



### Sainsbury's crate washing



Sainsbury's was founded in 1869 and today operates over 1,200 supermarkets and convenience stores and employs around 161,000 colleagues. Kuehne + Nagel's successful partnership with Sainsbury's started in 1999.

#### QUICK OVERVIEW

##### BACKGROUND

Kuehne + Nagel's long and successful partnership with Sainsbury's started in 1999.

##### CHALLENGE

To provide Sainsbury's with industrial asset washing machines to wash the 10 million plastic crates used for delivery and display in stores.

##### SOLUTION

Installation of industrial stainless steel wash machines at the washing and recycling centres.

##### RESULTS

Reduction in wash cost per crate and removal of cardboard packaging by increasing crate usage.

##### BACKGROUND

Founded in 1869, Sainsbury's today operates over 1,200 supermarkets and convenience stores and employs around 161,000 colleagues.

Kuehne + Nagel's long and successful partnership with Sainsbury's started in 1999. Kuehne + Nagel started managing three crate washing sites, and quickly developed into full management of 9 high specification washing and recycling centres across the UK, supported by Kuehne + Nagel's National Asset Control Centre.

##### CHALLENGE

Kuehne + Nagel was tasked with providing Sainsbury's with industrial asset washing machines to wash the Sainsbury's pool of 10 million plastic crates that are used for delivery and display of produce across the store network.

The washing machines needed to wash as efficiently as possible in terms of maximising crates washed per hour, using less water, gas and electricity as possible, whilst meeting strict hygiene standards.

##### SOLUTION

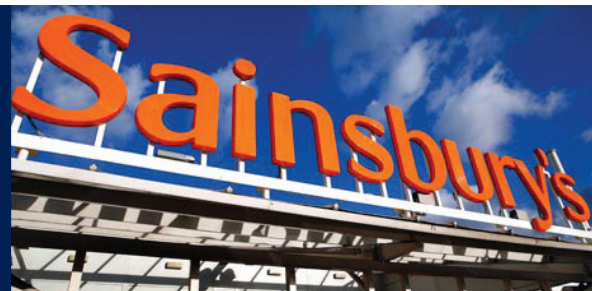
Industrial stainless steel washing machines were installed at the washing and recycling centres, ranging from 2 lane to 4 lane machines dependant on regional demand requirements.

The throughput per hour was maximised. A stainless steel construction was installed to ensure exceptional cleaning of all surfaces featuring a high specification pump and filtration systems, together with a high pressure water jet system to maximise cleaning performance and finalising with an integrated drying system.

Temperature management thermostatically controlled, and automated chemical dosage. Introduction of a washing process which no longer depends on high temperatures, caustic chemicals or wash cycle dwell times. A water reduction management system was introduced.



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Sainsbury's strong culture and values are part of their identity and integral to their success. Sustainability targets have been set by Sainsbury's for future years - reducing 50 per cent of carbon emissions by 2030 is one of them.

### SUSTAINABILITY TARGETS

- By 2020 we'll make sure that our own packaging has been reduced by a half compared to 2005.
- By 2020, through robust water stewardship we'll ensure that our supply chain approach is sustainable in areas of water vulnerability.



### RESULTS

- Reduced wash cost per crate
- Reduction in cardboard packaging by maximising crate usage
- Reduction in utility usage (water, gas and electricity)
- Food safety & customer health focus
- Market leading sanitiser preventing bacterial growth up to 30 days from initial wash
- Ambient water washing provides reduced utility and environmental impact in addition to market leading sanitisation
- Continuous testing of water and asset surfaces
- Washed assets free of Legionella, E.Coli and Staphylococcus - confirmed through independent microbiological testing
- Adherence of dryness levels to ensure moisture weight is maintained to agreed levels
- One service provider - consistent washing standards
- Removing the risk and liability by preventing asset and food contamination