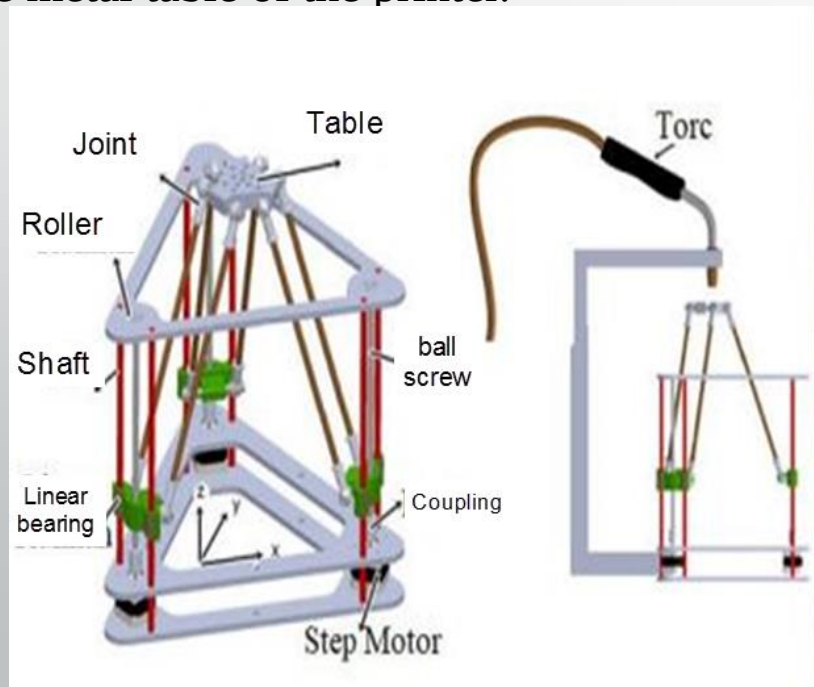
FDM PRINTER TYPES
B) FDM PRINTERS ACCORDING TO PRINT MATERIALS

B5) WELDING METAL PRINTER

B5) WELDING METAL PRINTER

Weld metal printers have a similar body structure as standard cartesian type machines and move on a 3-dimensional axis. The structure of the skeleton is formed by sigma profiles or sheets. The welding process starts within the same time as the machine electronic circuit is in command. A motor and pivoting mechanism are also used to move the welding feed wire inside the welding machine. Melting and joining process is carried out by providing electrical passage to the region to be welded with the welding frame connected to the metal table of the printer.



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For MIG welding, it uses a continuous wire feed which is melted as it serves as both a filler metal and an electrode. A shielding gas flows around the molten wire and protects it from any local contamination.

It is mainly connected to the MIG welding machine, extruder and hot-end machine. In the welding machine using the Cartesian printing method, the metal wire is slowly but precisely fed from the feed system. The wire is formed into a small pool of liquid on the object by means of the electric arc and melts layer by layer as the printer axes perform the welding movement.

