sil€ane

ROBOTICS & VISION

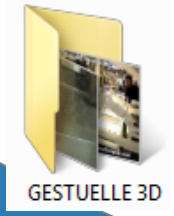
siléane

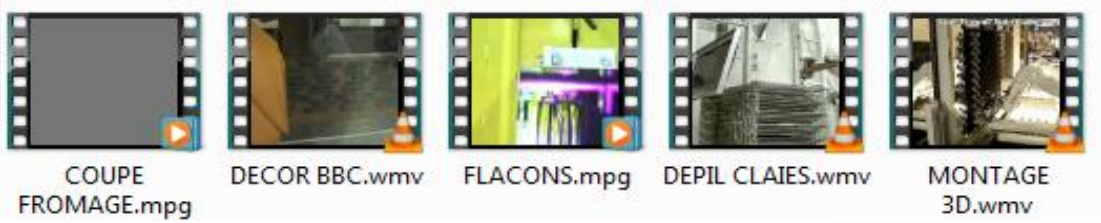
✓ Adaptive Machines manufacturer

✓ GESTURE Automation in random or unknow context

PICK & PLACE

HUMAN GESTURE





siléane
ROBOTIQUE & VISION

siléane

✓ **Field of customer needs :**

→ **High diversity of products** and/or **tools**

(Unshape, fragile, fresh, soft, flexible, …)

→ Automation of (still) manual operations

