

Apparatus for supplying of powder model material and three-dimensional printing by means of thermal extrusion comprises a stationary outer hopper for a powder model material, an auger, a metering valve. Additionally comprises a system for supplying of powder modeling material in the form of powder mixture based on polymers and/or ceramics to a movable printing head with a heater, system of heating and extrusion of material in the molten state at a given point for synthesizing the first layer of product on the working plane, system of movement of the working head of the printing body along the Z axis with synthesizing following layers of product, and the heater provides a working temperature up to 350 °C.