



## RIZE 3D PRINTING FOR LIFE SCIENCES



Life Sciences companies, including medical device and pharmaceutical companies, strive to improve patient outcomes by driving innovation, personalization and enhancing product quality. The Food & Drug Administration (FDA) encourages Life Sciences companies to use additive manufacturing to achieve these goals, yet there are many complex regulations to manage.

RIZE's patented additive manufacturing process, with significant innovations on materials, enables Life Sciences companies to meet or exceed the 'Document,' 'Describe' and 'Identify' requirements outlined in the regulatory guidelines, as well as FDA 21 CFR 820.30 design control requirements. Companies like CONMED and Merck use RIZE™ 3D printers to safely and easily produce parts to improve medical device design, including functional parts and molds for elastomeric parts to perform real-world appliance testing. RIZE 3D printers can even print secure information on a functional part, such as a QR code, to produce the industry's first Digitally Augmented Parts that connect the physical part to its digital record, providing traceability, compliance and authenticity.



### SAFE, SUSTAINABLE PROCESS

Safe, clean materials and operation; RIZE won the 2019 Frost & Sullivan award for 'Best Practices in Technology Innovation in the Zero-Emission Polymer Material Additive Manufacturing Industry'



### FASTEST TIME-TO-PART

Minimal pre- and post-processing;  
2X faster than other 3D printers



### DIGITALLY AUGMENTED PARTS

Functional full-color and ink marking capability to produce Digitally Augmented Parts for traceability, compliance and authenticity



### BEST-IN-CLASS PART STRENGTH

Best-in-class Z-strength, low moisture absorption and high resistance to chemicals such as alcohol, acid and acetone

## CONMED

RIZE 3D Printing Helps CONMED Deliver  
World-Class Products That Save Lives



### CHALLENGES

CONMED sought to cut part delivery time on multiple iterations for product designs.



### SUMMARY

RIZE's minimal post-processing enables CONMED to deliver functional parts, including molds, for end-use products in one day with ink marking for part identification.



### RESULTS

- Cut part turnaround in half
- Superior surface quality and low surface energy enable CONMED to produce end-use silicon products
- CONMED is diverting jobs from their PolyJet printer to RIZE™ ONE



**Timing is critical; everything is urgent."**

– David Perron, Group Manager, R&D, CONMED

