TC200

Modular industrial robot

TECDRON
Robotic Systems
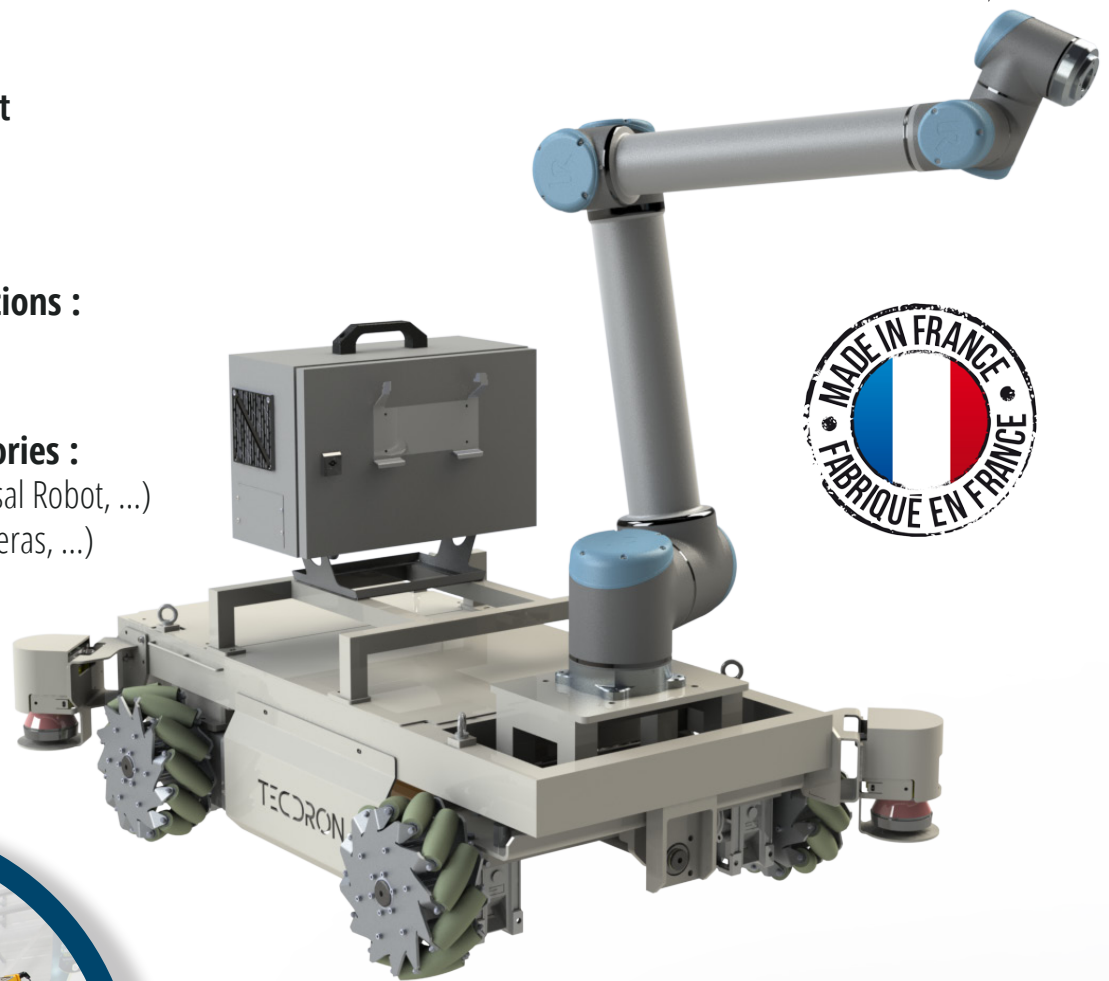
Varied mobility configurations :
- Differential
- Omnidirectional

Wide possibility of accessories :
- Robotic arms (Kuka, Universal Robot, ...)
- Sensors (AHRS, LIDAR, Cameras, ...)
- Payload up to 265lbs

Command and control :
- Remote-controlled
- Autonomous navigation

MADE IN FRANCE · FABRIQUÉ EN FRANCE

TC200 is the first UGV for industry 4.0, able to receive a wide array of accessories and cobots while offering varied mobility and navigation capabilities.
*It is ideal for **industry, research and eductation**.*

High tech product

TC200 is the result of 3 years of R&D in collaboration with several industrials and technological research institute.

Each wheel is motorized individually thanks to **brushless motors** equipped with **brakes** and **encoders** for **closed loop** operation.

A **pivoting mechanism** provides greater **crossing capacity** while allowing to c**orrect irregularities of the ground** and thus ensuring all four wheels remain on the ground.

The tubular design offers **great accessibility** and **eases maintenance and accessorization**.

Industry, research and education

TC200 is optimal for industry 4.0 applications with strong collaboration between humans and machines. It is known as cobotics.

Its **simple and open design** makes TC200 easy to develop and experiment with all kinds of new applications such as screwing screws automatically onto an assembly line, moving packages on conveyor or adapting to diverse configurations.

Its **industrial quality** allows the world of education to efficiently train the engineers of tomorrow in robotics, integrating the industrial dimension into their learning.

Its **versatility** makes TC 200 a **low-cost solution** to address a very large number of applications.

