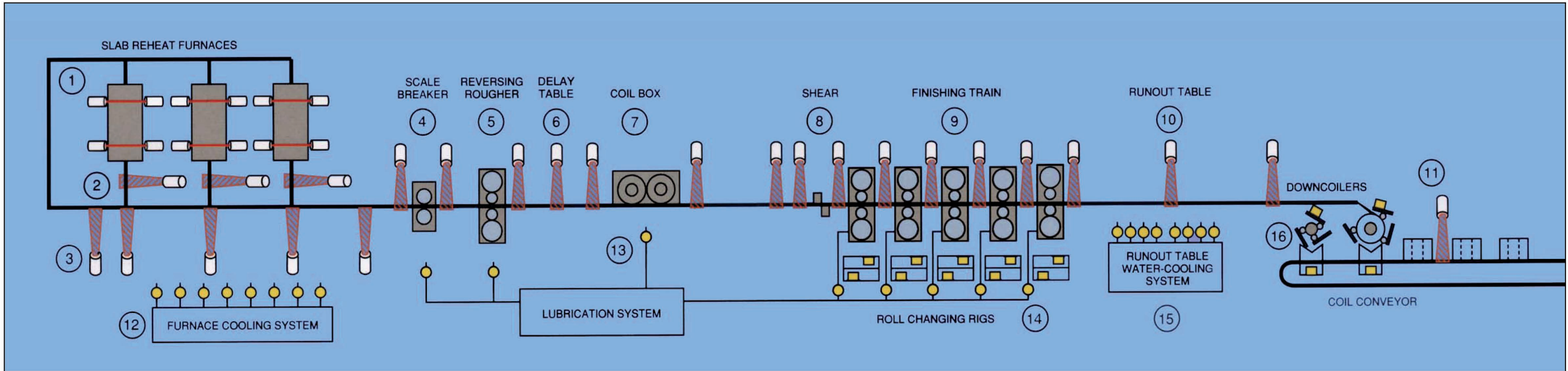
flow-captor smart meter

Overview – Sensors for Steel Mill Applications



6/2006 Overview Steel Mill © copyright by weber Sensors

You spent millions on the computer that controls your hot strip mill.



Now, don't skimp on the sensors that guide it.

Your computer is a marvel. It can adjust roll gaps to incredible tolerances ... automatically switch cooling headers if a valve gets clogged ... and sequence multiple operations during coil changeovers. If it gets false signals, however, it will roll off-gauge strip ... foul up metallurgical properties ... and cobble the strip at the coilers. Yes, your computer knows **how** – but your sensors tell it **when, where, and how much**.

- laser-captors** 1. Monitor slab movements in furnaces.
- foto-captors** 2. Initiate tracking and close furnace doors. 3. Monitor slab positions. 4. Initiate scale breaker operation. 5. Detect entry and tailout at rougher. 6. Determine position of transfer bar on delay table. 7. Monitor coiling and uncoiling of transfer bar at coil box. 8. Initiate shearing cycles. 9. Detect entry and tailout at finishing stands. 10. Signal operation of cooling headers. 11. Position coils for banding.
- flow-captors** 12. Monitor furnace cooling system. 13. Monitor lubrication system. 15. Monitor runout table water-cooling system.
- proxi-captors** 14. Verify position of quick roll change rigs. 16. Protect wrapper rolls, coil cars, and downenders from collision.



Weber **foto-captor** hot metal detectors (HMD's) track the metal from slab rehear furnace to exit - coil conveyor. They respond only to infrared energy within the view field: they won't confuse your computer with "maybe" signals from visible light, steam, cooling water, or scale. **foto-captors** feature sealed construction in rugged stainless steel housings, two-wire AC power with short circuit protection, and the ultimate in simplicity – no adjustments. Available options include remote lens systems, water-cooled jackets, and air purges.

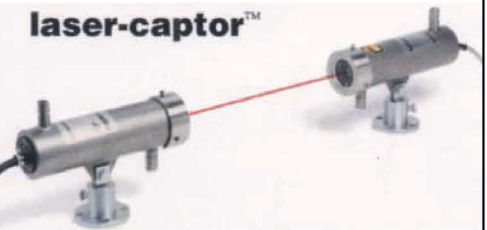


Upgrade your cooling and lubricating systems with Weber solid-state **flow-captors**. They have no moving parts, yet they can measure flow – or flow and temperature simultaneously – without intruding into the stream. Our digital **flow-captor** system not only monitors flow and temperature, but also processes the information for direct input into your control system.



The environment around your downcoilers is the pits – flooding water, steam, grease,

dirt, and heat. But Weber's 2025 proxi-captors take it all in stride. Completely waterproof, they function just fine submerged in 10 feet of 140°F water. They fit in places only 4" square by 1.5" high. For reliable collision protection, put **proxi-captors** on your quick roll change rigs, wrapper rolls, coil cars, upenders, downenders, and side guides.



Powerful **laser-captors** reliably track slab movement in rehear furnaces. Built-in features eliminate the problem of heat turbulence refractions. As safe as a light bulb, the **laser-captor** requires no vision protection or other precautions.

Weber **captor** sensors cost a lot less than you might think. You can give your hot strip mill computer reliable input at a very affordable price. Let us analyze your mill operations and recommend the right sensors, locations, and mountings for your **captor** system. If you like, we'll also arrange an in-plant demonstration. Based on remarkably simple concepts, **captor** sensors are built to last. Put our 35+ years of experience to work for your company— call us today at + 49 4128-591

