



HYREL 3D

High Reliability, High Versatility
3D Printers from Atlanta, Georgia
sales@hyrel3d.com 404-914-1748
More info at <http://hyrel3d.com>

HYREL Specifications

Motion Control:

Precision Ball Screw in Z-axis
Precision Linear Bearing System in X, Y, and Z Axes

Positional Resolution:

Less than 5 microns in the X and Y Axes
Less than 1 micron in the Z-axis (layer thickness)

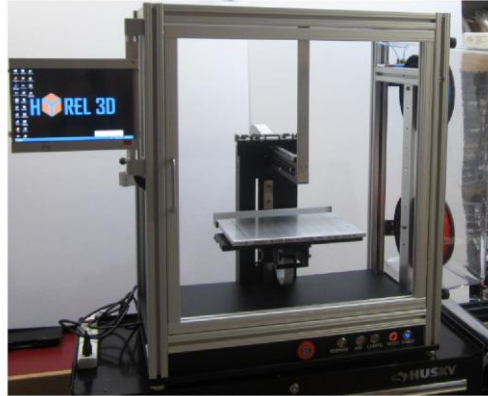
Positional Accuracy:

+/- 50 microns in the X and Y Axes over 200x200mm area
+/- 20 microns in the Z-axis over 200mm height

Embedded PC with Multitouch Screen
Separate 150+ MHz 32-bit ARM processor
Integrated Dual CAN-bus architecture
Integrated Web-Cam for build-area monitoring

Power: 600 W minimum
Voltage: 115 / 230 V
Current: 16 / 8 A
Frequency: 60 / 50 Hz

**All Metal Construction with
Precision Linear Bearings and Ball Screws**



Enclosed: The System 30



Unenclosed:
The Engine

Current Bundles, January 2015:

Enclosed **SYSTEM** with two heads*: **\$3995.00** (Base System list price: \$4000.00 with no heads)

Unenclosed **ENGINE** with two heads*: **\$2695.00** (Base Engine list price: \$2495.00 with no heads)

**Only MKI-250°C and EMO-25 Standard extruders are included in discounted bundles.*

Cold Flow: The EMO-25 prints in Biologicals, Clays including PMC, Plasticine, Plah-Doh, Porcelain, RTV Silicone, Sugru (Rubber), Sculpey... etc.

EMO-25: Emulsifiable extruder with one 25cc tube and one set of 1.0, 1.5, 2.0mm tips, \$225.00

EMO-25 Pro: Emulsifiable extruder with two 25cc tubes and two sets of 1.0, 1.5, 2.0mm tips, \$300.00

Warm Flow: The VOL-25 prints in Waxes and similar materials at up to 100°C. The KRA-15 prints in Polyurethane and materials at up to 150°C.

VOL-25: Heated emulsifiable extruder (up to 100°C) with one 25cc tube and one set of 1.0, 1.5, 2.0mm tips, \$500.00

VOL-25 Pro: Heated emulsifiable extruder (up to 100°C) with two 25cc tubes and two sets of 1.0, 1.5, 2.0mm tips, \$600.00

KRA-15: Heated emulsifiable extruder (up to 150°C) with one 15cc stainless steel tube and one set of 1.0, 1.5, 2.0mm tips, \$500.00

KRA-15 Pro: Heated emulsifiable extruder (up to 150°C) with two 15cc stainless steel tubes and two sets of 1.0, 1.5, 2.0mm tips, \$600.00

Hot Flow: The MKI-250 prints in ABS, HIPS, LayWoo-d3, PET, PLA, PP, PVA, NinjaFlex, Nylon, T-Glase... nearly any 1.75mm filament at up to 250°C.

Hotter Flow: The MKI-350 prints in more specialized 1.75mm filaments at up to 350°C.

MKI-250: 1.75mm Filament extruder (up to 250°C) with one 0.5mm nozzle, \$250.00

MKI-350: 1.75mm Filament extruder (up to 350°C) with one 0.5mm nozzle, \$350.00

Note: Blank nozzles and 0.35mm nozzles for the MKI extruders are also available.

Crosslink On Demand: The COD-25 prints in materials (like PEG) at room temp. (the VCD-25 at up to 100°C) with photoinitiated crosslinking.*

COD-25: Emulsifiable extruder with photoinitiated crosslinking.* \$350.00

VCD-25: Heated emulsifiable extruder (up to 100°C) with photoinitiated crosslinking.* \$625.00

**COD and VCD Prices are for wavelengths of 365nm, 405nm or 450nm, as specified by the customer. Other wavelengths, including 280nm, are available as special orders - inquire for pricing.*

Additional Tools: May take up one tool position on a printer.

Inspector: Digital Microscope, images via USB, \$125.00

Quiet Storm: Additional cooling fan, \$125.00

Luer Tip Kit: 50cc Syringe, EMO/VOL/KRA/COD/VCD Luer adapter, and four (various sized) Luer tips, \$200.00

SDK: Print Head Software Developer's Kit, with full RealTime Kernel Source Code in C and full Controller Board, \$500.00

Note: Blank nozzles for the EMO, VOL, KRA, COD and VCD extruders are also available.