Model	E1A14	E1A08	E1A18	E1A04	F1A11 (can be configure for Extrusion-Based FFF 3D Printer)	MHI3D A03	MHI3D A02	MHI3D A01	MHI3D A06	MHI3D A04	MHI3D A05	Comment
Price (0% VAT)	€4,000.00	€4,000.00	€4,000.00	€4,000.00	€4,000.00	€2,000.00	€2,000.00	€2,000.00	€2,000.00	€2,000.00	€2,000.00	€32,000.00
Status	Ready to Use	Ready to Use	Ready to Use	Ready to Use	Half Assembled - but parts are in the box	Ready to Use	Half Assembled - but parts are in the box	Half Assembled - but parts are in the box	Half Assembled - but parts are in the box	Half Assembled - but parts are in the box	Half Assembled - but parts are in the box	
Build Volume (W x D x H)	250 x 150 x 200 (mm)	251 x 150 x 200 (mm)	252 x 150 x 200 (mm)	253 x 150 x 200 (mm)	200 x 155 x 140 (mm)	200 x 145 x 200 (mm)	201 x 145 x 200 (mm)	202 x 145 x 200 (mm)	203 x 145 x 200 (mm)	204 x 145 x 200 (mm)	205 x 145 x 200 (mm)	
Assembly type	Full assembled	Full assembled	Full assembled	Full assembled	Need to assemble it	Full assembled	Need to assemble it	Need to assemble it	Need to assemble it	Need to assemble it	Need to assemble it	
Layer Resolution	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	Standard 0.2 mm (200 microns)	
Build plate levelling	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	No levelling is needed (Free calibration / Factory calibrated).	
Print technology	**Extrusion-Based FFF 3D Printer**	**Extrusion-Based FFF 3D Printer**	**Extrusion-Based FFF 3D Printer**	**Extrusion-Based FFF 3D Printer**	**Piston Extrusion-Based Chocolate 3D Printer**	**Extrusion-Based FFF 3D Printer**	**Extrusion-Based FFF 3D Printer**	**Extrusion-Based FFF 3D Printer**	**Extrusion-Based FFF 3D Printer**	**Extrusion-Based FFF 3D Printer**	**Extrusion-Based FFF 3D Printer**	
Feeder type	Direct gear feeder system	Direct gear feeder system	Direct gear feeder system	Direct gear feeder system	Piston Extruder	Direct gear feeder system	Direct gear feeder system	Direct gear feeder system	Direct gear feeder system	Direct gear feeder system	Direct gear feeder system	
Printer Head	Single Nozzle	Single Nozzle	Single Nozzle	Single Nozzle	Single Nozzle	Single Nozzle	Single Nozzle	Single Nozzle	Single Nozzle	Single Nozzle	Single Nozzle	
Nozzle diameter	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	
Nozzle temperature	180 °C to 280 °C	181 °C to 280 °C	182 °C to 280 °C	183 °C to 280 °C	25 °C to 50 °C	185 °C to 280 °C	186 °C to 280 °C	187 °C to 280 °C	188 °C to 280 °C	189 °C to 280 °C	190 °C to 280 °C	
Nozzle heat up time	1 minute (approx.).	1 minute (approx.).	1 minute (approx.).	3 minute (approx.).	4 minute (approx.).	5 minute (approx.).	6 minute (approx.).	7 minute (approx.).	8 minute (approx.).	9 minute (approx.).	10 minute (approx.).	
Build plate heat time	No	No	No	No	No	No	No	No	No	No	No	
Filament System	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open	
Filament diameter	1.75 mm	1.75 mm	1.75 mm	1.75 mm		1.75 mm	1.75 mm	1.75 mm	1.75 mm	1.75 mm	1.75 mm	
Supported Filament	All types of FDM filament	All types of FDM filament	All types of FDM filament	All types of FDM filament		All types of FDM filament	All types of FDM filament	All types of FDM filament	All types of FDM filament	All types of FDM filament	All types of FDM filament	
Panel Type (Screen)	5 inch - touch screen	5 inch - touch screen	5 inch - touch screen	5 inch - touch screen	5 inch - touch screen	1.6" x 1.0" dot matrix LCD Display	1.6" x 1.0" dot matrix LCD Display	1.6" x 1.0" dot matrix LCD Display	1.6" x 1.0" dot matrix LCD Display	1.6" x 1.0" dot matrix LCD Display	1.6" x 1.0" dot matrix LCD Display	
Eletronics	Duet3D v2	Duet3D v3	Duet3D v4	Duet3D v5	Duet3D v6							
Software	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	Simplify3D, Cura	
Supported OS	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	macOS, Windows, Linux	
Supported file types	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	STL, OBJ, X3D, and 3MF, G-code	
File transfer	WiFi	WiFi	WiFi	WiFi	WiFi	SD card (included)	SD card (included)	SD card (included)	SD card (included)	SD card (included)	SD card (included)	
Operating environment	Room temperature	Room temperature	Room temperature	Room temperature	Room temperature	Room temperature	Room temperature	Room temperature	Room temperature	Room temperature	Room temperature	
Input	100 – 240 v 4A. 50 – 60 hz, 221 W max.	101 – 240 v 4A. 50 – 60 hz, 221 W max.	102 – 240 v 4A. 50 – 60 hz, 221 W max.	103 – 240 v 4A. 50 – 60 hz, 221 W max.	104 – 240 v 4A. 50 – 60 hz, 221 W max.	100-240V, 4A, 50-60hz, 221 W max.	100-240V, 4A, 50-60hz, 221 W max.	100-240V, 4A, 50-60hz, 221 W max.	100-240V, 4A, 50-60hz, 221 W max.	100-240V, 4A, 50-60hz, 221 W max.	100-240V, 4A, 50-60hz, 221 W max.	
Output	24 v (DC) 9.2 A	25 v (DC) 9.2 A	26 v (DC) 9.2 A	27 v (DC) 9.2 A	28 v (DC) 9.2 A	12 V (DC) 15A	12 V (DC) 15A	12 V (DC) 15A	12 V (DC) 15A	12 V (DC) 15A	12 V (DC) 15A	
Docs Link	https://github.com/mehtaheino/MANU-3D-Printer											
Notes:					[DIY - docs in github] 90% Assembly done, spare parts are included into the box, PanelDue 5 Display is missing, arm bundle unassembled				[DIY - docs in github] 90% Assembly done, spare + accessories in the printer		
Additional Comment					- Please check the docuemtation on GitHub for more info					Packed 16.11.2023> PCB: MKS GEN 1.4 DISPLAY: MKS MINI LED OK Display OK Arm bundle missing (given bundle) Hotend: 12V, ok Extruder Fan: in bag Powersupply. spool holder, Bag of parts	Packed 16.11.2023> PCB: Duet 2 Ethernet DISPLAY: Missing (Paneldue 5.1) LED wire needs work Display wire ready Arm bundle: Custom Bundle for Duet Hotend: 12V, ok Extruder Fan: unassembled, in bag Powersupply. spool holder, Bag of parts	