

microArch™ 3D PRINTERS

	P130	S130	P140	S140	P150
LIGHT SOURCE	UV-LED (405nm)	UV-LED (405nm)	UV-LED (405nm)	UV-LED (405nm)	UV-LED (405nm)
PRINTING MATERIAL	Photosensitive resin	Photosensitive resin	Photosensitive resin	Photosensitive resin	Photosensitive resin
OPTICAL RESOLUTION	2µm	2µm	10µm	10µm	25µm
PRINTING SIZE	3.84 × 2.16 × 10mm	MODE1 3.84 × 2.16 × 10mm (single exposure) MODE2 38.4 × 21.6 × 10mm (multi exposure) MODE3 50 × 50 × 10mm (for array)	19.2 × 10.8 × 45mm	MODE 1 19.2 × 10.8 × 45mm (single exposure) MODE 2 94 × 52 × 45mm (multi exposure) MODE 3 94 × 52 × 45mm (for array)	48 × 27 × 50mm
LAYER THICKNESS	5~20µm	5~20µm	10~40µm	10~40µm	10~50µm
INPUT DATA FILE FORMAT	STL	STL	STL	STL	STL
POWER SUPPLY	3000W	3000W	3000W	3000W	3000W
EXTERNAL DIMENSIONS	1720(L) × 750(W) × 1820mm(H)	1720(L) × 750(W) × 1820mm(H)	1000(L) × 700(W) × 1600mm(H)	1000(L) × 700(W) × 1600mm(H)	1200(L) × 1000(W) × 1600mm(H)
TOTAL WEIGHT	450kg	450kg	300kg	300kg	300kg

MATERIALS

	GR HARD	HEK STRONG AND TOUGH	CR TRANSPARENT	UT ULTRA TOUGH	HTL LOW VISCOSITY	UTL TOUGH	BIO BIOCOMPATIBLE
TENSILE STRENGTH	85 MPa	70.496 MPa	35 MPa	31.66 MPa	79.3 MPa	42.6 MPa	42 MPa
ELASTICITY MODULUS	3.8 GPa	2.6 GPa	1500 MPa	1.05 GPa	4.2 GPa	2 GPa	1.8 GPa
ELONGATION AT BREAK	3%	14.05%	8%	64.53%	2.23%	49.4%	2.5%
BENDING STRENGTH	97.4 MPa	93.83 MPa	50 MPa	16.13 MPa	120.6 MPa	35.3 MPa	65 MPa
FLEXURAL MODULUS	3.2 GPa	2.5 GPa	1200 MPa	616 MPa	3.96 GPa	1.5 GPa	2.3GPa
IMPACT STRENGTH	47.5 J/m	TBD	35 J/m	-	30 J/m	-	-
DISTORTION TEMPERATURE AT 0.45MPa	102 °C	82 °C	60 °C	-	140.7 °C	45 °C	115 °C
HARDNESS	86 Shore D	85D	70 Shore D	76D	90 Shore D	80 Shore D	80 Shore D
ADDITIONAL	-	YIELD ELONGATION 5.68% YIELD STRESS 70.5Mpa	-	YIELD ELONGATION 6.27%	Tg 172 °C	YIELD ELONGATION 5.62%	Cell culture survival rate in vitro = 75%