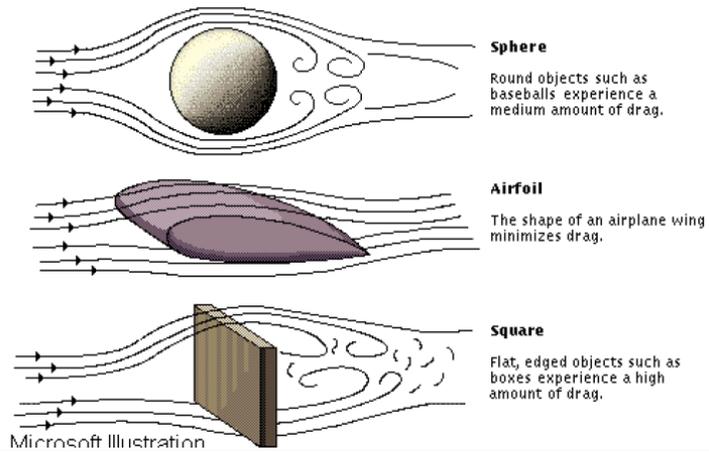


CO2 Car Design Glossary

A

Aerodynamics

How air moves around an object.



Aesthetic

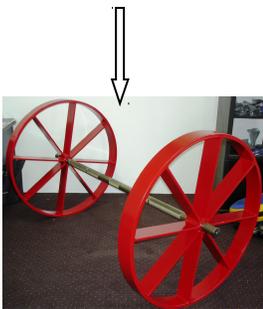
How nice something looks



Ugly



Pretty



Axle bar that connects the wheels

B

Band Saw

A power tool used to make curved cuts and is ideal for rough shaping CO₂ car bodies.



CO₂ Cartridge

A small, sealed, metal tube that contains compressed carbon dioxide. CO₂ cartridges are used to propel racecars down the track.



CO2 Car Design Glossary

D

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Drag

Force that slows an object down because the air cannot move around it. Like when you stick your hand out the window of a moving car.



Dragster

A racecar that races a short distance on a straight track. CO₂ racecars are often referred to as *dragsters*.



Drill Press

A power tool used for drilling precise holes.

Particularly useful for drilling properly aligned axle holes in the car body.



Friction

Force caused by 2 objects rubbing together that slows them down and causes heat.



CO2 Car Design Glossary

I

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Inertia

Tendency of an object at rest to remain at rest unless acted upon by a force.

P

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Power Plant

The CO₂ cartridge onboard a racecar. The *power plant housing* is the body material that surrounds the cartridge.



R

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Rail Car

A CO₂ racecar design in which wheels are mounted on the outside of the car body.



S

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Screw Eyes

Small screws with an enclosed ring on one end. Two screw eyes are mounted on the bottom of CO₂ racecars to hold the car on the track.



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Shell Car

A CO₂ racecar design in which all four wheels are housed inside the body of the car.



Specifications

Set of very specific requirements for a project or competition, often including a set of measurements.

	<i>DRAGSTER DETAILS</i>	<i>MIN</i>	<i>MAX</i>
a	Axles (diameter)	3mm	4.5mm
b	Axles (length)	35mm	88mm
c	Axles bearing (diameter)	3.5mm	4.5mm

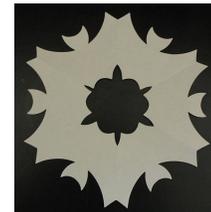
Stationary

Not moving, sitting still.



Symmetry

To have balance, or to have the same shape or size on opposite sides.



T

Thrust

Force that pushes an object, sets it into motion, or keeps it moving.



Thumbnail Sketch

A small, quick sketch used to rapidly communicate

CO2 Car Design Glossary

Tolerances

An acceptable variance from a specified measurement. Used to determine the minimum and maximum measurements.

W

Wedge Car

A racecar with external wheels that has a triangular wedge body shape.



Wheelbase



The measurement from the center of the front wheels to the center of the back wheels.