→ Cutting, killing change-over time

→ Needs of ultra-flexibility

→ ***AUTONOMOUS ROBOTIC for INDUSTRY***

MECHANIC + ROBOTIC + VISION + AI

siléane
ROBOTIQUE & VISION

siléane

ROBOTICS and VISION

✓ Adaptative & autonomous ROBOTICS

R & D

SPECIAL PROJECTS

PRODUCTS LINES

PICK & PLACE

flowpick

HUMAN GESTURE

ROVALDY

Kamido

siléane

ROBOTICS and VISION

Portfolio

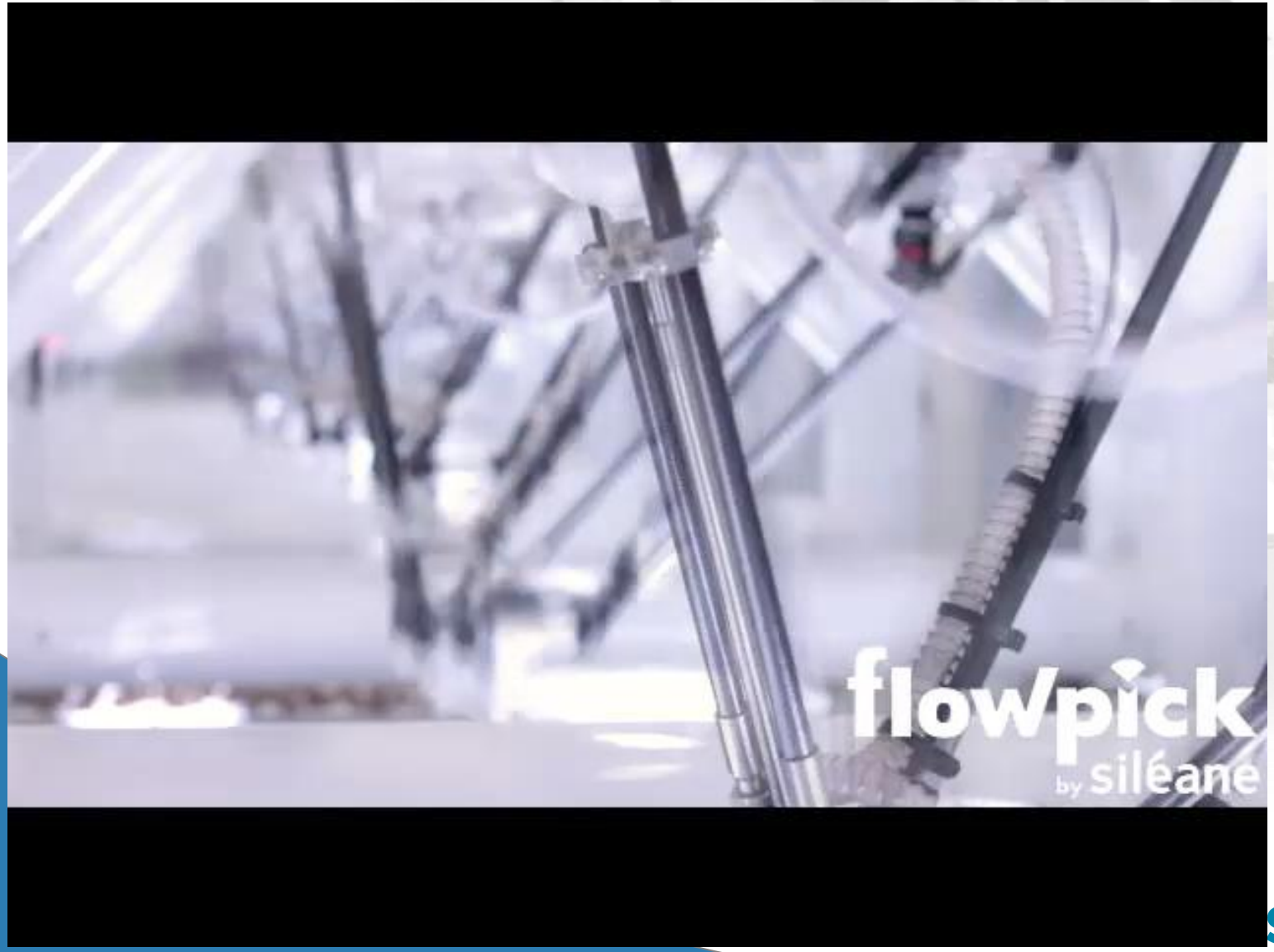
✓ **Adaptative Machine** for **INSPECTION and HANDLING**

