

XceL

DATASHEET

V01-07



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1. Technical specifications

Printer Model	Xcel				Approval Signature								
Document Version	V01-07				Date signed								
Specification	Metric					Imperial							
Physical dimensions (DWH)	935	x	1033	x	2775	mm		37	x	41	x	109	inch
Printer Weight	200				kg		441				lbs		
Input voltage range	190-264VAC												
Input frequency	47 - 63 Hz												
Power consumption	1140W												
Build size single extruder (DWH)*	520	x	538	x	2320	mm		20.5	x	21.2	x	91.3	inch
Build size dual extruder (DWH)*	520	x	510	x	2320	mm		20.5	x	20.1	x	91.3	inch
Build volume	649.0				L		142.8				gall.		
Heated bed max temp	80				°C		176				°F		
Heated Chamber	No												
Hot end Max temp	275				°C		527				°F		
Number of extruders	2												
Extruder size(s)	0.35	,			1.2	mm		1.38E-02	,			4.72E-02	inch
Filament size	1.75				mm		6.89E-02				inch		
Layer thickness	0.1	-			0.6	mm		3.94E-03	-			2.36E-02	inch
Max. flow rate*	2700		$\frac{\text{mm}^3}{\text{min}}$		45	$\frac{\text{mm}^3}{\text{s}}$	-	1.65E-01		$\frac{\text{inch}^3}{\text{min}}$		2.75E-03	$\frac{\text{inch}^3}{\text{s}}$
Max. travel speed (DW)	10800		$\frac{\text{mm}}{\text{min}}$		180	$\frac{\text{mm}}{\text{s}}$	-	425		$\frac{\text{inch}}{\text{min}}$		7	$\frac{\text{inch}}{\text{s}}$
Stepper motors	1.8° Step angle with 1/32 micro stepping												
Positioning accuracy (DW)	0.018				mm		7.09E-04				inch		
Positioning accuracy (H)	0.010				mm		3.94E-04				inch		
Body/frame construction	Aluminium Framework												
Heated bed construction	Granite Composite												
Automatic Printbed Z-levelling	Yes												
Ethernet connection	Yes												
Wireless	Yes												
Internal OS	Linux												
USB standalone format	.Gcode format												
USB connection to computer	None												
Printable materials	PLA												

DWH: Depth, Width, Height. Coordinate system reference Y, X, Z

*Print head in development with an expected increase in build size width (570mm) and print flow (80mm³/s)

2. Non-disclosure

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