

ABSTRACT

A slicing cellular manufacturing line, comprising a manufacturing line main body (1). The manufacturing line main body (1) is provided with a plurality of slicing machines (5), a transfer mechanism and a connection tool (4). Each slicing machine (5) comprises a slicing machine main body (51), a liquid path portion and an electric control portion, the slicing machine main body (51) being provided with a cutting chamber (52), the liquid path portion and the electric control portion being arranged on the outer side of the cutting chamber (52), and the configuration mode of the liquid path portion and the electric control portion enabling the slicing machine (52) to be provided with a clearance space, so that a workpiece can pass through the clearance space to achieve a feeding operation and/or a discharging operation. The transfer mechanism comprises a ceiling rail robot (31), a first transfer table and a second transfer table. The connection tool (4) comprises a first movable portion (41) and a carrying portion; the first movable portion (41) can move in the direction toward/away from the cutting chamber (52) of each slicing machine (5), and the first movable portion (41) is provided with at least one connection structure capable of fixedly connecting the first movable portion (41) to a workpiece; and the carrying portion can carry the workpiece. The slicing cellular manufacturing line, by means of multi-machine simultaneous slicing, satisfies the requirement for larger-scale slicing manufacturing. The present disclosure also relates to a control method of the slicing cellular manufacturing line.

[FIG. 1]