

MANUFACTURING ON A BOARDROOM TABLE

Mobile Continuous Pilot/Production Scale Distributed Manufacturing



Compact Footprint
Capacity 200 - 6000kgs per annum
Easily capable of further expansion

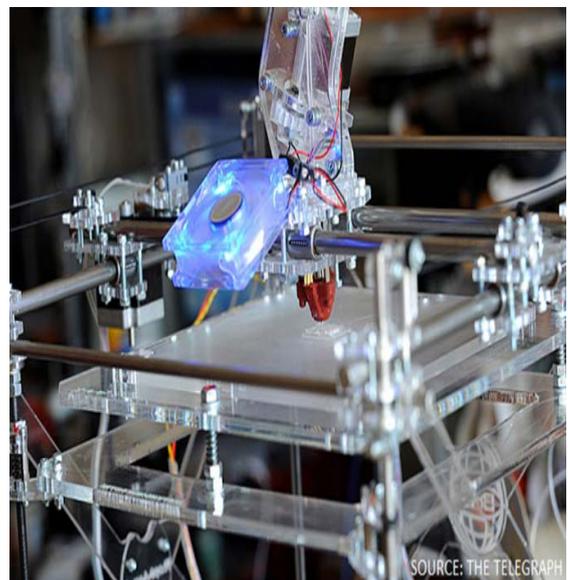
This innovative plug-and-play concept fits perfectly with today's accelerating trend towards more localised, distributed manufacturing.

What is localised, distributed manufacturing?

3D printing is a key example. The world's first FDA-approved drug produced by 3D printing has just been launched. Aprexia's epilepsy medication Spritam is based on a powder liquid 3D printing methodology developed at MIT.

Pharmacists at the University of Central Lancashire have also developed 3D printer technology able to "print" individual tablets, (pictured) and told The Telegraph and BBC:

"At the moment we are making standard medicines, a one size fits all, but now the trend is to prescribe medicine specifically tailored for individual patients, which is where the new method comes in.....For the last 50 years we have manufactured tablets in factories and shipped them to hospitals and for the first time this process means we can produce tablets much closer to the patient."



The "Manufacturing on a boardroom table" unit (jointly developed by **NiTech** and **Alconbury Weston**) will enable you to benefit from the new opportunities being created by distributed manufacturing.

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... enabling distributed manufacturing

GAIN COMPETITIVE ADVANTAGE FROM DISTRIBUTED MANUFACTURING

Several major chemical and pharma companies are now considering the use of the NiTech/AWL 'manufacturing on a boardroom table' concept.

NiTech's Reactor/Crystalliser can be connected to the Filter/ Dryer developed by our manufacturing partner Alconbury Weston to form an end-to-end continuous processing system – from reaction through crystallisation and filtration to finished dry product.

Current capacity is between 200kg to 6,000 kg per annum (based on 300 days production) - ideal for small/medium-scale manufacture in the specialty/pharma sector. We are already working on further scale-up options.

The units also offer the flexibility to operate on either a fully-integrated basis or standalone, as required.

ATEX compliant systems can be supplied where required. Alternatively, the unit can be housed in a fume cupboard for small-to-medium API manufacturing, as it:

- ❖ Uses only a low volume of solvent at any one time
- ❖ Is highly efficient, requiring only a small footprint
- ❖ Its innovative design principles mean low-cost spare parts and minimal maintenance intervention

This makes it highly competitive versus batch processes.



SAFER, GREENER, FASTER and CHEAPER

Simpler and finer process control plus reduced hazardous inventory enhance **SAFETY**

Reduced energy use and waste generation plus better efficiency equal a **GREENER** process

Quicker reaction times plus portable design allow **FASTER** response to market

Lower capital, operating and maintenance costs plus 90% less space give a **CHEAPER** footprint