Laser Display Speeds Picking of Assembly Parts

The Wibra-Laser Part Picking Display - a flexible and adjustable display system for the identification of parts to be taken from picking locations along an assembly line.

The system allows for the position of the laser display to be changed at any time if the picking locations along the assembly line are modified according to changes in production. The laser display is adjustable so that bulky parts on pallets can be marked as well as boxes on small parts shelves.

The idea behind the display system was presented at the competition “Grünes Licht für Ihre Geschäftsidee” (Green light for your business idea) in November 2007 and was awarded the second prize.

Now the idea has been turned into a finished product and has already been in use for several months by a furniture manufacturer.

The display data is read directly from a database interface and displayed at configurable positions as shown here using four laser projectors.

The laser projectors are mounted at the ceiling about 3.5 m high and display the amount to be picked and the article number of the parts required for the current production stage.

The display text in this example was taken from the MES system controlling production orders.

Compared to ordinary LED displays, the laser display is able to visualize additional content as more than just pick numbers can be projected.

The most important configuration parameters of the laser display are stored in a database.

This means that the laser display, which is usually installed on a central server, can be conveniently configured using a laptop on site. Any changes to the output position (x and y coordinates), font type and size are immediately available for production.

Each laser projector is capable of simultaneously producing output at several positions.

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