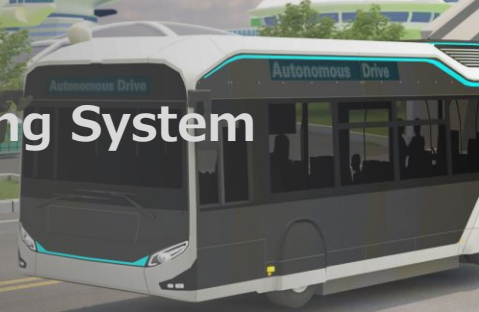
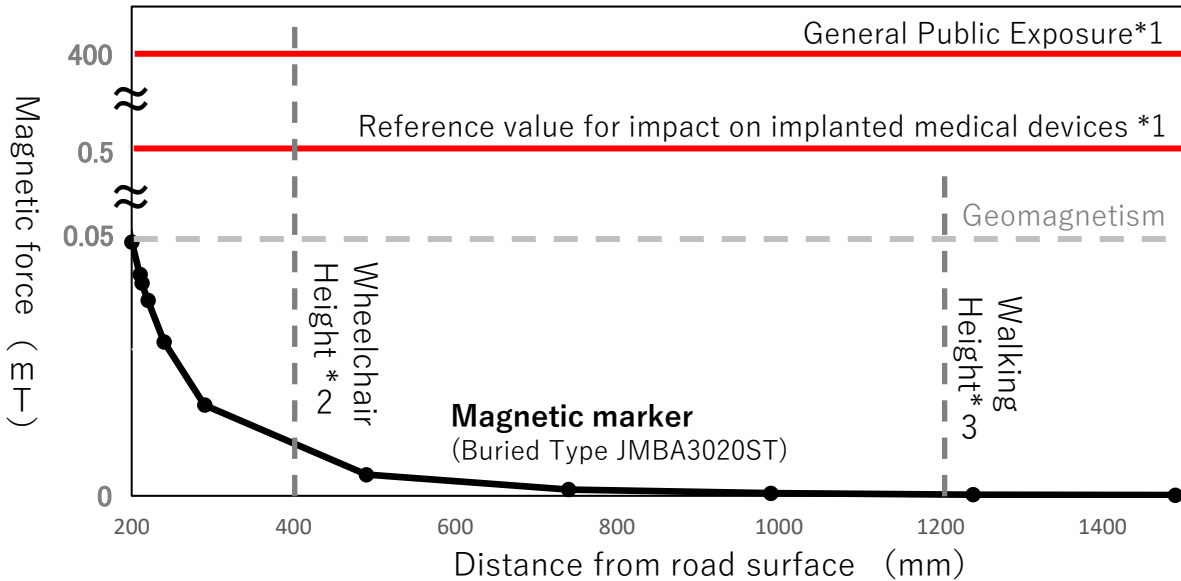


GMPS Global Magnetic Positioning System

Magnetic force of magnetic markers against guidelines for exposure limit values



No. GMPS-QA-002



* 1 : ICNIRP Guideline * 2 : Japan Automobile Manufacturers Association, Inc. * 3 : Artificial Intelligence Research Center

-When riding in a wheelchair, the magnetic force received by an implanted medical device directly above the magnetic marker is about 0.01 mT, when walking, the magnetic force received by an implanted medical device directly above the magnetic marker is about 0.0003mT, these values are smaller than the geomagnetic field, which is 0.5 mT, the value at which an implanted medical device is not affected by magnetism. The magnetic force that an implanted medical device is subjected to above the magnetic marker when walking is about 0.0003mT, which is smaller than the geomagnetic field.

-Magnetic markers have the same magnetic force as magnets used on refrigerators and whiteboards in everyday life. Magnetic markers have the same magnetic force as magnets used in refrigerators and whiteboards in everyday life. As with other magnetic products, be careful not to place them too close to embedded medical devices. Please be careful not to place them too close to embedded medical devices as with other magnetic products.

ICNIRP GUIDELINES ON LIMITS OF EXPOSURE TO STATIC MAGNETIC FIELDS

● General Public Exposures

Based on scientific knowledge on the direct effects of static fields on humans, acute exposure of the general public should not exceed 400 mT (any part of the body).

● Impact on implanted medical devices

Electromagnetic interference from low-intensity static magnetic fields has been observed to affect the operation of pacemakers, particularly those with magnetic switches. . . . In general, the operation of these devices is not adversely affected by static magnetic fields below 0.5 mT.