



Automation – Special machine manufacturing

Krommebeekstraat 24, BE - 8930 MENEN
Tel +32 56 52 14 80 - Fax +32 56 53 00 15
www.vaskon.com

Packaging line for steel wires

Option : automatic spot welding of wires (coming from a programmable bending robot)


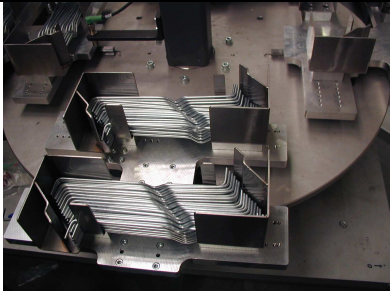






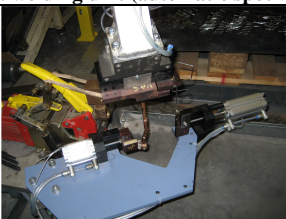
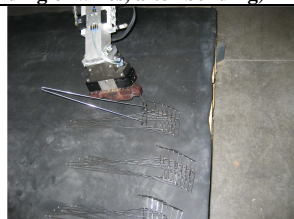


The line performs the following tasks :

- It automatically catches the wires that come from the standard wire making machines (in the above application : 3 standard machines, making 3 different kinds of wires)
- It makes bundles (eg. 100 wires per bundle).
- The bundles are placed in cardboard cases; the cases are closed and marked (inkjet)
- The cases are palletised.

The line consists of (see main picture, on the front) :

- Up to 3 standard production machines (left & back side of the robot cell)
- For each standard production machine : a units that counts the wires, and makes a bundle
- One cord strapping machine (able to place a cord around the bundle)
- A separate unit for preparing & handling the cardboard boxes (consisting of a case erector, case sealer, inkjet printer, and conveying equipment) . The unit folds cases (from plano), presents them to the robot. Once the robot has placed the required number of bundles, the box is sent to a inkjet printer, and the box is closed automatically. The box returns to the robot, and the robot palletises the boxes. (in this case : 3 cases are presented (top right of the picture), one for each type of wire).
- Main handling robot (with special gripper)
- One palletising position for each type of wire (on the picture : 3 separate palletising positions, on the bottom of the picture)
- Option : spot welding :
 - o 1 free programmable bending robot (to the right side of the robot cell, Robomac)
 - o A spot welding unit (between the Robomac and the main handling robot)

		
Case handling unit (consisting of a case erector, a case sealer, an inkjet printer and conveying equipment).	Unit that counts the wires & prepares bundles (one unit for each type of wire = for each standard production machine). The bundles are taken out by the handling robot.	The robot presents the bundle to a cord strapping machine, and places the bundle in the corresponding case
		
For each production machine, one case is presented to the robot (for filling with bundles). In our case : 3 boxes.	Once the case is filled, it is sent over the conveyor, through an inkjet printer (for marking the product ID) & case sealing unit.	The case is sent back to the handling robot, and the robot automatically palletises the boxes (one palletising position for each type of wire, in our case 3 palletising positions)
OPTION : connection with programmable bending robot & spot welding unit (automatic spot welding of wires, after bending)		
		
The programmable bending robot presents a wire (after bending)	Our handling robot takes over the wire from the bending robot	The handling robot presents the wire to the spot welder.
		
		The handling robot palletises the wire (after spot welding)

Other specs upon request.

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