## **Markforged Composites Printers**



All Markforged printers are manufactured to the highest quality standards and engineered to produce the best possible parts. The printers are designed to be easy to use and fit into your existing processes. Differences between them are outlined below.







## **DESKTOP SERIES**

## **INDUSTRIAL SERIES**

| Fused Filament Fabrication   x  | Materials Variety      |
|---|------------------------|
| Continuous Fiber Reinforcement x <t< td=""><td>Materials Variety</td></t<>  | Materials Variety      |
| Base Materials   Nylon w. Chopped Carbon Fiber (Onyx) X <td>Materials Variety</td>  | Materials Variety      |
| Nylon w. Chopped Carbon Fiber (Onyx) x  | Materials Variety      |
| Onyx FR X X X   Nylon X X X   Continuous Fibers   Continuous Fiberglass X X X X   Continuous HSHT Fiberglass X X X X   Continuous Kevlar® X X X X   Laser Bed Leveling X X X X X X   Laser Bed Leveling X X X X X X X   Laser Bed Leveling X X X X X X X X X X X X X X X X  | Materials Variety      |
| Nylon   X   X   X   X   X   X   X   X   X   | Materials Var          |
| Continuous Fibers   Continuous Carbon Fiber X X X   Continuous HSHT Fiberglass X X X   Continuous Kevlar® X X X   Laser Bed Leveling X X X X   Laser Active Print Calibration X X X X   Fiber Jam Detection X X X X   Out-of-Fiber Detection X X X X   Live Build Inspection *** X X X X   Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in) | Materials              |
| Continuous Fiberglass X X X   Continuous Carbon Fiber X X X   Continuous HSHT Fiberglass X X X   Continuous Kevlar® X X X   Software   Laser Bed Leveling X X X X   Laser Active Print Calibration X X X X   Fiber Jam Detection X X X X   Qut-of-Fiber Detection X X X X   Live Build Inspection ** X X X X   Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)                       | Mat                    |
| Continuous Carbon Fiber X X   Continuous HSHT Fiberglass X X   Continuous Kevlar® X X   Software   Laser Bed Leveling X X X X   Laser Active Print Calibration X X X X X   Fiber Jam Detection X X X X X   Out-of-Fiber Detection X X X X   Live Build Inspection ** X Hardware   Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)  |                        |
| Continuous HSHT Fiberglass X X   Continuous Kevlar® X X   Software   Laser Bed Leveling X X X   Laser Active Print Calibration X X X   Fiber Jam Detection X X X   Out-of-Fiber Detection X X X   Live Build Inspection ** X X   Hardware   Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)  |                        |
| X   X   X   X   X   X   X   X   X   X   |                        |
| Laser Bed Leveling  |                        |
| Laser Bed Leveling X X X   Laser Active Print Calibration X X X X   Fiber Jam Detection X X X X   Out-of-Fiber Detection X X X   Live Build Inspection ** X X X   Hardware   Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)   |                        |
| Laser Active Print Calibration X <th< td=""><td></td></th<>   |                        |
| Fiber Jam Detection X   | Automation + Usability |
| Out-of-Fiber Detection X X   Live Build Inspection ** X X   Hardware   Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)   | ,<br>,                 |
| Live Build Inspection ** X   Hardware   Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)  | atior                  |
| Hardware   Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)   | tom                    |
| Print Head Nozzles 1 2 2* 1 2 2*   Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)  | A                      |
| Build Volume 320 x 132 x 154 mm (12.6 x 5.2 x 6.0 in) 330 x 270 x 200 mm (13.0 x 10.6 x 7.9 in)   |                        |
|   |                        |
| Bed Flatness Flat to within 160 μm; Kinematic coupling Flat to within 80 μm; Kinematic coupling   | ality                  |
|   | Part Quality           |
| Best Z Resolution 100 μm 50 μm  | Par                    |
| Supports Same material peel away; Turbo supports available (2x faster printing)   |                        |
| Infill Closed-cell infill; Multiple geometries available  |                        |
| Specifications  |                        |
| Storage Cloud or Local included; On-Premise available   |                        |
| Security Two-factor authentication; Org admin access; Single sign-on  | +                      |
| Power 100-240 VAC, 150W (2A peak)   | ·                      |
| Weight 16 kg (35 lb) 48 kg (106 lb)   |                        |
| Footprint 584 x 330 x 355 mm (23 x 13 x 14 in) 584 x 483 x 914 mm (23 x 19 x 36 in)   |                        |