

BLH / Nobel Weighing Systems
Brands of VPG Process Weighing

Weighing System for Production Monitoring

Application Process Weighing

Industry Sector(s) Mining

The Customer

A Swedish manufacturer of vertical plate pressure filter machines, and systems for filtration of metallic minerals, industrial minerals, coal, and tailings.

Customer Inquiry

The customer's system is designed to filter out valuable minerals from mud. The filter is filled with mud containing minerals and then pressed to remove water and waste products, leaving only the minerals behind. Then the minerals are removed from the filter. Load cells are used to verify that all minerals are removed and that the filter is empty, so the process can start all over again. The customer asked for an accurate weighing system, with high repeatability that could be integrated with a programmable logic controller to ensure that filters were thoroughly emptied after cleaning. It was specified that the solution must not affect the mechanical design and structure of the filter.

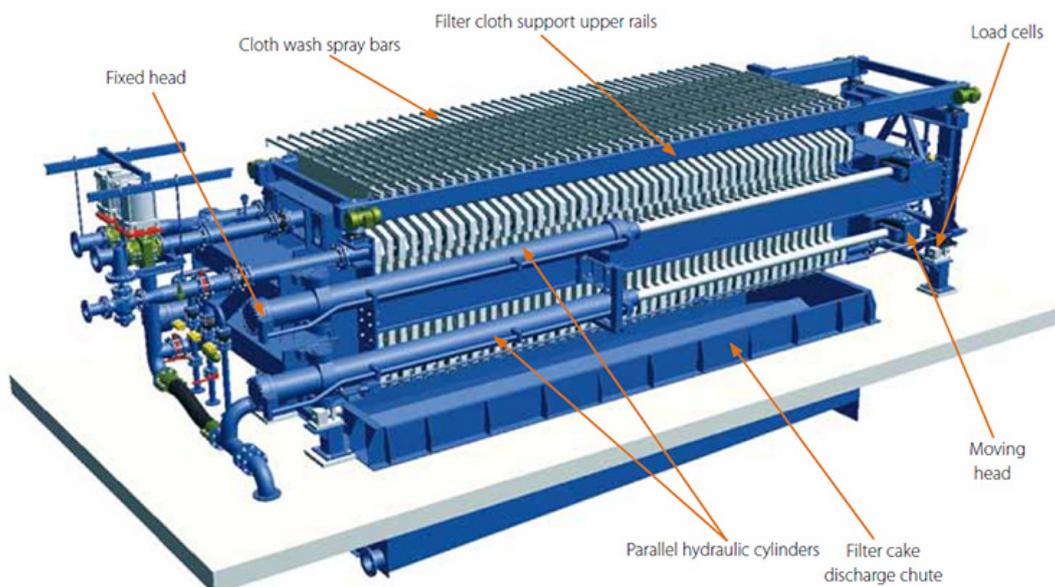


Figure 1: Vertical Plate Pressure Filter

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Solutions and Equipment

Our solution was to install two KIMD-1 500kN and two KOM-1 200kN weigh modules, plus two AST 3P transmitters with special software for integration with the PLC.

Products used in the system

- 2 x KIMD-1 500kN
- 2 x KOM-1 200kN
- AST 3P with special software for the summation
- 2 x SL-4 SS junction boxes

Key Features:

- Easy installation, no extra mounting
- Rugged and built for harsh environment
- Movable load point (KIS principle)
- High accuracy

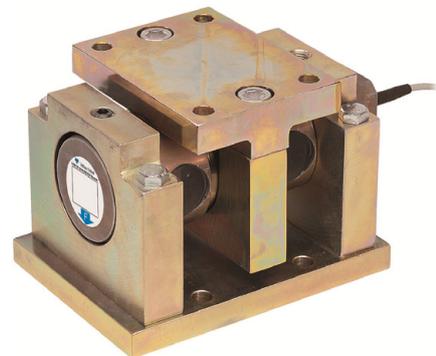


Figure 2: KIMD-1

Customer Comments

The system is very reliable and accurate for the purpose of the filter.

“We’ve never had any warranty issues on the weighing system”

Click here to open the Web version: <http://www.vishaypg.com/process-weighing/case-study/41013/>

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

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