

**ABSTRACT****HEAD FOR POWDER SPRAY 3D PRINTING**

The invention relates to a powder dispensing head (1) for an additive manufacturing machine, said head (1) comprising:

- a through-opening designed to allow the passage of a high-energy beam towards the melting point,

- a body (2) comprising N powder conveying ducts uniformly distributed about the through-opening and converging towards the melting point,

the dispensing head (1) further comprising a dispensing member (3) comprising a powder dispensing chamber having a powder inlet, and N powder outlets uniformly distributed about the through-opening, the body (2) and the dispensing member (3) being configured to be able to move relative to one another so as to fluidically connect or disconnect the powder outlets with respect to the respective powder conveying ducts according to the relative position of said dispensing member (3) with respect to the body (2).

Figure for the abstract: Figure 2