

**new**

# LABMATE+

NEW TECHNOLOGY IN TRADITIONAL FORMAT

- **Ultra Low Pipetting Forces**
- **New Highly Durable Shafts**
- **UV resistant**
- **Tip ejector adjustment**



"PZ HTL" S.A. is in possession of a registered and certified quality management system which includes the development, production and sales of high quality Liquid Handling products.

**HTL**  
high tech lab

[www.htl.com.pl](http://www.htl.com.pl)

## New Technology in Traditional Format

For years **LABMATE** variable volume pipettes have been the highlight of the High Tech Lab MLH product range. Their outstandingly accurate and precise pipetting mechanism, enclosed in ergonomic, well balanced and robust handle made **LABMATE** the pipette of choice for many laboratory professionals worldwide. The most recent version of this popular pipette combines so appreciated traditional design with the new pipetting mechanism and more durable components, making the daily pipetting routine an effortless and reliable experience.



### Smooth adjustment of pipette volume

New pipetting mechanism allows for precise and effortless setting of pipette volume. Winding the counter from min to max volume can be performed with one hand in minimal time.



### UV resistant body & shafts

Crafted out of highly durable materials **LABMATE+** can be safely sterilized with UV irradiation. Even intense exposure to UV beams does not damage the plastic and the de-coloration of pipette parts is minimal.



### Highly durable shafts

Shafts of **LABMATE+** are manufactured from PVDF, material guaranteeing highest mechanical and chemical resistance.

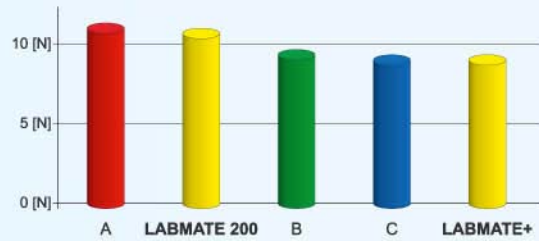




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### Minimal pipetting force

Soft compression spring of **LABMATE+** guarantees outstanding accuracy and precision with less effort. The pipetting pushbutton can now be pressed with 30% less forces at both pipetting and blowout stage.



Pipetting force of **LABMATE 200µl** pipette vs popular pipette models



### Recalibration system

The calibration key provided with **LABMATE+** allows for quick but accurate pipette recalibration. The simple recalibration procedure is explained step by step in the instruction manual.

### Adjustable tip ejector

The tip ejector stroke can be swiftly adjusted to fit a wide range of pipette tip brands. The ejector of pipettes can be easily taken off for cleaning. Its durable spacers resist numerous ejector removals without getting loose.



Choose one of 3 spacers to adjust your ejector for a certain kind of tip

### Reliable pipette - tip system

High Tech Lab offers a complete pipetting system, the wide range of pipette models together with a full scope of highly precise, ultra clean and conveniently packed pipette tips. Although shafts of **LABMATE+** are designed to fit all popular tips, the best accuracy and precision results are obtained with HTL UNITIPS®. To ensure outstanding precision and repeatability each HTL pipette is manually calibrated. The performance of every pipette is checked by the gravimetric method and the results of each test are printed in a pipette Quality Control Certificate.

QUALITY CONTROL CERTIFICATE

PZ HTL S.A. is in possession of a registered and certified quality management system, which includes the development, production and sales of high quality Liquid Handling products.

Each instrument passes stringent validation and Control Procedures in accordance with EN ISO 8655.

All HTL manual pipettes are CE marked.

Model:	I2200	Volume (µl):	20.000	Volume (µl):	100.00
Serial:	446051479	Test1:	19.964	Test1:	99.517
Cat.No.:	4605	Test2:	19.964	Test2:	99.618
Date:	29.04.04	Test3:	19.863	Test3:	99.216
Tested by:	C09				

Tested with distilled water:  
Condition of measurements:  
Basis of adjustment: Ex: Reference temperature: 20°C; Relative air humidity: 50%; Barometric pressure: 101kPa

# LABMATE+



# LABMATE+ ACCESSORIES



Product	Cat No.	Pipettes	Accessories
<b>HTL STARTER KIT</b>	7927	Pipette LM20 Pipette LM200 Pipette LM1000	UNITIPS® 200µl, 96 pcs UNITIPS® 1000µl, 96 pcs Calibration tools x 3 Pipette hangers x 3 Instruction manual
	7929	Pipette L20 Pipette L200 Pipette L1000	
<b>HTL STARTER KIT BIO</b>	7917	Pipette LM10 Pipette LM100 Pipette LM1000	UNITIPS® 10µl, 96 pcs UNITIPS® 200µl, 96 pcs UNITIPS® 1000µl, 96 pcs Calibration tools x 3 Pipette hangers x 3 Instruction manual
	7918	Pipette L10 Pipette L100 Pipette L1000	

## HTL STARTER KIT

HTL STARTER KITS create an interesting opportunity for users who are just starting to equip their laboratory, or who decided to switch to the HTL pipette system. There are two STARTER KITS, which contain 3 **LABMATE+** pipettes in the most popular and universal volumes plus tip racks and accessories.

## PIPETTE TIPS - UNITIPS®

The design, properties and packaging of **UNITIPS®** are the result of over 20 years of experience in the production of manual pipettes. During that time we watchfully inspected all tips our pipettes were used with. Countless tests and analyses allowed us to create tips, which meet the requirements of the most demanding laboratory applications.

**UNITIPS®** are available in all convenient packaging formats; bulk bags, stacks and rack boxes.

## LABMATE+ ORDERING INFORMATION

Model	Cat. No.	Colour code	Volume (µl)	A (%)	P (%)	Fits to tip
<b>LM2+ L2+</b>	4601	RED	0.2	± 12.0	± 6.0	10 µl
	4611		1.0	± 2.7	± 1.3	
<b>LM10 L10</b>	4602	RED	Max 2.0	± 1.5	± 0.7	
	4612		Min 0.5	± 4.0	± 4.0	
<b>LM20 L20</b>	4603	YELLOW	Max 10.0	± 1.0	± 0.8	200 µl
	4613		Min 2	± 4.0	± 3.0	
<b>LM50 L50</b>	4607	YELLOW	Max 20	± 0.8	± 0.4	
	4617		Min 5	± 2.5	± 2.0	
<b>LM100 L100</b>	4604	YELLOW	Max 50	± 1.0	± 0.4	1000 µl
	4614		Min 10	± 1.6	± 0.8	
<b>LM200 L200</b>	4605	YELLOW	Max 100	± 0.8	± 0.3	
	4615		Min 20	± 1.2	± 0.6	
<b>LM250 L250</b>	4600	YELLOW	Max 200	± 0.6	± 0.3	5000 µl
	4610		Min 50	± 1.0	± 0.4	
<b>LM1000 L1000</b>	4606	BLUE	Max 500	± 0.7	± 0.25	
	4616		Min 100	± 1.6	± 0.45	
<b>LM5000** L5000**</b>	4608	WHITE	Max 1000	± 0.6	± 0.3	10000 µl
	4618		Min 2500	± 0.6	± 0.3	
<b>LM10000** L10000**</b>	4609	WHITE	Max 5000	± 0.5	± 0.2	
	4619		Min 1000	± 2.5	± 0.6	
			Max 10000	± 0.5	± 0.2	

\* LM2 and L2 - minimum volume 0,1µl

\*\* Equipped with shaft filters



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