SPECIFICATIONS

Model	MakerBot® Replicator® 2X	MakerBot® Replicator® Mini	MakerBot® Replicator® Desktop	MakerBot® Replicator® Z18	MakerBot® Replicator® Mini+	MakerBot® Replicator+® Desktop
PRINTING SPECIFICATIONS						
Print Technology	Fused Deposition Modeling					
Build Volume	24.6 L x 15.2 W x 15.5 H cm [9.7 L x 6.0 W x 6.1 H in]	10.0 L x 10.0 W x 12.5 H cm [3.9 L x 3.9 W x 4.9 H in]	25.2 L x 19.9 W x 15.0 H cm [9.9 L x 7.8 W x 5.9 H in]	30.5 L x 30.5 W x 45.7 H cm [12.0 L x 12.0 W x 18.0 H in]	10.1 L x 12.6 W x 12.6 H cm [4.0 L x 5.0 W x 5.0 H in]	29.5 L x 19.5 W x 16.5 H cm [11.6 L x 7.6 W x 6.5 H in]
Layer Resolution	100 Microns [0.0039 in]	200 Microns [0.079 in]	100 Microns [0.0039 in]			
Filament Diameter	1.75 mm [0.069 in]					
Filament compatibility	MakerBot ABS Filament / MakerBot Dissolvable Filament (Support 2 Filaments)	MakerBot PLA Filament (Support 1 Filament)			MakerBot PLA Filament Small Spool	MakerBot PLA Filament Large Spool, MakerBot PLA Filament Small Spool, MakerBot Tough PLA Filament Large Spool
MECHANICAL SPECIFICATIONS						
Build Platform	Heated, black anodized 356F aluminium	Injection-molded Acrylic	Glass	Injection-molded PC-ABS	Grip Surface	
DIMENSIONS						
Product Dimensions	Product without spool: 32.0 W x 49.0 D x 53.1 H cm [12.8 W x 19.1 D x 20.9 H in] Product with spool: 42.0 W x 49.0 D x 53.1 H cm [12.8 W x 19.1 D x 20.9 H in]	31.0 W x 29.5 D x 38.1 H cm [12.2 W x 11.6 D x 15.0 H in]	52.8 W x 44.1 D x 41.0 H cm [20.8 W x 17.4 D x 16.2 H in]	49.3 L x 56.5 W x 85.4 H cm [19.4 L x 22.2 W x 33.6 H in]	29.5 L x 34.9 W x 38.1 H cm [11.6 L x 13.8 W x 15.0 H in]	52.8 L x 44.1 W x 41 H cm [20.8 L x 17.4 W x 16.2 H in]
Product Weight	12.6 kg [27.8 lbs]	8 kg [18 lbs]	16 kg [35.5 lbs]	41 kg [90 lbs]	9.3 kg [20.5 lbs]	18.3 kg [40.4 lbs]
SOFTWARE						
Software Bundle*	MakerBot MakerWare / MakerBot Desktop / MakerBot PrintShop / MakerBot Mobile				MakerBot Print / MakerBot Mobile	
File Types	STL, OBJ, THING	STL, OBJ, THING, MAKERBOT			STL, OBJ	
Operating Systems	Windows (XP 32-bit/7+) MAC OS X (10.6+) Linux (Ubuntu 12.04+)	Windows (7+) Mac OS X (10.7+) Linux (Ubuntu, Ferdora)			Windows (7, 10) Mac OS X (10.9+)	
Connectivity	USB (Cable connect to PC), SD Card (Both included)	USB (Cable connect to PC)	USB (Cable connect to PC), USB (Flash drive) and Ethernet	USB (Cable connect to PC), USB (Flash drive), Ethernet and WI-FI	USB (Cable connect to PC) and WI-FI	USB (Cable connect to PC), Ethernet and WI-FI
ELECTRICAL						
Power Requirements	100-240 V, 50-60 HZ	100-240 V, 0.75-0.41 A, 50-60 HZ, 100 W	100–240 V, 0.76–0.43A, 50–60 Hz, 100W	100-240 V, 5.4-2.2 A, 50/60 HZ, 350 W	100-240 V, 0.76-0.43 A, 50-60 HZ	
CAMERA						
Resolution	Nil	320 x 240			640 x 480	

