

# KOENEN Dual Print

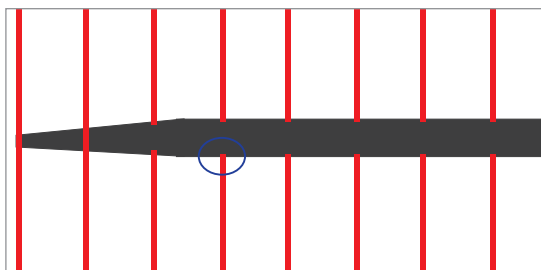
The **KOENEN Dual Print Technology** facilitates the print of highly efficient solar cells paired with a significant reduction of process costs. The front side metallisation is conducted in two separate printing steps which leads to a significant paste and cost reduction potential.

## Product characteristics

- The print of finer fingers 35 - 50  $\mu\text{m}$  leads to less shadowing and an increased the cell efficiency
- Improved aspect ratio of fingers
- Reduced paste consumption for busbar print
- Use of alternative pastes for busbars enables cost reduction potential
- High degree of individualisation
- No widening of fingers after print of busbars

## Possible printing steps of Dual Print

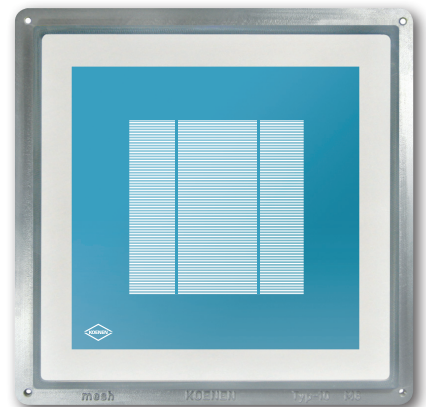
1. Print of fingers (incl. individual overlapping)
2. Print of busbars



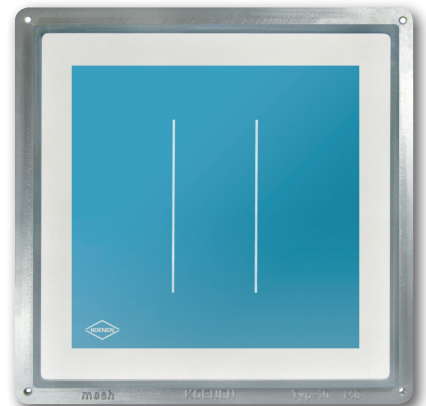
Schematic representation

## Cost reduction due to:

- **Paste reduction**
- Increased **conductivity**
- **Improved efficiency** of cells



Precision screen optimised for finger print



Precision screen optimised for busbar print