RoboxDual™ is an update to the original Robox and includes a DualMaterial™ Head, 2 extruders and the ability to print in 2 materials at once. Updated parts and manufacturing techniques provide redundancy and future proofing.

2 HeadLock™ compatible heads are included in this package; providing improved detail, higher speeds and model strength and now multiple materials in a single print. The unique DualMaterial™ Head and the spectacular QuickFill™ Head which has won Robox so much praise.

The best thing about dual material printing is the ability to create parts which were previously difficult or even impossible with a single material printer. By creating a support structure with a material which can peel away or be dissolved from the model easily we can increase the accuracy of overhangs and still remove these supports without damaging the model. A mechanical design engineer can now prototype injection mould designs on their desk without needing to modify the design for ease of printing.

Get a Robox on your desk now!

Robox offers better features, resolution and reliability than a 3D printer more than 10x the price. Stop queuing for that clunky old overpriced industrial printer or waiting for parts from the cripplingly priced prototype bureau. Make what you need, when you want to, easily.

Professional users

On desk prototyping, simple 3 step workflow, plug and print. Increased productivity will be easy to prove. Dual material printing does not need a big investment or extra staff to run it. Try one Robox and you will soon invest in many more, the price of Robox allows every engineer to have one on their desk.

Home users

Robox will soon be your favourite tool, it is easy to use due to good design. This design does not limit its potential, it leaves you as a user able to spend more time creating and less time scratching your head wondering what the printer is doing. Start your 3D print experience with a successful print, not a soldering iron.

Educators

At any level, Robox can help to demonstrate an idea, prove a theory or inspire a career. Robox will give teachers the confidence to press print and be certain of the result or even to allow students full access to the printer due to inbuilt safety features.

3D print experts

You may have tried the best of the rest, the kit printers, the well known competition of Robox, all of them are using the same technologies. Some do it well, some have good features but none of them have true innovation. Robox nozzles close, this is unique to Robox. Ooze, stringing, retracts, you know these terms, they don't apply to Robox. Viscous materials will not leak out, dual material printing will not waste material and time doing purges, wipe towers or heating/cooling operations. Robox nozzles lift out of the way when not in use, they don't drag across the print or get stored away to dribble in the corner.

Robox changing materials during a print: Close>Change>Open>Extrude, it happens in less time than it takes to read those 4 words.

If you are still manually levelling your bed, you need a Robox. If you wait 10 mins or more for your bed to heat and don't get to see the first layer, you need a Robox. If your calibration procedure is mysterious and confusing with variable results, you need a Robox. If you are spending more time fiddling with settings and doing test prints than designing and using the results, you should have bought a Robox in the first place. The materials range? Infinite ∞ because Robox will allow you to use any material you want. If you know what you are doing and are prepared to take responsibility, you can feed any 1.75mm filament into Robox.

A robot in a box, Robox.

Robox is more than just a 3D printer, it is a micro-manufacturing platform. The precise positioning of the 3 axis system along with the mechanical and electronic design of the HeadLock system provides a robust framework on which to build a range of manipulators and scanning devices to allow this robot in a box to do much more than just create beautiful 3D prints.

HeadLock™

- Allows quick change of the printhead
- Simple one-handed operation
- Automatic head-type recognition
- Fully automatic bed levelling system
- Future upgradeable for new functionality

These 2 heads are included in this package:

[Robox Dual Material Head]

DualMaterial™ FFF Head

- Print with two different materials or colours
- Compatible with the HeadLock system
- All metal construction with 280°C max
- Dual Ø0.4mm nozzles
- Intelligent and independent heater control
- Fast heat-up time – ready to print in <1 min
- Needle-valve flow control
- No ooze or stringing between parts

Robox QuickFill Single Material Head

QuickFill™ FFF Head

- Dual nozzle system for faster prints
- Compatible with the HeadLock system
- All metal construction with 280°C max
- Detailed perimeter nozzle (Ø0.3mm)
- Fast infill nozzle (Ø0.8mm)
- Fast heat-up time – ready to print in <1 min
- Needle-valve flow control
- No ooze or stringing between parts

SmartExtruder™

- Dual extruders for two different print materials
- Fully-automatic material loading/unloading
- SurePrint™ system for trouble-free prints
- Dual pinch-wheel feed system for high flow rates
- Flexible material compatible

AutoMaker™

- Intuitive easy-to-use interface with 3 steps to print
- Real-time printing status and feedback
- Supports pause and resume of printjobs
- Support for multiple printers/projects
- Automatic support material generation
- Support for .stl and .obj 3D models
- Supports Windows 7+, MacOS 10.8.3+ and Linux

SmartReel™

- Fully automatic material recognition
- Rewriteable EEPROM stores material data
- Re-useable/re-programmable spools
- Stores filament remaining with run-out detection
- Wide range of materials and colours available

ThermoSurface™

- Heated bed with fast heat up time
- No tape/adhesive required
- Excellent adhesion with a wide range of materials
- Parts easily removed once complete
- Maximum temperature of 150°C

SafeLock™

- Fully enclosed build area to reduce shrinkage
- Locking door for safety during printing
- Compact desktop footprint for use on any desk

Whats in the Box?

- RoboxDual™ Micro-Manufacturing Platform
- 2x RBX01-X2 Extruders
- DualMaterial™ FFF Print Head (RBX01-DM)
- EXTRA HEAD INCLUDED! QuickFill™ FFF Print Head v2 (RBX01-S2)
- 1x SmartReel™ (~120m) of Robox Orange PLA
- 1x SmartReel™ (~120m) of PolySupport
- Dual Reel Adaptor (RBX01-DA)
- Set of 4 Cleanup Tools
- Bottle of Axis Lubricant (7ml)
- Bed Cleaning Wipes (10)
- Tweezers
- 2GB USB Drive containing AutoMaker™ software and sample models
  ->We recommend downloading the latest version www.cel-robox.com/downloads/
- 2m USB Cable
- 2m IEC C6 AC Power Cable
- Quick Start Guide
- Safety Information Booklet
- Warranty Registration Card

External Dimensions	410 x 340 x 240mm (16.1 x 13.4 x 9.4″)
Build Volume	210 x 150 x 100mm (8.3 x 5.9 x 3.9″)
Layer Resolution	Custom 50 to 500 microns / 0.05mm to 0.5mm Presets 100, 200, 300 microns / 0.1 to 0.3mm
Positioning Precision	XY: 7.5 microns (0.0003″) Z: 0.15625 microns (0.000006″)
Nozzle Diameter(s) **QuickFill™ Head**	0.3mm and 0.8mm (0.012″ and 0.031″)
DualMaterial™ Head	2x 0.4mm (0.015″)
SingleX™ Experimental Head (optional)	0.6mm (0.023″)
Material Compatibility	Ø1.75mm Filament

PLA, ABS, HIPS, Nylon, PC, PVOH, CO-PET, PETG, TPU and variants of these materials.

SingleX™ only – Carbon-filled, Glass-filled and ‘Glow in the dark’ materials (i.e. abrasive).

Robox® AutoMaker™	Supported Operating Systems Windows, MacOS, Linux
Heatup Speed	Bed: 130°C in 4 mins to 150°C MAX Nozzle: 240° in 1 min to 280°C MAX