Model	MakerBot® Digitizer™ Desktop 3D Scanner
SCANNING	
Scan Volume	Up to 20.3 cm (DIAMETER)x 20.3 cm (HEIGHT) [8 x 8 in]
Dimensional Accuracy	+- 2.0 mm [+- 0.079 in]
Detail Resolution	0.5 mm [0.0197 in]
Triangles per 3d model	Approx. 200K
Scan speed	Approx. 12 Minutes
Scan per rotation	800 per rotation
Maximum weight on turntable	3 kg [6.6 lbs]
Optimal light conditions	Artificial indoor light
ELECTRICAL	
Power Requirements	100–240 V, ~2 A, 50–60 HZ
MECHANICAL SPECIFICATIONS	
Product Dimensions	47.5 L x 41.1 W x 20.3 H cm [18.7 L x 16.2 W x 8.0 H in]
Product Weight	4.7lbs / 2.1 kg
SOFTWARE	
Software*	MakerWare for Digitizer
Operating Systems	Windows (7+) Mac OS X (10.7+) Linux (Ubuntu)
File Types	STL ,THING
COMPONENTS	
Lasers	Two eye-safe class 1 laser line generators
Connectivity	USB Connection

* Download from MakerBot website.

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MAKERBOT® REPLICATOR® 3D PRINTERS

IN DESKTOP 3D PRINTING,
DESKTOP 3D SCANNING, AND 3D ENTERTAINMENT

MakerBot Reseller

MAKERBOT REPLICATOR 3D PRINITING PLATFORM

EASY TO USE

- Friendly & intuitive interface
- Lightning-fast processor for rapid printing
- On-board camera, storage and diagnostics

* Exclude MakerBot Replicator 2X

SEAMLESS CONNECTIVITY

- Cloud enabled
- Easy access to your document library
- Wi-Fi, USB, Ethernet

MAKERBOT APPLICATIONS

Mobile APPS

iOS 7 or above

Android 4.0.3 and up

- MakerBot Desktop – Discover, manage and share your 3D prints
- MakerBot Mobile – Monitor and Control your 3D Printer
- MakerBot PrintShop – Easy to Use tools to create and make cool things

* Free download

MakerBot Makerware

- Drive your MakerBot Replicator Desktop 3D Printer
- Free, easy to use and sophisticated

