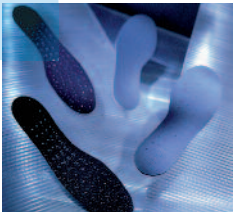
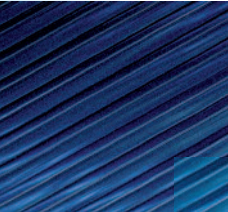


**NIKKEN®** Discover it. Live it.



**ALWAYS THE LEADER.**

**Nikken Magnetic  
Technology**

## From the beginning, Nikken has been at the forefront of magnetic technology applications.



The expanded use of magnetism is a field that has attracted increasing attention. Scientific and therapeutic applications of magnetism are being studied in technical laboratories and medical institutions worldwide. The volume of information from these findings is growing every day.

Nikken continues to lead in this technology. In addition to our own magnetic research and development, Nikken maintains relationships with organizations such as Japan's Magnetic Health Science Foundation and the internationally known Bioelectromagnetics Society.



Our magnetic products reflect the latest thinking. They incorporate imaginative approaches and patented technology that are available nowhere else.

## Why magnets?



Magnetic energy is a fundamental part of the universe. Earth itself is a giant magnet, with negative and positive (north and south) poles.

Human beings have always lived within this

magnetic field — until fairly recently. Over the past few centuries, our civilization has developed structures and machines that have disrupted the flow of this energy surrounding us.

Nikken products with magnetic technology seek to counterbalance that effect, and produce an environment that more closely corresponds to the natural magnetic field that has surrounded humans for millennia.



## The evolution of magnet design

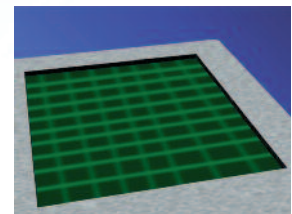
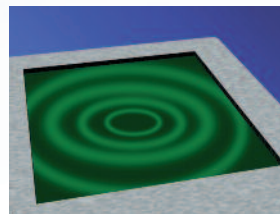
Years of development have produced enhancements in this applied science and as a result, magnetic products today are not all created equal.

To appreciate these differences, it is helpful to begin with the basic principles behind magnetism.

Every magnetized object produces a flow of energy between its two poles, positive and negative.

Invisible lines of energy known as flux lines exit a magnet from its negative pole, and reenter through the positive pole. This travel is what creates the magnetic field.

A basic bipole magnet, examined with sensors that reveal magnetic force, shows the flux lines flowing around it. But the top and bottom surface of the magnet itself is largely inert, devoid of energy.



A better design would produce magnetic flow across this dead space, instead of only around the edges.

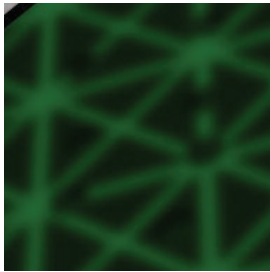
An attempt to accomplish this led to the first improvements in magnetic technology. A series of magnetic strips, circles or squares positioned adjacent to each other produced alternating positive and negative poles.

This created more flux lines and slightly increased the surface energy.

But none of these designs offered the ultimate answer.

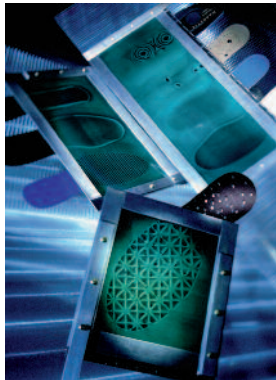
## Nikken EQL

Product development engineers working for Nikken realized that an ideal magnetic field would extend in every direction — not merely in circles or at right angles. A better arrangement would maximize the number of poles and angles for maximum energy flow.



And by producing each segment as an equilateral triangle, with equal-length sides and equal angles, the magnetic field would be perfectly uniform over the entire surface.

This concept was not easy to turn into reality. Making all the angles and sides exactly equal required precision manufacturing and quality control. Years of development and testing finally yielded success.



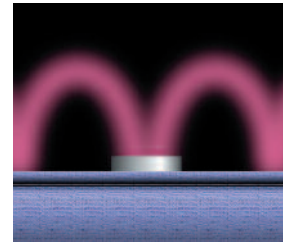
Products with patented EQL (equilateral) Magnetic Technology are available only from Nikken.

