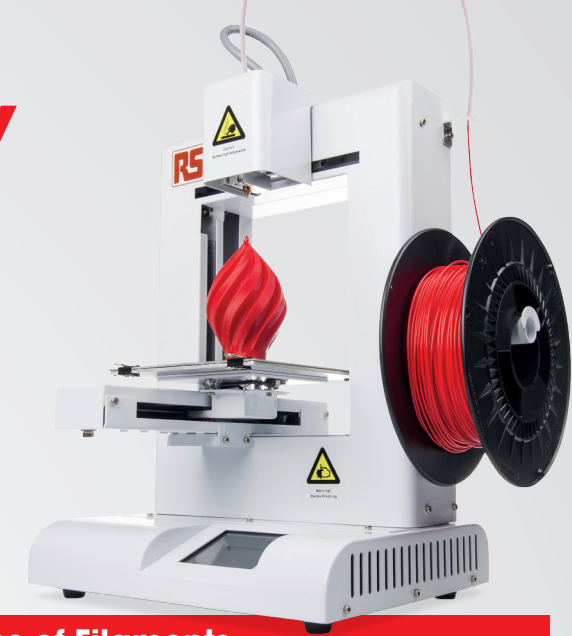




# OVERVIEW OF RS FILAMENT AND 3D PRINTER COMPATIBILITY

This is not a complete list but a selection of popular 3D printers available in the market in October 2015 when the document was created.



PRINTER	DIAMETER	RS PLA (PLA)	RS ABS (ABS)	RS ABS PRO (M-ABS)	RS EZ-GLASE (PET-G)	RS WOOD (WOOD)	RS NYLON (PA12)	RS FLEXIBLE (TPC45)	RS HIPS (HIPS)	RS CARBON EZ (CARBON-P)	RS CLEAR 65 (GLASSBEND)	RS PVA (PVA)	RS THERMOCHROME (TPLA)
Afinia H480	1.75	Yes	Yes	Yes	Experimental	Experimental	Experimental	Experimental	Experimental	Experimental	Experimental	Experimental	Yes
Airwolf Axiom	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Airwolf Axiome	1.75	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Airwolf HD	1.75	Yes	Yes	Yes	Yes	Yes	No	Experimental	Yes	Yes	Yes	Yes	Yes
Airwolf HD2x	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Airwolf HDL	1.75	Yes	No	No	Yes	Yes	No	Experimental	Yes	Yes	Yes	Yes	Yes
Airwolf HDR	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Airwolf HDX	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BE3D DeeGreen	1.75	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Beeverycreative Beeprusa	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes	Yes
BeeVeryCreative BeeTheFirst	1.75	Yes	No	No	No	Yes	No	No	No	No	No	Yes	Yes
BQ Witbox	1.75	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Builder	1.75	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Cel Robox	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Experimental	Yes	Yes	Yes	Yes	Yes
Crafbot Plus	1.75	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
CTC-3D	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes	Yes
Deltawasp	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Experimental	Yes	Yes	Experimental	Yes	Yes
Dremel Ideabuilder	1.75	Yes	No	No	No	Yes	No	No	No	No	No	Yes	Yes
Felix 2.0	1.75	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Felix 3.0	1.75	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Felix Pro 01	1.75	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Flashforge Creator Pro	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes	Yes
Flashforge Dreamer	1.75	Yes	No	No	No	Yes	No	No	No	No	No	Yes	Yes
Leapfrog Creatr	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes	Yes
Leapfrog Creatr HS	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes	Yes
Lulzbot Mini	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LulzbotTaz 4 / 5	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Makerbot Replicator 2	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes	Yes
Makergear M2	1.75	Yes	Yes	Yes	Yes	Yes	No	Experimental	Yes	Yes	Yes	Yes	Yes
Mankati XT Plus	2.85	Yes	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes
Mass Portal Pharaoh ED	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mendelmax 3	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mutoh Mf-500	1.75	Yes	No	No	No	Yes	No	No	No	No	No	Yes	Yes
Powerwasp	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Experimental	Yes	Yes	Experimental	Yes	Yes
Printrbot (entire range)	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes	Yes
RepRapPro Omerod 2	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes	Yes
Robo R1 +Plus	1.75	Yes	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes
RS Ideawerk	1.75	Yes	No	No	No	Yes	No	Experimental	No	No	No	Yes	Yes
RS Ideawerk Pro	1.75	Yes	Yes	Yes	Yes	Yes	No	Experimental	Experimental	Yes	Yes	Yes	Yes
Sharebot Kiwi 3D	1.75	Yes	Yes	Yes	Yes	Yes	No	Experimental	Yes	Yes	Yes	Yes	Yes
Sharebot Next Gen.	1.75	Yes	Yes	Yes	Yes	Yes	No	Experimental	Yes	Yes	Yes	Yes	Yes
Sharebot XXL	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Experimental	Yes	Yes	Yes	Yes	Yes
Solidoodle Apprentice	1.75	Yes	No	No	No	Yes	No	No	No	No	No	Yes	Yes
Solidoodle Press	1.75	Yes	No	No	No	Yes	No	No	No	No	No	Yes	Yes
Solidoodle Workbench	1.75	Yes	No	No	No	Yes	No	No	No	No	No	Yes	Yes
Ultimaker 1	2.85	Yes	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes
Ultimaker 2	2.85	Yes	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes
Ultimaker 2 Extended	2.85	Yes	Yes	Yes	Yes	Yes	Yes	Experimental	Yes	Yes	Yes	Yes	Yes
Wanhao Duplicator 4S	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Experimental	Yes	Yes	Yes	Yes	Yes
Wanhao Duplicator 5	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Experimental	Yes	Yes	Yes	Yes	Yes
Wanhao Duplicator 5S	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Experimental	Yes	Yes	Yes	Yes	Yes
Wanhao Duplicator i3	1.75	Yes	Yes	Yes	Yes	Yes	Experimental	Experimental	Yes	Yes	Yes	Yes	Yes
Zortrax M200	1.75	Experimental	Yes	Yes	Experimental	Experimental	Experimental	Experimental	Experimental	Experimental	Experimental	Experimental	Experimental

