

# Universal Hemosynthetic Fabrication System



## Type 43

The Universal Fabrication System is a starship subsystem, exclusive to the [Star Army of Yamatai](#) that utilizes the new [Nodal Liquid Conduit System](#). It was designed by [Shinichiro Tomoko](#) at [Ketsurui Zaibatsu](#) for activation in [YE 43](#).

It is generally installed at the same time as the [Nodal Liquid Conduit System](#).

### About the Universal Fabrication System

In [YE 42](#) with the release of the new [Nodal Liquid Conduit System](#), it was made possible to release [hemosynth](#) femtomachinery by aerosol without harmful effect on the ship's crew. It meant that contained units like the [Standard Star Army Fabrication Area](#) no longer had to be sealed. It made the potential for the entire ship to be utilized in a new capacity. Testing and the initial prototype was tested in the [First Expeditionary Fleet](#) due to the fact all the ships produced in the fleet's re-establishment came standard with the new [Nodal Liquid Conduit System](#).

[Shinichiro Tomoko](#) in her design for the [Nodal Liquid Conduit System](#) foreseen the potential for vast changes in terms of fabrication. The femtomechancial nature of [hemosynth](#) could be applied as a highly advanced  [Utility Fog](#) to deploy  [Programmable Matter](#). Combined with the [Star Army of Yamatai](#)'s already vast knowledge about energy to matter conversion it brought the ability to:

- Fabricate basic tools and equipment in active ship compartments.
- Fabricate basic items quickly and more complex ones over time.
- Preform the same functions as [Star Army Fabrication Chamber, Type 39](#) and [Standard Star Army Fabrication Area](#).
- Creation of products for damage control and repair. Due to the universal nature of the system goods can be manufactured closer to the location of need.

It also deployed the possibility on some ships for:

- Active room decoration controlled by [PANTHEON](#), where the authorized crew members could design the decor of their cabins.
- Interior adjustments for specialized environments when in the participation of diplomacy with other species.

Statistics	
Year of Creation	<a href="#">YE 43</a>
Designer	<a href="#">Shinichiro Tomoko, Ketsurui Zaibatsu</a>
Nomenclature	Type 43
Alt. Nomenclature	N/A
Manufacturer	<a href="#">Ketsurui Zaibatsu</a>

Statistics	
Fielded by	Star Army of Yamatai Only
Availability	Mass Production
Price	90,000 KS

Due to the self-defense mechanism in [hemosynth](#) femtomachinery it is not possible for this to be deployed or used off [Star Army of Yamatai](#) vessels and facilities meaning the technology cannot be stolen or reversed engineered without the high level [PANTHEON](#) access required for [Hemosynthetics](#). Also due to the biosynthetic differentiation controls built into the femtomachinery it is not possible to produce [Nekovalkyrja](#) with this system.

## Deployment

Deployment of the Universal Fabrication System is controlled through the ship's [PANTHEON](#) system. (All levels). The synthesis of basic tools and items can take minutes, but larger objects and more complex gear can take more time. For example to fabricate a basic item such as a [Star Army CASTER Tape Dispenser](#) it will only take a couple of minutes. To fabricate something larger like a [Star Army Sofa, Type 39](#) it could take a couple of hours.

The system can perform all the functions that a [Standard Star Army Fabrication Area](#) could, just out in the open without risk to the crew. This open environment can assist [Star Army Technician](#) in making modifications and impromptu inventions to solve solutions quickly in the field.


For the system to work properly there must be an adequate power supply. Unexpected results can occur during the low power operation of this system.

## Additional Equipment

Internal compartments are upgraded with the refit of this system and the [Nodal Liquid Conduit System](#) on the ship to include:

- [Interior Sensor Systems](#) for more accurate [PANTHEON](#) control.
- Interior versions of the [Scalable Graviton Beam Projector Array](#) to assist with the movement and handling of fabricated materials.

## Other Uses for The Utility Fog

Since the  [Utility Fog](#) is on a femtomechanical scale, like all [Hemosynthetics](#) it can be programmed to do things like:

- Filter foreign particles from the air.

- Distribute ship-wide [Anti-Radiation Treatment](#) to [Nekovalkyrja](#) and [Minkan](#).

## High Concentration Chamber Applications

Repair chambers for Power Armors, Mecha, and segmented repair of larger and higher-level structures have been created to allow for better control and greater density release of femtomachinery for the use of repairs. The repair and accelerated annealing of [Yamataium](#) products require very high densities of femtomachinery with more diversification and control routines that need to be controlled and actively adjusted by [Star Army Technician](#).

Similar high-density chambers are deployed for the manufacture of [Star Army Weapons](#).

## Notes to Game Masters

Some notes for [Game Master](#) are listed below.

- Fabrication times are determined by the [Game Master](#). As stated, the more complicated and large the fabrication job the more time it takes.
- Since the [Star Army Starship Captain](#) and [Star Army First Officer](#) have the highest level of [PANTHEON](#) access they can control the levels and protocols for interior customization. For example a [Star Army Soldier](#) cannot give the [bridge](#) an interior decor overhaul.

## Notes to Technicians and Players

[Star Army Technician](#) please remember the system has limitations.

For example during emergency situations already fabricated tools are going to be faster and at hand. Power has to be in abundance, energy to matter conversions take a lot of power.

## OOO Notes

[Andrew](#) created this article on 2021/01/18 19:56. This was approved by [Whisper](#) in this [thread](#).

Star Army Logistics	
Supply Classification	Class E - PARTS AND COMPONENTS
First Used	<a href="#">YE 43</a>
Products & Items Database	
Product Categories	subsystems
Product Name	Universal Hemosynthetic Fabrication System Type 43
Nomenclature	Type 43

Products & Items Database	
Manufacturer	<a href="#">Ketsurui Zaibatsu</a>
Year Released	<a href="#">YE 43</a>
Price (KS)	90,000.00 KS

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