screen receptacle and from the screen receptacle to the screen magazine, wherein the transport device has at least one movable, in particular multi-link, transport arm for transporting in each case one printing screen, and the screen magazine has at least one sliding device for advancing a screen bearing or a printing screen from one of the screen bearings.

The task underlying the invention is achieved by a printing system having the features of the above aspect. This has the advantage that a complex three-dimensional structure can be produced without a plurality of printing devices being necessary for this purpose, and without the substrate carrying the structure having to be removed from a printing device for producing the complete structure and inserted in another printing device. As a result, the production time is shortened and resources, in particular also with respect to the space required for the production, are saved. According to the invention, this is achieved in that the printing system comprises a screen provisioning device which has a screen magazine for storing a plurality of print screens and a transport device for transporting a printing screen from the screen receptacle to the screen magazine, on the one hand, and a selected printing screen from the screen magazine to the screen

CLAIMS

1. Printing system for printing three-dimensionally shaped structures, in particular on substrates such as printed circuit boards, wafers, solar cells, carrier substrates, printing tables, carrier plates, sintering plates or the like, comprising at least one printing device which has a print head having a scraper device and a screen receptacle which is associated with the scraper device magazine for receiving a printing screen, **characterized by a** screen provisioning device which has at least one screen magazine for storing multiple printing screens and a transport device for transporting a printing screen from the screen magazine to the screen receptacle and from the screen receptacle to the screen magazine, wherein the transport device has at least one movable, in particular multi-link, transport arm for transporting in each case one printing screen, and the screen magazine has at least one sliding device for advancing a screen bearing or a printing screen from one of the screen bearings.

2. Printing system according to claim 1, **characterized** in that the printing head and/or a printing table can be adjusted in height in order to produce a plurality of printing layers one above the other with identical or different printing screens.

3. Printing system according to one of the preceding claims, **characterized** in that the transport device is arranged on the printing device, in particular on the print head or on the printing table, or on a housing of the printing device.

4. Printing system according to one of the preceding claims, **characterized** in that the transport device is arranged on the screen magazine.

5. Printing system according to one of the preceding claims, **characterized** in that the transport device is arranged between the screen magazine and the printing table and is embodied separately therefrom.

6. Printing system according to one of the preceding claims, **characterized** in that the screen magazine has multiple screen bearings arranged stacked on top of each other for receiving a printing screen in each case.

7. Printing system according to one of the preceding claims, **characterized** in that the transport device has a lifting device, in particular for moving the screen bearings or the transport arm in height.

8. Printing system according to one of the preceding claims, **characterized** in that the sliding device is designed to displace a selected printing screen from one of the screen bearings into the screen receptacle and/or vice versa.

9. Printing system according to one of the preceding claims, **characterized** in that the screen magazine is arranged on the printing device.

10. Printing system according to one of the preceding claims, **characterized** in that the screen magazine is arranged next to and at a distance from the printing device.

11. Printing system according to one of the preceding claims, **characterized** in that the transport device has at least one controllable gripper, in particular at a free end of the transport arm, for holding and transporting a printing screen.

12. Printing system according to one of the preceding claims, **characterized** in that the screen magazine has a conditioning device for air-conditioning the printing screens in the screen magazine.

13. Printing system according to one of the preceding claims, **characterized by** a plurality of identical and/or different printing screens.