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Carpets

In a carpet factory long carpet roles are stained or woven. The production process finishes with the punching of the tiles out of the roles.

To adjust the position of the punching machine we combined the benefits of a smart-camera and a pc-based system:

Two cameras search the stamping marks on the carpet role and determine their center. These preprocessed results are processed via Ethernet to a panel-pc, which determines the location of the tile (x-position, -position and angle) and forwards it to the punching machine.

If four cameras are deployed small deformations can be compensated and with the deployment of eight cameras the system can manage three tiles next to each other.

An easy to use graphical user interface makes calibration, adjustment of parameters and the active intervention in the production process comfortable. However, important features are protected by a password.

Features:

- Easy to handle
- Easy to calibrate
- Easy scalable
- 2, 4 or 8 cameras
- Password protection for important features

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