MASS PORTAL®

XD10

High Resolution Desktop 3D Printer

AUTOMATION READY

EXTRUSION
Single-feed Bowden tube
All-metal hotend and feeder
Extrusion temperature up to 300 °C
Included nozzle: 0.2 mm

BUILD CHAMBER
Enclosed, illuminated chamber
Build volume: 100 mm x 100 mm x 200 mm
Quick-release glass printbed
Printbed heating up to 120 °C

Automatic printbed leveling

Quick-release heated printbed

Rigid construction

Air filtration & circulation

Status notifications

Built-in camera

FabControl
Printer control software

FabCloud™
Printer & dryer monitoring and control

SIMPLIFY3D
Full commercial license for Simplify3D™ slicing software

MASS PORTAL®

XD10

High Resolution Desktop 3D Printer

Printer
Technology: Fused Filament Fabrication (FFF)
Build volume (w x d x h): 100 mm x 100 mm x 200 mm, square
Build chamber: open or enclosed
Build chamber illumination: yes
Build chamber ventilation: two intake fans
Motion system: precision miniature linear guideways
Frame: rigid aluminium frame
Maximum printhead travel speed: 250 mm/s
Electronics: 32-bit
Firmware: open-source Repetier-Firmware
Extruder type: Bowden tube
Feeder: custom-designed dual geared grip feeder
XYZ accuracy: 1.5, 1.5, 5 micron
Ultimate layer resolution: 70 micron (0.2-mm nozzle)*
Noise level: 56 dBA
Remote monitoring: built-in HD camera
Connectivity: USB 2.0 and Ethernet jacks, Wi-Fi
Automation ready: yes (software interfaces)

Printhead
Printhead: all-metal Mass Portal Pharaoh
Printhead cooling: fan
Heater: two resistive heaters
Nozzle temperature: 75 - 300 °C
Nozzle heatup time: < 2 min
Nozzle inner diameter: 0.2 mm (supplied), 0.4 - 1.0 mm
Deposition speed: < 1 mm^3/s (0.2-mm nozzle)*
Printed part cooling: 3 fans

Build plate
Build plate: quick-release glass plate
Build plate temperature range: RT - 120 °C
Build plate heatup time: 5 min

Power requirements
max. 465 W, 220 VAC, 2.2 A, 50-60 Hz

Regulatory compliance
CE, WEEE

Safety
Air filtering: HEPA & active carbon filters

Model material
Material type: 1.75 mm thermoplastic filament
Supported nozzle materials: “open material” with softening/melting temperature below 300 °C
(ABS, ASA, CPE, HIPS, PA (Nylon), PC, PET, PETG, PLA, PMMA, POM, PP, PVA, TPE, TPU, as well as filled filaments)
Hardness: > 85 A Shore

Printer size and weight
Dimensions (w x d x h):
340 mm x 370 mm x 641 mm
340 mm x 390 mm x 641 mm (with spool holder)
Weight: 22.5 kg
Shipping dimensions (w x d x h):
400 mm x 400 mm x 760 mm
Shipping weight: 30 kg

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

Software
Supplied software:
Simplify3D™ (slicer and control software)
cloud-based FabCloud™ (printing, drying profile management software)
FabControl® (printer control software)
Supported OS: Linux, MacOS, Windows
Supported 3D models file format : .stl, .obj, .3mf
Supported print file format: .gcode

*material and settings dependent value

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MASS PORTAL®

XD20

Compact Desktop 3D Printer

AUTOMATION READY

EXTRUSION
Single-feed Bowden tube
All-metal hotend and feeder
Extrusion temperature up to 300 °C
Included nozzle: 0.4 mm

BUILD CHAMBER
Enclosed, illuminated chamber
Build volume: ø200 mm x 200 mm, cylindric
Removable heated glass printbed
Printbed heating up to 120 °C

Automatic printbed leveling

Touchscreen interface

Rigid construction

Air filtration & circulation

Status notifications

Built-in camera

FabControl

Printer control software

FabCloud™

Printer & dryer monitoring and control

SIMPLIFY3D™

Full commercial license for Simplify3D™ slicing software

MASS PORTAL®

XD20

Compact Desktop 3D Printer

Printer
Technology: Fused Filament Fabrication (FFF)
Build volume (w x d x h): 200 mm x 200 mm x 200 mm, cylindric
Build chamber: open or enclosed
Build chamber illumination: yes
Build chamber ventilation: two intake fans
Motion system: precision linear guideways
Frame: rigid aluminium frame
Maximum printhead travel speed: 250 mm/s
Electronics: 32-bit
Firmware: open-source Repetier-Firmware
Extruder type: Bowden tube
Feeder: custom-designed dual geared grip feeder
XYZ accuracy: 2, 2, 5 micron
Ultimate layer resolution: 100 micron (0.4-mm nozzle)*
Noise level: 56 dBA
Remote monitoring: built-in HD camera
Connectivity: USB 2.0 and Ethernet jacks, Wi-Fi
Automation ready: yes (software interfaces)

