

## Main characteristics of our project

SmartCash device allows you to count the exact amount of coins introduced with a mechanical system that classifies each coin, and count them through IR Sensors. It also allows you to obtain the desired amount using a keyboard-screen communication. It is a mechatronic system with a modular and cylindrical design.

- Dimensions:  
344 x 347,65 x 459,5 [mm]
- Weight:  
7,000 [Kg]



*Illustration 2.- Total weight of the device.*



*Illustration 1.- Weight without the power supply.*

- Freedom degrees:  
3 (DC, Stepper and Servo motors)
- Materials:  
Compact Polycarbonate, 3D printed parts, PET and Wood sheets, Aluminium axis bars.
- Power supply:  
Power Supply 6301-9 Hp (Voltage Transformer AC 110V / 220V to 12V DC; 15A; 180W)
- Autonomy:  
Infinite (if you can provide electricity)
- Sensors:  
TCRT5000 Infrared Reflective Photoelectric
- Programming language used:  
Arduino IDE