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Intech Additive Solutions unveils flow reactor system for pharma industry

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Flow reactor brings down costs drastically while significantly increasing safety in API manufacturing



Bengaluru-based Intech Additive Solutions, India's leading Metal 3D Printing Original Equipment Manufacturer (OEM), has launched Flow Reactor System. This new paradigm is becoming increasingly popular among manufacturers for it is much more compact and safer than conventional equipment.

The underlying technology is revolutionising the industry by enabling manufacturers to develop, scale up and implement continuous Active Pharmaceutical Ingredients (API) manufacturing processes within shorter periods, in smaller facilities, and under safer conditions.

The principle of flow chemistry aims to achieve process intensification by performing chemical reactions in a 'continuous flow reactor' as opposed to a traditional batch reactor. The benefits of adopting a flow reactor system are the reduction in time, cost and energy consumption.

Intech's robust process skids, meticulously integrated with a selection of high-end components, are a manufacturing powerhouse. The 3D printed flow reactors at the heart of it can be customised for any unit depending on the volume, heat and mass transfer efficiency, and operating conditions required for the chemical reaction.