

# Laser Marking for the Photovoltaic Industry

Teschauer Laser – Efficient Quality Assurance by Laser Marking

- | Innovative laser marking techniques for silicon bricks
- | Laser marking of mono- and multi-crystalline silicon wafers
- | In-process recognition of encoding and Wafer Tracking System



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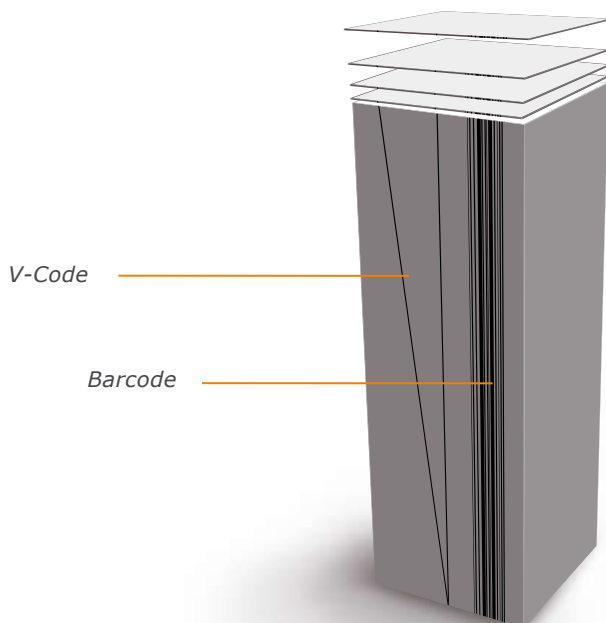
To meet the requirements of the photovoltaic industry, the Dr. Teschauer AG offers technological and associated plant engineering solutions for comprehensive and efficient quality inspection. Our systems for laser marking of wafers and silicon bricks, which are aimed at quality assurance and process optimisation, may be integrated into production lines or are designed as stand-alone units.

With an innovative marking method and special image recognition techniques, the wafer manufacturers may trace back the single wafer accurately to location up to the corresponding silicon brick along the whole manufacturing process. When doing this, the column is marked with a bar code that includes production information, like, for instance, date of manufacturing and brick number. As another function, you may trace back the position of the single wafer in the brick with a special code. Being a unique laser scanner technology, marking of silicon bricks may be realised up to 550 mm edge length in one process step, only.

To optimise the manufacturing process, we also offer laser marking on floor spaces of silicon bricks with data matrix codes.

## Equipment

- High-quality laser systems
- Customised machine racks
- Synchronised conveyers for handling of wafers and columns
- Image recognition techniques and Wafer Tracking System



Size Brick: 156x156x550mm

