



# OUR ROBOTS LOVE THE UNPREDICTABLE

Robotics, vision and artificial intelligence to automate complex industrial processes

**SILÉANE**  
GROUP

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# AGILE ROBOTICS: PICK & PLACE & 3D GESTURE

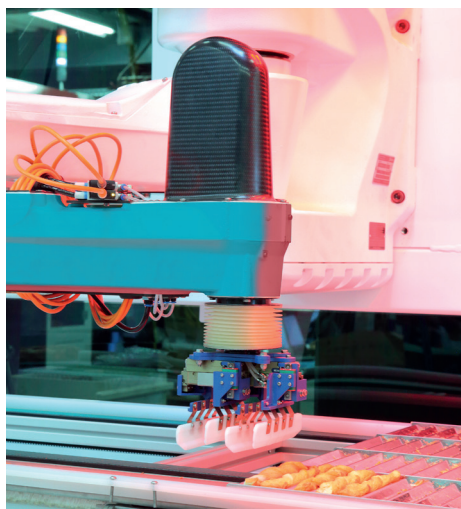
THE SKILL OF SELF-ADJUSTING  
TO RANDOM SITUATIONS IN  
VARYING PRODUCTIONS!

## ROBOTS FOR TOMORROW'S INDUSTRY

Already a reference in Robotics, Vision systems and Artificial Intelligence for the industry, Siléane Group creates adaptive robotics for application in highly demanding industries.

## INDUSTRY 4.0

Industrial robotics is developing to become both agile and connected in the Industry 4.0 world. Today production constraints are such that robots are evolving and must adapt to take their environment into account every second. So the challenge is to make robots adaptive, flexible and able to communicate. This means they are able to detect their environment and adapt to it in real time. Visual recognition, adaptive guidance, orientation and quality control. So whether photographs, optics, image processing or control of variant parameters are involved, the reliability of many applications is purely and simply a matter of experience. In random or unknown situations, Siléane robotics technology enables robots to understand all the subtleties of a 3D space in real time and adapt their trajectories to it automatically. Therefore complexity, unpredictability and randomness are managed by our self-adapting robots.



## SILEANE THE SUGGESTION BOX

Technological innovation is part of our DNA and is our main driver. We move from field to science and vice versa every day and are able to develop "blank sheet", completely novel (4.1!) solutions just for you by combining our many skills (vision, mechanics, automation, robotics, IT, project engineering, etc.). In this way we have built strong partnerships and have many different patents, either our own or shared.

## STANDARD PRODUCT RANGES AND SPECIAL MACHINES

Since 2002, we have designed and produced 3 robots, which are now industrialised and standardised. Flowpick for Pick & Place (a robot devoted to handling products that are often fragile in high rate production flows), Rovaldy (a robot devoted to the surface treatment industry for attaching and detaching, assembling and dismantling, loading and unloading parts onto treatment supports), Kamido for bin picking (a self-adapting robot for bin picking, waste sorting and picking/kitting operations). Flowpick, Rovaldy and Kamido make up a range of "standard machines" for many of these niche applications.



  
**SILEANE**  
ADAPTIVE ROBOTICS

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