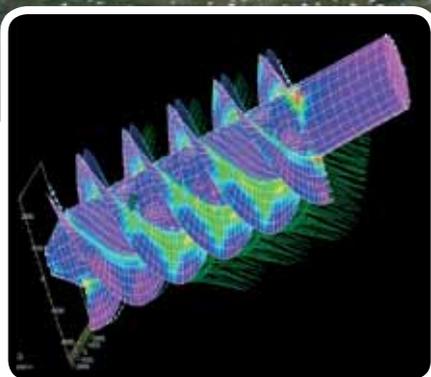
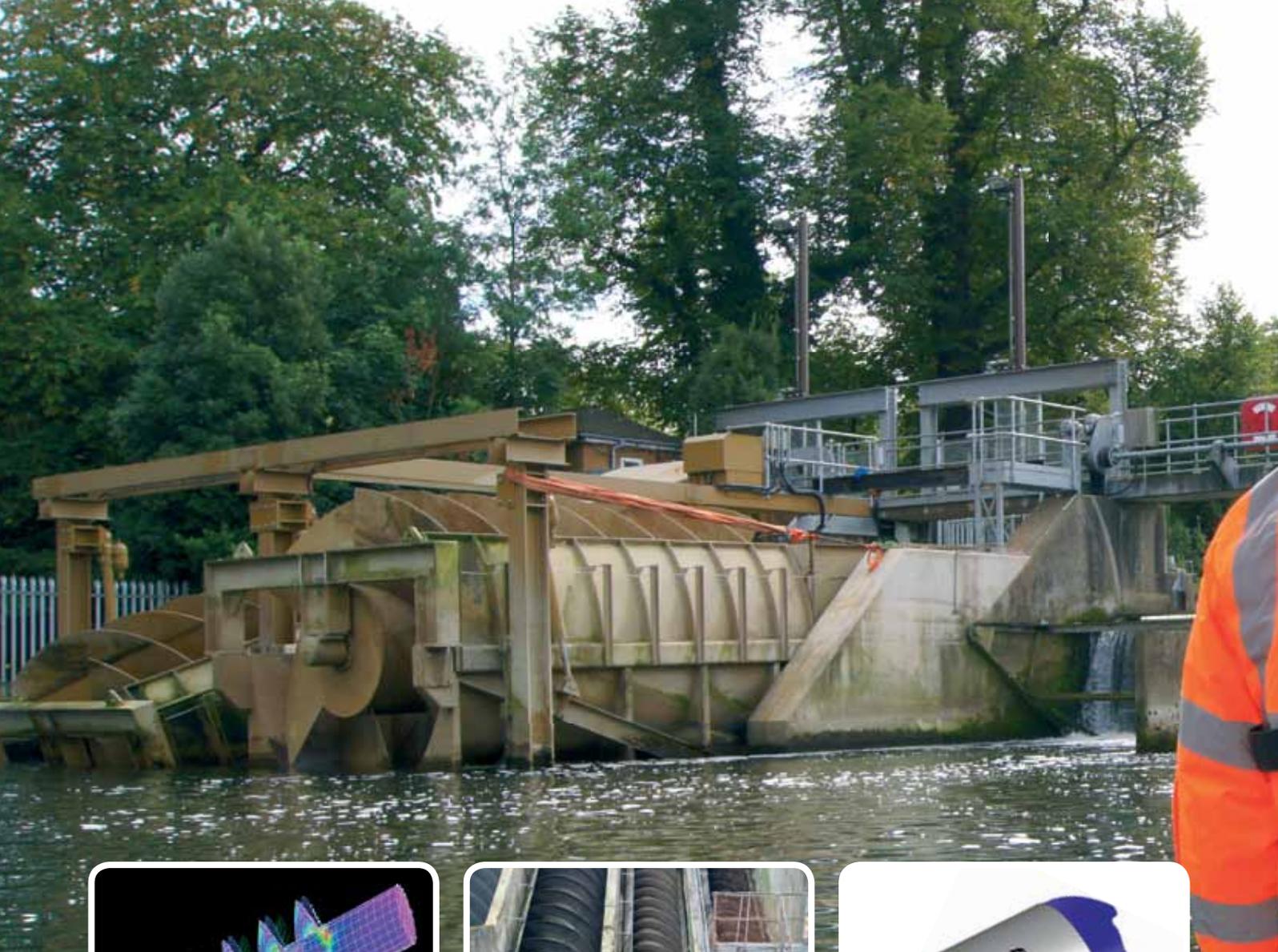


ECS

Water Control 



Archimedes Screw Pumps



Design Excellence

Landustrie has over 100 years' experience in designing and manufacturing Archimedes screw pumps. Using the latest design technologies, Landustrie is able to design a bespoke solution for a wide variety of applications.

Years of research and experience enables Landustrie to design the most efficient solution. Selecting the optimum combination of inclination, pitch/diameter ratio, diameter/tube ratio and number of flights delivers savings in both investment and operation costs.

Benefits of Screw Pumps

The latest designs offer a simple, robust and efficient method of water control, which has a low operational cost and extremely low maintenance requirements. These factors combine to deliver a long service life with minimal cost of ownership.

Each screw pump is custom-made for each project using Finite Element Analysis with the ability to adjust the pump capacity depending on incoming flow.

Fish-Friendly Screw Pumps

For applications in water courses, the screw pumps can be designed to minimise any damage to local fish populations. The blades are manufactured to create a pressure wave in the water to direct the fish into the main water flow.

Testing of these designs has shown that over 98% of the fish passing through the screw pumps remain unharmed. Often combined with fish passes, these installations can allow fish migration where previously it was impossible.

Archimedes Screw Pumps



Turn-key Solutions

ECS Engineering Services has been appointed by Landustrie as the exclusive agent for screw pump supply and service in the UK. For customers looking to install new projects, ECS offers a complete service from the initial site visit, through design, installation and commissioning.

Design engineers will produce bespoke specifications for each individual application which will be installed by qualified and experienced personnel to the highest standards.



Lower Bearings

Landustrie has developed the latest Eco-friendly lower bearing which is sealed for life and requires no annual maintenance. With no grease pump or lubrication lines, it is quicker and easier to install and can be retro-fitted to existing installations to reduce maintenance costs. The bearing can also be fitted with a water-in-oil alarm system both for new systems as well as existing installations.

The design of the Eco-friendly bearing allows for 3-dimensional self alignment, which also absorbs the expansion and contraction of the screw in changing temperatures.



Complete Screw Pump Service

ECS offers a complete range of maintenance and support services for customers looking to maintain or improve the efficiency of their existing installations. ECS has the experience and the expertise to deliver a reliable and efficient solution for every application, including hydropower screws.

In addition, ECS can also provide complete on and off-site engineering services for Archimedes screw pumps from other manufacturers such as Spaans Babcock, Jones & Attwood and Ritz Atro.

Landustrie 

InfraCore 



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