flowpick	***PICK & PLACE***	***Packing Systems*** ***Loading, unloading machines***
Kamido	***BIN GRASPING***	***Sorting*** ***Loading, machines*** ***Order picking systems***
ROVALDY	***HUMAN GESTURE***	***Galvanic Mounting***

siléane
ROBOTIQUE & VISION

PICK & PLACE

Systèmes de conditionnement - Chargement / déchargement de machines



- Chargement de machines
- Emboîtage
- Composition
- Panachage
- Assortiments

siléane
ROBOTIQUE & VISION

PICK & PLACE

Systèmes de conditionnement - Chargement / déchargement de machines

Chargement de machines

Emboîtage

Composition

siléane
ROBOTIQUE & VISION

PICK & PLACE

Systèmes de conditionnement - Chargement / déchargement de machines

siléane
ROBOTIQUE & VISION

PICK & PLACE

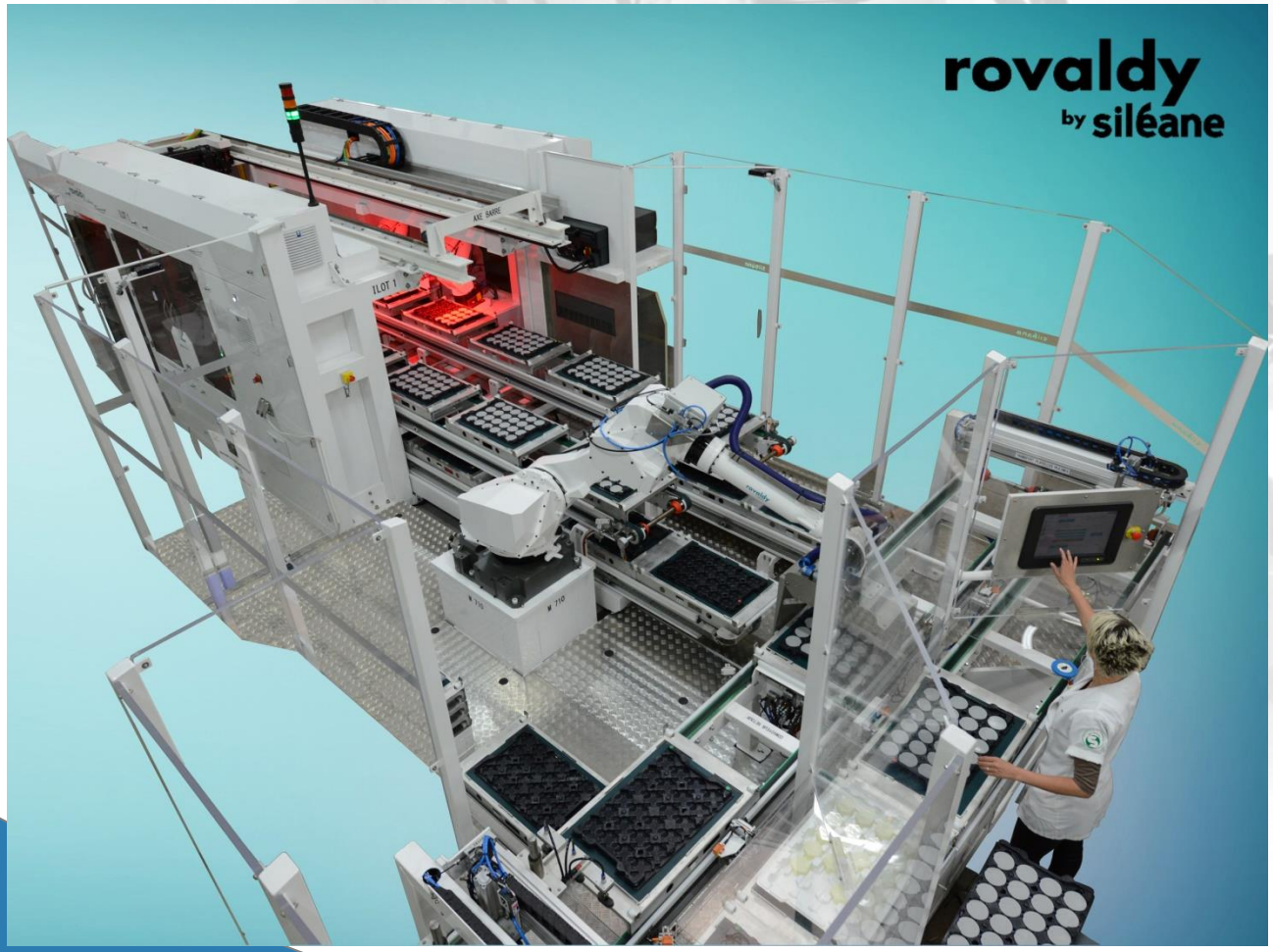
Systèmes de conditionnement - Chargement / déchargement de machines

siléane
ROBOTIQUE & VISION

3D ADAPTIVE GESTURE

rovaldy

Automatic mounting for ELECTROPLATING or PAINTING LINE



siléane
ROBOTIQUE & VISION

YOUR NEEDS (and issues)

ELECTROPLATING and PAINTING LINES

Part-mounting and unmounting on racks is manual in most cases.

Involving complications for your production flow:
Mounting / Unmounting speedrate,
Reliability,
Quality,
Musculoskeletal disorders
...

