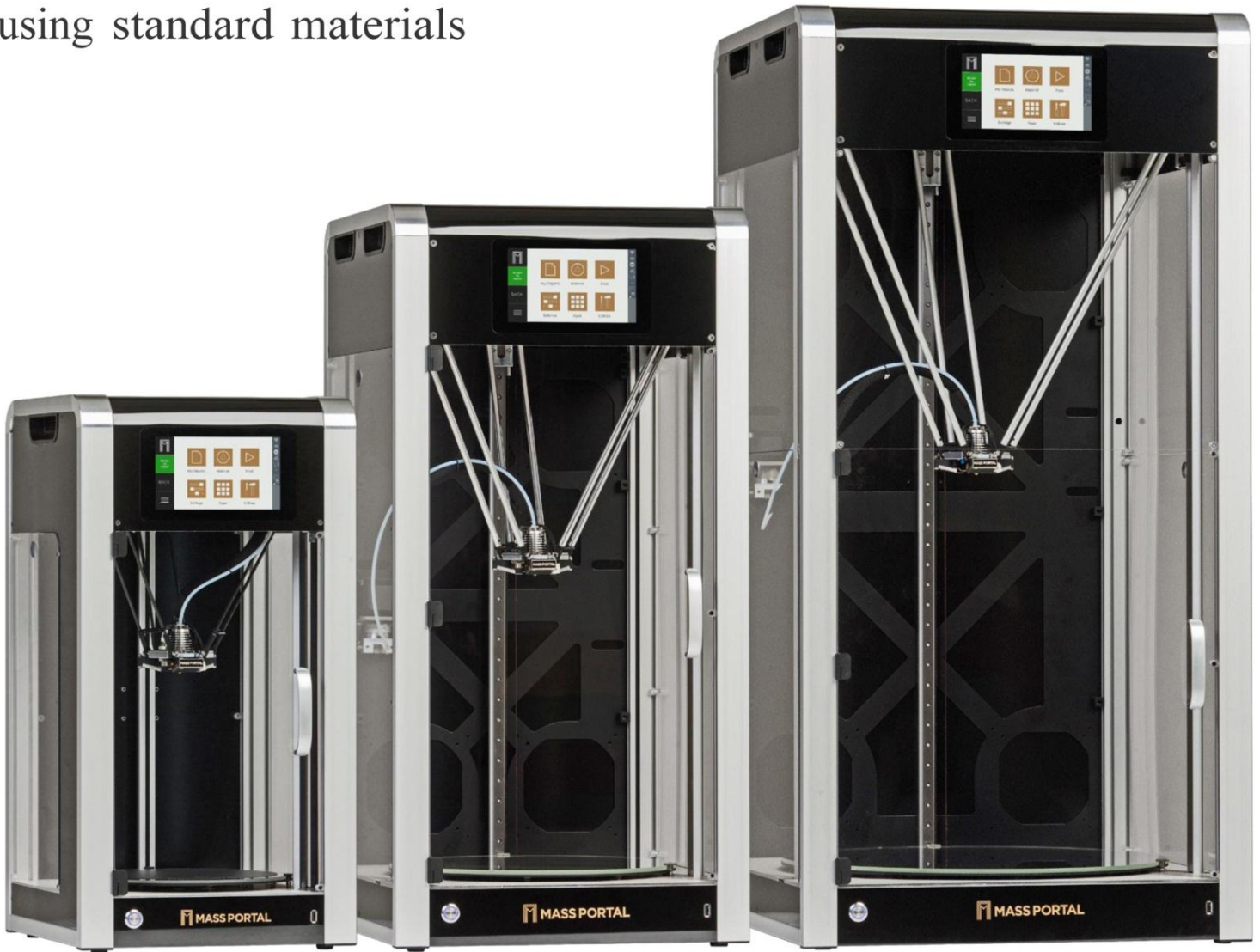# MASS PORTAL®

Pharaoh® ED

High Definition Desktop 3D Printers

Print quality objects quickly
using standard materials

Pharaoh ED 20   Pharaoh ED 30   Grand Pharaoh ED 40

KEY FEATURES

- For general purpose
  3D printing
- Best resolution in class
- Easy touch screen
  operation
- Single material feeder
- Fast printing speed
- Automatic calibration
- Multiple connectivity
- Various nozzle sizes

SOTWARE

SIMPLIFY3D®

A full commercial license
of the award-winning
Simplify3D slicing software
is included. Simplify3D
simplifies advanced 3D
printing and is a very
robust and fast slicer,
delivering excellent prints.

MATERIALS

Pharaoh ED printers
are optimized for select
multipurpose materials,
such as Polymaker
Polymax and Polymatt for
Mass Portal, covering most
general 3D printing needs.
Compatible materials from
independent vendors can
also be used.

APPLICATIONS

- Education
- Visualization
- Engineering
- Prototyping
- Product development
- Functional testing
- Individual production
- Architecture
- Medical
- Printing service

Pharaoh® ED

High Definition Desktop 3D Printers

Model Price (MSRP, excl. VAT)	Pharaoh ED 20 € 2700,–	Pharaoh ED 30 € 5000,–	Grand Pharaoh ED 40 € 7000,–
Build area (diameter x height)	20cm x 20cm	30cm x 30cm	40cm x 40cm
Material feeders	1	1	1
Materials compatibility	Mass Portal materials, compatible open materials		
Print chamber	Open or enclosed		
Side and front doors	Removable, transparent front doors and side panels		
Printbed	Removable glass print bed		
Printer dimensions (w*d*h)	34cm x 37.1cm x 66cm	42.5cm x 47.3cm x 87.5	53.5cm x 57.8cm x 110cm
Printer weight	21kg	38kg	54.5kg
Shipping dimensions	40cm x 50cm x 80cm	60cm x 70cm x 120cm	67cm x 70cm x 125cm
Shipping weight	24kg	47kg	110kg
Printer features	Delta robot mechanics; precision linear guides; rigid aluminium frame Illuminated printing chamber and local print area 7' touch screen with Pharaoh Touch™ software 32-bit electronics, Open Source Repetier-Firmware Automatic calibration		
Printhead and feeders	Thermoplastic filament diameter 1.75mm; printing temperature up to 300°C Geared feeders for precise and smooth filament feed All-metal Mass Portal Pharaoh printing head with dual heaters Nozzle diameter: 0.4mm (supplied); optional — 0.1mm; 0.2mm; 0.6mm; 0.8mm Layer thickness: 0.01–0.6mm (depending on nozzle diameter and material) Printing speed: up to 300mm/s		
Software	Desktop software: Simplify3D full commercial license included OS support: Windows (XP SP3 +); Mac OS X (10.6+); Linux 3D file formats: STL, OBJ; print file format: Gcode		
Connections	USB 2.0, Ethernet, Wi-Fi		
In the box	• Mass Portal Pharaoh ED 3D printer with USB cable and power cord • Sample printing material, printed object removal tool, filament cutting tool • Printed user manual		
Electricity consumption	Max 360W; nominal 200–230W		