

CAVITY MOLD AND CAVITY MOLD SYSTEM**Abstract**

A cavity mold comprises two or more sub-molds; and one or more gasket disposed between two adjacent sub-molds; wherein the gasket seals heating and cooling mediums when the cavity mold is assembled; wherein each of the two or more sub-molds comprises an outer casing; an inner casing on which a molded item is formed, wherein the cavity mold is assembled, a cavity is formed in the space between the outer casing and the inner casing; at least one heating/cooling mediums input pipe that is fluidly coupled with heating and cooling medium sources and the cavity, wherein heating and cooling mediums are pumped or compressed via the at least one heating/cooling mediums input pipe into the cavity, thereby the heating and cooling mediums pass through the cavity of the cavity mold; and at least one heating/cooling mediums return pipe that is fluidly coupled with the heating and cooling medium sources and the cavity, wherein the heating and cooling mediums are pumped via the at least one heating/cooling mediums return pipe out of the cavity; and wherein at least one of the two or more sub-molds further comprises a feed channel being through the outer casing and the inner casing; wherein the feed channel allows molding materials to be fed into the inside of the inner casing. A cavity mold system employs the cavity mold.

FIG 1