



AUTOMATION CARRIER

For more than twenty years, we have been developing innovative, highly efficient automation solutions that have proven themselves around the world. Thanks to our years of experience in basic technologies such as control technology, we can also turn highly complex customer requirements into solutions that pay off.

In order to make the manufacture of solar cells a competitive business, a high level of automation in the production plants is essential. Efficient, fully automated linking of the individual process steps helps to significantly increase the output per hour. Our product portfolio covers the Jonas & Redmann Automation Carrier. This component is applicable to all transportation tasks and has been specially developed for implementation in PV-production plants.

- Specially developed for implementation in PV-production plants
- Constantly improved to achieve highly gentle wafer transport and storage
- Proven construction prevents wafer breakage and reduces the impact of mechanical forces
- Excellent connectivity with any process equipment and Jonas & Redmann Process Linkage System
- State-of-the-art production control by tracking via transponder chips

Jonas & Redmann Automation Carrier

The Jonas & Redmann Automation Carrier was explicitly developed for the specific transportation needs in solar cell manufacturing fabs and is applicable for all transportation tasks. Ridges in the side-frames hold wafers in a defined separation distance. A protective mechanism prevents wafers from falling out thus enabling an upright transport of the carrier. On the backside wafers are cushioned by a rubber strip which prevents wafer breakage on the back edge. The Jonas & Redmann Automation Carrier is utilized for wafer transport and storage along the cell production line. It can be integrated into both handling systems as well as transportation lines. The Automation Carrier serves for loading and unloading purposes in inline as well as in batch processing. In between single process steps with varying throughput rates, the carrier can also fulfill buffer functions. As part of intelligent fablogistic systems the Jonas & Redmann Automation Carrier is equipped with transponder chips. Thus latest tracking technologies can be applied.

TECHNICAL DATA

capacity	100 wafers
materials	aluminium hardcoated, POM, rubber
tare weight	5 kg
wafer size	125 / 156
wafer thickness	130-240 µm

OPTIONS AND FEATURES

protective mechanism retains wafers in the carrier
suitable for all transportation tasks
transponder chips in both head plates
reduces wafer breakage risk
can be integrated into handling systems and transportation lines