

# 8000 Retracting Sledge Microtome

At the cutting edge of  
sectioning technology

**Bright**  
Instruments



## Introduction

The Bright 8000 retracting base sledge microtome offers the ultimate in versatility combined with strength, accuracy, reliability and, not least, safety.

Designed to fully meet the needs of the routine histology laboratory, the 8000 will also meet the more demanding requirements of the specialised unit where its versatility and wide range of accessories will guarantee that it becomes the first choice of the professional base sledge user.

It is well suited to cutting a wide range of materials including bone, plastics, resins and wood as well as large area soft tissues. It is the first of its kind to incorporate retraction on the return stroke. This feature helps to avoid possible damage to specimens. The 8000 has a wide range of stages available in a host of sizes. The Bright Solid State Freezer and the Bright Cryostage can be used in conjunction with the 8000, (see ordering information), on occasions where it is necessary to freeze specimens while in a laboratory environment.

## Features and Benefits

- easy to use base sledge retracting microtome complete with standard vice
- sturdy cast iron construction
- 60µm retraction on the return stroke prevents possible specimen damage
- angled and slewable knife holder for greater versatility
- accepts a range of knives and disposable blades
- a wide range of quick release holders available
- safety features include knife guards and low positioned operating handle
- orientation available - using a  $\pm 8^\circ$  tilt adapter
- range of stages available
- standard accessories include: - knife cleaning brush, set of four Allen keys, microtome oil, operating manual



# The Microtome

Design of the knife support pillars is such that they may be reversed to provide greater clearance for large blocks. In their normal position blocks up to 110mm wide may be accommodated but when reversed the block width may be increased to 170mm. Substantial knife clamps provide considerable knife rigidity with the dual facility of both angle tilt and slew, and spacers are available to raise the height of the knife. If required, a single side double clamp knife holder is available as an optional extra.

Full width knife guards are supplied providing increased protection to the operator over the entire knife length - not just at its ends.

Cast in mechanite and precision machined, the base is finished with a durable solvent and detergent resistant coating. The sledge is inserted with PTFE to provide an extremely low friction contact.

Specimen advance and retraction is achieved by the simple action of pushing and pulling the sledge forward and back using the operating handle. Such is the unique design of the handle the mere action of pushing and pulling automatically advances and retracts the specimen. The degree of advance can be set in the range 0 - 40µm in 1µm increments.

# Specifications

Construction	<ul style="list-style-type: none"> <li>• Cast mechanite, precision machined and finished with durable solvent and detergent proof coating</li> </ul>
Specimen advance	<ul style="list-style-type: none"> <li>• 0 - 40µm in 1µm increments, retraction operates on return stroke. Manual gross advance/rewind facility</li> </ul>
Cutting stroke	<ul style="list-style-type: none"> <li>• 270mm</li> </ul>
Specimen orientation	<ul style="list-style-type: none"> <li>• ±8° horizontal and vertical (optional)</li> </ul>
Specimen holders	<ul style="list-style-type: none"> <li>• Specimen vice or quick release holder for cassettes, supercassettes and hardboard squares. Maximum specimen size 250 x 110mm</li> </ul>
Knife holders	<ul style="list-style-type: none"> <li>• Support arms reversible with slew facility. Angle tilt with indicator scale and full width knife guards. Single side double clamp facility is available as an optional feature</li> </ul>
Safety features	<ul style="list-style-type: none"> <li>• Handle designed to ensure maximum distance away from knife edge. Knife guards cover full width of knife</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• H325 x D610 x W260mm</li> <li>• Net weight: 40kg</li> <li>• Gross weight: 50kg</li> <li>• Shipping volume: 0.202m<sup>3</sup></li> <li>• Packing dimensions: H400 x D550 x W920mm</li> </ul>
Weights vary according to specification of instrument	

# Ordering Information

## Order Code

8000-01

## Description

8000 Retracting Base Sledge Microtome release holder (for wax cassettes)

## Optional Features

50533

Quick release holder (for wax cassettes)

53613

Supercassette quick release holder

51637

Quick release holder (for hardboard squares)

51407

Single side double clamp knife holder

51473

Tilt adapter

53023-01

Solid state freezer, 30 x 30mm, for 220/240V AC, 50/60Hz

53023-02

Solid state freezer, 30 x 30mm, for 110/115V AC, 50/60Hz

53024-01

Solid state freezer, 40 x 40mm, for 220/240V AC, 50/60Hz

53024-02

Solid state freezer, 40 x 40mm, for 110/115V AC, 50/60Hz

8000-208-01

Cryostage, 130 x 90mm, for 220/240V AC, 50/60Hz

8000-208-02

Cryostage, 130 x 90mm, for 110/115V AC, 50/60Hz

Further information is available on request. Do you have a specific need? If so, consult us. Our equipment and production facilities are flexible and are not limited to those described in this brochure.

The Bright Instrument Company has a policy of constantly seeking improvements to its products and therefore reserves the right to change specifications without notice and to incorporate such changes as convenient during manufacture.

30265 (05/99)

