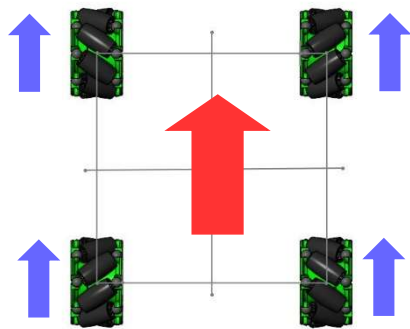


fischertechnik Omniwheels fundamentals

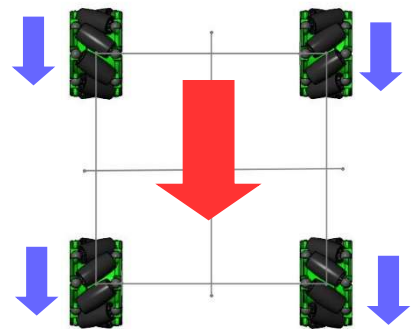
The speed and direction of rotation for each wheel can be changed individually. In an extreme case, this makes it possible to cause a vehicle to move laterally by turning the wheels on the front and rear axes in the opposite directions without moving “forwards”, or having to execute a turn around the centre axis.

The following images show you the different drives on the Mecanum wheels. The blue arrows indicate the drive direction of the wheel, while the red arrows indicate the direction your vehicle will move.

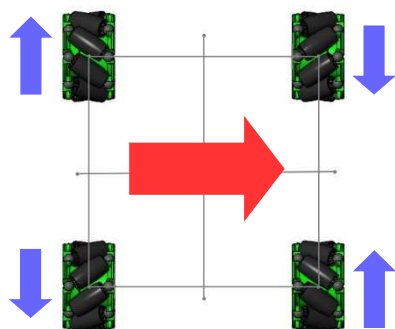
Driving direction: Forwards



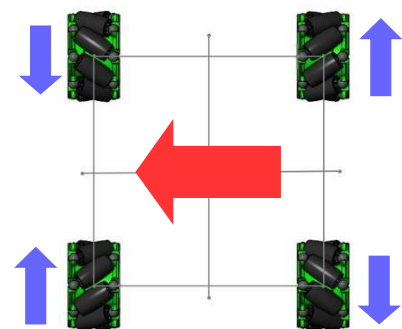
Backwards



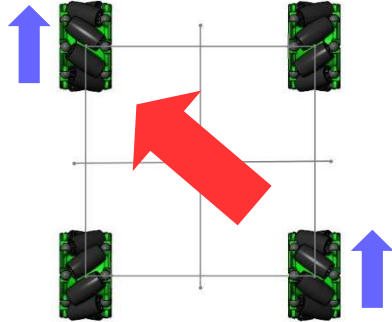
Driving direction: Sideways to the right



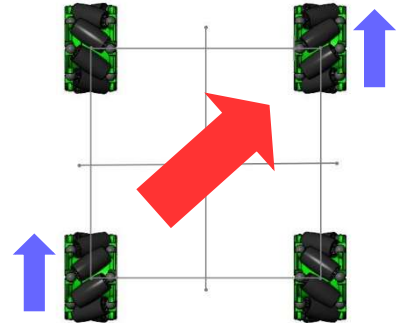
Sideways to the left



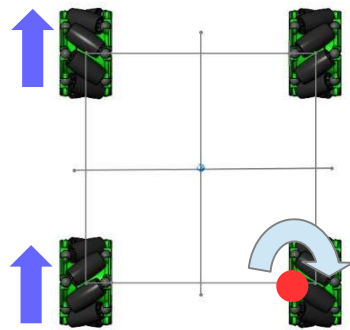
Driving direction: Diagonal left forward



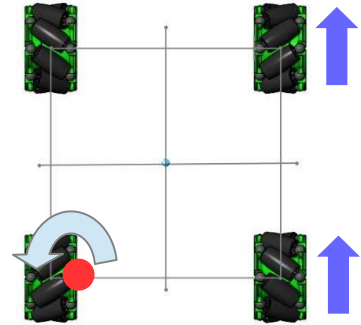
Diagonal right forward



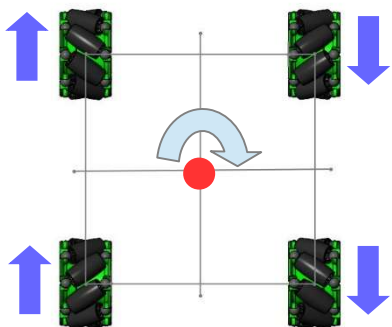
Travel around a curve: Right



Left



Rotation: Right



Rotation around the centre point of an axis

