



Rob-Spector
Kjærgaard
www.kia.dk

Rob-Spector

– 3D inspection & sorting of pallets

Avoid stops caused by pallets with defects

Pallets with defect often cause stops in automatic production lines and cause loss of production. If a part of the pallet is missing or sticking out it will cause stops or breakdowns in an automatic pallet line.

Some defects are first discovered during palletizing. A defect pallet loaded with boxes, can easily break down, and cause system damage, destroyed products or injuries. If a fully loaded defect pallet comes out from the line, there are still a big risk for a breakdown during transport or when the pallet is stored in a automatics warehouse system.

Rejected before going into production lines

With RobSpector the defect pallets are found and sorted out before they enter the production lines and. This solution will avoid all problems caused by defect pallets. Furthermore this solution will also sort out pallets which have old trash attached to it and this will avoid trash to contaminat the production.

Process of the quality control

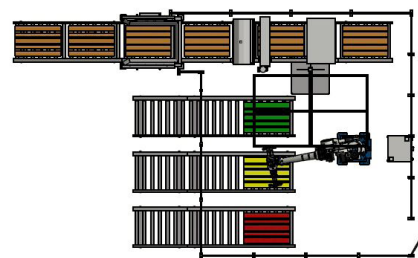
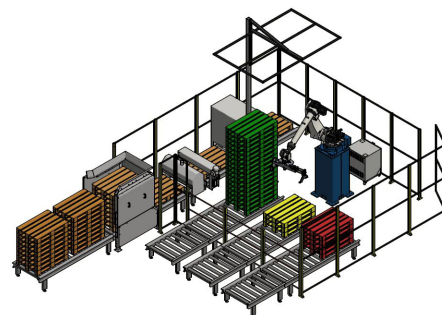
RobSpector is a robot-controlled system to quality control and sorting of return pallets. The pallets are going trough a press and afterwards are the top surface scanned for defects by a 3D camera. The robot takes the pallet and moves it through the brush system for cleaning, so the following controls are optimized and the risk for contamination is reduced. Finally, the pallet is scanned in different positions by another 3D camera, so all sides has been checked. After the inspection, the robot sort out the pallet in up to 3 different qualities and places it at the stack.

Scope of delivery

RobSpector is delivered as a turnkey system with robot, gripping tool, 3D scanner, cleaning brushes, pallet feeder, conveyors and safety system. As an option its possible to add a pallet-magasin, weight, height measures and more conveyors after needs.

The system can be delivered as a stand-alone system or inline directly with the production system.

See the application example on the back.



Model: RS3



PICK AND PLACE

PACKING & HANDLING

PALLETIZING

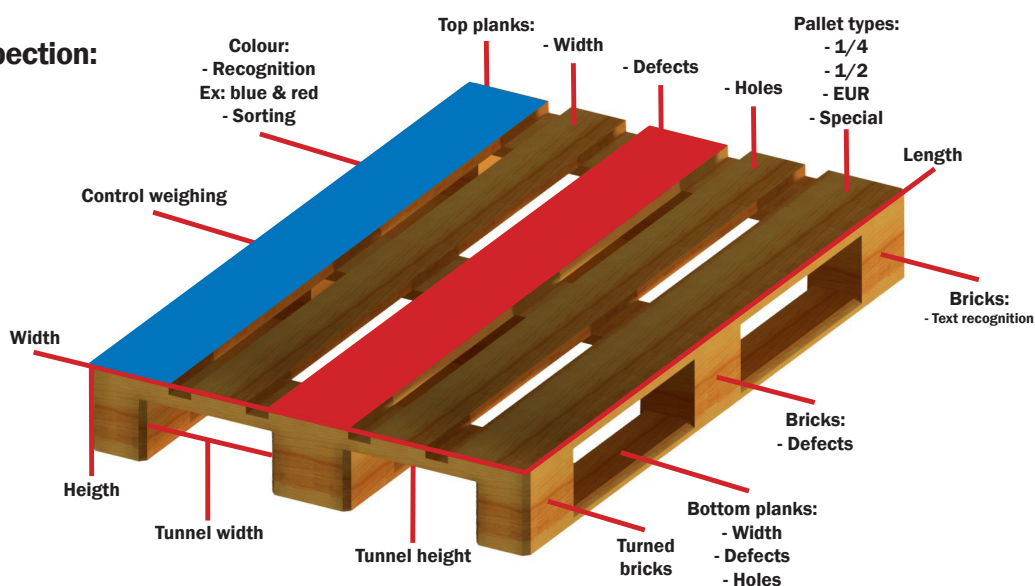
3D PALLET INSPECTION

AGV



RobSpector saves you from many unnecessary stops and complaints.

Options for inspection:



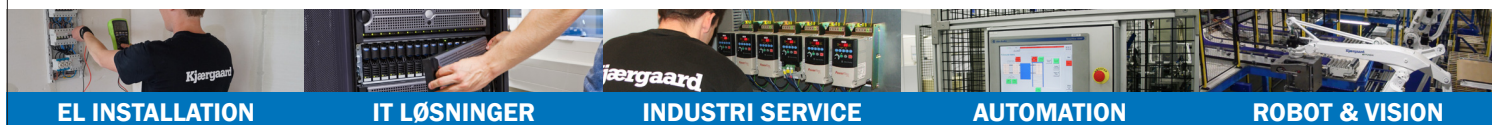
MODEL: RS3

RobSpector	Full automatic 3D pallet inspection
RobSpector, dimensions (L x W x H)	10.464 x 6410 x 6000 mm
Robot	6-axis
Pallettypes	EURO
Robottool	Combinationtool, pneumatisk
Inspection	3D-camera
Capacitet	Up to 160 pallets per hour
Infeed	Conveyour & palletmagazine
Cleaning	Brush
Press	Nail press
Sorting	Up to 3 categories
Outfeed	Conveyor
Options	Special pallets, palle tweight, pallet height

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EL INSTALLATION

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ROBOT & VISION