CLAIMS

1) Stereolithography system comprising:

- a stereolithography machine;
- a stereolithography resin package (1), comprising a container (2), filled with a stereolithography resin (3) and provided with an access opening (4);

characterized in that said stereolithography resin package (1) further comprises: a mixer element (5), arranged in a removable manner in said container (2) and provided with at least one magnet (6); a data support (13) belonging to said container (2), containing information on the type and quantity of said stereolithography resin (3), associated with connection means suited to transmit said information to an external device;

and in that said stereolithography system further comprises:

- a duct for connecting said container (2) to said stereolithography machine, suited to withdraw said stereolithography resin (3) from said container (2);
- a mixing device (11) provided with:
  - a seat (10) suited to accommodate said container (2);
  - an external magnet (9) associated with motorisation means (12) suited to set it moving;
  - reading means (14) suited to acquire the information contained in said data support (13) of said container (2), operatively associated with a logic control unit (15) and configured so as to control said motorisation means (12) based on said information.

2) Stereolithography system according to claim 1, **characterized in that** it comprises heating means (16) configured so as to establish a thermal contact with said container (2) when said container (2) is arranged in said seat (10).

3) Stereolithography system according to claim 2, **characterized in that** said logic control unit (15) is configured so as to control said heating elements (16) based on the information contained in said data support (13).

4) Stereolithography system according to any of the preceding claims, **characterized in that** said mixer element (5) comprises at least two of said magnets (6), arranged so that each one of the poles (N, S) of one of said magnets (6) faces a corresponding pole (N, S) of the other magnet (6).

5) Stereolithography system according to claim 4, **characterized in that** each one of the poles (N, S) of one of said magnets (6) faces the pole (N, S)

with opposite sign of the other magnet (6).

6) Stereolithography system according to any of the claims 4 or 5, **characterized in that** said mixer element (5) comprises a laminar body (5a) that extends between said two magnets (6).

7) Stereolithography system according to any of the preceding claims, **characterized in that** said mixer element (5) is released from said container (2).

8) Stereolithography system according to any of the preceding claims, **characterized in that** said container (2) is a bottle and said access opening (4) is sealed by a cap (8).

9) Stereolithography system according to claim 8, **characterized in that** the cross section of said bottle is externally delimited by a mixtilinear profile.

10) Method for mixing a stereolithography resin (3), comprising the following operations:

- preparing a stereolithography resin package (1) by filling a container (2) provided with an access opening (4) with said stereolithography resin (3);

characterized in that said stereolithography resin package (1) further comprises: a mixer element (5) arranged in a removable manner in said container (2) and provided with at least one magnet (6); a data support (13) belonging to said container (2), containing information on the type and quantity of said stereolithography resin (3), associated with connection means suited to transmit said information to an external device;

and in that said method further comprises the following operations:

- arranging an external magnet (9) outside said container (2), facing the bottom (2a) of said container (2);
- acquiring said information from said data support (13);
- controlling motorization means (12) through a logic control unit (15) for setting said external magnet (9) moving based on said information so as to drive said mixer element (5).

11) Method according to claim 10, **characterized in that** said movement of said external magnet (9) is a rotation.

12) Method according to any of claims 10 or 11, **characterized in that** it comprises an operation of heating said stereolithography resin (3).

13) Method according to any of the claims from 10 to 12, **characterized in that** it comprises the operation of:

- controlling the speed and/or the rotation time of said external magnet (9) and/or the temperature used in said heating operation of said stereolithography resin (3) based on said information.

CLAIMS

1) Stereolithography system comprising:

- a stereolithography machine;
- a stereolithography resin package (1), comprising a container (2), filled with a stereolithography resin (3) and provided with an access opening (4);

characterized in that said stereolithography resin package (1) further comprises: a mixer element (5), arranged in a removable manner in said container (2) and provided with at least one magnet (6); a data support (13) belonging to said container (2), containing information on the type and quantity of said stereolithography resin (3), associated with connection means suited to transmit said information to an external device;

and in that said stereolithography system further comprises:

- a duct for connecting said container (2) to said stereolithography machine, suited to withdraw said stereolithography resin (3) from said container (2);
- a mixing device (11) provided with:
  - a seat (10) suited to accommodate said container (2);
  - an external magnet (9) associated with motorisation means (12) suited to set it moving;
  - reading means (14) suited to acquire the information contained in said data support (13) of said container (2), operatively associated with a logic control unit (15) configured so as to control said motorisation means (12) based on said information.

2) Stereolithography system according to claim 1, **characterized in that** it comprises heating means (16) configured so as to establish a thermal contact with said container (2) when said container (2) is arranged in said seat (10).

3) Stereolithography system according to claim 2, **characterized in that** said logic control unit (15) is configured so as to control said heating elements (16) based on the information contained in said data support (13).

4) Stereolithography system according to any of the preceding claims, **characterized in that** said mixer element (5) comprises at least two of said magnets (6), arranged so that each one of the poles (N, S) of one of said magnets (6) faces a corresponding pole (N, S) of the other magnet (6).

5) Stereolithography system according to claim 4, **characterized in that** each one of the poles (N, S) of one of said magnets (6) faces the pole (N, S)

with opposite sign of the other magnet (6).

6) Stereolithography system according to any of the claims 4 or 5, **characterized in that** said mixer element (5) comprises a laminar body (5a) that extends between said two magnets (6).

7) Stereolithography system according to any of the preceding claims, **characterized in that** said mixer element (5) is released from said container (2).

8) Stereolithography system according to any of the preceding claims, **characterized in that** said container (2) is a bottle and said access opening (4) is sealed by a cap (8).

9) Stereolithography system according to claim 8, **characterized in that** the cross section of said bottle is externally delimited by a mixtilinear profile.

10) Method for mixing a stereolithography resin (3), comprising the following operations:

- preparing a stereolithography resin package (1) by filling a container (2) provided with an access opening (4) with said stereolithography resin (3);

characterized in that said stereolithography resin package (1) further comprises: a mixer element (5) arranged in a removable manner in said container (2) and provided with at least one magnet (6); a data support (13) belonging to said container (2), containing information on the type and quantity of said stereolithography resin (3), associated with connection means suited to transmit said information to an external device;

and in that said method further comprises the following operations:

- arranging an external magnet (9) outside said container (2), facing the bottom (2a) of said container (2);
- acquiring said information from said data support (13);
- controlling motorization means (12) through a logic control unit (15) for setting said external magnet (9) moving based on said information so as to drive said mixer element (5).

11) Method according to claim 10, **characterized in that** said movement of said external magnet (9) is a rotation.

12) Method according to any of claims 10 or 11, **characterized in that** it comprises an operation of heating said stereolithography resin (3).

13) Method according to any of the claims from 10 to 12, **characterized in that** it comprises the operation of:

- controlling the speed and/or the rotation time of said external magnet (9) and/or the temperature used in said heating operation of said stereolithography resin (3) based on said information.