

4hSolutions and Magnor Plant

Process	Manage the on-going maintenance inspection schedule
Users	Safety Equipment Team
Hardware	RFID tags and handheld computers
Software	Assettagz
Location	Nationwide (UK)



Business Problem

As part of the Morgan Est group, Magnor Plant is responsible for carrying out a thorough examination of every piece of equipment across all of the group's construction sites on a rolling six-monthly basis. They needed a way to reduce paperwork. Post-inspection administration and time spent re-keying data was getting out of hand: inputting up to 30 pages of results could take three or four days to complete, which then meant a delay of up to two weeks getting the final inspection report back to site.

Business Solution

Assettagz allows Magnor Plant to track and inspect its safety equipment and lifting gear to ensure total site safety. Each piece of safety equipment, including fire extinguishers, breathing apparatus is tagged with a plastic RFID tag which is then scanned ahead of the equipment being delivered to site, so when the time comes to inspect them, Magnor know which site they are at.

Magnor use **Assettagz** to manage and monitor inspections on their lifting gear at its multiple construction sites across the UK.

Background / Process

Magnor Plant Limited, part of the Morgan Est group, provides modern lifting equipment, safety equipment, plant, vehicles and accommodation units to all of Morgan Est's construction sites.

Morgan Est projects range from railway and highway to housing and commercial property. The company is based in Rugby, Warwickshire and turnover for the group in 2009 exceeded £799m.

Safety is paramount at Magnor Plant so they needed an error-proof system to manage the on-going maintenance inspection schedule of lifting and safety equipment at its many construction sites across the UK.

Solution

Safety equipment, such as fire extinguishers and breathing apparatus need to be inspected on a regular basis. With 30 to 50 supplied on average on each site, Magnor use a range of breathing equipment including Chemical (oxygen) escape breathing apparatus and Emergency Escape Breathing Devices similar to those used by the fire brigade. Its safety equipment is costly to replace and was prone to getting damaged, lost and in some cases even stolen. Magnor use now Assettagz to control of the issue and return of its safety equipment. RFID tags are applied to each item which are then scanned as each asset as issued out and returned to site.

Magnor Plant also use **Assettagz** to manage and monitor inspections on their lifting equipment on a six month rolling basis at multiple sites. They worked in close collaboration with the 4hSolutions consultancy team to design a set of inspection forms that met Magnor's exact requirements. The system has now been live for 18 months and Magnor have over 20,000 items on the system.

Benefits

Using **Assettagz**, they have streamlined the entire inspection process and cut post-inspection administration down from three or four days to one with no paperwork.

It has virtually eliminated re-keying which removes the inherent risk of human error.

Previously there could have been a delay of up to two weeks getting the final report back to site. Now because the laptops use GPRS connection they don't even need to go back to the office. They can view, print and sign on the laptops on site and send the report there and then.

Having an audit trail of the inspection history of each assets aids HSE (Health & Safety Executive) compliance.

Now that Magnor track their safety equipment using RFID tags, it is far less likely to get lost, damaged or stolen as staff are more aware of the accountability placed on each of their construction sites.



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