

Billet Weighing

Billet Weighing in Continuous Casting Process

Application Process Weighing

Industry Sector(s) Steel and Other Metals

The Customer

One of the world's leading steel producers.

Customer Inquiry

The customer was looking to improve the cutting of billets in its continuous billet caster. The main goal was to control the weight of billets. This meant installing a system that would provide better production supervision. The billets themselves vary in size from 120 mm² to 140 mm² in area and 9 m to 11 m in length. Weight ranges from 1.1 to 1.6 tons.

Solutions and Equipment

Several alternatives were considered. In the end, Nobel proposed a solution in which the billets would be weighed in the ripper area. The main considerations were the high temperatures involved, and the need to synchronize lifting of the billet in order to perform the weight measurement in a fast, secure, and stable manner. The operating temperature is lower in the ripper area, so the Nobel solution required fewer components—making it easier to install and maintain.

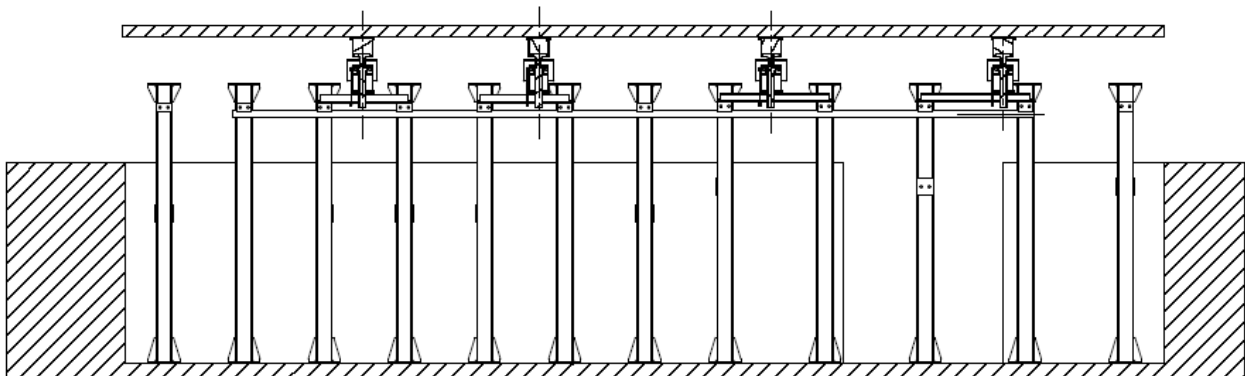


Figure 1: Ripper Section lifting and weighing system

BLH / Nobel Weighing Systems Brands of VPG Process Weighing

Iberfluid Instruments, our distributor in Spain, constructed a hydraulic lifting system including the weighing function. The equipment supplied by BLH / Nobel included a mechanical block with cylinders and load cells and the G4 instrument for weight display and communication to the customer's PLC system and operations room.

Key Features:

- *High accuracy and fast*
- *Good control of production*



Figure 2: Hot billets

Customer Comments

The Nobel weighing system, and the engineering solution provided by Iberfluid, is the best solution to supervise our production, improve the cutting system and manage the interdepartmental assignment of cost production.

“High level of service and solution”

Click here to open the Web version: <http://www.vishaypg.com/process-weighing/case-study/41058/>

(web version offers links to product datasheets and related documents including manuals, brochures, and any available videos)

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