Covid-19: Reshore with NiTech Technology

The pandemic has highlighted the fragility of global supply chains. As a result, governments and companies are now moving quickly to reshore critical manufacturing operations closer to home.

A wide range of industries are involved in this process, with pharmaceuticals and chemicals high on the list for action. The chemical industry is already positioned as the top reshorer in France, Germany, Italy, and the US. Governments around the world are also taking action to ensure essential products can continue to be supplied.

The process of reshoring is not going to be a simple ‘like for like’ swap. Most of the expertise associated with the original offshoring of production has long since been lost. And C-suite executives are recognising that it makes no sense to go back to old-fashioned technology, when modern concepts such as continuous manufacturing are now available to help them operate in a Safer, Greener, Faster and Cheaper way and create a more sustainable future.

The key question is ‘Where to start? This is where NiTech can help:

**A:** NiTech has well-developed and proven platforms for continuous reactions and crystallisations across all scales of production. We can work with you to understand whether your process is suited to continuous production.

*If it is, then we can quickly recommend a system which can be scaled and configured to match your needs. Our aim will be to provide you with reaction and/or crystallisation technology that meets your needs in terms of safety and volume on a cost-effective and sustainable basis.*

*Please contact us at sales@nitechsolutions.co.uk to learn more.*

*Governments are also supporting this move....*
As Frans Timmermans, executive vice-president of the European Commission, has commented:

“Europe needs to ensure that a green recovery is not only possible but crucial, as the region would lose out twice if we mobilise investment to restore the old economy before we make it green and sustainable”.

Will NiTech’s technology work for me?

Q: How easy is it to scale-up using NiTech reactors and crystallisers?
A: NiTech’s reactors/crystallisers are easily scaled up because:
- Our reactors enable kinetic (theoretical) reaction times obtained in labs to be executed at pilot and full scales due to uniform mixing and plug flow through combining fluid oscillation and baffle restrictions;
- Our crystallisers control mixing and temperature (cooling) at pilot and full scales due to uniform mixing, plug flow and superior heat transfer.

Q: Can I avoid the variation in product quality from batch processing?
A: Plug flow as a more consistent processing environment can add value by reducing out-of-spec material and the need to re-work.

Q: I have space constraints and/or want to minimise the use of available space?
A: NiTech’s portable units can potentially reduce manufacturing footprint by up to 70%.

Q: My process involves solids – can I still use NiTech’s technology?
A: Our technology is suitable for processes involving solids and can handle 25% w/w solid in liquid. The technology can also be used in heterogeneous catalysis, such as hydrogenation and oxidation.

Q: Can NiTech’s technology improve process safety?
A: Yes, our technology reduces the inventory of hazardous chemicals required in reaction at any one time, and the process itself is very precisely controlled in terms of reaction component flows, temperature and pressure.

Please contact us to learn more about the benefits our technology can deliver

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