

SEM Hitachi S-4700 user manual

English Version by Eric, VDEC, Mita Lab, 2015/01/27

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<http://takeda-cr.t.u-tokyo.ac.jp> (accessible only from inside U Tokyo)

1. Warnings and recommendations

Be sure to read the following remarks:

- 1.1. This equipment belongs to VAN Partners. Let's handle it with much care.
- 1.2. Before exchanging the sample, always check that the stage is in its initial position:
 $X = Y = 12.5\text{mm}$, $Z = 12\text{mm}$, Tilt = 0° , $\theta = 0^\circ$
- 1.3. This is a simplified manual. It is recommended to read and study the original manual.

2. Terms

- 2.1. RP = Rotary Pump,
- 2.2. IP = Ion Pump,
- 2.3. DP = oil Diffusion Pump,
- 2.4. S.C. = Specimen Chamber = main chamber,
- 2.5. S.E.C. = Specimen Exchange Chamber = Load lock chamber.

3. Regular State

Always ON. RP and DP maintain vacuum in the main chamber and IP maintain vacuum in the column.

4. Points to check before starting

If there is an abnormality, contact the person in charge.

On the front panel (below the S.C.), check from left to right:

- 4.1. EVAC POWER
 - 4.1.1. Switch is ON,
 - 4.1.2. DP/TMP, WATER and AIR PRES switched ON (green lamps ON)
- 4.2. OBJ. APT. → position HEAT
- 4.3. ION PUMP VACUUM
 - 4.3.1. Lamps IP1, IP2, and IP3 lighted ON,
 - 4.3.2. Check the IPs vacuum values by rotating the knob. The following should be satisfied:
 $IP1 < 2e-7\text{Pa}$, $IP2 < 2e-6\text{Pa}$, $IP3 < 7e-5\text{Pa}$. Fill out the log with the values.
- 4.4. CHAMBER VACUUM → S.C and S.E.C vacuum are HIGH (green lamps)
- 4.5. VALVE → GUN switch in position CLOSE. If not, set it to CLOSE
- 4.6. CHAMBER → switch on S.E.C. (should be protected with a tape)
- 4.7. If you want to use the cold trap, check that there is more than 1.3L of liquid nitrogen in the Dewar Vessel. If this is not the case, fetch some nitrogen in CR2.

5. Preparation

- 5.1. Turn PC on
 - 5.1.1. DISPLAY switch ON (under the PC desk, behind the door),
 - 5.1.2. Windows 95 will startup.
 - 5.1.3. Press CTRL+ALT+DEL.
 - 5.1.4. Launch PC-SEM.exe. There is no password, just click OK,
 - 5.1.5. When the soft start, a dialog showing the X and Y values of the stage appears. Check the real values of X and Y, enter those values in the box and then click OK,
- 5.2. Filling liquid nitrogen
If you want to use the cold trap, fill it with 1.3L of liquid nitrogen.
- 5.3. Set the sample
 - 5.3.1. Select a suitable sample holder,

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Table of Contents Hitachi Sem Manual

1. Understanding the eBook Hitachi Sem Manual
 - The Rise of Digital Reading Hitachi Sem Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Hitachi Sem Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hitachi Sem Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hitachi Sem Manual
 - Personalized Recommendations
 - Hitachi Sem Manual User Reviews and Ratings
 - Hitachi Sem Manual and Bestseller Lists

5. Accessing Hitachi Sem Manual Free and Paid eBooks
 - Hitachi Sem Manual Public Domain eBooks
 - Hitachi Sem Manual eBook Subscription Services
 - Hitachi Sem Manual Budget-Friendly Options
6. Navigating Hitachi Sem Manual eBook Formats
 - ePub, PDF, MOBI, and More
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 - Hitachi Sem Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hitachi Sem Manual
 - Highlighting and Note-Taking Hitachi Sem Manual
 - Interactive Elements Hitachi Sem Manual
8. Staying Engaged with Hitachi Sem Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hitachi Sem Manual
9. Balancing eBooks and Physical Books Hitachi Sem Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hitachi Sem Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hitachi Sem Manual
 - Setting Reading Goals Hitachi Sem Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hitachi Sem Manual
 - Fact-Checking eBook Content of Hitachi Sem Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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