* For selected model only

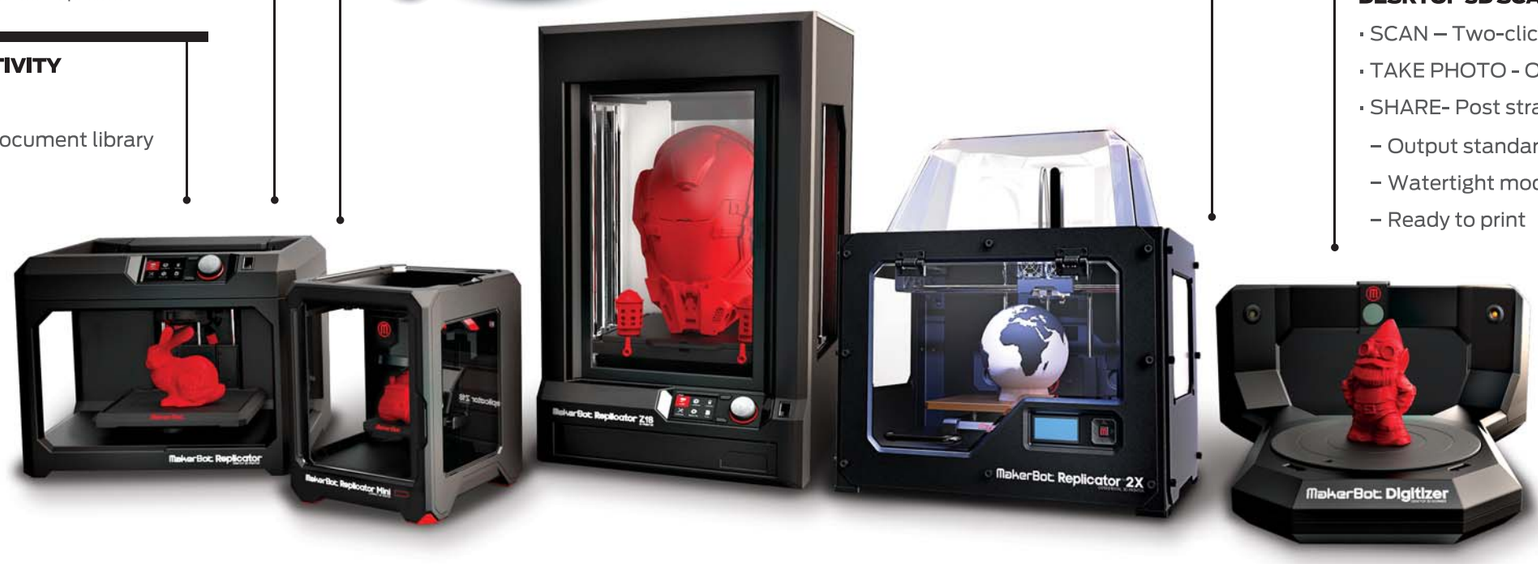
MAKERBOT REPLICATOR SMART EXTRUDER

- Easy to swap or replace
- Detects filament absence and automatically pauses your print job
- Send notifications to MakerBot Desktop or Mobile apps

MAKERBOT® DIGITIZER™

DESKTOP 3D SCANNER

- SCAN – Two-click simplicity
- TAKE PHOTO - On-board camera makes it easy
- SHARE- Post straight to Thingiverse
  - Output standard 3D file; can improve, shape etc.
  - Watertight models
  - Ready to print



MAKERBOT FILAMENT

In addition to the full range of MarkerBot 3D printers, Ricoh will also provide varieties of color and material for filaments and related supplies.

MakerBot PLA Filament
It is a bioplastic derived from corn. It's guaranteed not to have any heavy metals, phthalates or BPA.

MakerBot ABS and Dissolvable Filament
It is good for detailed prints and can be used in conjunction with MakerBot Dissolvable Filament. The dissolvable filament acts as solid infill material and easily dissolves in limonene bath in just 8-24 hours (depending on size and geometry of print).

Compatibility

Material	PLA			Tough PLA	ABS	Dissolvable
Size(Weight)	Small (0.2kg)	Large (0.9kg)	XL (2.26kg)	Large (0.9kg)	1kg	1kg
Replicator Mini+	✓					
Replicator+ Desktop	✓	✓		✓		
Replicator Mini	✓					
Replicator Desktop	✓	✓		✓		
Replicator Z18	✓	✓	✓	✓		
Replicator 2X					✓	✓

A Filament Usage Amount Test of 50 mm Cube*

		Infill			Resolution		
		(Standard) 5%	(Standard) 10%	(Standard) 15%	Low (Faster)	Standard	High (Slower)
Z18	Filament – PLA	0.052 lb / 23.51 g	0.063 lb / 28.70 g	0.078 lb / 35.42 g	0.064 lb / 29.25 g	0.063 lb / 28.70 g	0.80 lb / 36.43 g
	Print Time	1 h 43 m	2 hr 34 m	2 hr 21m	1 hr 22 m	2 hr 34 m	5 hr 55 m
2X	Filament – ABS	0.055 lb / 24.92 g	0.068 lb / 30.80 g	0.083 lb / 37.49 g	0.069 lb / 31.40 g	0.068 lb / 30.80 g	0.085 lb / 38.57 g
	Print Time	1 hr 39 m	1 hr 57 m	2 hr 17m	1 hr 20 m	1 hr 57 m	4 hr 36 m

* This is a simulation results for reference only.

RICOH SERVICE SUPPORT

In order to meet customer demand on 3D printing, Ricoh leverages on our strength in providing comprehensive service from consultation, installation, on-site training service and warranty service.

Ricoh has large team of technical engineers can provide the installation service and 1- 2 hours on-site training for new purchase client. Also, all the new purchase from RHK will provide 12 months warranty include Carry-in and On-site service, enabling customers to enjoy 3D printing without burden.

For any enquiries about the support service, please contact your Account Manager.