

Questions to define 3D Construction Printing Industry Standards

courtesy of Armatron Systems®

1. What is your maximum printing volume and maximum printing speed?
2. What is the minimum and maximum printing dimensions that your system can print in a Single Printing Pass™ (dimensions of printing nozzle)?
3. Is your Concrete Printing System™ patented (granted Intellectual Property)?
4. Do you have patents that are currently pending?
5. Does your Concrete Printing System™ print from inside the structure, outside of the structure, or a combination thereof?
6. Does your Concrete Printing System™ print from an overhead top-down Extrusion Nozzle™?
7. Does your Concrete Printing System™ have the ability to continuously mold a Printed Brick Layer™ (Slipform Print™)?
 - a. If so, how many different Brick Molding Shapes™ are available?
8. Does your Concrete Printing System™ have the ability to print Interlocking Brick Layers™?
9. Does your Concrete Printing System™ have the ability to place piping and conduits while printing?
10. Does your Concrete Printing System™ require printing with a specialty mix?
11. Does your Concrete Printing System™ have the ability to print with indigenous materials, such as corral, clays, etc.?
12. Does your Concrete Printing System™ have the ability to include insulation during the printing process?
13. Does your Concrete Printing System™ have the ability to simultaneously print multiple different mixes in a single printing pass?
14. Does each printed layer surface improve the bonding reinforcement between layers (Interlayer Bonding Interface™)?
15. Can your Concrete Printing System™ be operated on the construction site?

16. Does your Concrete Printing System™ have the ability to operate in inclement weather conditions, including rain, wind, sleet, snow?
17. Can your Concrete Printing System™ quickly and accurately print complex foundations onsite?
18. Can your Concrete Printing System™ quickly and accurately print roofs onsite?
19. Is your Concrete Printing System™ designed to be easily compatible with conventional construction methods and or able to refurbish / retrofit existing structures?
20. Does your Concrete Printing System™ have the ability to print horizontally, vertically, or any angle therein?
21. Does your Concrete Printing System™ have the ability to construct freeform structures / specialty structures having highly complex geometries (not limited to straight vertical)?
22. Does your Concrete Printing System™ have the ability to accurately regulate the printed Concrete's Curing Environment™ during printing?
23. Can your Concrete Printing System™ vary, tailor, or adjust the printed Concrete Curing Environment™ during printing to suit the specific cementitious mix?
24. Can your Concrete Printing System™ print cementitious mixes with a wide variety of micro-reinforcements?
25. Does your Concrete Printing System™ have the ability to meter and monitor the complete printing process?
26. Does your Concrete Printing System™ have the ability to internally and or externally reinforce the extruded concrete during the printing process?
27. What are the total weight(s) / footprint(s) of your 3D Concrete Printing System or Systems™?
28. How long does it take to assemble and disassemble your 3D Concrete Printing System™?
29. Does your Concrete Printing System™ provide the ability to print underwater?
30. Does your Concrete Printing System™ allow for social distancing (COVID)?

Contact Us



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