Printhead
Printhead: all-metal Mass Portal Pharaoh
Printhead cooling: fan
Heater: two resistive heaters
Nozzle temperature: 75 - 300 °C
Nozzle heatup time: < 2 min
Nozzle inner diameter: 0.4 mm (supplied), 0.2 - 1.0 mm
Deposition speed: < 5 mm^3/s (0.4 mm nozzle)*
Printed part cooling: 3 fans

Build plate
Build plate: glass plate
Build plate temperature range: RT - 120 °C
Build plate heatup time: 5 min

*material and settings dependent value

Power requirements
max. 465 W, 220 VAC, 2.2 A, 50-60 Hz

Regulatory compliance
CE, WEEE

Safety
Air filtering: HEPA & active carbon filters

Model material
Material type: 1.75 mm thermoplastic filament
Supported nozzle materials: “open material” with softening/melting temperature below 300 °C (ABS, ASA, CPE, HIPS, PA (Nylon), PC, PET, PETG, PLA, PMMA, POM, PP, PVA, TPE, TPU, as well as filled filaments)
Hardness: > 85 A Shore

Printer size and weight
Dimensions (w x d x h):
340 mm x 370 mm x 641 mm
340 mm x 390 mm x 641 mm (with spool holder)
Weight: 22.5 kg
Shipping dimensions (w x d x h):
400 mm x 400 mm x 760 mm
Shipping weight: 30 kg

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

Software
Supplied software:
Simplify3D™ (slicer and control software)
cloud-based FabCloud™ (printing, drying profile management software)
FabControl® (printer control software)
Supported OS: Linux, MacOS, Windows
Supported 3D models file format : .stl, .obj, .3mf
Supported print file format: .gcode

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XD30

Large Desktop 3D Printer

AUTOMATION READY

EXTRUSION
Single-feed Bowden tube
All-metal hotend and feeder
Extrusion temperature up to 300 °C
Included nozzle: 0.4 mm

BUILD CHAMBER
Enclosed, illuminated chamber
Build volume: ø300 mm x 300 mm, cylindric
Removable heated glass printbed
Printbed heating up to 120 °C

Automatic printbed leveling

Touchscreen interface

Rigid construction

Air filtration & circulation

Status notifications

Built-in camera

FabControl

Printer control software

FabCloud™

Printer & dryer monitoring and control

SIMPLIFY3D™

Full commercial license for Simplify3D™ slicing software

MASS PORTAL®

XD30

Large Desktop 3D Printer

Printer
Technology: Fused Filament Fabrication (FFF)
Build volume (w x d x h): 300 mm x 300 mm x 300 mm, cylindric
Build chamber: open or enclosed
Build chamber illumination: yes
Build chamber ventilation: two intake fans
Motion system: precision linear guideways
Frame: rigid aluminium frame
Maximum printhead travel speed: 250 mm/s
Electronics: 32-bit
Firmware: open-source Repetier-Firmware
Extruder type: Bowden tube
Feeder: custom-designed dual geared grip feeder
XYZ accuracy: 6, 6, 5 micron
Ultimate layer resolution: 150 micron (0.4-mm nozzle)*
Noise level: 56 dBA
Remote monitoring: built-in HD camera
Connectivity: USB 2.0 and Ethernet jacks, Wi-Fi
Automation ready: yes (software interfaces)

Printhead
Printhead: all-metal Mass Portal Pharaoh
Printhead cooling: fan
Heater: two resistive heaters
Nozzle temperature: 75 - 300 °C
Nozzle heatup time: < 2 min
Nozzle inner diameter: 0.4 mm (supplied), 0.2 - 1.0 mm
Deposition speed: < 5 mm^3/s (0.4 mm nozzle)*
Printed part cooling: 3 fans

Build plate
Build plate: glass plate
Build plate temperature range: RT - 120 °C
Build plate heatup time: 5 min

*material and settings dependent value

Power requirements
max. 565 W, 220 VAC, 2.6 A, 50-60 Hz

Regulatory compliance
CE, WEEE

Safety
Air filtering: HEPA & active carbon filters

Model material
Material type: 1.75 mm thermoplastic filament
Supported nozzle materials: “open material” with softening/melting temperature below 300 °C (ABS, ASA, CPE, HIPS, PA (Nylon), PC, PET, PETG, PLA, PMMA, POM, PP, PVA, TPE, TPU, as well as filled filaments)
Hardness: > 85 A Shore

Printer size and weight
Dimensions (w x d x h):
425 mm x 470 mm x 855 mm
425 mm x 490 mm x 855 mm (with spool holder)
Weight: 40 kg
Shipping dimensions (w x d x h):
720 mm x 800 mm x 1200 mm
Shipping weight: 70 kg

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

Software
Supplied software:
Simplify3D™ (slicer and control software)
cloud-based FabCloud™ (printing, drying profile management software)
FabControl® (printer control software)
Supported OS: Linux, MacOS, Windows
Supported 3D models file format : .stl, .obj, .3mf
Supported print file format: .gcode

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