

Ke-V9-P3302 Hyperspace Fold Drive

The Ke-V9-P3302 Hyperspace Fold Drive was developed for use on the [Ke-V9 "Nodachi" Assault Fighter](#) and became available in [YE 33](#).

About

The Ke-V9-P3302 uses exotic particles to manipulate the geometry of local space/time, allowing the equipped vessel to essentially pinch off a bubble of normal space and direct it through the medium of [Hyperspace](#). Unlike most Hyperspace drives utilized by the [Star Army of Yamatai](#), the design of the Ke-V9-P3302 also includes upgrades that provide the capability for repeated micro-jumps within the gravitational influence of a star and adjacent planets without overload or incurring structural fatigue due to feedback. This effectively negates the need for the use of a [Continuum Distortion Drive](#) for long-distance, intra-system travel across multiple astronomical units of distance.

Even with the new upgrades, a vessel attempting a hyperspace fold event must be beyond the minimum safe distance of a planets [Hill Sphere](#) in order to perform a jump successfully.

Specifications

General Information

- Class: Ke-V9-P3302
- Type: Faster-Than-Light Drive
- Designers: [Ketsurui Fleet Yards](#). [Murasaki Emiko](#)
- Manufacturer: [Ketsurui Fleet Yards](#)
- Production: Mass Production

Propulsion Performance and Range

Micro-Jump / Intra-System Jump:

- Charging Time: 5 seconds
- Cooldown: 30 seconds
- Maximum Range: 527 Astronomical Units (0.008333 Light Years)
- Maximum Jump Duration: 1 second

Macro-Jump / Inter-System Jump:

- Charging Time: 5 seconds initial charge. +1 second per 1 LY up to maximum range.
- Cooldown: 5 minutes

- Maximum Speed: 262,980 c (0.5 ly/m)
- Maximum Range: 20 Light Years
- Maximum Jump Duration: 40 minutes

OOC Note

The Hill Sphere for an Earth-sized planet around a Sol comparable star is roughly 1.5 million kilometers. A gas giant of Jupiter's size would have a Hill Sphere slightly over 53 million kilometers. Where enough information is available, it is possible to determine the Hill Sphere for other planetary bodies using the calculator located [here](#). In the second box, enter in the value for the orbital radius of the planet whose hill sphere you want to calculate. In the upper right box, enter the planet's mass. In the lower right box, enter the mass of the planet's star.

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Last update: **2023/12/21 01:02**

