

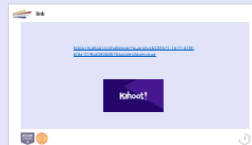
# Robotics

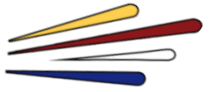


Rejoindre le jeu à l'adresse **www.kahoot.it**  
ou avec **l'application Kahoot!**

Code PIN du jeu :

# Kahoot!

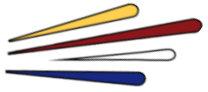




link

<https://kahoot.it/challenge/?quiz-id=4b232671-1e77-479f-bfda-219ba080b807&single-player=true>

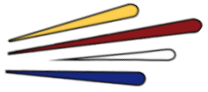
The Kahoot! logo, featuring the word "Kahoot!" in a white, bold, sans-serif font with an exclamation point, set against a dark purple background with a lighter purple triangle pointing to the right.



# How many Industrial robot families exist?

- Cartesian
- Parallel
- Cobot
- AGV
- Articulated
- SCARA

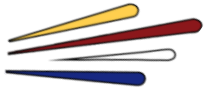




# Parallel Manipulator:

Mechanical system that uses several computer-controlled serial chains to support a single platform, or end-effector.

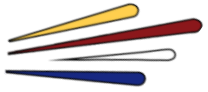




# Automated guided vehicle or automatic guided vehicle (AGV)

A portable robot that follows along marked long lines or wires on the floor, or uses radio waves, vision cameras, magnets, or lasers for navigation

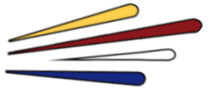




# Cobot, or collaborative robot

A robot intended for direct human robot interaction within a shared space, or where humans and robots are in close proximity



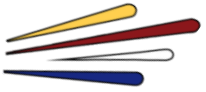


# Cartesian coordinate robot (linear robot)

An industrial robot whose three principal axes of control are linear (they move in a straight line rather than rotate) and are at right angles to each other



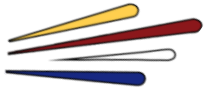




# The SCARA

It's a type of industrial robot. The acronym stands for Selective Compliance Assembly Robot Arm or Selective Compliance Articulated Robot Arm. SCARA's parallel-axis joint layout, the arm is slightly compliant in the X-Y direction but rigid in the 'Z' direction, hence the term: Selective Compliant. This is advantageous for many types of assembly operations





# Articulated robot

It's a robot with rotary joints. Articulated robots can range from simple two-jointed structures to systems with 10 or more interacting joints. They are powered by a variety of means, including electric motors.



- Suspended robot:

**Advantages:** Speed, fiability

**Downsides:** charge of 500g, security barrier , price

- Platform robots:

**Advanteges:** Accuracy, reliability ,

**Downsides:** charge , speed, reliability, 3D amplitude

- SCARA robots:

**Advantages:** Accuracy, price

**Downsides:** charge , 3D amplitude, price

- Cobot:

**Advantages:** Easily adaptable, no safety space, cheaper

**Downsides:** charge, speed

- AGV:

**Advantages:** Charge,

**Downsides:** price

- Cartesian robots:

**Advantages:** Mechanical resistance

**Downsides:** space saving