



	ZMORPH 2.0 SX BASIC	ZMORPH 2.0 SX FULL
TECHNOLOGIES	<ul style="list-style-type: none"> • 3D PRINTING • CNC CUTTING • CNC ENGRAVING 	<ul style="list-style-type: none"> • 3D PRINTING • MULTIMATERIAL 3D PRINTING • TWO-COLOR 3D PRINTING • CNC CUTTING • CNC ENGRAVING
MATERIALS	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>3D printing</p> <ul style="list-style-type: none"> - ABS - M-ABS - PLA - HIPS - Flex materials - Nylon - PVA - PETG - Thermochrome - PC - Wood filaments - Metal filaments - Ceramic filaments - Thick pastes (chocolate, cake, ceramics) - And many more </div> <div style="text-align: center;"> <p>CNC cutting & engraving</p> <ul style="list-style-type: none"> - Plywood - Beech - Oak - Maple - Walnut - Pine - Chestnut - Machining wax - PCB - Plexiglass - PVC foam </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>3D printing</p> <ul style="list-style-type: none"> - ABS - M-ABS - PLA - HIPS - Flex materials - Nylon - PVA - PETG - Thermochrome - PC - Wood filaments - Metal filaments - Ceramic filaments - Thick pastes (chocolate, cake, ceramics) - And many more </div> <div style="text-align: center;"> <p>CNC cutting & engraving</p> <ul style="list-style-type: none"> - Plywood - Beech - Oak - Maple - Walnut - Pine - Chestnut - Machining wax - PCB - Plexiglass - PVC foam </div> <div style="text-align: center;"> <p>Laser cutting & engraving</p> <ul style="list-style-type: none"> - Plywood - EVA foil - Cardboard - Leather </div> </div>
INCLUDED TOOLHEADS	<ul style="list-style-type: none"> • PLASTIC EXTRUDER 1.75 mm • 1.75 Plastic Extruder • CNC PRO 	<ul style="list-style-type: none"> • 1.75 Plastic Extruder • DUAL PRO Extruder • CNC PRO • Thick Paste Extruder • Laser Module
INCLUDED ACCESSORIES	<ul style="list-style-type: none"> • ABS 1 KG, 1.75/2.85 MM (DIFFERENT COLOURS) • BUILDTAK • HEATED TABLE • CNC TABLE • 1.75/3.00 EXTRUDER 	<ul style="list-style-type: none"> • ABS 1 KG, 1.75/2.85 MM (DIFFERENT COLOURS) • CNC MILLING FUN PACK • BUILDTAK • HEATED TABLE • CNC TABLE • 1.75/3.00 EXTRUDER
MACHINE SPECIFICATION		
CONSTRUCTION	<ul style="list-style-type: none"> • ALUMINUM 6 AND 3 MM (PRECISE AND VERY RIGID), STAINLESS STEEL 2 MM AND 3 MM, PET 3 MM AND ABS. <ul style="list-style-type: none"> • INTERCHANGEABLE NOZZLES: 0.2 MM, 0.3 MM, 0.4 MM. • INTERCHANGEABLE TOOLHEADS. • INTERCHANGEABLE WORKTABLES. <ul style="list-style-type: none"> • ADD-ON SLOT. • HEATED WORKTABLE: HARDENED GLASS 5 MM, SILICONE HEATER 140 W, TEMPERATURE <ul style="list-style-type: none"> • UP TO 120C. 	
DIMENSIONS	<ul style="list-style-type: none"> • WORKING AREA: 250 X 235 X 165 MM. MAXIMUM POSSIBLE WORK AREA 300 X 235 X 165 MM (WITH REMOVED / OPEN COVERS). <ul style="list-style-type: none"> • DIMENSIONS: 530 X 555 X 480 MM. • WEIGHT: 20 KG WITH PACKAGING (BASIC VERSION). 	
POSITIONING PRECISION	<ul style="list-style-type: none"> • 14 MICRONS FOR X AND Y AXIS, 0.625 MICRON FOR Z AXIS. 	
