

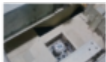
## Nivoflader in a dusty application between double filling system

### The Challenge

The largest producer of animal feed in China needed a continuous level measurement for 15m high storage tanks for various powdered feed materials for the production of animal feed. It should work without contact to the product and meet the dynamic filling process via two filling lines. The application is very dusty. In addition, there are metal strands in the tanks, which make the installation and the function of a level sensor more difficult.

### Our Solution

The continuous measuring radar sensor Nivoflader NFD100 was the best solution in this application. The sensor operates at a frequency of 79 GHz and has a beam size of only 4°. As a consequence of this, the diameter of the beam is only about 1m. The sensor could be optimally placed and aligned with the flexible adjustment flange on the tank discharge. Thus, the metal strands were not in the measuring range of the beam. The high frequency of the sensor also provides an optimal echo confidence in this very dusty application. The standard air purge device for the lens antenna did not have to be activated.



### Products



#### NFD 100

##### Contact measurement

- 79GHz FMCW Radar Level transmitter
- Suitable for use in almost all solids
- Fixed flange and adjustable flange option
- Measuring range up to 100m
- Connection to our user-friendly visualization systems Nivocal 3000/4000 possible using e2Cloud-logic