

# Product specifications

pam o2 is a 3D printer dedicated to the manufacturing of thermoplastic parts using industrial injection molding pellets and your proprietary chemistries (formulations, blends, compounds). 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
- Industrial thermoplastics
- Mechanical & aesthetical quality output
- Multi-material & Multi-resolution
- TPEs from Shore 00 to Shore D
- Filled materials compatible

|                               |                               |   |
|-------------------------------|-------------------------------|---|
| <b>General specifications</b> | 3D printing process           | Pellet Additive Manufacturing (PAM)                       |
|                               | Number of extruder            | Up to 4   |
|                               | Physical Dimensions           | Ø 789 x H 925 mm - 75 kg                                  |
|                               | Maximum print volume          | Ø 300 x H 300 mm  |
|                               | Power                         | 3 200 W   |
|                               | Power requirements            | 230 V ~ 8 A - 50Hz - IEC 60320 type C20                   |
| <b>Print head</b>             | Nozzles sizes                 | Ø 0.25 - 0.3 - 0.4 - 0.6 - 0.8 - 1.0 - 1.2 - 1.5 - 2.0 mm |
|                               | Stepper motor resolution      | 40µm (Z) and 5µm (X,Y)                                    |
|                               | Maximum extrusion temperature | 350°C   |
|                               | Maximum print bed temperature | 150°C   |
|                               | Heating room                  | No  |
|                               | Local radiant disc            | No  |
| <b>Materials</b>              | Grades                        | Injection molding pellet materials                        |
|                               | Compatible materials          | Thermoplastics & TPEs<br>Fillers: fiber, mineral, natural |
|                               | Maximum viscosity             | 6 000 Pa.s at negligible shear and process temperature    |
|                               | Granulometry                  | Head cutting, cold cutting                                |
|                               | Pellet size                   | 2 - 4 mm  |
|                               | Supplier                      | Open  |
| <b>Software</b>               | 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 o2 system just about anywhere.  
No access to gas, air or fluid required.

## Pollen AM Headquarter

52 avenue Pierre Semard  
FR-94200 Ivry-sur-Seine  
France  
+33 (0)1 58 46 20 52  
[contact@pollen.am](mailto:contact@pollen.am)

