

Sakura Machinery Small Forge and Die Kit

Developed for amateur and professional machinists in mind, Sakura Machinery's Small Forge and Die Kit was released to the public in [YE 45](#).

Small Forge and Die Kit	
»Optional Image«	
Year Created:	YE 45
Faction:	independents
Designer / Manufacturer:	Sakura Machinery
Nomenclature:	SM-G1-1A
Production:	Mass Production
Price:	2,000 KS

History

In the early days of Sakura Machinery, the primary focus was on large-scale machinery used in industry. However, recognizing the growing demand from individual machinists and smaller workshops, the company embarked on a project in [YE 43](#) to design a more compact and efficient metalworking tool set. After two years of rigorous research and development, field trials, and collaborations with leading machinists, the Small Forge and Die Kit was launched in [YE 45](#).

Description

Stored within a single and easily portable case, Sakura Machinery's Small Forge and Die Kit is made of 4 major components. With the exception of the power source, each are designed to be maintainable by sufficiently skilled individuals.

Major Components:

- **Compact Fusion Reactor:**
 - Powering the entire kit, this reactor offers a stable and clean energy source. Designed for efficiency and safety, it ensures that the Small Forge and Die Kit can operate even in the most confined spaces without any adverse environmental effects.
 - Dimensions: 30cm x 20cm x 20cm
 - Weight: 8kg
- **Induction Forge:**
 - Utilizing the power from the Compact Fusion Reactor, the Induction Forge can heat metals rapidly and uniformly. With precise temperature control via its digital interface, it caters to a variety of metals with different melting points, ensuring optimum heating conditions for every task.
 - Dimensions: 40cm x 25cm x 25cm

- Weight: 12kg

- **Nanite Die Reconfiguration Chamber:**

- One of the groundbreaking innovations of the kit. Users can program the desired shape into the chamber, and nanites will reconfigure to form the necessary die. This flexibility means machinists no longer need to store a myriad of individual dies, making the process more streamlined and space-efficient.
- Dimensions: 25cm x 25cm x 15cm
- Weight: 6kg

- **Die Set:**

- For those who prefer the traditional approach or need specific shapes that the Nanite Chamber may not cater to, the kit also includes a conventional die set. Made from high-strength alloy, the dies are durable and designed to withstand significant pressure and heat, ensuring a clean cut or shape every time.
- Dimensions (for the entire set in a boxed configuration): 30cm x 20cm x 10cm
- Weight: 10kg (varies depending on the number and size of dies)

- **Storage Case:**

- Oversized to ensure all components fit with extra space for padding, tools, and potential future components. Made of [Durandium Alloy](#) and wheeled for ease of travel.
- Dimensions: 60cm x 40cm x 40cm
- Weight (empty): 5kg

- Total Weight (with all major components): 41kg

Usage

Like all technical equipment, a set of instructions must be followed to ensure the safe operation of it. Below are a brief summary of the instructions laid out in the kit's -10 Technical Manual.

Getting Started:

- * Ensure your workspace is adequately ventilated and free from flammable materials.
- * Place the kit on a flat, heat-resistant surface away from foot traffic and other workspaces.

Operating the Induction Forge:

1. Connect the forge to the Compact Fusion Reactor.
2. Use the digital interface to select the desired temperature based on the metal type.
3. Once the forge reaches the appropriate temperature, safely place your metal piece inside using heat-resistant gloves.
4. Monitor the heating process, and once completed, use tongs or gloves to

remove the heated metal.

Using the Nanite Die Reconfiguration Chamber:

1. Access the chamber's interface and select or design the shape you need.
2. Wait for the nanites to reconfigure. A notification or signal will indicate when they are ready.
3. Place your heated metal piece into the chamber and activate the pressing or molding function.
4. After completion, retrieve your shaped metal, ensuring you use protective gloves.

Employing the Traditional Die Set:

1. Choose the appropriate die from the set based on your requirements.
2. Secure the die in place, ensuring it's correctly aligned.
3. Insert the heated metal between the dies.
4. Apply even pressure until the metal takes the desired shape.
5. Once achieved, release the pressure and remove the metal piece.

OOO Notes

[Demibear](#) created this article on 2023/09/11 01:49.

This article was approved by [Andrew](#) on 2023/09/11¹⁾.

Products & Items Database	
Product Categories	kits, tools
Product Name	Small Forge and Die Kit
Nomenclature	SM-G1-1A
Manufacturer	Sakura Machinery
Year Released	YE 45
Price (KS)	2,000.00 KS
Mass (kg)	41 kg

¹⁾

<https://stararmy.com/roleplay-forum/threads/submission-santa-sakura-machinery-small-forge-and-die-kit.70850/#post-440082>

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