



STRATA
TECHNOLOGY LTD

Building Pilot Plants for Tomorrow's Research



your
ideas

our
solutions

Your partner in Bespoke Pilot Plant Solutions

Working with you every step of the way

Working with Strata you can be sure that our four-step process will provide you with the right Pilot Plant solution for you. Working in partnership with you we combine our knowledge and expertise enabling you to take proof of concept to industrial scale safely and cost effectively. And as your research needs develop over time we adapt and modify our systems to your changing needs.

"We build our pilot plants around your research and not your research around our pilot plants."

1

Understanding your needs

We believe that a successful Pilot Plant solution can only be created with good planning and thorough preparation: neither of these is possible without building a good relationship at the project outset. The first stage is about getting to know you, understanding your needs and establishing your research objectives.



2

Design

Having the right design does more than set expectations of quality; it demonstrates the strategy and a clear understanding of what needs to be accomplished. We develop your scheme with you, using process diagrams and 3-D layouts to identify the problems before they arise.



3

Build

Stage 3 is the realisation of your scheme. Only when your solution has been built can you really see how your proof of concept physically translates at large scale. With possible issues pre-empted in the earlier phases, Strata operates with maximum efficiency to build to plan.



4

Maintenance/Development

In scientific research there is no such thing as 'the end', as new discoveries are made all the time, and you might need your Pilot Plant to evolve to accommodate change. We can provide maintenance services to keep your equipment delivering quality data, and we are always available to help you develop your equipment as you follow where your research leads.



Visit: www.stratatec.co.uk

We have experience of scaling up unit operations from lab scale to pilot plants.

Reaction systems:

- Fixed bed
- Slurry
- CSTR
- Fluid bed

Fluid flow processes:

- Pumping systems
- Flow instrumentation
- Filtration tanks
- Solids fluidization

Mechanical processes:

- Agitation systems
- Solids transportation
- Crushing
- Pulverising



Mass transfer processes:

- Gas absorption
- Distillation
- Extraction
- Membrane

Heat transfer processes:

- Heating & cooling
- Evaporation
- Condensation
- Gas liquefaction
- Refrigeration

Some of the pilot plants we have designed and built:

- CO₂ Recovery
- Gas to Liquids
- Solvent Recovery
- Hydrogenation
- Polymerisation Plants
- Very High Temperature Thermal Cracking
- Reactive Distillation
- Membrane Dewatering



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STRATA TECHNOLOGY LTD

Strata House, Batavia Road, Sunbury-on-Thames, Middlesex TW16 5LR, United Kingdom

T +44 (0)1932 732340 **F** +44 (0)1932 732341

E info@stratatec.co.uk

W www.stratatec.co.uk