MASS PORTAL

MP400

Solution for shoe last production with filament switchover

KEY FEATURES

· "Single-click" workflow
· Automatic bed leveling
· Integrated dual filament drying
· Feed switchover with filament sensing 2.0
· Material optimized
· Application specific printing profiles for operation with Covestro X1010 filament

HARDWARE

· All metal hotend
· Bowden extruder
· Nozzle: ø0.8mm Brass
· Build area: ø400mm x 400mm
· Integrated dryers: 2
· Part cooling fans: 3
· Detachable Bowden assembly
· Modular design
· Buffer for feed switchover with 2.0 filament sensing solution
· Integrated webcam for process monitoring

SOFTWARE

· At least 16Gb memory card installed
· Integrated slicing and g-code processing
· Web workflow and machine management system

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Printer specification

Printer

Technology: Fused Filament Fabrication (FFF)
Build volume (d x h): 0400 mm x 400 mm, cylindric
Motion system: precision linear guideways
Maximum printhead travel speed: 250 mm/s
XYZ accuracy: 6, 6, 5 micron
Ultimate layer resolution: 50 micron
Electronics: 32-bit
Firmware: open-source Repetier-Firmware
Remote monitoring: built-in HD camera
Connectivity: USB 2.0 and Ethernet jacks, Wi-Fi
Automation ready: yes (software interfaces)

Chamber

Build chamber: enclosed; ventilated
Build chamber door: tempered glass
Build chamber illumination: yes

Build plate

Type: glass plate
Temperature up to 120 °C
Heatup time: 5 min

Filament dryers

Compatibility: "open material" spools up to 1 kg Spool size
(diameter x width):
200 mm x 80 mm

Power requirements

Installed power 1580W
Power consumption:
Standby 12W
Idle 55W

Regulatory compliance

CE, WEEE

Safety

Overheating protection: yes

Printer size

Dimensions (w x d x h):
710 mm x 730 mm x 1810 mm

Ambient conditions

Operating ambient temperature: 15-35 °C, 10-90 % RH

Software

Supplied software:
Mass Portal Cloud (printing, drying profile
management software)
Mass Portal Cloud Embedded
(device control software)
Supported 3D models file format : .stl, .obj, .3mf
Supported print file format: .gcode (up to 150MB)

EXTRUSION SYSTEM

Pro Bowden 1.75

• Up to 300 °C
• Single Nozzle Bowden
• Fan cooled
• Fan part cooling
• Dual Grip feeder