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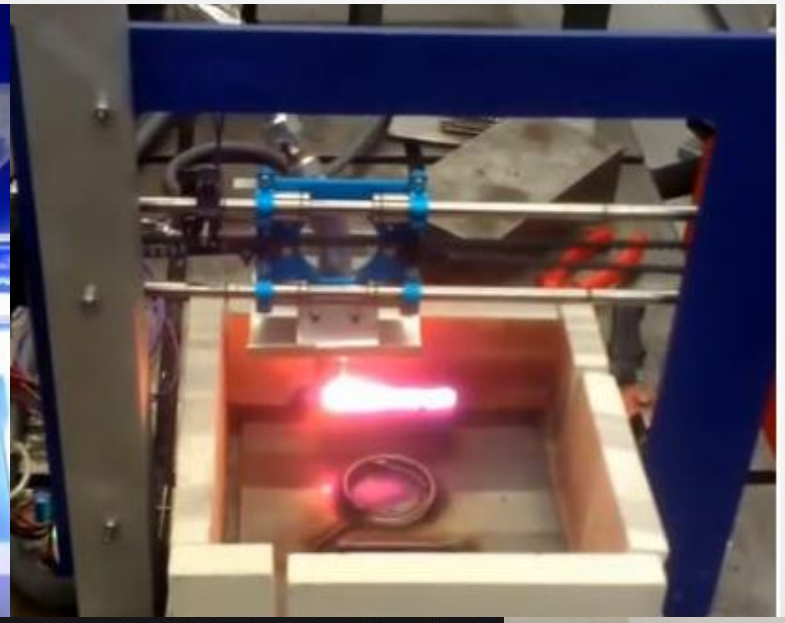
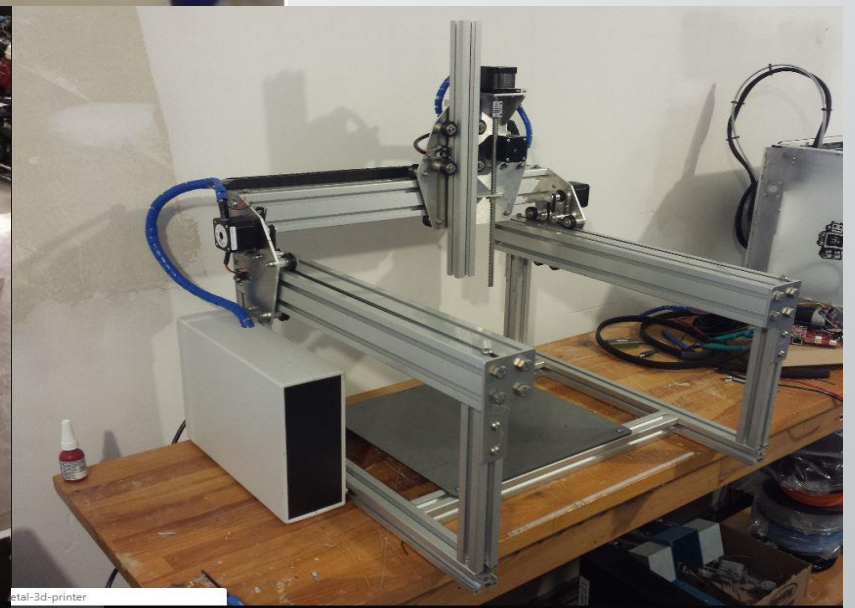
WELDING METAL 3D PRINTER EXAMPLES





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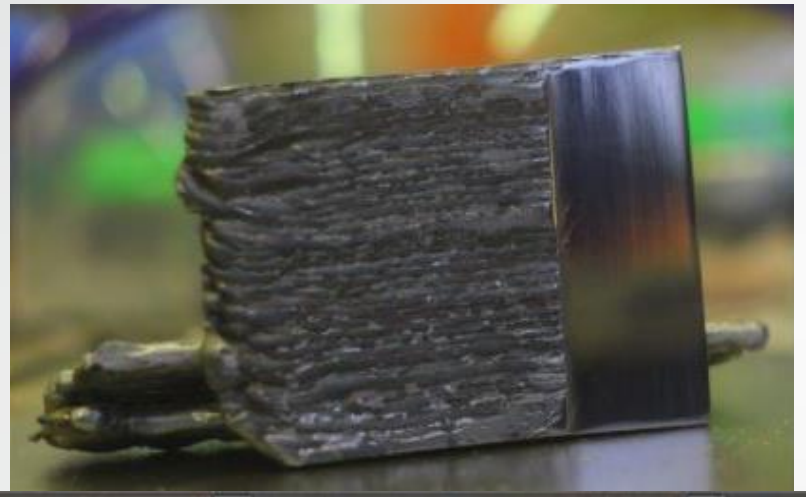
WELDING METAL 3D PRINTER APPLICATIONS



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