

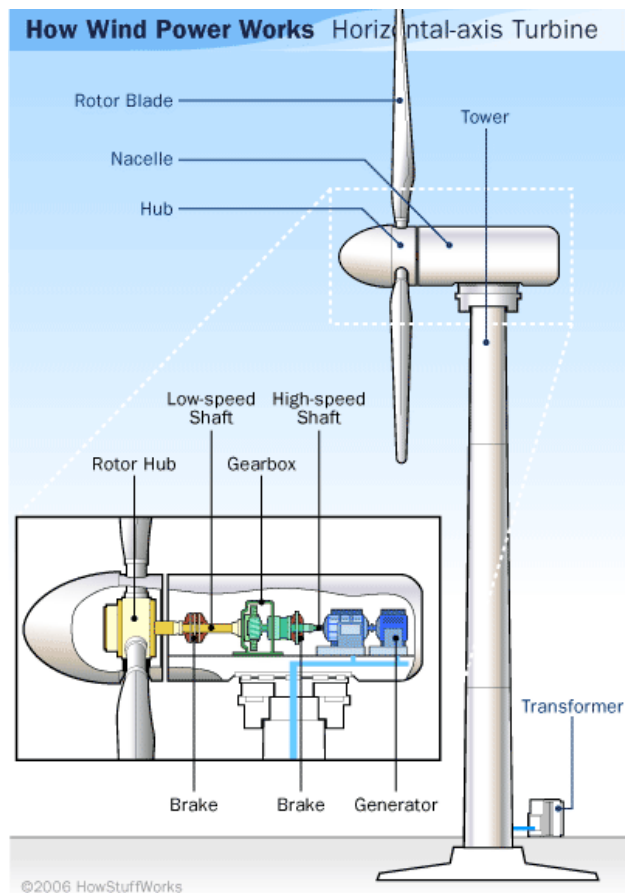
**DESCRIBING YOUR PRODUCT: MAIN CHARACTERISTICS**

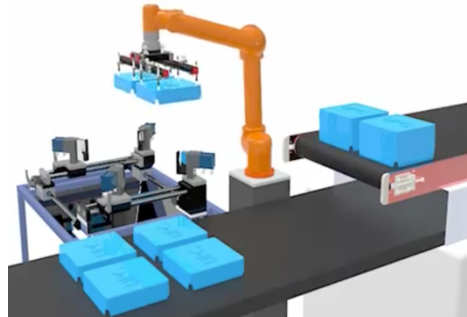
First of all, visit this place to get a general idea about technical descriptions:

<https://pressbooks.bccampus.ca/technicalwriting/chapter/technicaldescriptions/>

Now look at these examples of sketches and figures and pictures (visual information) that usually accompany specs (technical specifications) and other technical documentation like catalogues or technical leaflets.

<https://science.howstuffworks.com/environmental/green-science/wind-power2.htm>





As you can see, visual information is very important in these documents. Why do specifications rely so heavily on visual aids?

Remember one of the videos in task one, the **BinE project**, which deals with a smart way to manage urban waste collection efficiently. What follows is a summary of the details that would appear in the technical specifications. Complete the table with the labels below.

Fixing method of electronic components

Dimensions of the casing

Fastening components

connection wires

Casing

Electronic parts	
Infrared Sensor	-TOF (Time of Flight) sensor -20 MHz light beams

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battery	Nominal voltage: 11.1V Nominal capacity: 2.6Ah Up to 120 days without any charge (2 parallel batteries)
.....	JKZ controller capacity: peak intensity higher than 10A, Nominal voltage: 12V High voltage protection switch: 16V
Arduino	Hardware platform consisting of a programmable microcontroller Nominal voltage: 5-12V Active-mode consumption 0.2mA
.....	Welding
<b>Mechanical Parts</b>	
.....	-Aluminium (AL3003); 100% recyclable - walls: rounding and ribs to prevent deformation or breaking
.....	High-performance Velcro
.....	68*230*210 [mm]
Shape of the casing	Rectangular (rounded edges) Inside: rounded walls and rounded ribs
Casing components (sealed)	-A warning LED (In case of malfunction or error) - Reading sensor fixed with a nitrile gasket  <u>A cover:</u> Cover materials: aluminium ( Malleability and impact resistance properties) Cover measurements: 10*230*210 [mm]
Other technical specifications	Safety (nutserts and security screws as anti-vandalism systems)

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Answer key:

Electronic parts	
Infrared Sensor	-TOF (Time of Flight) sensor -20 MHz light beams
WIFI module	2.4GHz (Frequency range) Operating current: 80mA
solar panel	a 10W solar panel Eco-friendly materials Measurements: 336*205*18 [mm]
battery	Nominal voltage: 11.1V Nominal capacity: 2.6Ah Up to 120 days without any charge (2 parallel batteries)
<b>Connection wires</b>	JKZ controller capacity: peak intensity higher than 10A, Nominal voltage: 12V High voltage protection switch: 16V
Arduino	Hardware platform consisting of a programmable microcontroller Nominal voltage: 5-12V Active-mode consumption 0.2mA
<b>Fixing method of electronic components</b>	Welding
Mechanical Parts	
<b>Casing</b>	-Aluminium (AL3003); 100% recyclable - walls: rounding and ribs to prevent deformation or breaking
<b>Fastening components</b>	High-performance Velcro
<b>Dimensions of the casing</b>	68*230*210 [mm]
Shape of the casing	Rectangular (rounded edges) Inside: rounded walls and rounded ribs
Casing components (sealed)	-A warning LED (In case of malfunction or error) - Reading sensor fixed with a nitrile gasket

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	Cover measurements: 10*230*210 [mm]
Other technical specifications	Safety (nutserts and security screws as anti-vandalism systems)