

# Product specifications

pam o2 MC is a 3D printer dedicated to the manufacturing of metal and ceramic parts using industrial pellet shape feedstock. It is the most versatile 3D printer enabling to handle the widest variety of materials to create functional prototypes, toolings and small and medium scale series.

- Full setup control
- Most profitable PIM-Like solution
- No volatile powders for no health risks
- Multi-material & Multi-resolution
- Compatible with all PIM post-processing
- Compatible with thermoplastics & TPEs

|                        |  |   |
|------------------------|--|---|
| General specifications | 3D printing process                    | Pellet Additive Manufacturing (PAM)                                     |
|                        | Number of extruder                     | Up to 4   |
|                        | Physical Dimensions                    | Ø 834 x H 925 mm - 95 kg  |
|                        | Maximum print volume                   | Ø300 * H300 mm (no radiant disc).<br>Ø270 * H300 mm (with radiant disc) |
|                        | Power                                  | 3 500 W   |
|                        | Power requirements                     | 230 V ~ 8 A - 50Hz - IEC 60320 type C20                                 |
| Print head             | Nozzles sizes                          | Ø 0.25 - 0.3 - 0.4 - 0.6 - 0.8 - 1.0 - 1.2 - 1.5 - 2.0 - 2.5 mm         |
|                        | Stepper motor resolution               | 40µm (Z) and 5µm (X,Y)  |
|                        | Maximum extrusion temperature          | 450°C   |
|                        | Maximum print bed temperature          | 150°C - 250 °C in option  |
|                        | Maximum heating room temperature       | 90°C  |
|                        | Maximum local radiant disc temperature | 300°C   |
| Materials              | Grades                                 | Injection molding pellet materials                                      |
|                        | Compatible materials                   | Metal & Ceramic feedstocks,<br>Thermoplastics & TPEs                    |
|                        | Maximum viscosity                      | 6 000 Pa.s at negligible shear and process temperature                  |
|                        | Granulometry                           | Head cutting, cold cutting  |
|                        | Pellet size                            | 2 - 4 mm  |
|                        | Supplier                               | Open  |
| Software               | CAD solution                           | Open (not supplied)   |
|                        | Slicing                                | Cura by Pollen AM   |
|                        | Control software                       | HoneyPrint  |
|                        | Network communication                  | Ethernet protocol   |

## No special facilities needed

You can install a pam system just about anywhere.  
No access to gas, air or fluid required.

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Note: All specifications are approximate and subject to change without notice.

