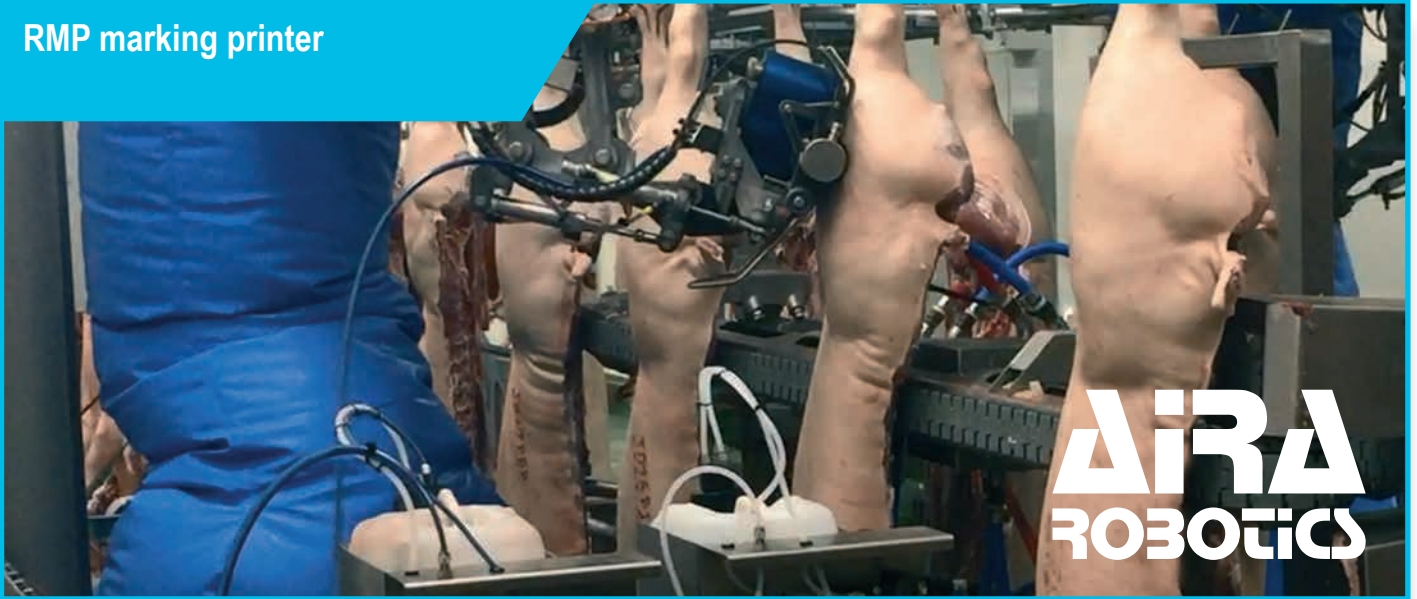


## RMP marking printer



## Accurate carcass printing

The AiRA marking printer combines two six-axis industrial robots, in a hygienic configuration, with highly optimized and specialized printing heads for printing of marks such as the EC health mark and/or lines of text on each primal cut. Same print on both sides of primal cut/carcass and up to 700 carcasses per hour.

The two half carcasses are conveyed and fixated simultaneously for accurate printing by the two robots (one for each half carcass) carrying a high quality and food approved print head.

### The concept

The AiRA robotics concept ensures uniform processing, accuracy and high-quality products.

With AiRA robots, continuous operation on the dressing line conveyor is maintained, as the robots are synchronized with the main line conveyor; so while carcasses by drop fingers are pulled forward, the position, depth, and angle are determined by the detection unit (vision scanner) and the process is performed in a downward movement.

The AiRA robotic concept is a dynamic concept, as multiple AiRA robots can be fitted along the main conveyor of the slaughter line. The AiRA robots are all “plug and play”, and can operate in any type of new or existing pig slaughter lines.

### Hygiene

To ensure high hygiene levels, as well as easy and efficient cleaning, the robot is covered with a strong flexible protective cover with constant air flow inside and lightly over-pressure, keeping the vital part of the robot clean and safe in the harsh environment.

### Why the RMP marking printer!

- The two double-sided synchronous fixation belts secure and support the carcasses through the printing process
- Ink is placed in the outer perimeter of the robot cell for safe and fast replacement
- Even and clear print results with flexible print heads
- Exact position of print with the photo-electric guard



## Pre-conditions

The total system consisting of:

- Two robots, each with a hygienic protective cover
- Printing heads mounted on the robots
- Carcass guidance system
- Control unit with transformer box
- Robot fence with secured entrance

## Safety and legal requirements

The AiRA marking printer is CE approved and designed to meet the strictest demand on health and safety.

## Technical data

Capacity	700 carcasses/hour
Live weight	60-140 kg/132-308 lbs
Process parameters	Individual processing parameters for each carcass, customized settings possible
Vision scanner	3D vision system based on optical measuring device
Voltage	380-575V AC 50/60Hz 3 phase
Control voltage	24V DC
Requirements:	
Compressed air	8 bar (min. 6 bar constantly) Dry air, free of oil and dust absorbed Approved for use in the food industry ISO 8573-1:2010 Class 1.4.1

Technical data may be subject to changes



## Advantages with the AiRA concept

- A concept founded on more than 20 years in R&D and engineering of automated processing
- Homogeneous processing
- Reduction of labour cost with robots
- Human machine interface for setting and adjusting the robot
- Low maintenance
- Easy and swift to clean and keep clean
- Easy operation and troubleshooting with uniform user-friendly operator panels on the AiRA robots
- The software interfaces with all types of monitoring systems



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