What is Claimed:

1. A method of manufacturing a plunger of a drug delivery device, the method comprising:

forming a plunger body having an inner wall defining an axial chamber and an outer wall, the plunger body including a first end and a second end opposite the first end;

loading the plunger body into a cavity of a first molding tool of a molding system;

coupling a second molding tool to the first molding tool to form a plurality of channels defined by grooves in the first and second molding tools, the second molding tool including a cavity sized to receive a portion of the plunger body when the plunger body is disposed in the cavity of the first molding tool; and

injecting molten plastic into the plurality of channels to form an overmolded plunger body, the overmolded plunger body having at least one overmolded portion.

2. The method of claim 1, wherein injecting molten plastic includes injecting molten plastic to form a head coupled to the first end of the plunger body and a foot coupled to the second end of the plunger body, the foot at least partially coupled to the inner wall and the head coupled to the outer wall of the plunger body.

3. The method of claim 1 or 2, further comprising moving the first molding tool from a first position to a second position before coupling the second molding tool to the first molding tool.

4. The method of any one of claims 1 through 3, further comprising inserting a rod into the axial chamber of the plunger body before coupling the first molding tool to the second molding tool.

5. The method of any one of claims 1 through 4, injecting the plurality of channels includes injecting a curved channel formed in the second molding tool, the curved channel including a diameter in a range of 0.1 mm to 0.2 mm and coupled to a second molding portion of the cavity, the cavity at least partially defined by a first molding portion, a middle portion, and the second molding portion.

6. The method of any one of claims 1 through 5, further comprising:

curing the plunger body; and

removing the cured plunger body from the first molding tool by activating an ejector pin in the first molding tool, the ejector pins pushing the cured plunger body away from the cavity formed in the first molding tool.

7. The method of any one of claims 1 through 6, wherein loading the plunger body includes loading a plurality of plunger bodies onto the first molding tool of the molding system, the first molding tool including a plurality of cavities.

8. The method of any one of claims 1 through 7, wherein loading the plunger body into the cavity includes placing the plunger body over a vacuum slot formed in a wall of the first molding tool, the vacuum configured to adhere the plunger body to the molding tool.

9. The method of any one of claims 1 through 8, wherein forming the plunger body includes stamping a plurality of plunger bodies from blank of sheet metal.

10. The method of any one of claims 1 through 9, wherein forming the plunger body includes cutting a corrugated edge into a blank of sheet metal and bending the corrugated edge such that the first end of the plunger body includes the corrugated edge bent outwardly relative to the axial chamber.

11. The method of any one of claims 1 through 10, wherein forming the plunger body includes cutting a corrugated edge into a blank of sheet metal and bending the corrugated edge such that the second end of the plunger body includes the corrugated edge bent inwardly relative to the axial chamber.

12. A method of molding a plunger of a drug delivery device, the method comprising:

loading a plunger body into a cavity of a first molding tool of a molding system, the plunger body including an inner wall defining an axial chamber, an outer wall, a first end, a second end opposite the first end, wherein the cavity at least partially defines a first molding portion, a middle portion, and a second molding portion;

coupling a second molding tool to the first molding tool to form a plurality of channels defined by grooves in the first and second molding tools; and

injecting molten plastic into the plurality of channels of the first and second molding tools and into the first molding portion and the second molding portion to form an overmolded plunger body, the overmolded plunger body including a head coupled to the outer wall and at least partially surrounding the first end of the plunger body and a foot coupled to the second end of the plunger body.

13. The method of claim 12, further comprising moving the first molding tool from a first position to a second position before coupling the second molding tool to the first molding tool.

14. The method of claim 13, wherein moving the first molding tool includes rotating a movable table at least 180 degrees, the first molding tool attached to a surface of the movable table.

15. The method of any one of claims 12 through 14, wherein injecting molten plastic into the plurality of channels includes injecting molten plastic into the second molding tool when first molding tool is coupled to the second molding tool.

16. The method of any one of claims 12 through 15, further comprising inserting a rod into the axial chamber of the plunger body before coupling the first molding tool to the second molding tool.

17. The method of any one of claims 12 through 16, wherein injecting molten plastic into the plurality of channels includes injecting molten plastic into a curved channel formed in the second molding tool, the curved channel coupled to the second molding portion of the cavity.

18. The method of any one of claims 12 through 17, wherein loading the plunger body includes loading the first end into the first molding portion and loading the second end into the second molding portion of the cavity.

19. The method of any one of claims 12 through 18, wherein injecting molten plastic into the plurality of channels includes injecting molten plastic into the first and second molding tools, the plurality of channels extending between the first molding portion and the second molding portion of the first molding tool and between a first molding portion and a second molding portion of the second molding tool.

20. The method of claim 19, wherein injecting molten plastic into the first and second molding tools includes forming the head including at least one flange extending radially outwardly from the plunger body and forming a cam follower on the at least one flange.