

# FUJI NINJA WHEEL® has won the Good Focus Award [Design of Technique & Tradition] (Small and Medium Enterprise Agency Commissioner Award) for FY2020!

## Omni-directional drive wheel



FUJI NINJA WHEEL® Registered trademark No. 6264188  
Patent No.6839847

### What is FUJI NINJA WHEEL®?

FUJI NINJA WHEEL® is an unparalleled omni-directional drive wheel for transport vehicles. It can drive in all directions.

### Designing the future of transport

Labor shortages and surging labor costs have emerged as problems globally. Automated guided vehicles (AGVs) will surely change the transport culture. FUJI NINJA WHEEL® eliminates swaying due to flutter, which is characteristic of general casters. FUJI NINJA WHEEL® is suitable for programming-based trace driving by remote operation and meets various automation needs.



### Parallel movement in all directions (360°)

FUJI NINJA WHEEL® enables handling in a small space, achieves movement in the shortest distance on site, and eliminates useless motion. Parallel movement of a cart in all directions (360°) increases the efficiency of the work space and helps reduce the equipment and area of plants and warehouses.

Independent four-wheel drive and omni-directional drive wheels achieve smooth movement in all directions!!



### Load capacity: 300 kg/wheel

A load of 1 t can be transported easily with only four wheels.

### Suitable for wheels of AGVs, self-propelled robots, and moving carts!

FUJI NINJA WHEEL® is a powerful solution for automating transport. It accelerates automation of hazardous work at plants and warehouses and helps solve the problems arising from the aging population and shortage of labor.

Dimensions: outside diameter: 150 mm, inside diameter (shaft diameter): 30 mm, width: 88 mm

Load capacity: 2,940 N (300 kgf)  
Material: (frame) aluminum + steel  
(half-barrel roller) urethane + steel



### [Why is the product named FUJI NINJA WHEEL®?]

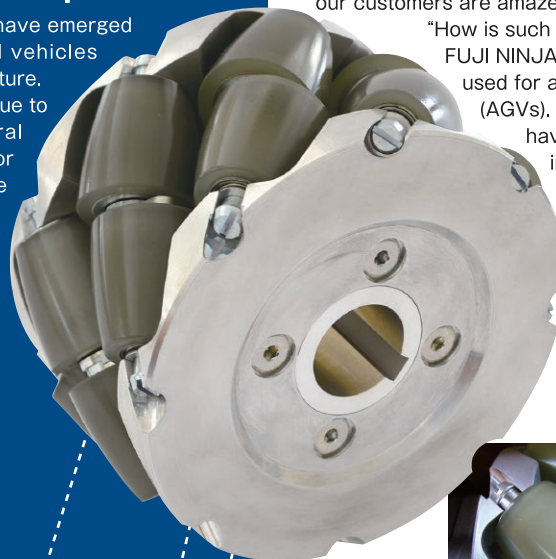
Because the omni-directional wheel conjures the image of a ninja, who come and go everywhere, and our plant is located in Iga, Mie, where ninja originated.

### [Adapting to the new normal]

The spread of COVID-19 infection provides an opportunity to change the method of moving and transporting goods in all fields while adapting to the new normal and lifestyle. FUJI NINJA WHEEL® makes it possible to transport goods accurately and carefully in a space of a complicated shape. Many of our customers are amazed, saying such things as,

“How is such movement made possible?!”

FUJI NINJA WHEEL® has also been used for automated guided vehicles (AGVs). Its concept and movement have been increasingly impressing users.



The product is geometrically aesthetic and leaves a lasting impression. It also offers both functionality and future potential.

### 1 Reduction in vibration

The shaft of the half-barrel rollers is staggered to make the outer circumference of the wheel almost round.

### 2 Reduction in size

The frame, derived from the combination of aluminum and steel, achieved reduction in width.

### 3 High load capacity

The barrel-shaped rollers are split to increase the bearing size and shorten the shaft.

### [Future vision]

FUJI NINJA WHEEL® is still a new and unusual product, but we are confident that this product of civilization will be accepted as the norm in the near future and used for mobility, including automobiles and other vehicles, to make people's lives more comfortable and convenient!



Unparalleled performance with a load capacity of 300 kg with φ150 mm.