

MECHATRONICS

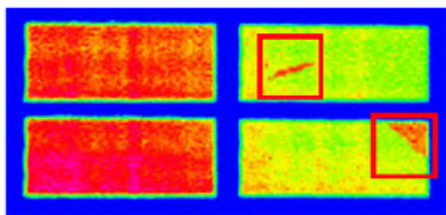
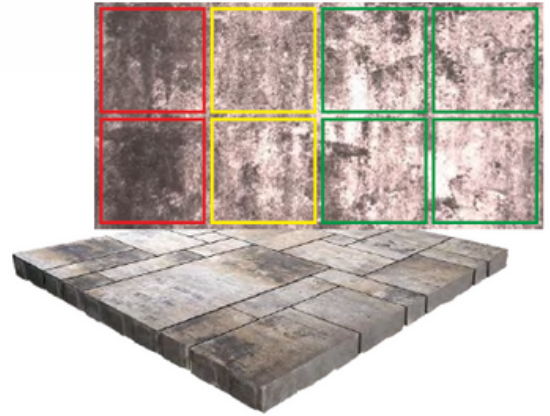
## MACHINE VISION APPLICATIONS



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### INSPECTION OF INDIVIDUAL COLOR COMPONENTS

Technology	Camera system with analytical evaluation
Application	Checking individual color components and their even distribution on each tile separately or in the entire palette, flexibility in setting the number of distinguished components and user parameterization of the evaluation taking into account color deviations due to input variability
Detail	Flexible setting of the color scale

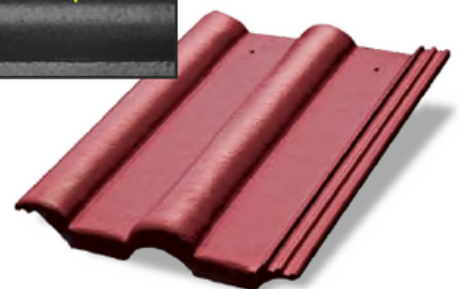
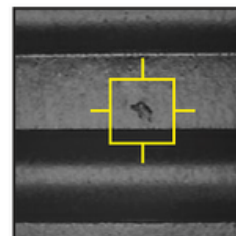


### CHECKING SHAPED DEFECTS IN PAVEMENT

Technology	Camera system using 3D scanning and evaluation using neural networks
Application	Detection of defects on visible parts of the product, possibility of using line scanning technology during drive-through or area scanning on stationary products, detection of scratches, chipped parts and significant defects
Detail	Detection of cracks and scratches from 1 mm thick

### ROOF TILES DEFECT INSPECTION

Technology	Comprehensive camera system with defect evaluation using neural networks
Application	Camera inspection at the output before palletizing, detection of broken corners, scratches and cracks, detailed statistics of the location and frequency of individual defects for identification of major defects and their elimination in the production process
Detail	Evaluation time below 150 ms



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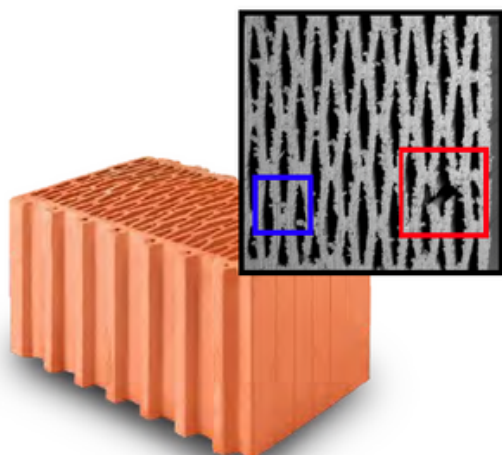
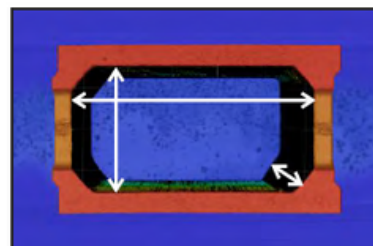
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## CHECKING THE DIMENSIONS OF CONCRETE

Technology	Camera system with 3D line scanner
Application	According to the customer's wishes, it is possible to check both surface and height dimensions, checking is possible on a moving and standing pallet, the possibility of immediate correction of the production process based on online data obtained and their interpretation by the operator
Detail	Height accuracy from $\pm 0.5$ mm



## DETECTION OF DEFECTS IN BURNT GRINDING MASONRY

Technology	Camera system with evaluation using neural networks
Application	Inspection from the product extruded from the mold to the output product after grinding, detection of cracks in the supporting beams and the outer shell, easy parameterization of the evaluation allowing to regulate the number and size of limit defects
Detail	Crack detection from 2 mm

## QUALITY CONTROL OF ROOF TILES SPRAYING

Technology	Comprehensive camera system with defect evaluation using neural networks
Application	Evaluation of spray inhomogeneity, evaluation in high detail for the resolution of miniature defects at high speed
Detail	Online evaluation at a line cycle of 300 ms