RESOLUTION	<ul style="list-style-type: none"> • 50 - 400 MICRONS 	
ELECTRONICS	<ul style="list-style-type: none"> • SUNBEAM 2.0 WITH ARM LPC1769 PROCESSOR, EQUIPPED WITH 5 STEPPER MOTOR DRIVERS - 3 FOR XYZ AXIS, 2 MORE FOR DOUBLE MATERIAL EXTRUDER. <ul style="list-style-type: none"> • INTERNAL DISC DRIVE ACCESSIBLE VIA USB. 	
DISPLAY	<ul style="list-style-type: none"> • CAPACITIVE LCD COLOR TOUCHSCREEN. 	
COMMUNICATION	<ul style="list-style-type: none"> • USB AND LAN (ACCESS TO WIFI AFTER PLUGGING TO WIFI ROUTER). • STANDALONE PRINTING SUPPORTED VIA PANEL + INTERNAL SD CARD. 	



	PLASTIC EXTRUDER 1.75 mm	PLASTIC EXTRUDER 2.85 mm	DUAL PRO 1.75 mm	CNC PRO	LASER MODULE	THICK PASTE EXTRUDER
TECHNOLOGIES	<ul style="list-style-type: none"> • 3D PRINTING 	<ul style="list-style-type: none"> • 3D PRINTING 	<ul style="list-style-type: none"> • 3D PRINTING • MULTIMATERIAL 3D PRINTING • TWO-COLOR 3D PRINTING 	<ul style="list-style-type: none"> • CNC MILLING • CNC ENGRAVING 	<ul style="list-style-type: none"> • LASER CUTTING • LASER ENGRAVING 	<ul style="list-style-type: none"> • 3D PRINTING WITH LIQUID FOOD AND CERAMICS
MATERIALS	<ul style="list-style-type: none"> • ABS • M-ABS • PLA • HIPS • FLEX MATERIALS • NYLON • PVA • PETG • THERMOCHROME • PC • WOOD FILAMENTS • METAL FILAMENTS • AND MANY MORE 	<ul style="list-style-type: none"> • ABS • M-ABS • PLA • HIPS • FLEX MATERIALS • NYLON • PVA • PETG • THERMOCHROME • PC • WOOD FILAMENTS • METAL FILAMENTS • AND MANY MORE 	<ul style="list-style-type: none"> • ABS • M-ABS • PLA • HIPS • FLEX MATERIALS • NYLON • PVA • PETG • THERMOCHROME • PC • WOOD FILAMENTS • METAL FILAMENTS • AND MANY MORE 	<ul style="list-style-type: none"> • PLYWOOD • BEECH • OAK • MAPLE • WALNUT • PINE • CHESTNUT • MACHINING WAX • PCB • PLEXIGLASS • PVC FOAM 	<ul style="list-style-type: none"> • PLYWOOD • EVA FOIL • CARDBOARD • LEATHER 	<ul style="list-style-type: none"> • CERAMIC FILAMENTS • THICK PASTES (CHOCOLATE, CAKE, CERAMICS)
TECH SPECIFICATION						
CONSTRUCTION	HIGH QUALITY LASER CUT 3 mm ALUMINUM FRAME	HIGH QUALITY LASER CUT 3 mm ALUMINUM FRAME	HIGH QUALITY LASER CUT 3 mm ALUMINUM FRAME	STEEL HOUSING	HIGH QUALITY LASER CUT 3 mm ALUMINUM FRAME	HIGH QUALITY LASER CUT 3 mm ALUMINUM FRAME
HOT END	ZMORPH INTERCHANGEABLE NOZZLE 1.75 mm HOTEND	ZMORPH INTERCHANGEABLE NOZZLE 2.85 mm HOTEND	ZMORPH INTERCHANGEABLE NOZZLE 1.75 mm HOTEND			
NOZZLE	0.2 mm, 0.3 mm or 0.4 mm	0.3 mm OR 0.4 mm	0.4 mm			4 mm/2 mm
TEMP CONTROL	1 THERMISTOR	1 THERMISTOR	1 THERMISTOR			
OPERATING TEMP RANGE	0 - 250°C	0 - 250°C	0 - 250°C			
