

MicroBulk Solutions Gas Management System

The Chart MicroBulk Advantage

ORCA Delivery

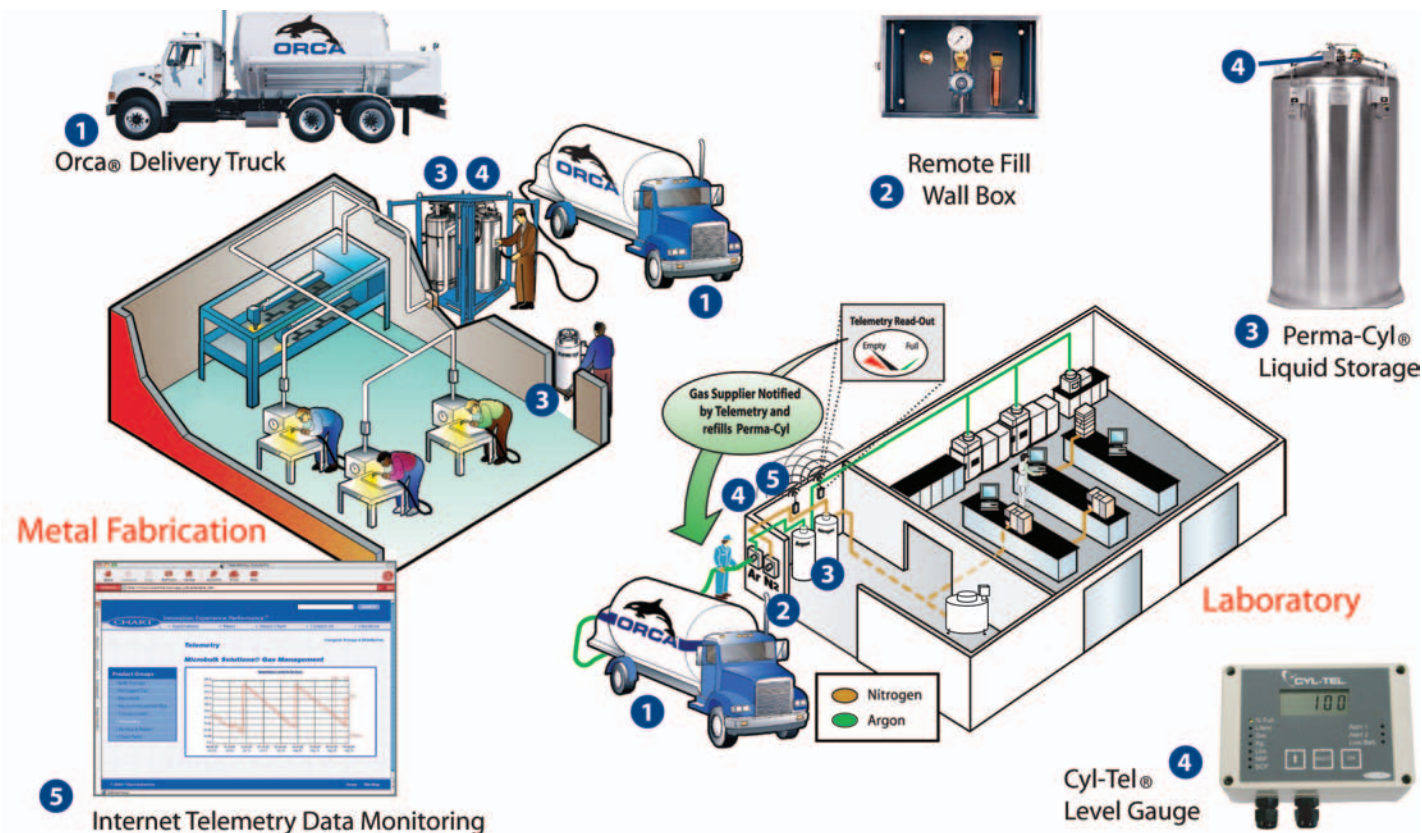
- ▶ Fast, reliable, accurate filling
- ▶ On-site refilling reduces your costs
- ▶ Provides better gas management

Perma-Cyl Storage

- ▶ Installed and dedicated to your application
- ▶ Eliminates cylinder handling
- ▶ Achieve a higher purity gas supply

Cyl-Tel Remote Monitoring

- ▶ Eliminates product run-out
- ▶ User-friendly contents read-out
- ▶ Guarantees a continuous gas supply



1 Liquefied gases are delivered to the customer's facility with the ORCA cryogenic delivery truck. Key controls and components on the ORCA allow the driver to safely and quickly deliver the proper amount of liquid accurately into the Perma-Cyl storage vessel or small bulk tanks.

2 When the Perma-Cyl storage vessel is installed indoors, an external wall box can be added for remote filling. This allows the gas delivery to safely take place without the driver entering the building in most installations.

3 Liquefied gases are stored at ultra-cold temperatures in the vacuum-insulated Perma-Cyl. Customized controls for the application on the Perma-Cyl maintain the vessel at the proper delivery pressure and deliver gas or liquid on demand.

4 The Cyl-Tel electronic level gauge accurately monitors the cryogenic liquid level and is telemetry ready for remote monitoring or connection to customer monitoring systems.

5 Telemetry systems allow the gas supplier to remotely monitor the Perma-Cyl liquid level to maximize delivery efficiency without the risk of product outages.

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