



Vibroslice™

An economical, easy-to-use precision tissue slicer for preparing live tissue sections for physiological, pharmacological and biochemical research

www.wpiinc.com

Advantages of the Vibroslice

- Over 20 years of service to the research community.
- Five micron step size of tissue sections.
- Used for fixed histology and fresh *in vitro* sections (e.g., brain, spinal cord and liver).
- Variable angle blade holder.
- Vibrating blade with lateral displacement of 1.0 mm and frequency set by the user slices tissues without traumatic damage.
- Peltier temperature controlled tissue baths available for Vibroslice – no more ice clutter.
- The integrity of surface cells remain intact for prolonged electrophysiological recordings.
- Hands-free footswitch operation for vibration activation.
- Removable tissue holder and bath allows tissue to be prepared and stored ready for later use, provides easy cleaning and prevents carryover of fixative between fixed and unfixed tissue.

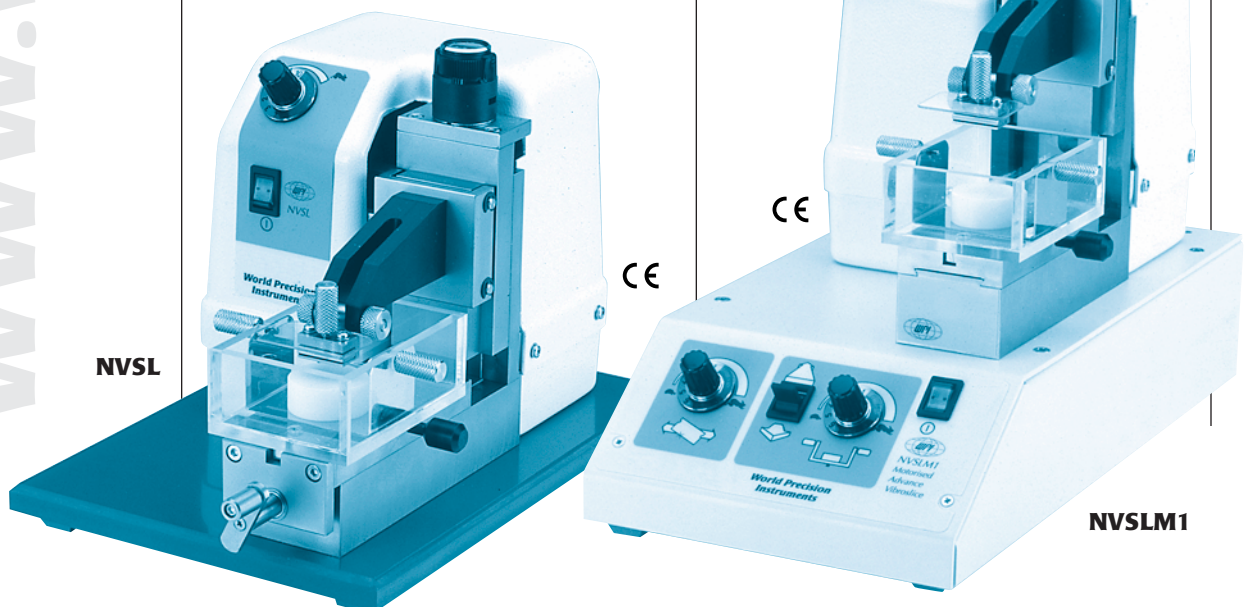
- Both models can be fitted with a custom autoclavable tissue bath, holder and a cutting head.

Manual tissue transport model NVSL

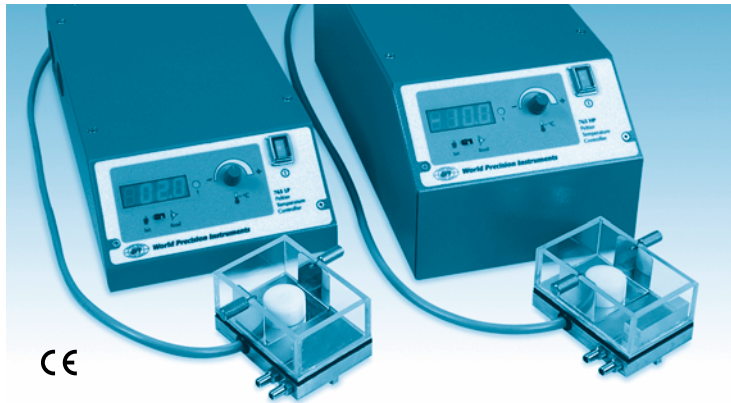
The manual advance of the section gives complete control during sectioning. The NVSL is recommended for relatively thick tissue slices or for use on tissues with differing mechanical properties.

Motorized tissue transport model NVSLM1

Control of the speed of advance of the tissue to be sectioned is set on a rotary dial and the user then depresses a footswitch leaving both hands free during operation. This model is recommended for use in cutting serial sections for reconstruction or for producing multiple sections. The automation of advance and retraction allows consistent thin slices.



World Precision Instruments



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Temperature Controlled Tissue Baths for the Vibroslice

The **765LP** and **765HP** Temperature Controlled Tissue Baths are designed for use with WPI's manual NVSL and motorized NVSLM1 Vibroslice. Research has shown

TEMPERATURE CONTROLLER SPECIFICATIONS

DISPLAY RESOLUTION	0.1°C
TEMPERATURE ACCURACY	±1°C
TEMPERATURE RANGE	
765LP	+40°C to -1°C
765HP	+40°C to -10°C
DEVIATION FROM SET TEMPERATURE	±0.5°C
VOLTAGE REQUIREMENTS	
230V	50Hz Fused at 1A
110V	60Hz Fused at 2A
POWER REQUIREMENT	250W

that unfixed brain slices sectioned at 4°C give better tissue preservation and are viable for longer *in vitro* recordings. Additionally, some enzyme histochemical techniques give better staining results when sectioned at low temperatures.

NVSL & NVSLM1 SPECIFICATIONS

SECTION THICKNESS	
MINIMUM	20 µm (fixed tissue) 50 µm (fresh tissue)
MAXIMUM	700 µm
STEP SIZE	5 µm
CHAMBER	
DIMENSIONS	2½ × 3¼ × 1¼ in. (55 × 82 × 31 mm)
VOLUME	8.5 cu. in. (140 mL)
BATH	
ADVANCE SPEED	0.07 to 1.6 mm/s (VSLM1) (continuously variable)
REVERSE SPEED	4 mm/s (VSLM1)
VIBRATION	
SPEED	60 to 4500 rpm
AMPLITUDE	1 mm (approx.)
POWER	
	95-135 V, 50/60 Hz, or 220-240 V, 50/60 Hz
SHIPPING WEIGHT	
	19 lb (8.6 kg)

NVSL Manual Vibroslice

NVSLM1 Motorized Vibroslice

Specify line voltage

OPTIONAL ACCESSORIES

VSLM1H	Spare Specimen Holder
VSLM1C	Spare Bath Chamber
5450	Replacement Belts for NVSL (pkg of 2)
5451	Replacement Belts for NVSLM1 (pkg of 4)
BLADES	Replacement Blades, single edge (100)
765HP	Peltier Temp. Controller & Bath Chamber, High Performance
765LP	Peltier Temp. Controller & Bath Chamber, Standard Power
300152	Cooling Tray, set of 2

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