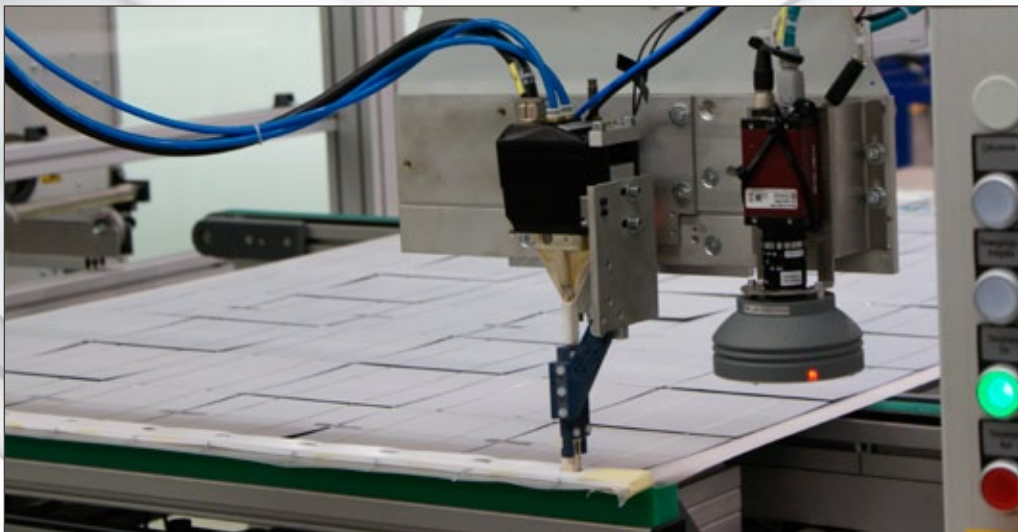


J. v. G. Busing station



Busing or connecting the strings to a complete module is mostly done by hand. Even big module producers make hand hotbar soldering. So the process is not unique, not repeatable and causes lot of failures.

The J. v. G. Thoma solution for Busing offers a semi automated busing process, which gives a high level, steadily process quality. The solder process is 100 percent fully automated. The solder system is realized with inductive soldering, with professional control unit, cooling unit and induction coil for the soldering. In tests with lot of big European module producers we compared laser-, hotiron-, light- and infrared-, with induction-soldering. The result was very clear:

Best solder results give the induction soldering. Also the process has a very wide process window, so nearly nothing can be made wrong. Lot of our customers use now these inductions soldering process and have best module qualities (proofed by Stiftung Warentest, a German institute - trademark).

Specification datas

- 1 Semi automated version and fully automated version
- 2 Automated solder process (induction soldering)
- 3 180 degree turn with option "motor controlled"
- 4 30 - 40 MW capacity with two operators
- 5 Variable size of glass
 - minimum 600 mm x 1200 mm
 - maximum 2000 mm x 1000 mm
- 6 Dimension of the busing station
 - length about 2,5 m
 - broad about 2,5 m
- 7 Two passive or active (option) conveyor units
- 8 Rotating table with two soldering position
- 9 Electrical controlled
- 10 All sensors and stoppers included
- 11 Holders for busbars included
- 12 Cut station for busbar included
- 13 One piece of induction, solder station included;
option: second induction station

Technical datas

- 1 4 - 8 kW maximum power consumption
- 2 400 Volt alternate current
- 3 three phase ; neutral, earth
- 4 50 Hz ; option: 60 Hz