

Sensor Technologies

Akebono is engaged in the development and sales of various sensors for infrastructure in non-automotive fields through its application of vibration analysis technologies developed in the automotive field.

Infrastructure & Mobility Business

Civil engineering and construction field

- Inclinometers
- Concrete filling & compaction detection systems (Jutender)
- Inclination monitoring system for bridge construction
- Light emitting inclination sensors (LEIS)/ Pocket
- Drive wheel slip prevention system for caterpillar tracks



Inclinometer

Agriculture field

- Horizontal control systems for tractors
- Horizontal control systems for radio-controlled helicopters used for pesticide spraying



Sensor in horizontal control system for tractors

Building field

- Earthquake detectors for long-wave seismic motion
- Friction materials for vibration damping



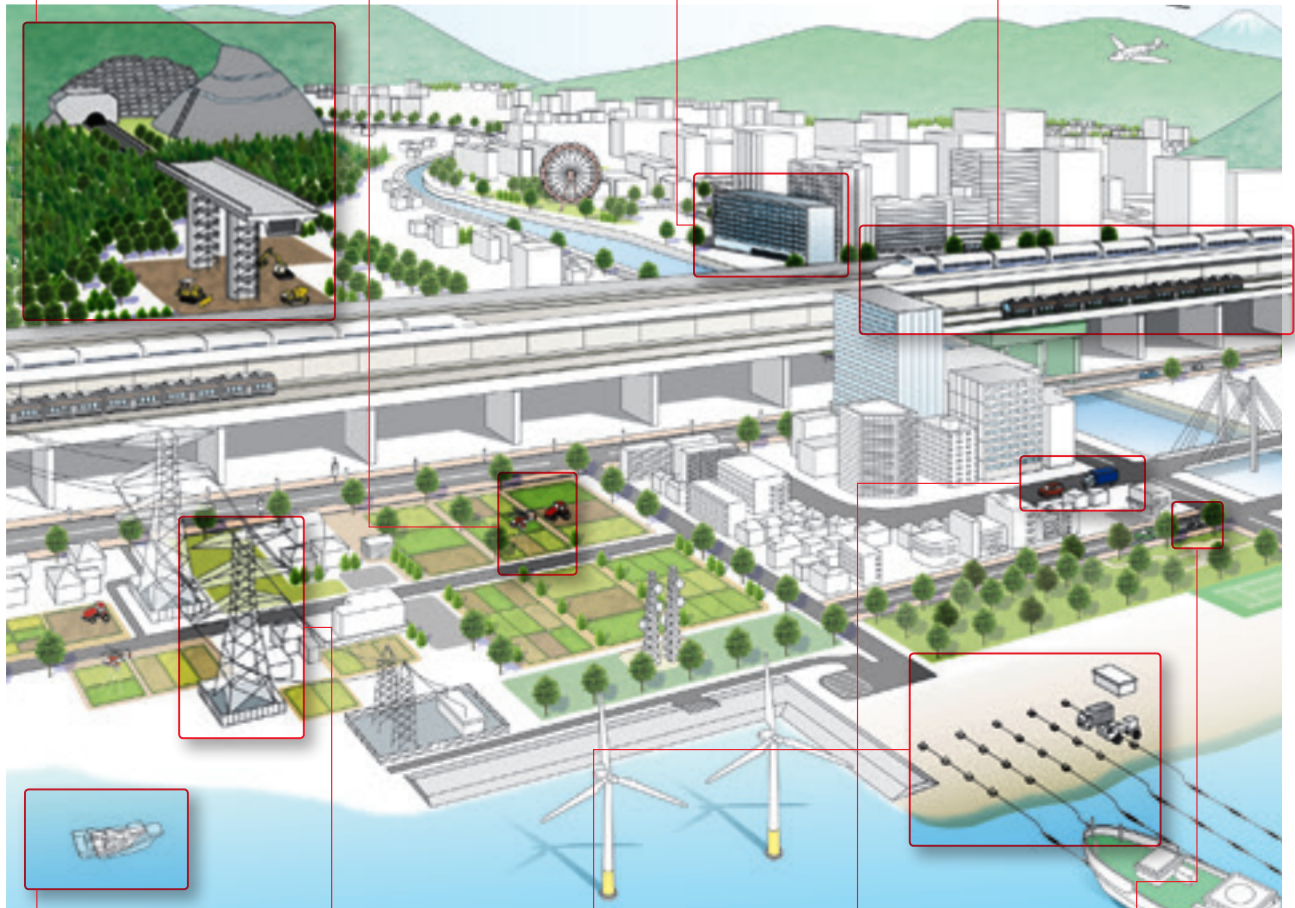
Earthquake detectors for longwave seismic motion

Railroad field

- Suspension control systems for high-speed trains
- Vehicle behavior detection devices
- Portable vibration measurement devices
- Continuous micro vibration monitoring systems for railway bridge
- Wireless vibration measurement devices

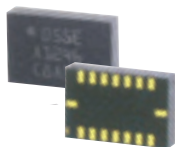


Vehicle behavior detection device



Marine field

- Position correcting systems for satellite/GPS compasses
- Position correcting systems for fish finders



Sensors in position correcting system for satellites/GPS compasses

Energy field (supply)

- Position monitoring systems for power transmission cables
- Inclination and vibration monitoring systems for steel towers



Position monitoring system for power transmission cables

Energy field (development)

- Oil/gas layer monitoring systems



Ultra low noise accelerometer for oil/gas layer monitoring system

Automotive field

- ESC (electronic stability control equipment)
- Car navigation systems
- ABS brakes
- Suspension control systems
- Rollover airbags
- Displays of inclination angle
- Operation support systems for commercial vehicles
- Hill-start assist systems



ESC

Motorcycle field

- Suspension control systems



Sensor in suspension control system