

Marking Robot for Better Traceability

At the trade show 'Aluminium 2018', Tebulo Industrial Robotics will be presenting a marking robot for the easy identification of aluminium rolls. With the help of this marking robot, it is relatively easy to apply a unique roll number to a roll of aluminium or steel, thus improving traceability and guaranteeing the right quality. Before the marking robot actually starts to apply the desired marking, it first measures the flatness of the roller. The marking cannot be applied to the flat side of the roll in the case of too much telescoping. Instead, the marking is applied on the outside of the material or if possible in the reel hole. If desired, the marking can even be applied in two positions, so that the roll number is easy to read both for a crane operator as well as for the warehouse operator, while enhancing their work performance. The desired marking may be a number, matrix or barcode on the product itself or on a sticker (also called 'label'). In particular, the amount of text to be applied and the diameter of the roll ultimately determine the selection of the optimum method. Both hot and cold rolls of aluminium or steel can be marked. Whereas ink is applied to cold steel rolls, in the case of aluminium, the marking robot applies black ink when the coils are cold and black paint when they are hot. Tebulo has developed this black heat-resistant paint completely in-house. It can easily be applied to aluminium rolls with temperatures ranging from 400-500° C. Since aluminium does not visually reveal when it is extremely hot, it is possible to have the robot first perform a contact measurement in order to determine the temperature. This functionality is optional. In all cases, the marking robot is placed in its own cell, next to the production line, following the station where the aluminium coil is rolled up. The marking robot only jumps into action when a coil is supplied. The proper marking robot head is selected tailored to the project. Customers can choose between different marking heads, ranging from single nozzle to dot matrix with 7 nozzles or even 32 dots, in case of the ink version. At the customer's request, these features can be combined with the following options: a labelling function, a temperature measurement and/or a scanning option. Tebulo also writes the necessary control software for the above-mentioned marking robot, completely in-house. The delivery time of the above-mentioned robot varies from 12 to 16 weeks. Meanwhile, Tebulo Industrial Robotics has successfully installed more than 150 marking robots in the world.

*Tebulo Industrial Robotics has grown into a leading player, specialising in the design, construction and supply of innovative, technically advanced robot integrations for a wide range of applications – from design to the commissioning phase.

More information

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Markierroboter für bessere Rückverfolgbarkeit

Markeerrobot voor betere traceerbaarheid