Reusable & Recyclable

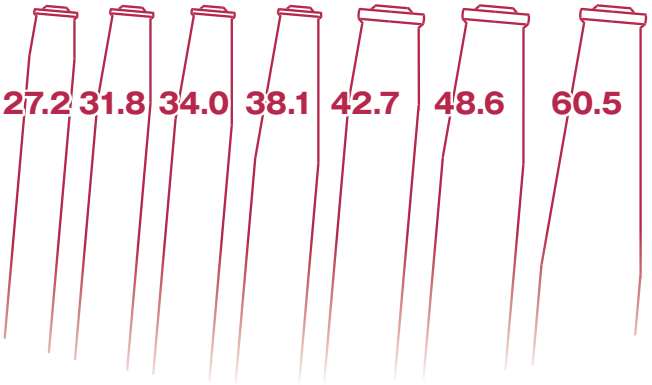
Kuimaru is not only reusable, but highly recyclable. Many of Kuimaru users are choosing Kuimaru for the reason that it can reduce environmental impact.

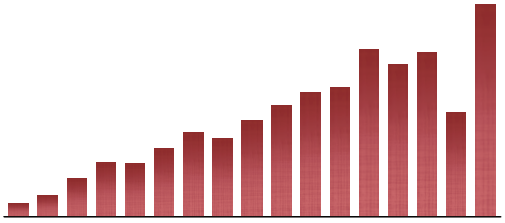
Kuimaru is durable enough for repeated usage, which enables to reduce tremendous amount of wastes. The reusability of an item decides how much of carbon dioxide it releases in its life cycle, and Kuimaru is an excellent choice in that point of view. Also, from the fact that the completely sealed structure prevents any impurities coming into the body, Kuimaru is a nicely recyclable product.

Specification (Ø48.6)

Diameter	48.6mm
Length	600mm - 4000mm
Thickness	2.4mm
Weight	2.7 kg/m
Body Material	Galvanized steel (STK-500)
Head Material	Steel (SWRCH)
Tip Material	Carbon Steel (S45C)
Finishing	Cold Galvanizing

* 27.2mm/31.8mm/34.0mm/38.1mm/42.7mm/60.5mm diameter are also available.





The sales of Kuimaru has been improved by about 10% every year in Japanese market, and it still keep growing. We are excited about putting our products on the international market.

Need sample?

We are offering free sample for those interested in our products. Send an inquiry to our sales team by e-mail.

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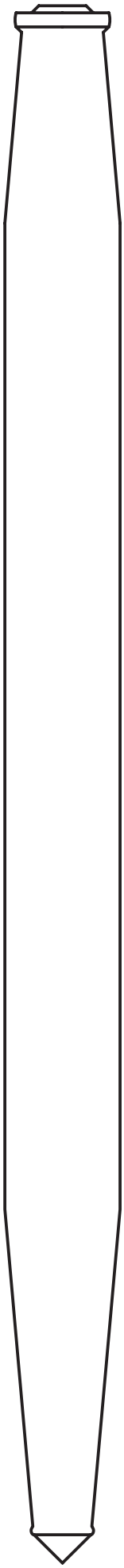
ABOUT US Kimioka Ironworks co., ltd. was founded in a beautiful historical city, Nara in Japan, in 1973. We design and manufacture the best stake in the world, Kuimaru. Our goal is to replace all inefficient stakes into Kuimaru. We have sold over 3.6 million of Kuimaru since 1994. Kuimaru has been used in many famous sites such as Shinkansen (bullet train) railway, Meiji Shrine, Mt. Fuji. We are serious about our quality control, and keep certified with the ISO 14001:2004 and ISO 9001:2008 by JAB(Japan Accreditation Board) and UKAS (United Kingdom Accreditation Service).

Reusable Steel Stake

Kuimaru®

Kuimaru is a highly reusable and recyclable galvanized steel stake. Kuimaru is capable of wide variety of usage and geology. One of its edge forms sharp so that it can get into the ground easily, it even penetrates asphalt. Both ends are circumferentially welded and completely sealed so that the entire body makes remarkably durable. Since Kuimaru is a processed steel tube, the body is hollow and extremely light.



What is Kuimaru?

