

who manufactured it. "It's so important in medical to get it right at the start. Medical development is a validative process, and you can't change the material, the press, cycle time, process, or secondary operations after you achieve validation. Or it's very expensive to do so."

and to eliminate the finger-pointing between those who designed a product and those

There's another reason why the Synectic Engineering acquisition makes sense to Somple: "Medical OEMs want to hold fewer suppliers responsible for more. By augmenting Mack's capabilities with engineering resources skilled in proof-of-concept, pre-clinical R&D, and product development from design to pilot manufacturing, everyone wins." OEMs now can manage and audit only one full-service supplier, and Mack gains potential entry into a wider range of projects. That, Somple says, is much more important than any direct added revenue from Synectic's activities.

Mack already owns Mack Prototype in Gardner, Mass., which has rapid prototyping (SLA and FDM), polyurethane molding, and CNC machining capabilities. Those go well beyond the facilities of Synectic Engineering's model shop. In fact, Mack Prototype has done work for Synectic in the past. Mack also has an Application Development Center in Arlington, staffed with five design, development, and tooling engineers and equipped with another FDM rapid-prototyping machine. But the acquisition brings on board numerous specialized capabilities, such as a tissue lab that can test a mitral-valve



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repair device in a sheep's heart or a hernia device in bovine tissue obtained from a local butcher. Or part-time consulting services of clinicians-medical doctors-who can test new devices in a hospital environment.

Says Adam Lehman, president of Synectic Engineering, "We'll now be able to provide uninterrupted oversight and support for the full life of the program, rather than handing off to a manufacturing partner. The whole process will now be seamless, because Mack will be involved from the start."

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