

OPERATING MANUAL

ERMA SMALL SLEDGE MICROTOME

1. INTRODUCTION

In today's histological study and research, various kind of specimens are demanded to examine small region of soft tissues and hard materials. The Erma Small Sledge Microtome was designed to meet the above request. This microtome is also useful as a freezing microtome by attaching an Erma Electric Freezer.

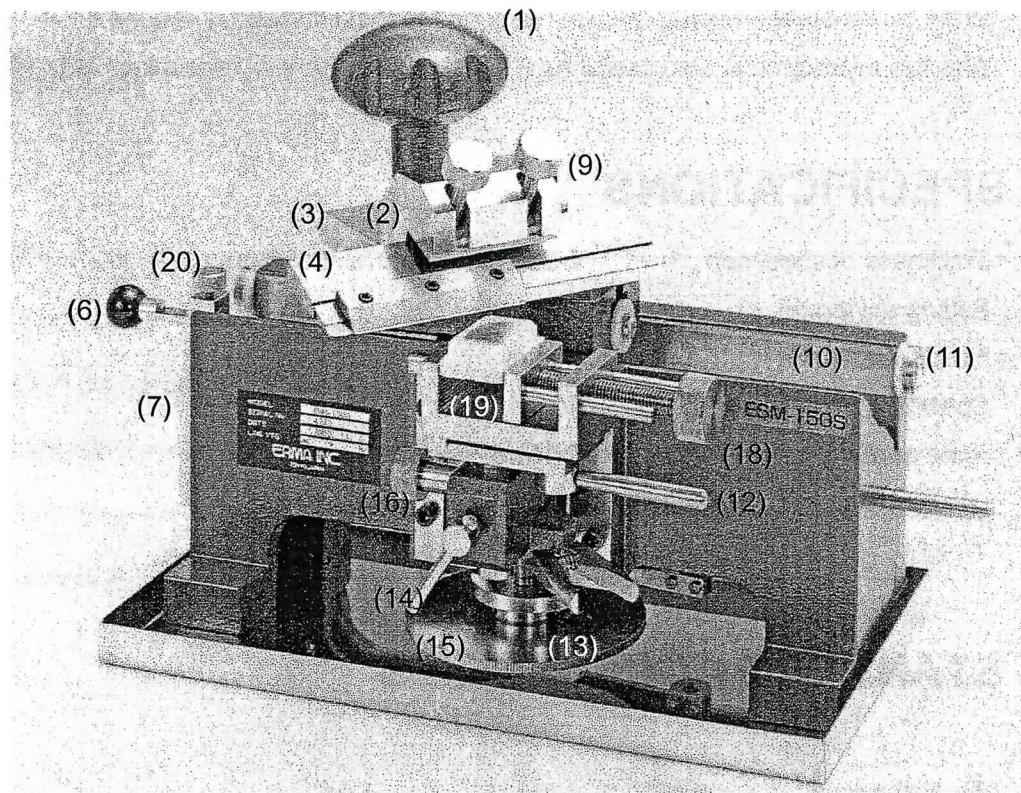
2. SPECIFICATIONS

Thickness of specimen	2-30 um in increment of 2 um
Sliding rail length	30 cm
Feeding distance	30mm
Specimen clamping capacity	40 x 45 mm
Knife angle	0-15 with index
Dimensions	340 x 420 x 200mm
Weight	19 kg

3. STANDARD ACCESSORIES

- Ball screw 1 pc.
- Sliding base with Knife holder 1 unit
- Microtome oil 100cc 1 bottle
- Plastic syringe 1 pc.
- Vinyl cover 1 pc.
- Disposable knife PATHO CUTTER-11 35 50 blades
- Disposable knife holder 1 pc.
- Screw for Disposable knife holder 3 pcs.
- Hexagon driver 1 pc.
- Wooden case 1 box

The Small Sledge Microtome consists of the following parts.



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|-----------------------------|---|
| (1) Ball screw | :A screw to fix Knife holder with a ball handle |
| (2) Knife holder | :A holder to fix Microtome knife with angle index |
| (3) Sliding base | :A base to slide on the sliding rails |
| (4) Microtome knife | :A knife specially sharpened for microtome use |
| (5) Thickness fixing screw | :A Screw to fix Feeding index |
| (6) Feeding index | :An index of thickness |
| (7) Feeding device | :A bar to feed specimen clamp |
| (8) Knife holding lever | :A lever to fix Knife angle |
| (9) Knife holding screws | :Screws to fix Microtome knife |
| (10) Sliding rails | :Parallel rails where the Sliding base slides |
| (11) Sliding stopper | :A part to stop sliding |
| (12) Specimen balance lever | :A lever to fix the balance of specimen clamp |
| (13) Pinch levers | :Levers to free or fit the rack & pinion |
| (14) Lock lever | :A lever to lock Pinch levers |
| (15) Gear wheel | :A teethed gear to feed Specimen clamping device |
| (16) Rack & pinion screw | :A screw to control Rack & pinion movement |
| (17) Handle | :A handle to slide Sliding base |
| (18) Specimen clamp screw | :A screw to hold a specimen |
| (19) Specimen clamp | :A holder to clamp Specimen |
| (20) Index plate | :An index to adjust thickness |

OPERATING INSTRUCTIONS

This microtome is a precision instrument and must be handled with care. Even slight damage to the slide-way will reduce the precision.

- A) Unpack carefully and wipe off the anti-corrosive with gauze or a soft cloth and benzene or a similar solvent. Do not use acetone or trichlorethylene.

MAKE SURE THAT SLIDING SURFACES ARE FREE OF DIRT AND WELL LUBRICATED BEFORE MOVING FEEDING DEVICE AND KNIFE BLOCK.

- B) Put the microtome on the drip tray.
Put feeding device into the track. Position knife holder on the feeding device and add the knife. For normal use, set at 12°. For harder objects, increase the angle of tilt.
Position all at the left end of the sliding rails. See diagram.

- C) Insert object block into object clamp and tighten with object clamping screw.
Check the sliding rails frequently and remove any embedded material.

MAINTENANCE

Always clean the slide-way when cutting is completed or at the end of the day. Wipe with a soft cloth and oil all the mechanisms.

REPAIRS

In the event that a microtome is to be returned for repair, please pack it carefully and send it prepaid to:

SERVICE DEPT.
PHYSITEMP INSTRUMENTS INC.
154 HURON AVE.
CLIFTON, NJ 07013 USA
Phone: 973-779-5577
e-mail: Physitemp@aol.com

Please include with the instrument:

1. A note describing any problems encountered.
2. The name and telephone number of a person we can contact.
3. The complete return address for shipping.

WARRANTY

Physitemp Instruments Inc. warrants this instrument to be free from defects in material and workmanship for 12 months from date of shipment. Repair or replacement will be made at no charge at the discretion of Physitemp, if the defect is not the result of misuse or abuse. Physitemp accepts no consequential liability for delay in delivery, alleged faulty performance of the product, or any other cause.

For your protection, please pack the item carefully and insure against possible damage or loss. Physitemp will not be responsible for damage resulting from careless packaging. Please return freight prepaid.