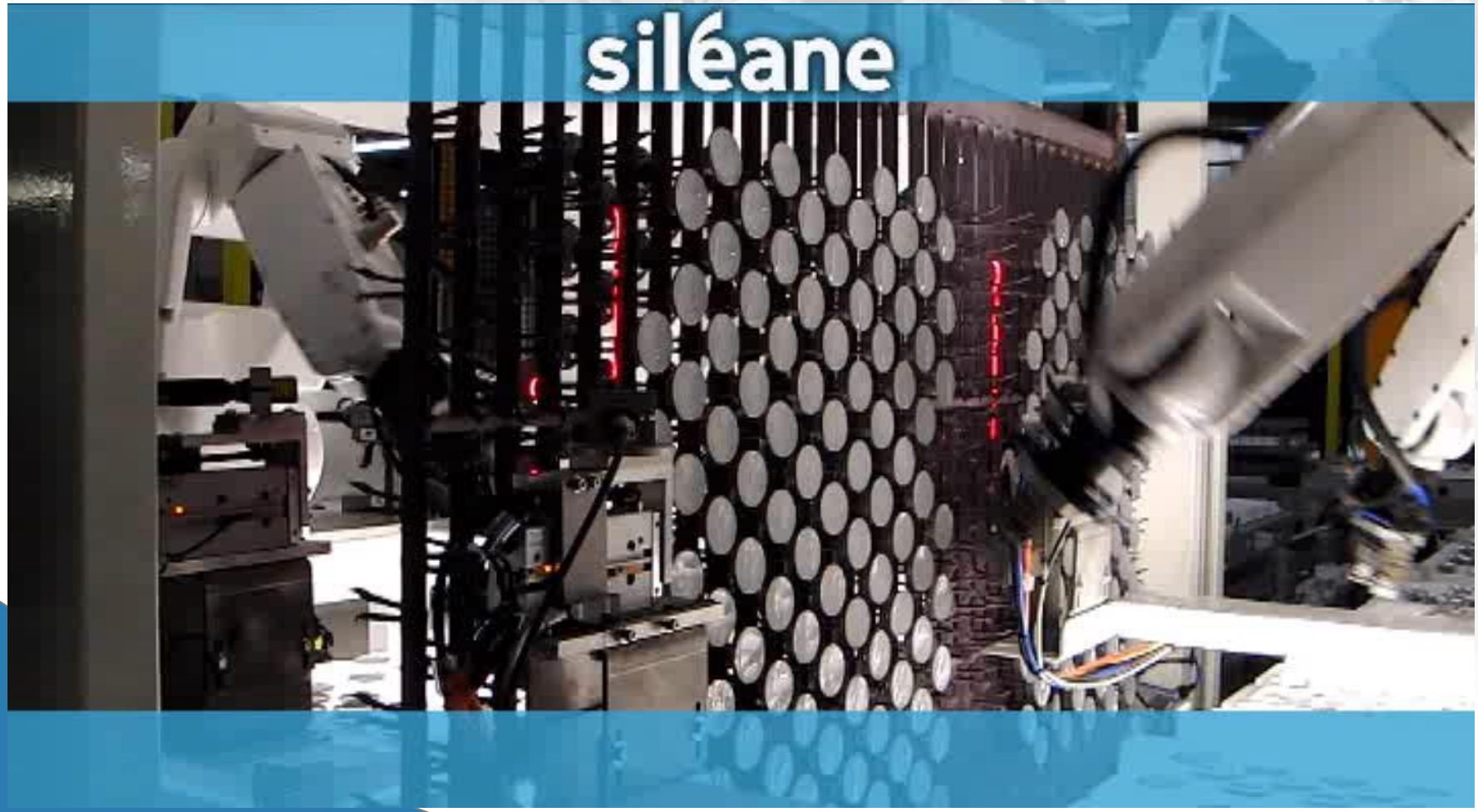
We automate this process

siléane
ROBOTIQUE & VISION

3D ADAPTIVE GESTURE

rovaldy

Automatic mounting for ELECTROPLATING or PAINTING LINE



siléane
ROBOTIQUE & VISION

3D ADAPTIVE GESTURE

Automatic mounting for ELECTROPLATING / PAINTING LINE

ROBOTIQUE & VISION

3D ADAPTIVE GESTURE

Automatic mounting for ELECTROPLATING / PAINTING LINE

3D ADAPTIVE GESTURE

Automatic mounting for ELECTROPLATING / PAINTING LINE

sileane
ROBOTIQUE & VISION

3D ADAPTIVE GESTURE

Automatic mounting for ELECTROPLATING / PAINTING LINE

sileane
ROBOTIQUE & VISION

3D ADAPTIVE GESTURE

Automatic mounting for ELECTROPLATING / PAINTING LINE

ROBOTIQUE & VISION

Product flow management & Traceability

Product flow management is an issue in most cases.

- ✓ How to continuously feed the mounting line, when parts are of different references?
- ✓ How to manage the leftover of parts?
- ✓ How to create a free-flowing mounting and unmounting flow?

An AGV allows to :

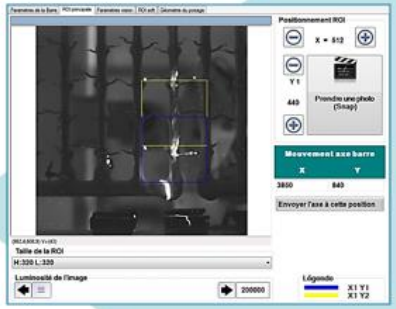
- Create and manage a stockpile of product references
- Feed the mounting line according to the given production orders
- Take away the parts-containers (empty or half-empty) from the mounting/unmounting line
- Manage the leftover of parts and bring them back to the stockpile
- Manage the infilling of half-empty or empty containers to replenish the stockpile