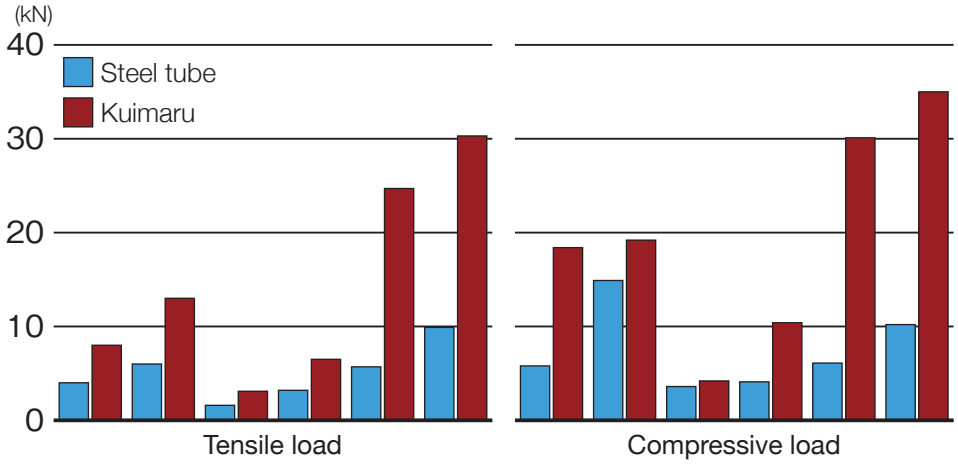
Kuimaru is the world best stake processed from steel tube. Its cone-shaped edge gets into the ground easily, and prevent any soils come into the body. A flat plate is welded on the head to make it durable enough to be reusable. The perfect structure and circumferential welding make Kuimaru highly reusable and recyclable.

Super cost-efficient

The biggest reason that Kuimaru is widely chosen by many professional users is its cost-efficiency. Kuimaru can be installed much easier than steel tube or other stakes, and can be reused repeatedly. Kuimaru helps to reduce the construction cost and incident risks and negative environmental impact.

Kuimaru can penetrate even asphalt.

Kuimaru is a processed steel tube, but it holds stuffs much more than steel tube does. An experiment result shows that Kuimaru held more than twice heavier loading than steel tube both in the tensile load test and the compressive load test.



Vertical load test

*The test was conducted with Professor Ito from Kansai University.

Kuimaru works great for railway track use, and has been used at Shinkansen and many other railway tracks in Japan.

TRACK BALLAST

Track ballast made of crushed stone is widely used all over the world, to cover up railway tracks. Crushed stone has a good quality to facilitate drainage of water, to distribute the load from the railroad ties, and also to keep down vegetation. Kuimaru is the best solution to stand a pole on the track ballast. However, there is a problem that stake installing is extremely difficult.

What are the problems of other stakes?

Wooden stake can be processed sharp enough to go into the track ballast, although wood has a problem with its durability, the head could be broken when installing, and gets brittle as time goes.

Steel rod is more durable than wood, but simply too heavy if you want enough strength. Since railway track is supposed to be long, you need a lot of stakes. The weight of stakes is a fundamental quality and steel stake cannot reach the requirement. Many of steel rods are ungalvanized, and ungalvanized steel rusts quickly and cannot keep the durability for that long.

Steel tube is more durable than wood and lighter than steel rod; however it cannot go into the track ballast because its open shaped edge gets stuck with stones.

	Wooden Stake	Steel Rod	Steel Tube	**Kuimaru**
Shape	GOOD	MEDIOCRE	POOR	EXCELLENT
Weight	GOOD	POOR	GOOD	EXCELLENT
Durability	POOR	MEDIOCRE	MEDIOCRE	EXCELLENT
Reusability	POOR	POOR	POOR	EXCELLENT
Recyclability	MEDIOCRE	GOOD	POOR	EXCELLENT

Kuimaru on track ballast

Kuimaru is the best way to stand a pole on the track ballast. Its shape enables to firmly stand itself onto the track ballast. Between Tokyo and Osaka, about 60,000 of Kuimaru are installed to gauge the height of Shinkansen (the bullet train) rail everyday.


East Japan Railway


Shinkansen, Central Japan Railway