



Key Benefits

- Optimised billet length measurement
- Reduced scrap
- Reduced manning levels
- Improved throughput

Eye to the future | Window on the world

Summary

The system was designed to cut steel billets into shorter lengths, using a cold shear, before the steel is pushed into a furnace and then on to the main rolling mill. By accurately cutting the steel into the “best” lengths, more finished products could be made and the overall cost per product reduced.

Despite the fact that the raw billets were of a defined specification, the tolerances used were sufficiently wide that accurate measurement of the incoming billets was essential to determine the “best” cut lengths. The harsh nature of the environment and the deviations in shape of the raw billets meant that the reliability of the equipment to produce accurate measurements was paramount. Weight measurements were determined by the existing load cells but the length measurements were made using a laser device, engineered to scan over a defined path until the end of the billet was detected. Using the weight and length data in conjunction with information provided by the operator about the nature of the final product, allowed calculations to be made to determine the “best” lengths to automatically set the cold shear to.

Equipment Used

- Motorola based machine
- Avery L116 Weight Indicator (Existing Equipment)
- 1 x Field 1000 Unit with 8 Ch D/I, 8 Ch D/O
- IBEO PS30 Laser Sensor
- Geotronics TCS4000



If you would like to find out more about this application, please contact the sales office who will put you in touch with the original Systems Integrator.

Turnkey Systems - Shear Optimisation