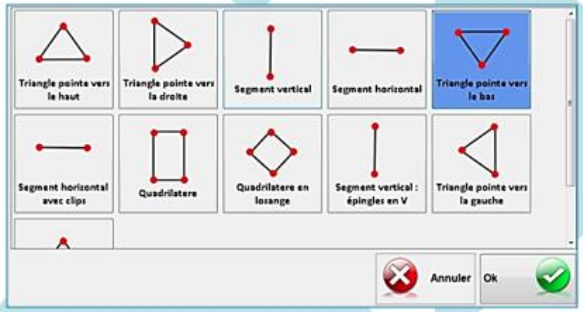
siléane
ROBOTIQUE & VISION

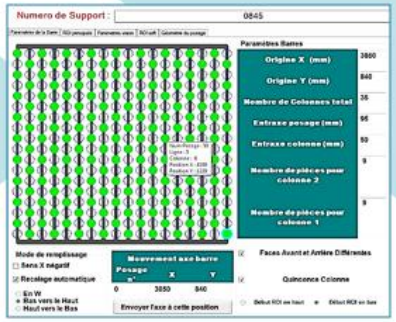
Vision technology

Pin detection:

- Easy and user-friendly rack parameterizing,
- Library of several pins types already available in the **ROVALDY** software.







siléane
ROBOTIQUE & VISION

Software and intuitive programming

Our Sileane Human-Machine Interface makes the programming easy!
We develop open software functions for full customer parametrizing that allow an autonomous administration of the calculator.

« Users can create new product references in just few minutes »

siléane
ROBOTIQUE & VISION

Gripping technology

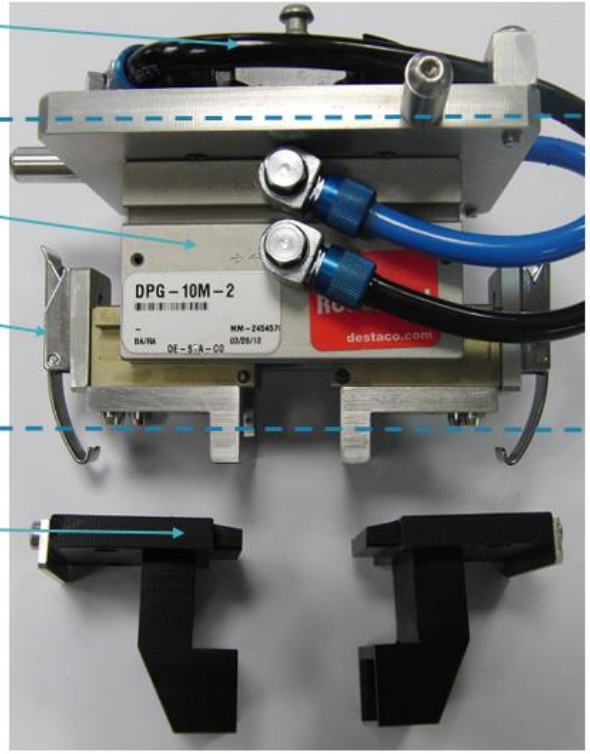
Our grippers are modular for you to make savings on tool costs. And a change of tools only takes few seconds!

Pneumatic coupling device for automatic tool changing

Parallel gripper

Fast locking system

Dedicated Jaws (part to be changed from one reference to another)



COUPLING LEVEL

ACTUATOR LEVEL

TOOL LEVEL

siléane
ROBOTIQUE & VISION

3D ADAPTIVE GESTURE

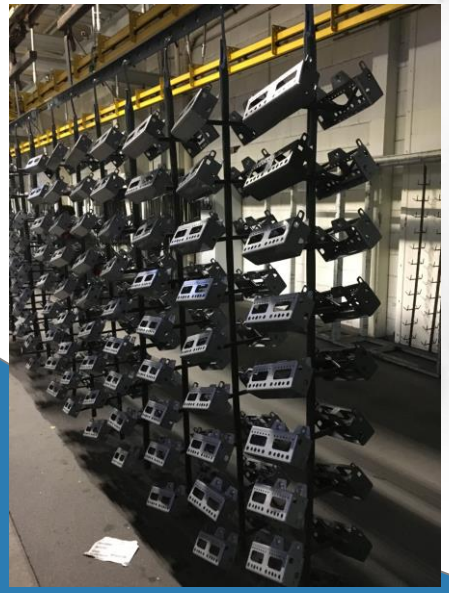
Automatic mounting for ELECTROPLATING / PAINTING LINE

