What is Claimed is:

1. A method for preparing a finished part in a mold wherein the finished part includes n mold inputs, the method comprising the steps of:

(a) providing a mold having n mold stations;

(b) simultaneously adding a mold input at each mold station to create a finished part and n - 1 part portions;

(c) removing the finished part and each part portion from each mold station;

(d) transferring the finished part to a finished part holding area and transferring each part portion to a different mold station; and

(e) repeating steps (b) through (d).

2. The method of claim 1 wherein the step of transferring the finished part to a finished part holding area and transferring each part portion to a different mold station is accomplished by one or more transfer mechanisms traveling along linear or rotary paths.

3. The method of claim 1 wherein the step of transferring the finished part to a finished part holding area and transferring each part portion to a different mold station is accomplished by one or more transfer mechanisms traveling along linear paths in planes parallel to the central plane.

4. The method of claim 1 wherein the step of transferring the finished part to a finished part holding area and transferring each part portion to a different mold station is accomplished by one or more transfer mechanisms traveling in linear paths in planes parallel to and perpendicular to the central plane.

5. The method of claim 1 wherein the step of transferring the finished part to a finished part holding area and transferring each part portion to a different mold station is accomplished by one or more transfer mechanisms comprising at least two transfer mechanisms which move in linear paths parallel to one another.

6. A mold for preparing a finished part wherein the finished part includes n mold inputs, the mold comprising:

(a) one or more core sides, each core side having a plurality of core side mold station portions;

(b) one or more cavity sides, each cavity side having a plurality of cavity side mold station portions, the one or more core side mold station portions or the one or more cavity side mold station portions or both the one or more core side mold station portions and the one or more cavity side mold station portions being movable between (i) a closed mold position wherein the core side mold station portions are disposed proximate to the cavity side mold station portions, and (ii) an open mold position wherein the core side mold station portions are spaced apart from the cavity side mold station portions, each cavity side mold station portion being aligned with a core side mold station portion such that, in the closed mold position each cavity side mold station portion mates with a core side mold station portion to form a mold station capable of adding a mold input to a part portion disposed within the mold station; and

(c) one or more transfer mechanisms for transferring the finished part from a mold station to a finished part holding area and for transferring each part portion from a mold station to a different mold station, such that, when in the closed mold position, mold inputs can be simultaneously added at each mold station to a part portion disposed within that mold station.

7. The mold of claim 6 wherein the one or more transfer mechanisms travel along linear or rotary paths.

8. The mold of claim 6 wherein in the closed mold position, both the core side and the cavity side are disposed proximate to a central plane, and wherein the one or more transfer mechanisms travel along linear paths in planes parallel to the central plane.

9. The mold of claim 6 wherein in the closed mold position, both the core side and the cavity side are disposed proximate to a central plane, and wherein the one or more transfer mechanisms travel in linear paths in planes parallel to and perpendicular to the central plane.

10. The mold of claim 6 wherein the one or more transfer mechanisms comprise at least two transfer mechanisms which move in linear paths parallel to one another.

What is claimed is:

1. A method for preparing a finished part in a mold wherein the finished part includes n mold inputs, the method comprising the steps of:

(a) providing a single mold having n mold stations;

(b) simultaneously adding a mold input at each mold station to create a finished part and n−1 part portions, the mold inputs comprising at least two material additions, each material addition being added at a separate mold station;

(c) removing the finished part and each part portion from each mold station;

(d) transferring the finished part to a finished part holding area and transferring each part portion to a different mold station; and

(e) repeating steps (b) through (d);

wherein the step of transferring the finished part to a finished part holding area and transferring each part portion to a different mold station is accomplished such that, during steps in (b)-(e) each part portion is transferred between different mold stations along paths disposed in more than one plane;

wherein the step of transferring the finished part to a finished part holding area and transferring each part portion to a different mold station is accomplished by one or more transfer mechanisms comprising at least two transfer mechanisms which move in linear paths parallel to one another.

2. The method of claim 1 wherein the step of transferring the finished part to a finished part holding area and transferring each part portion to a different mold station is accomplished by one or more transfer mechanisms traveling along linear or rotary paths.

3. The method of claim 1 wherein the step of transferring the finished part to a finished part holding area and transferring each part portion to a different mold station is accomplished by one or more transfer mechanisms traveling along a plurality of linear paths.