16A Configurable Printer for Industry and Laboratories
See Additional Pages for Modular Heads for Material Dispensing, Electronics Prototyping/Testing, Machining, and more...

Configure your Hyrel Hydra 16A:

Select Height (required):
- 16AS: Standard (250mm) $9,000
- 16AT: Tall (500mm) $14,000

Select Bed (required):
- 34W: Small, Warm (300x400mm, 120°C) $750
- 34H: Small, Hot (300x400mm, 200°C) $1,500
- 45W: Medium, Warm (400x500mm, 120°C) $1,000
- 45H: Medium, Hot (400x500mm, 200°C) $1,750
- 64W: Large, Warm (400x600mm, 120°C) $1,250
- 64H: Large, Hot (300x400mm, 200°C) $2,000
  *also Chilled and/or Vacuum Bed Options

Lasers (optional):
- LI40: 40w, 1um (10,000nm) $2,000
- LA3-450: 6w, 450nm $1,000
- LA3-450: 3w, 450nm $500

Spindle Tools (optional):
- ST1: DC, 50W $525
- ST3: Three Phase, 400W $750

Additional Yoke (optional):
- AY: 5 Tool Positions $500

Additional Axes (optional):
- AA: A, B, and/or C axis (each axis) $1,000

SPECIFICATIONS:

Motion Control:
- Four Precision Ball Screws in Z-axis
- Precision Linear Bearing Systems in X, Y, and Z Axes

Positional Resolution (minimum movement):
- 5 microns in the X and Y Axes
- 1 micron in the Z-axis (layer thickness)

Positional Accuracy (over entire range):
- +/- 50 microns in the X and Y Axes
- +/- 10 microns in the Z-axis

Integrated Windows TabletPC Multitouch Screen
Integrated Dual CAN-bus architecture
Enclosure heated to 55°C

Power: 750 W
Voltage: 115 / 230 V
Current: 16 / 8 A
Frequency: 60 / 50 Hz

With dozens of heads for thousands of materials and multidisciplinary operations...
30M Desktop System for Business and Education

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

Positional Resolution:
5 microns in the X and Y Axes
1 micron in the Z-axis (layer thickness)

Positional Accuracy (over entire range):
+/- 50 microns in the X and Y Axes
+/- 10 microns in the Z-axis

Integrated Windows TabletPC Multitouch Screen
Integrated Dual CAN-bus architecture
Hotbed to 80°C - Optional enclosure heater to 55°C

Power: 750 W  Voltage: 115 / 230 V
Current: 16 / 8 A  Frequency: 60 / 50 Hz

Enclosed System 30M with one MK1-250: $ 5,000

ESR - Engine (Standard Resolution) for Emulsions

Same specifications as the 30M, without the enclosure.
Not recommended for thermoplastics.

Unenclosed ESR with one EMO-25: $ 2,500

EHR - Engine (High Resolution) for Biologicals

Specifically engineered for microfluidics and bioplotting, with ONE MICRON positioning in X, Y and Z axes!

Closed System EHR with one EMO-25: $ 8,000
Modular Heads for Hyrel Printers

Printing with Filaments

Standard Filaments (ABS, PETG, PLA...):
- MK1-250 - standard $325
- MK1-250XT - extra torque $500

Flexible Filaments (TPE, TPU, PP...):
- MK2-250 - flexibles ONLY $450
- MK2-250XT - extra torque $650

Exotic Filaments (PEEK, PPSU, PEI...):
- MK1-450 - standard $450
- MK1-450XT - extra torque $650

Laser Options

Modular Diode Lasers for All Models:
- LA3-450 - 3W, 450nm $1,000
- LA6-450 - 6W, 450nm $500
- LA5-808 - 5W, 808nm $1,000

CO2 Tube Lasers (Hydra 16AS only):
- LI40 - 40W, 10,000nm $2,000

Spindle Tools

Lightweight Tool for All Models:
- ST1 - 50W, DC $525

Heavy Duty Tool (Hydraz Only):
- ST3 - 3-Phase, 400W $750

Specialty Tools

Electronic Probing Head for Volts, Ohms, and Radio Frequency:
- VORF - Dual Scale Probing Head $2,500

Electro-Melt Spinning:
- EMS $2,500

Pick and Place:
- PNP - Head and Holder $2,500

Microfluidic Options:
- MFH-4 - 4 Syringe System $2,500
- MFH-H - Heating Option $1,000

Inquire about other options.

Printing without Filaments

With optional UV Crosslinking

AMBIENT TEMPERATURE:

<100,000cP, Ambient Temperature, One Material:
- SDS-001 - 1cc BD disposable syringes $400
- SDS-005 - 5cc BD disposable syringes $400
- SDS-010 - 10cc BD disposable syringes $400
- SDS-030 - 30cc BD disposable syringes $400
- SDS-060 - 60cc BD disposable syringes $400
- SDS-150 - 150cc disposable syringes $600

<100,000cP, Ambient Temperature, Two Materials:
- DSD-50 - 1:1, twin 25cc disposable syringes $500
- SMH-2 - programmed ratios from two SDS heads $1,000
- DMH-2 - programmed ratios from two SDS heads $2,500

<250,000cP, Ambient Temperature, One Material:
- SDS-030XT - 30cc BD disposable syringes $500
- SDS-060XT - 60cc BD disposable syringes $500

HEATED HEADS:

<100,000cP, Heated up to 30°C, One Material:
- HSD-030 - 30cc BD disposable syringes $650

<100,000cP, Heated up to 130°C, One Material:
- HSD-010 - 10cc Ardes reusable syringes $850

<2,500,000cP, Ambient Temperature, One Material:
- EMO-25 - 25cc aluminum reservoir $325

<2,500,000cP, Heated up to 100°C, One Material:
- VOL-25 - 25cc aluminum reservoir $600

<5,000,000cP, Heated up to 180°C, One Material:
- KR2-15 - 15cc stainless steel reservoir $1,000

<5,000,000cP, Heated up to 250°C, One Material:
- TAM-15 - 15cc stainless steel reservoir $1,500

CHILLED HEADS:

<100,000cP, Chilled down to 0°C, One Material:
- RSD-30 - 30cc BD disposable syringes $1,000

UV Curing for Non-Filament Heads:

High-Power UV Light Pens:
- UVP-450, 405, or 365nm (each) $1,000

Low-Power Printed Circuit Assemblies for UV:
- PCA-450, 405, or 365nm (each) $250
- PCA-310, or 280nm (each) $500