Technical characteristics

Motors	4 brushless electric motors with temperature sensor
Brakes	4 electromagnetic brakes
Encoders	4 2048 ppm encoders
Max payload	265 lbs
Max power	4.4 kW
Max torque	206.5 ft-lb
Dimensions (w/o accessoires)	L48.35 in x H12.72 in x W31.3 in
Slope	10° (w/o load)
Side slope	10° (w/o load)
Crossing capacity	1.2 in
Robot thrust (no load)	2200 N
Weight	275 lbs
Speed	4.5 mph
Autonomy	6 hours in permanent operation
Battery charging time	4 hours
Battery type	L-ION 51.1V @ 74.1Ah (CANBus)
Operating bus	Open (RS232, CAN, USB)
Control interface	Open. Compatible ROS

::: ROS.org

Options / accessories

Wheels :
- Mecanum (omnidirectional)
- Polyurethan straight wheel
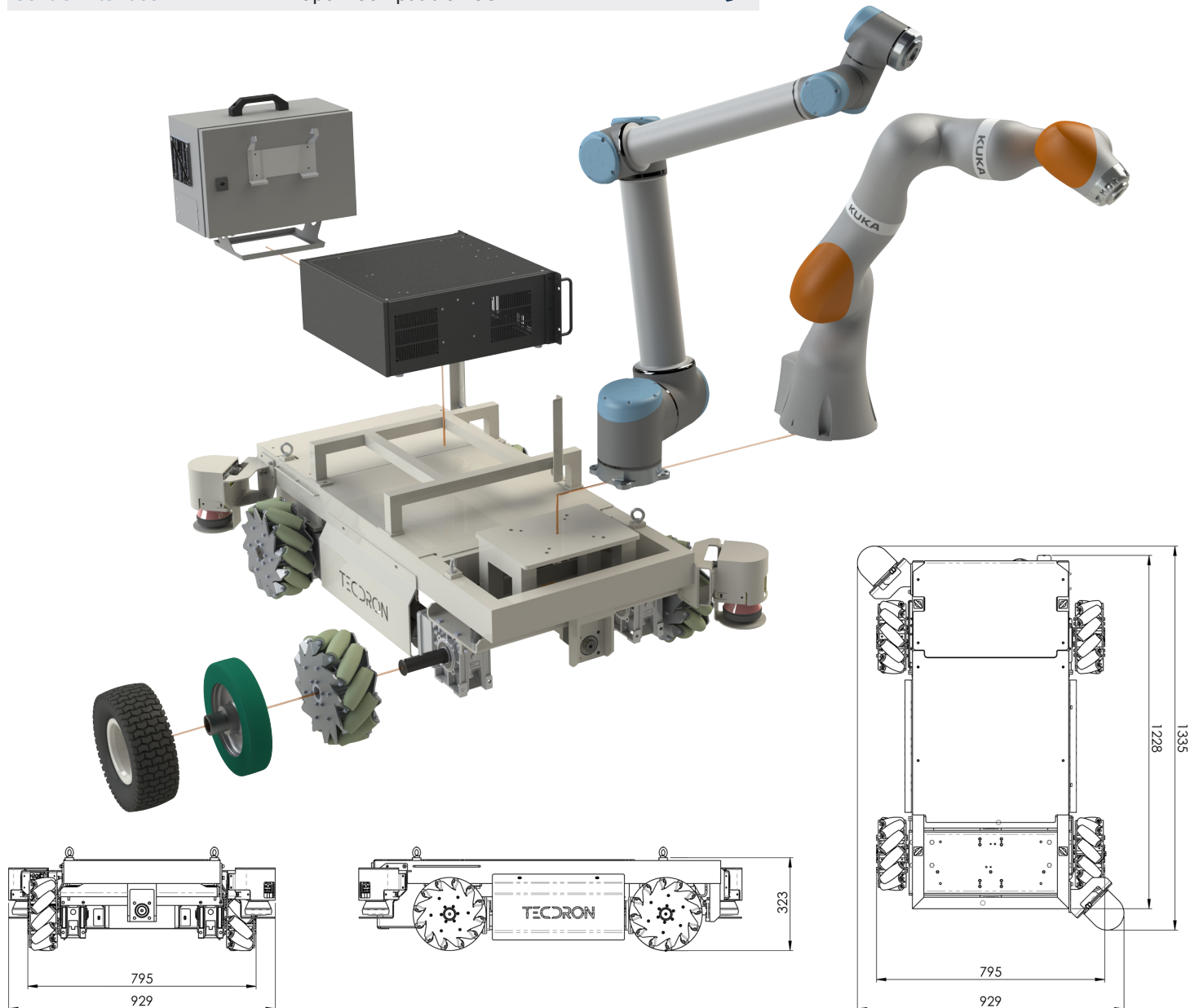- Inflatable tire

Cobots :
- Kuka LBR iiwa
- Universal Robot UR10
- Techman Robot TM12/TM14
- ...

LIDAR : Sick

AHRS / GNSS / 2D/3D camera

Other accessories : Contact us

Partners

iRT JULES VERNE

ARTS ET MÉTIERS ParisTech

795
929

323

1335
1228

795
929