

Consideration of every possibility is the way new designs are made to work for you. When the question has never been asked before there's no stock answer so you need the application of 40 years of engineering design experience combined with self-discipline to achieve your goal without the delay and repetition that can cost you your advantage this competitive world.



FIND THE WAY



The Tasks I take on are quite often the 'Blockage clearing' tasks. Sometimes that extra help to get the project over the line is essential.

This can be:

- concept design
- safety analysis
- project control
- stress analysis
- documentation
- detail design

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THE RIGHT TOOL



Deltabarn Ltd can provide bespoke engineering assistance at a fraction of normal consultancy costs.





All aspects of plant and equipment engineering design are on the table for Deltabarn Ltd

In 1989 Deltabarn Ltd was born. Having an apprenticeship and full technological certificate in Fabrication and welding engineering a BTEC in Mechanical manufacturing engineering 5 years experience in specialised conveyor design, 2 years in Robotic Design and 2 years in Nuclear design.

Deltabarn has worked on Paper machines, cranes, glove boxes, pressure vessels, automation equipment, mixers, gas production plant, nuclear plant, CHP, waste to power plant, municipal waste processing plant, food production equipment, airports, high rise buildings, water treatment, autoclaves and many more. Quite often what is common in one industry is novel and threatening in another. But many of the Deltabarn projects are truly unique.

DELTABARN LTD SUPPLIES SOLUTIONS

The experience gained over 40 years of engineering design together with the highest professional standards will give you the security and technical help that is often required in a time driven world. Deltabarn can help with design work - analysis - risk assessments - bills of materials - concepts - project



SCREEDER IN PRODUCTION: SHIELDED MIXING TANK

As Lead engineer I designed and controlled through production several pieces of bespoke equipment for Magnox. one piece was the concrete box screeder that is lowered on to a nuclear waste box after the concrete is poured to pass a vibrating blade across and smooth the top surface. The nuclear waste is mixed in the shielded mixing vessel weighing 20 tonnes and supported 6 metres above the concrete box.



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CONCRETE FILLER ARM: ACTUATED NOZZLE

The Magnox nuclear waste boxes are filled with concrete by this swing arm filler with actuated nozzle, Here the arm is undergoing Factory Acceptance Tests. This robotic arm can be automatically positioned over the box in a pattern of positions to ensure a complete fill of the box or controlled from the control room as required.



Concrete filler arm at pre FAT test configuration



Filler Arm Nozzle in retracted position.

ALDERLEY PARK ENERGY CENTRE: RE BUILD

On this project a complete entry centre had to be re-configured to take new boilers, CHP engine, pressurisation units, pumps, new cable run, new headers and pipe runs, new AHU's, new Mezzanine and walkways, new stairs and new blowout system. All this had to be planned and designed on site by Deltabarn Ltd with sub-contractors appointed and supervised on behalf of the client by Deltabarn Ltd.



Alderley Park Energy centre upper level



Alderley Park Energy centre ground level.