

## Weighing on a mobile and pivoting hopper

**Application:** Process Weighing

**Industry Sector(s):** Others

### The Customer

The customer produces ceramic floor and wall tiles for bathrooms and other applications

### Customer Inquiry

The customer uses a range of different powders in its production process. The powder is mixed with water and then the mixture is poured into mold. The challenge was to find an accurate system for batching the powder into the hopper and transporting it into the mixer. The customer wanted to use an electrical car running under the silos to collect the powder and then transport it to the mixer, which was placed under the floor level. The nominal load of the hopper was 3000 kg.

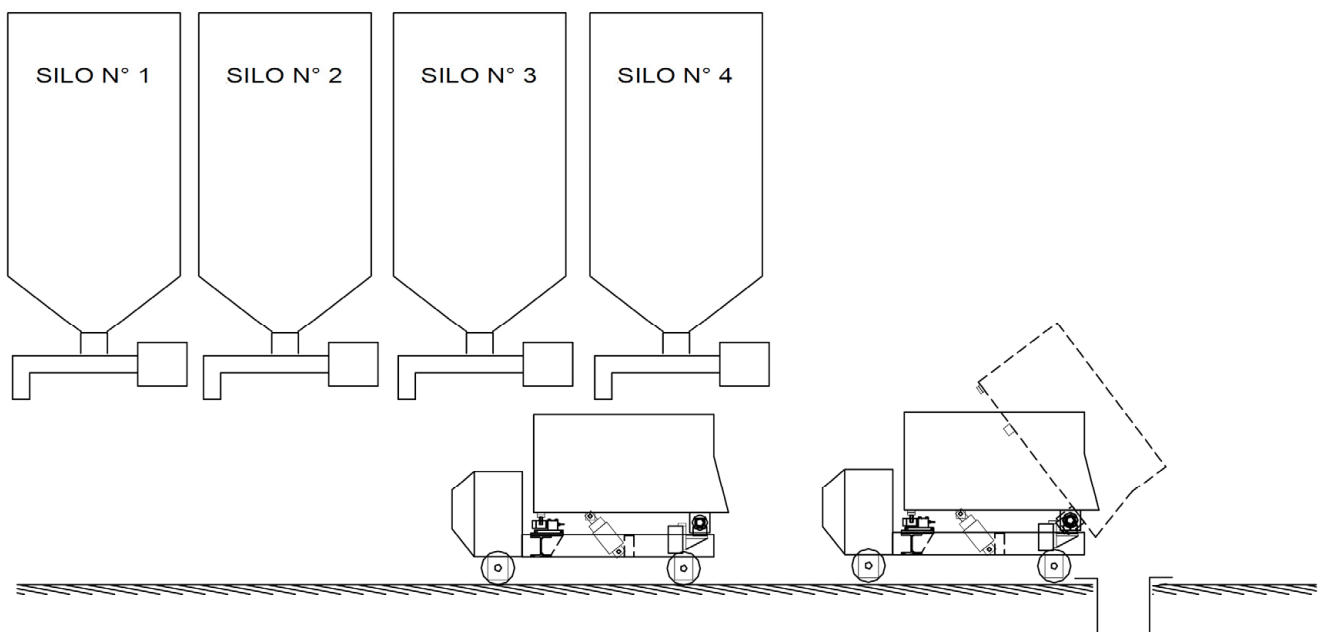


Figure 1: System principle

BLH / Nobel Weighing Systems  
Brands of VPG Process Weighing

## Solutions and Equipment

The solution was to use 3 x KIS8 – 50 kN and one TAD 3 weight indicator. One load cell was placed on the pivoting end with a universal ball bearing mounted on the load cell, and two load cells were placed on the rear end, where the pivoting hopper comes to the weighing position. The TAD 3 weight indicator was powered by the 24 VDC battery from the mobile car.



Figure 2: Hopper with the load cells

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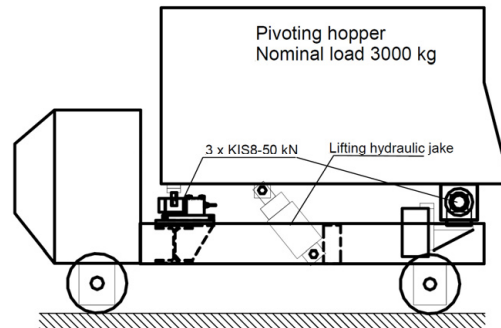


Figure 3: Pivoting Hopper

#### Key Features:

- Easy to install and maintain
- KIS principle
- Accurate

#### Customer Comments

“This excellent solution is very accurate. Our product quality and accuracy were improved as a consequence of its installation.”

***“Reliable and accurate system from a quality supplier”***

Click here to open the Web version: <http://www.vishaypg.com/process-weighing/case-study/41010/>

(The Web version offers further hyperlinks to up-to-date product datasheets and other related documents like manuals, brochures, videos, and many more)

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