

Carmel Olefins increases production efficiency and reduces maintenance using Rosemount 3D Solids Scanner

RESULTS

- Reliable volume measurements enable efficient production management
- More efficient filling and emptying operations
- Improved monitoring of the entire process
- Minimized maintenance costs



APPLICATION

Volume measurement of polypropylene

CUSTOMER

Carmel Olefins, Israel

CHALLENGE

Carmel Olefins (CAOL) is Israel's sole manufacturer of petrochemical products used as raw materials for the plastics industry. CAOL manufactures standard and special grades of polypropylene (PP) and a broad range of low-density polyethylene (LDPE) grades.

CAOL was using other level measurement technologies, including mechanical Yo-Yo, both guided wave radar and non-contacting radar, ultrasonic, and laser, but had encountered difficulties with each technology. The difficulties included high maintenance costs, unreliable readings, and poor monitoring of raw materials during the process.

Knowing the volume of material and the remaining capacity of the tanks were key elements in efficient production management. CAOL needed to know the amount of materials in the tanks during filling from the production line and emptying into the trucks.

With the other technologies, frequent maintenance was needed to keep them working so a reduction in required maintenance was desired

The 3D Solids Scanners require minimal maintenance and are able to provide volume measurement throughout the entire fill and empty cycle.



3D Solids Scanner mounted on the silo

ROSEMOUNT

For detailed product information go to
www.rosemount.com/level


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SOLUTION

Rosemount 3D Solids Scanners were mounted on 20 of CAOL's silos, containing both raw materials and final products. They each required only a short installation and start-up time.

The self-cleaning scanners require minimal maintenance and are able to provide volume measurements throughout the complete fill and empty cycle of each tank.

To manage the contents of all their silo's, Carmel Olefins installed the 3D Multivision system. This allowed them to visualize and measure the contents of all their tanks on a single screen.



Rosemount 3D Solids Scanner

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