

Introducing the World's First Robot Cheerleaders!

Innovation is a way of life at Murata,

which is why the company continues to push the boundary of technologies.

And now, with the goal of using technology to produce happy smiles,

Murata introduces the world's first team of robot cheerleaders.

Representing the infinite possibilities of electronics,

Murata cheerleaders are ready to cheer on innovators everywhere!









Hi, we're the Murata Cheerleaders!



Bicycle-riding MURATA BOY and unicycle-riding MURATA GIRL,



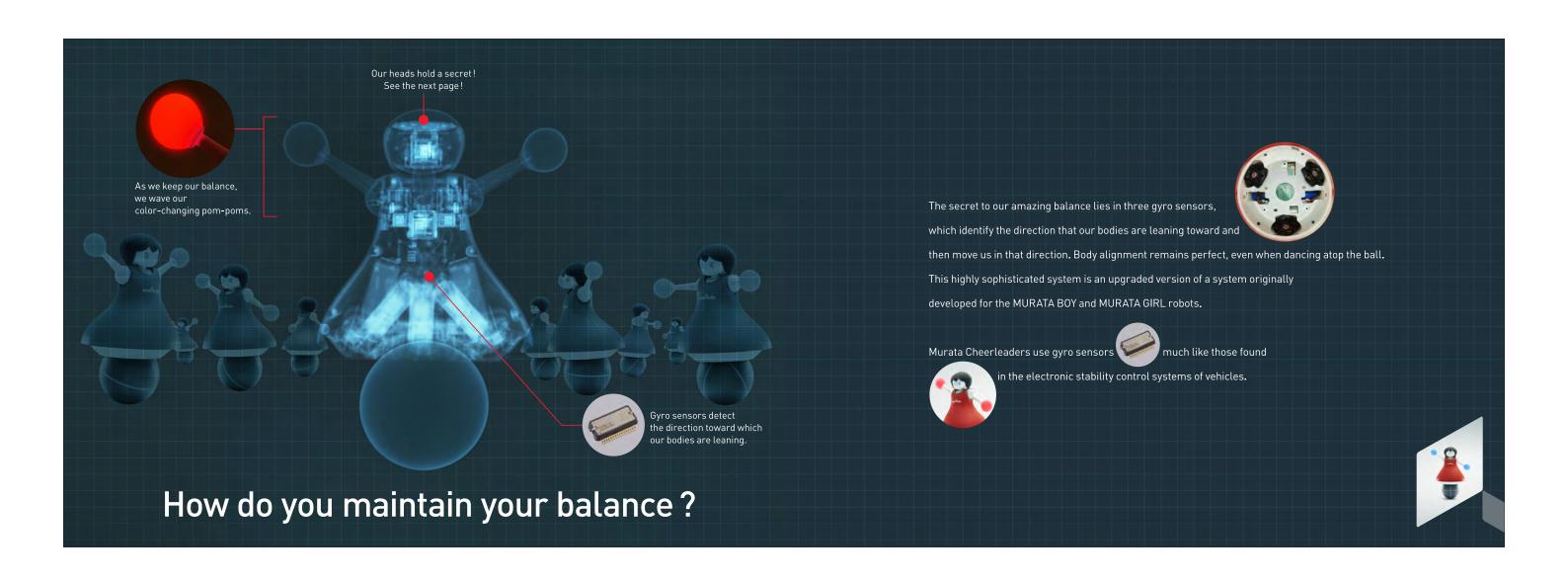
get around on wheels, but we move balanced on top of a ball. Our secret? Amazing balance that keeps us upright and

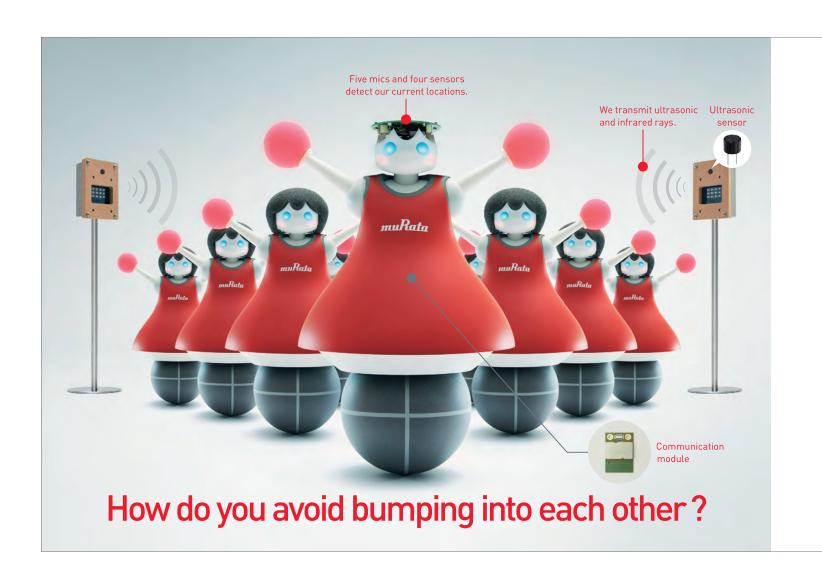
control technology for flawless and seamless teamwork,

which is why the 10 of us never collide.









Each Murata cheerleader is equipped with

five ultrasonic microphones and four infrared sensors, installed in its head.

Data from these sensors are shared via a wireless network,
enabling each cheerleader's position to be accurately located in real time.

Relative positions are determined with a combination of ultrasonic and infrared signals, which travel at different speeds. It's the same principle as counting the seconds between a flash of lightning and the sound of thunder to determine distance.

Each cheerleader has a communication module to relay the data to a central control system, where relative positions are processed to ensure that

the Murata Cheerleaders move flawlessly without bumping into each other.



