

# Rattlesnake Continuous Crystallisation Concept

Scaleable technology for your crystallisations



Our Rattlesnake is being developed to help you address the many challenges associated with your crystallisation processes.

Our novel design incorporates the control you would expect from continuous processing and effectively applies it to the parameters that influence crystallisation outcomes.

Details of the technology are under wraps for the time being as we are completing the patent application process, however we can give you an overview of the system features:

## Overview

- Uniform mixing and precise temperature control over the entire reactor volume
- Multiple ports for monitoring and analysis
- Features to minimize encrustation
- Windows for process observation
- Lab and plant scale versions
- Easy to clean, with low volumes of waste solvent
- Material options e.g. Hastelloy C276

This fully funded concept is of high relevance across chemical industry and we are interested in meeting with companies from all fields who have an interest in crystallisation.





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Observation window



Sampling



Ultrasound



Isolation of solids by controlled crystallisation is key to ensuring pure and consistent product. Crystallisation requires control of supersaturation, nucleation, crystal growth and all the other parameters that influence particle size distribution.

Here at CRD we have worked hard to evaluate the many issues associated with these multiphase systems. Our novel Rattlesnake crystalliser extends existing system boundaries, offering innovation in a number of areas including temperature control, the use of ultrasound, pH control and product sampling.

We've also built in features such as windows for process observation and ports that give you the flexibility you want for monitoring and analysis.

We have working systems that are being extensively trialled and new results are being generated every week, building the evidence that this new technology is effective.

We can't reveal too much until the patent application is

complete, but if you'd like to talk to us in person we'd be happy to discuss what we can. In particular we are interested to hear from companies who would like to participate. We can offer experienced resource in this area - this may be of value if you are looking to facilitate a switch from batch to continuous production. Please contact us if want to discuss this option.

**If you would like to speak to a technical representative please call us on +44 (0) 1954 252522, e-mail [sales@crduk.com](mailto:sales@crduk.com), or alternatively you can visit [www.crduk.com](http://www.crduk.com) for further information.**