ABSTRACT

1. The Desktop Manufacturing System (DMS) is a multi-in-one digital manufacturing system capable of industrial CO2 laser cutting, CNC milling, 3D printing and vacuum forming (See Illustration 1). The DMS is also fully encased with integrated exhaust filtration system to allow it to be operated in offices and urban households without the need of any external ducting system. The fully encased and filtered exhaust design of the DMS allows it to be cleaner, safer and quieter than conventional machines. Together with its space saving features the DMS is ideal for urban city, where real estate is limited and expensive.