## Nikken Field Gradient Technology

Magnetic flux lines and angles are one consideration when developing magnetic products. Another is the depth of field.

In a product such as a quilted bed warmer, it's desirable to form a deep layer of magnetic energy, one that extends several inches from the surface. This would produce a sort of cocoon of magnetism surrounding the sleeper.

Nikken designers knew that by using a series of individual, single-pole magnets, they would create a surface that contained multiple poles and angles — and also provide spaces in between that allow longer, uninterrupted lines of flux. This produces a steep field gradient — the “cocoon of magnetism” effect.



Nikken Field Gradient Technology employs multiple magnets, arranged in a spaced configuration.

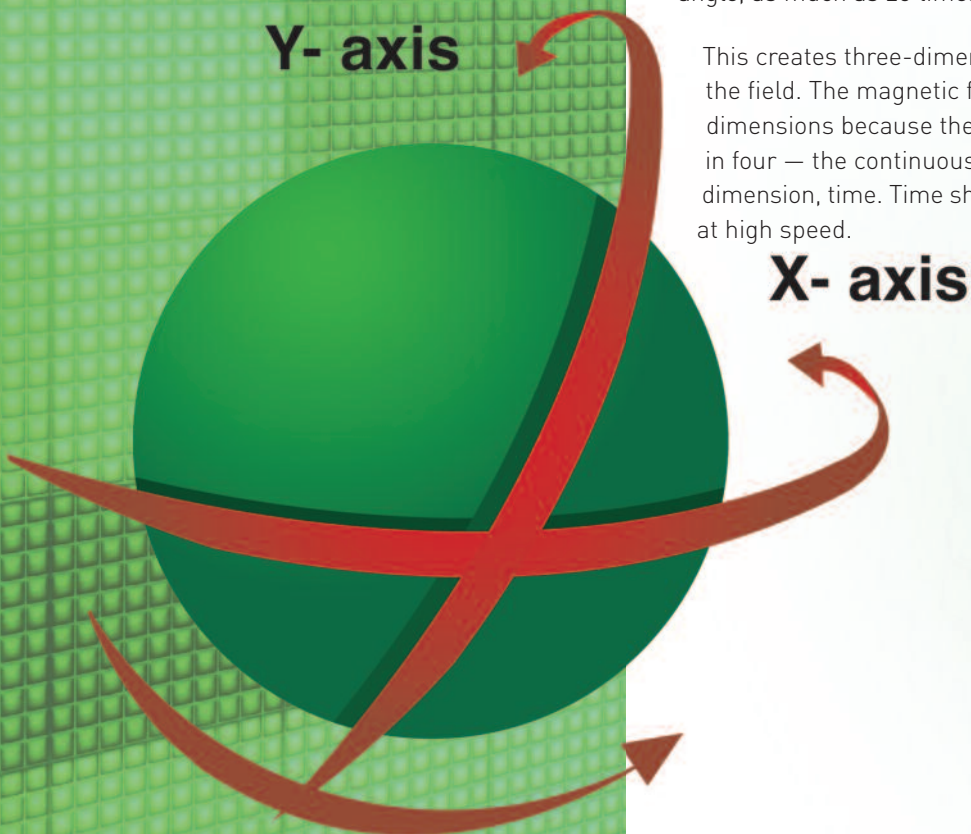
## Nikken Magnetic Biaxial Rotation

The Nikken scientific team continued to work on maximizing the number of flux lines and angles. More years of research resulted in another triumph — achieved by re-imagining the laws of the universe.

The idea was this: what if a single permanent magnet could be made to act as if it had multiple poles, extending in every direction? That is the operating principle behind Magnetic Biaxial Rotation.

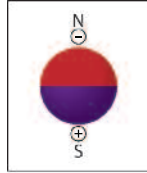
Nikken Magnetic Biaxial Rotation uses a revolving magnet that also rotates on a second axis. The magnetic field constantly changes its angle, as much as 25 times per second.

This creates three-dimensional movement of the field. The magnetic field is active in three dimensions because the technology operates in four — the continuous motion adds a fourth dimension, time. Time shifts the angle of polarity at high speed.