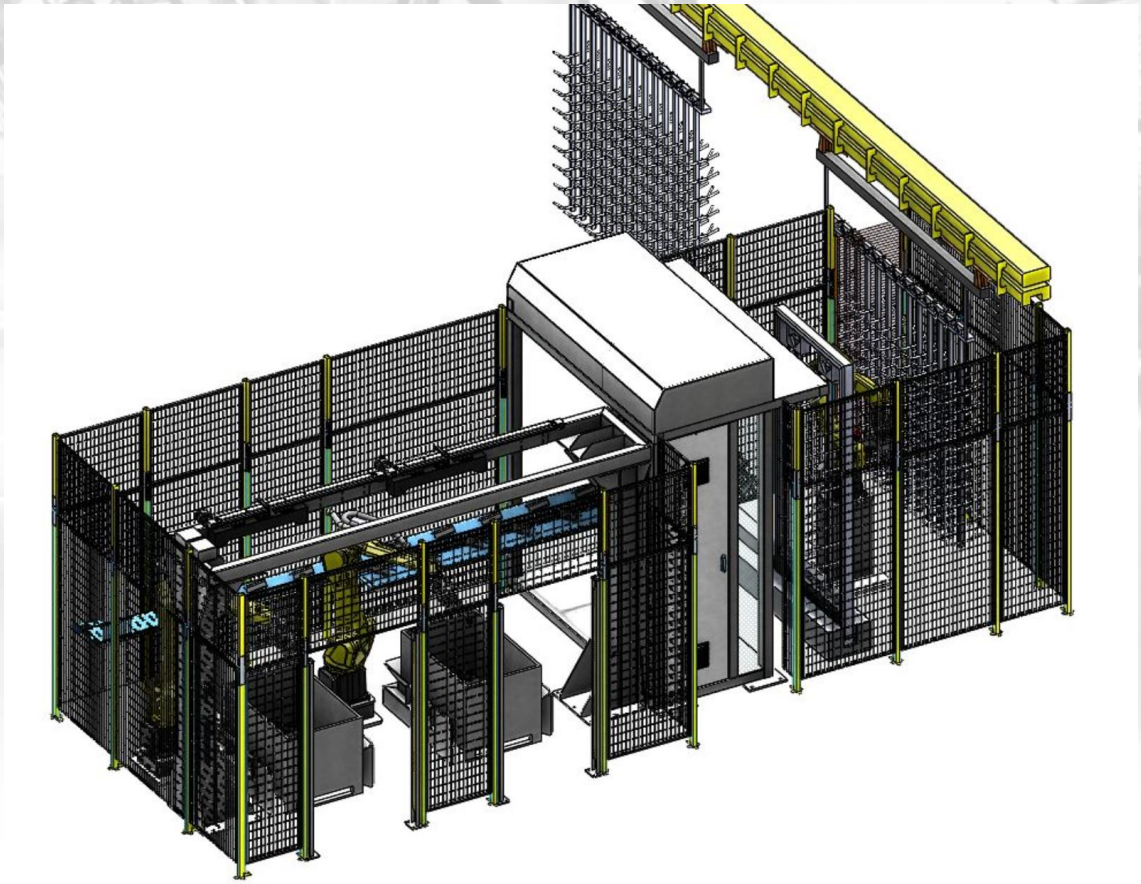
siléane
ROBOTIQUE & VISION

3D ADAPTIVE GESTURE

Automatic mounting for ELECTROPLATING / PAINTING LINE

Exemple sur ligne de peinture



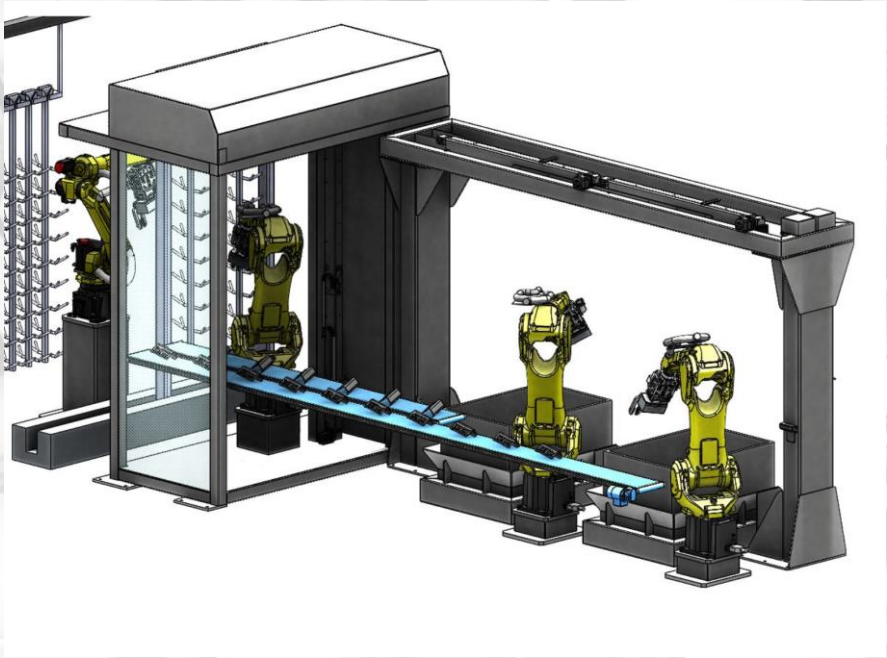


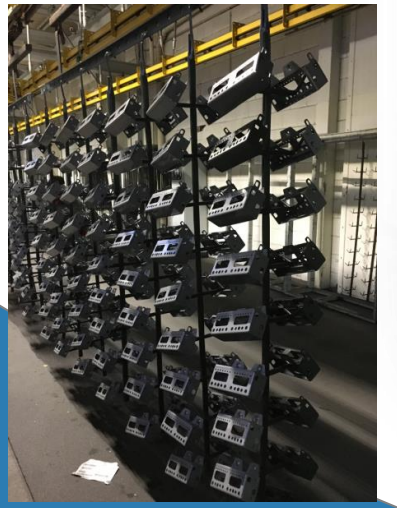
siléane
ROBOTIQUE & VISION

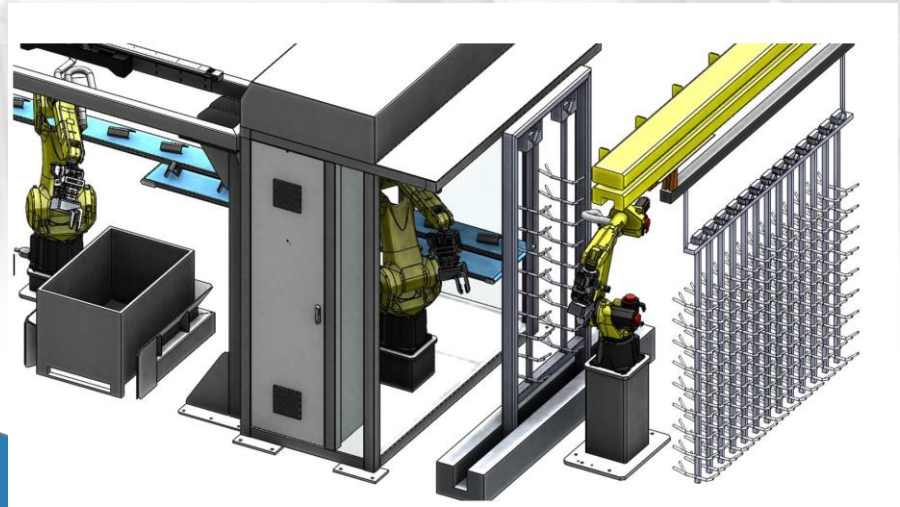
3D ADAPTIVE GESTURE

Automatic mounting for ELECTROPLATING / PAINTING LINE

Exemple sur ligne de peinture







siléane
ROBOTIQUE & VISION

Autonomous 3D Bin grasping machine

siléane
ROBOTIQUE & VISION

K1

→ Flexible feeding

K2

→ Devracage 3D en contenant

3D ADAPTIVE GESTURE

Automatic mounting for ELECTROPLATING / PAINTING LINE

siléane
ROBOTIQUE & VISION