

# Roboze One +400 XTREME



## DIMENSIONS

|                     |   |
|---------------------|---|
| <b>External</b>     | (X)550 x (Y)650 x (Z)890 mm / 21.7x25.6x35.0 in   |
| <b>With Cabinet</b> | (X)800 x (Y)700 x (Z)1890 mm / 31.5x27.6x74.4 in  |
| <b>Build Volume</b> | (X)300 x (Y)250 x (Z)220 mm / 11.8x9.8x8.7 in     |
| <b>Shipping Box</b> | (X)1020 x (Y)930 x (Z)2100 mm / 40.2x36.6x82.7 in |
| <b>Weight</b>       | 300 Kg / 660 lb                                   |

## ACCURACY

|                                  |                                 |
|----------------------------------|---------------------------------|
| XY: 15 $\mu$ m / 590.55 $\mu$ in | Z: 25 $\mu$ m / 984.25 $\mu$ in |
|----------------------------------|---------------------------------|

## RESOLUTION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Quality Profile: 0.18 mm / 0.007 in | Speed Profile: 0.24 mm / 0.009 in |
|-------------------------------------|-----------------------------------|

## PRINT SPEED

4000 mm/min - 157 in/min

## ELECTRONICS

Stepper Motors with High Resolution Encoders

Stepper Driver with heat sinks

5" Display touch screen

Maximum Power Absorbed: 2300 W

Temperature sensors in the extruder and the building plate

Build plate heated up to 150°C / 302°F

200 to 240 V AC ( $\pm 10\%$  max), 50/60 Hz

## MATERIALS

|             |           |                  |            |         |
|-------------|-----------|------------------|------------|---------|
| PEEK        | PP        | FUNCTIONAL-NYLON | STRONG-ABS | ABS-ESD |
| CARBON PEEK | CARBON PA | FLEX-TPU         | ULTRA-PLA  |         |

## EXTRUDER MECHANICS

High thermal efficiency extruder block with 1 extruder

Extrusion temperature up to 450°C/842°F

Tip2-B - 0,4 mm/0.016 in

Tip2-HA - 0,4 mm/0.016 in

Tip3-HSA - 0,4 mm/0.016 in (HVP)

Compressed air cooling system for HVP extruder

## GENERAL MECHANICS

Electro-galvanized steel frame and cover

C50 hardened and chromed steel brass for X and Y supports

High precision ball sleeves for X and Y linear motion

Mechatronic movement of X and Y axes with C5 hardened helical rack and pinion

C7 ball screw nut seat with aluminum flexible spider shaft coupling to absorb vibrations from Z motor

Mobile components and aluminum supports from CNC mechanical precision machining

Vacuum system for the adhesion of the polymeric films

Build plate auto-levelling

Integrated HT Dryer up to 120°C/248°F with automatic filament loading

Auxiliary pneumatic system

## CONTENT

|                  |                          |
|------------------|--------------------------|
| USB flash drive  | 3,0 mm (1/8") key wrench |
| Thickness gauge  | Screwdriver              |
| Safety goggles   | Blister of Grease        |
| Safety gloves    | Panel key                |
| Metallic spatula |                          |

## SLICING SOFTWARE

Simplify3D

## COMMUNICATIONS

Wi-fi & Ethernet connection

USB output type B

## EMEA HEADQUARTERS

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## USA HEADQUARTERS

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