



AMS-Hyrel Robotic 3D Printer (Flexy - Hydra 21)

A compact, flexible, fast and functional small industrial robo



**Specialization in Concrete and
Clay Printing**

Specifications:

1. Robot : ABB Make Robot : IRB 1200- 5Kg Payload/ 0.900 M Reach and build volume (500X500X500) (With required Options for 3D Printing Process)
 - Compact Controller (IRC5C) with 3M Long power Cables and Multitasking,
 - Arc Ware (For Filament Based Extruders) and Dispense Ware (For Reservoir Based Extruders)
 - Independent Axis for Free axis Rotation
 - Connector Kits (On foot of the Robot & on Upper Arm)
 - Suitable SW (Robot Studio with 3D printing Power Pack) to convert G-Codes to Rapid Robot Program.
2. Hyrel-AMS Process Controller. RPC-01 consisting of Siemens PLC and Siemens HMI.
3. Hotbed (600 x 400 x 30). With Magnetic base and print bed - HB6040-250
4. Extruders for 3D printing with Filament of 1.75. HT1-250, HT1-450
5. Mounting base and Acrylic covers – MB-01
6. Chamber Heater – 55 DegC - CH-01
7. Suction Unit with Hepa Exhaust filter
8. Mosaic Bulk Feeder – MBF-01
9. Filament warmer – FW-01.
10. Options - LASER Cutting , Routing and Microscope for Process Viewing.
11. POWER Supply : Single Phase 230VAC 7KVA (3 KVA for Robot +4KVA for 3D Printing)
12. Printing Materials : ABS, PLA, PET,PETG, NYLON,PC .. with Hot Extruders.
CLAY,PORCELAIN, RTV Silicone... with Cold and warm Extruders.

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