MOTOR	NEMA 17 STEPPER	NEMA 17 STEPPER WITH PLANETARY GEAR	NEMA 11 STEPPER WITH PLANETARY GEAR X2	BRUSHED MOTOR	NEMA 17 STEPPER	NEMA 17 STEPPER
DEFAULT WORK SPEED	40 mm/s	40 mm/s	30 mm/s	START WITH 4 mm/s AND ADJUST SLOWER/FASTER ACCORDINGLY TO MATERIAL USED	5 mm/s	10 mm/s (ADJUST TO MATERIAL)
MAX WORK SPEED	120 mm/s	120 mm/s	120 mm/s	120 mm/s	120 mm/s	120 mm/s
EXTRUSION	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE			DIRECT DRIVE
WORK AREA LXWXH (mm)	250 x 235 x 165	250 x 235 x 165	250 x 235 x 165	250 x 235 x 85	250 x 235 x 165	250 x 235 x 165 WITHOUT CHAMBER COVERS
RECOMMENDED PRINTING RESOLUTION	0.2 mm LAYER HEIGHT (200 MICRONS)	0.2 mm LAYER HEIGHT (200 MICRONS)	0.2 mm LAYER HEIGHT (200 MICRONS)			2 mm LAYER HEIGHT (2000 MICRONS)
SUPPORTED PRINTING RESOLUTION	0.025 - 0.4 mm LAYER HEIGHT (25 - 400 MICRONS)	0.025 - 0.4 mm LAYER HEIGHT (25 - 400 MICRONS)	0.025 - 0.4 mm LAYER HEIGHT (25 - 400 MICRONS)			0.5 - 4 mm LAYER HEIGHT (500 - 4000 MICRONS)
RECOMMENDED CUTTING RESOLUTION				0.5 mm LAYER HEIGHT	0.1 mm LAYER HEIGHT	
SUPPORTED CUTTING RESOLUTION				0.025 - 0.4 mm	0.025 - 0.2 mm	
MATERIAL CAPACITY						MAX 100 ml
DIMENSIONS	135 x 115 x 55 mm	150 x 115 x 55 mm	170 x 115 x 70 mm	ø 54 x 175 mm	40 x 101 x 136 mm + 64 x 115 x 30 mm (electronics)	70 x 43 x 271 - 380 mm
LASER MODULE					2 W BLUE LASER MODULE	

VOXELIZER SOFTWARE

DESCRIPTION	VOXELIZER IS A DEDICATED SOFTWARE PACKAGE DESIGNED TO DRIVE ZMORPH AND IS THE ONLY SOFTWARE THAT TAKES FULL ADVANTAGE OF ZMORPH VERSATILITY. WORKS WITH MOST FILE FORMATS, ALLOWS ADVANCED MODEL EDITING AND IT'S FREE, FAST AND EASY.			
SUPPORTED FILE FORMATS	<ul style="list-style-type: none"> • .DCM • .STL • .GCODE • .G • .X 	<ul style="list-style-type: none"> • .MD5 • .BLEND • .FBX • .DAE • .3DS 	<ul style="list-style-type: none"> • .PLY • .DXF • .PNG • .JPG • .BMP 	<ul style="list-style-type: none"> • .VOX • .SVX • .VDB • .PCD • .OBJ
SUPPORTED OS	WINDOWS: 7, 8, 8.1, 10. OS X: 10.9 + (UPCOMING: LINUX)			
SUPPORTED TECHNOLOGIES/ WORKFLOWS	<ul style="list-style-type: none"> • 3D PRINTING, • 3D & 2D MILLING, • LASER CUTTING, • CHOCOLATE/CERAMICS, 		<ul style="list-style-type: none"> • CALIBRATION, • TIME LAPSE, • IMAGE ETCHING, • 3D SCANNING 	
ON-SPOT MODEL EDITING	<ul style="list-style-type: none"> • ADDING, CUTTING, RESIZING PARTS OF THE OBJECT • APPLYING FILTERS 			
MODEL PREPARATION FUNCTIONS	<ul style="list-style-type: none"> • STRENGTHENING WEAKEST PARTS OF THE MODEL • GENERATING ADAPTIVE SUPPORT STRUCTURES 		<ul style="list-style-type: none"> • THICKENING FRAGILE AND WEAK PARTS SELECTIVELY • GENERATING G-CODES FOR SINGLE AND DUAL HEAD EXTRUDERS 	

