



Enhancing Safety, Productivity and Savings

Case Study: INEOS Chemicals

The Situation

INEOS required a method of distribution and control of portable gas detection equipment which would allow the company to audit the usage, safety performance and maintenance of items in use, in multiple locations across its chemical site in Grangemouth.

The Challenge

Providing gas detection to workers in any environment, particularly those requiring PPE for hazardous environment operations, involves important interactions with safety processes, systems and management.

INEOS required a method for dispensing vital gas detection equipment using a controlled, recordable and auditable process which would improve the performance of equipment stock, and maximise safety management for its workforce.

The Solution

Dräger Safety developed the Rental Robot – an automated ‘vending’ and equipment dispensing system – to store and track the usage of wearables such as personal gas detection monitors, breathing apparatus and other associated equipment, which must be regularly tested and serviced to ensure their reliability.

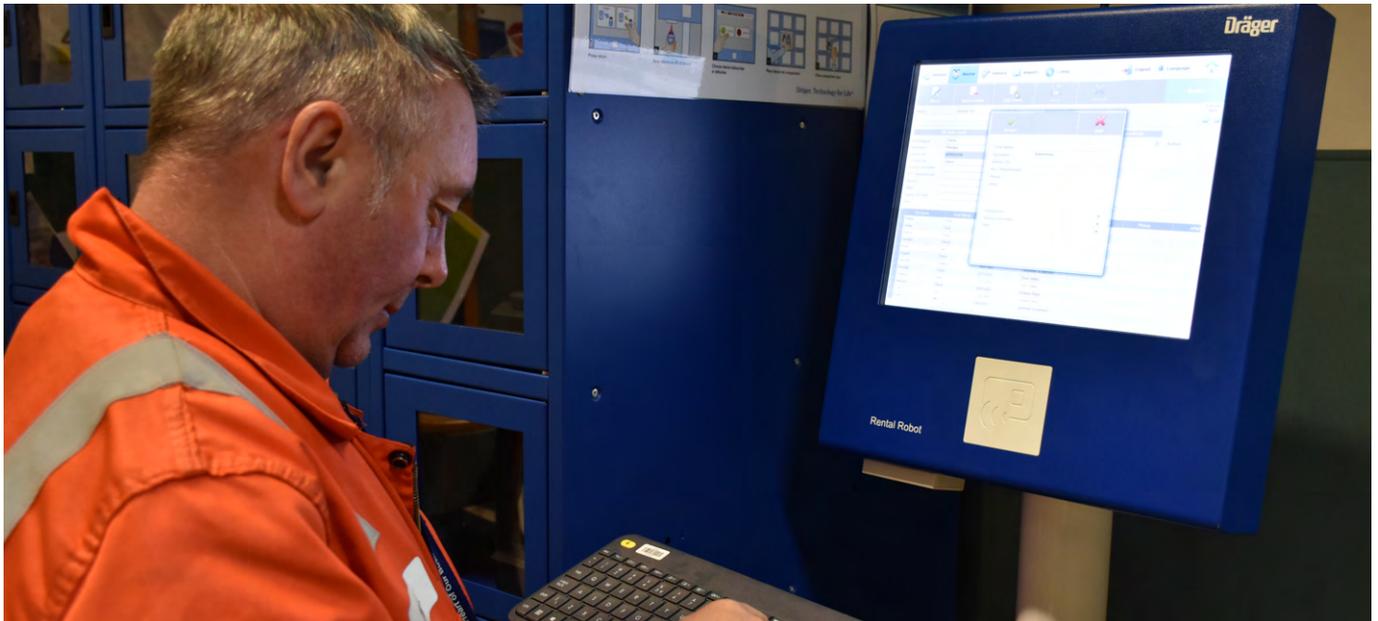
After training, personnel are issued a barcode on their site access pass which allows them to collect their gas detection equipment from the system as part of their mobilisation to a worksite.

Based on stored user information, the system will identify which products the employee may require, displaying them on an intuitive touchscreen. It will then dispense only the products they are trained in or certified to use from the list.

The system also processes returns. An analysis of items such as usage data, damage or other issues can be provided to INEOS Health and Safety or procurement colleagues, giving them an overview on cost saving and an auditable trail of the equipment used by their employees and contractors.

An easy touch screen is linked to the badge for easy equipment tracking.





The Results

Software which manages the dispensing lockers in the robot is coded to ensure that an item which has been returned but is not functional cannot be re-issued to another person.

This assures operations teams that equipment which has been bump tested ready for use will always be provided to those presenting their barcode before reporting for work.

In situations where items are not returned within an allotted time, information can be downloaded and shared with client management to ensure that appropriate action can be taken to recover the equipment.

While principally designed to manage dispensing, track usage and improve reliability, the system's configuration significantly saves on time – with the dispensing of a gas monitor completed and ready for use in less than **2.5 minutes**.



Some 19 Rental Robot systems have been deployed for INEOS in 11 locations across their **Grangemouth chemical site** – the largest complement anywhere in Europe.

This allows INEOS' people to focus on completion of worksopes without delay, eliminating unnecessary, often multiple requests for equipment, and reducing the risk of disabled equipment being used.

Benefits at INEOS

- **Operational Readiness 24-7- 365 days.** Gas detectors were fully charged and ready when Operations needed them for a permit.
- **Confidence in Proper Calibration** with an auditable trail. The Rental Robot provides an extra level of assurance. Equipment was also bump tested daily and status reports could be run for audits on the safety equipment at any time.
- **Accountability** - The Rental Robot system tracks who has an instrument and for how long. Monitors and equipment could always be traced to a user, creating 100% accountability, while also reducing the cost of replacing lost equipment.
- **Cost Savings** - Use of Dräger's Rental Robot helped save time and money on preventative maintenance, work notifications, written work orders and contractor man-hours for equipment maintenance. Rental Robot systems are linked to a Dräger engineer, who has access to each location, is able to view the system's status from a workshop, and can prioritise works accordingly. Dräger technicians are available onsite, ensuring all gas detection equipment is maintained and ready for use.

CONTACT

Dräger Safety UK Ltd
Unit 2, Tern Place
Bridge of Don
Aberdeen
AB23 8JX

Tel: +44 (0) 1224 701569
Email: aberdeensales.uk@draeger.com
www.draeger.com