## Types of Filaments

### RS PLA (PLA)

Easy to print, no heated bed needed, low temperature, should work on 99,99% of the printers on the market. Bio degradable. We use grade A colourants in all our filaments which in turn makes that RS PLA will not change colour after prolonged UV exposure.

### RS ABS (ABS)

Tough to print, requires heated bed, higher temperatures. Most interesting for prints that need to sustain heavy usage and outside weather conditions.

### RS ABS PRO (M-ABS)

Same as ABS, tends to warp less than regular ABS and has a little to zero smell.

### RS EZ-GLASE (PET-G)

Easy to print (like PLA), no heated bed required but having one is always a pro. Excellent colours and has hydrophobic properties so very suitable for objects that get in contact with water / moisture.

### RS WOOD (WOOD)

Easy to print (like PLA), no heated bed required. Colour changing in between layers is possible by using multiple extrusion temperatures. Easy to sand etc. Behaves like real wood and smells like real wood. Easiest printable wood on the market (we think).

### RS NYLON (PA12)

Very high temperature and technical product that requires a heated bed of +100c and recommend to use a closed printer. Not ment for the typical 3D printer owner.

### RS FLEXIBLE (TPC45)

Easy to print on direct drive printers but not recommended for "bowden setup" printers like for example an Ultimaker 2 as it flexes in the tube. This is the case for any flexible material on the market in combination with this extruder setup.

### RS HIPS (HIPS)

Easy to print, almost no warping, matte finish and perfect for detailed prints (miniature and large). Perfect for glueing, sanding and painting. Dissolves in D'limonene

### RS CARBON EZ (CARBON-P)

Easy to print (like PET-G) and the easiest to print carbon filament on the market (we think). Since it contains carbon fibers the material is highly abrasive which will degrade any metal part that it touches between 250 - 500gr. Excellent product to upsell new nozzles.

### RS CLEAR 65 (GLASSBEND)

Replacement product for the more well known "Bendlay" from Kai Parthy. Excellent translucency (92%) but sometimes a bit hard to print with (narrow printing temperature window). When the temperature is under control it's an very interesting product.

### RS PVA (PVA)

PVA is THE material for dual extrusion prints as support material. Dissolves in lukewarm water. Always print at the lowest possible temperature as this will greatly increase print succes rates. Preferred storage = Airtight, moisture free container in the dark.

### RS THERMOCHROME (TPLA)

Basically PLA with a thermochromatic add on that changes colour at around 31c and will go back to the original colour when cooled. Great for artists and people that want to showcase thermal dispersion in technical models.