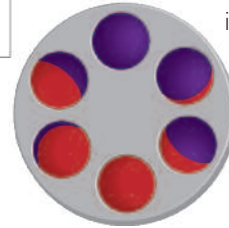


# Nikken RAM™ Technology

The next challenge was to reproduce a three-dimensional effect similar to Magnetic Biaxial Rotation in a flat, two-dimensional surface.



Arranged in a circle, these sequentially rotated spheres produce a series of overlapping magnetic fields in a discrete RAM node.



This means that no matter how any contact is applied, positioned, or shifted, the magnetic cocoon remains constant.

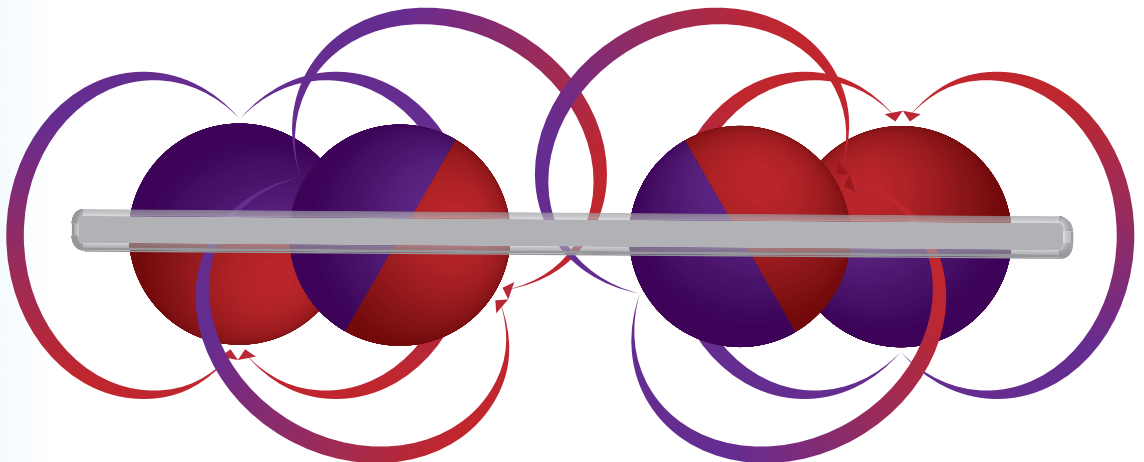
This led to an entirely new concept — a system that uses a three-dimensional structure rendered in a planar form, to extend the energy flow over a range of directions. The magnetic fields are directed up, down, across, and at angles in between.

The field enfolds and surrounds anything in its proximity, even a complex object or body composed of multiple angles.

Nikken solved this engineering problem in a practical yet revolutionary way.

No other technology exists that can create this encompassing magnetic field in this way. And no other company has applied this kind of thinking to develop what amounts to a solution that is both radical and elegant in its simplicity.

RAM (radial-axis magnetism) Technology features small neodymium magnetic spheres in groups of six. Each magnet is permanently fixed in place so that its positive-negative axis is rotated 60 degrees relative to its neighbor.



## Static magnets with active energy

Every Nikken magnetic product uses stable, static magnets — very different from devices that produce magnetism by using electric current.

Electromagnetic fields are generated by high-power lines, electric motors and electronic equipment. This energy includes unwanted electromagnetic discharge.

Nikken static magnets do not produce this undesirable effect. They represent magnetism in its natural state.

This reflects the Nikken approach to technology: combine simple and reliable principles with forward-looking application and design.

That shows advanced thinking. Which will always identify a leader.



**CAUTION:** If you have an electronic medical device such as a pacemaker, or have a magnetically sensitive surgical implant, do not use these products. Women in the first trimester of pregnancy, or anyone who has a health problem should first consult a physician before using these products. Do not place these products near magnetically sensitive items such as watches, audio/video tapes, credit cards, portable electronic equipment, etc.

# NIKKEN

Nikken has been the leader in wellness technology since we pioneered the concept in 1975. That was the beginning of a growing enterprise that now operates worldwide.

We are an organization based on a unique idea. Other companies sell a product or service — Nikken offers a better quality of life.

Our products are designed to promote wellness in all aspects of living and to be easily incorporated into any lifestyle. The Nikken business opportunity offers financial freedom as an Independent Nikken Consultant.

For more information on Nikken, the products, or the business opportunity, go to [www.nikken.com](http://www.nikken.com).

Your Independent Nikken Consultant



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