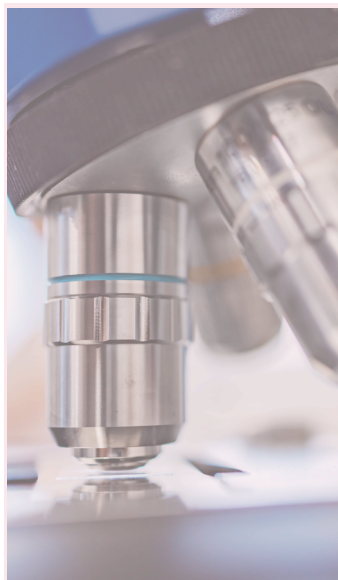


# Lab Equipment and Instrumentation Catalog





Thomas Scientific's labForce® brand is the preferred choice for scientists who strive for efficiency in attaining the most accurate results, while conducting research and experiments without breaking the bank. All labForce equipment is manufactured to Thomas Scientific's strict quality standards under ISO 9001 certifications. From centrifuges and balances to Thermal Cyclers and pH Meters, labForce® offers a complete range of equipment and instruments to every application. labForce® products offer affordable high quality lab solutions for most every application.

Thomas Scientific is committed to the development and expansion of its laboratory equipment and instrumentation portfolio. New product designs are in development to support our scientific community. If you are unable to find the exact product or specifications your need in this product guide, please contact your local Thomas Scientific Laboratory Specialist.

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## High Speed Microcentrifuge

- High Speed, 21,400xg
- Quiet and compact
- Advanced, full color display
- 24 place rotor with convenient, snap-on lid
- 2 year warranty
- Available with or without refrigeration

The 45° rotor accepts 1.5/2.0mL microtubes directly and also accepts smaller tubes (0.2, 0.5mL, etc) with the use of optional adapters.



Thomas No.	Description	QTY
1154Q50	24-M Ambient High Speed Microcentrifuge, 115V	1/EA
1154Q51	24-M Ambient High Speed Microcentrifuge, 230V	1/EA
1154Q52	24-MR Refrigerated High Speed Microcentrifuge, 115V	1/EA
1154Q53	24-MR Refrigerated High Speed Microcentrifuge, 230V	1/EA

## Single Speed Fixed & Horizontal Angle Benchtop Centrifuges

- Tube Capacity: 6 x 75-125 mm/3-15 mL
- Applications: Chemistry
- Designed, built, and supported in the USA
- Centrifugation: Horizontal, max 1,600 xg/3,250 RPM
- Included: Rotor, buckets, and tube holders
- Warranty: 2 years (rotor: lifetime warranty)

The Model 614B centrifuge provides runtime flexibility and fixed angle processing.

The Model 642B offers single-speed processing, simple controls, and an adjustable mechanical timer to meet a variety of blood specimen preparation needs.



Thomas No.	Description	QTY
20A00K607	614B Single Speed Fixed Angle Benchtop Centrifuge	1/EA
20A00K608	642B Single Speed Horizontal Benchtop Centrifuge	1/EA

## Horizontal One Setting Centrifuge

- Tube Capacity: 6 x 75-100 mm/3-10 mL
- Applications: Chemistry
- Centrifugation: Horizontal, max 1,600 xg/3,400 RPM
- Included: Rotor, buckets, and tube holders
- Warranty: 2 years (rotor: lifetime warranty)

The Model 642E is the world's best-selling clinical laboratory centrifuge.

Spin all common blood tubes up to 75-100 mm (3-10 mL) with the press of just one button.



Thomas No.	Description	QTY
20A00K609	642E Horizontal One Setting Centrifuge	1/EA

## DASH Apex 6 Set & Lock STAT Centrifuge

- Tube Capacity: 6 x 75-100 mm/3-10 mL
- Applications: Chemistry
- Centrifugation: Horizontal, max 1,600 xg/3,400 RPM
- Included: Rotor, buckets, and tube holders
- Warranty: 2 years (rotor: lifetime warranty)

With its innovative design and simple, two-button operation, the Apex 6 provides quality plasma samples in minutes.

## DASH Apex 12 Set & Lock STAT Centrifuge

- Tube Capacity: 12 x (75-100 mm/3-10 mL)
- Applications: STAT chemistry, coag, PPP
- Centrifugation: Horizontal, max 4,000 xg/5,200 RPM
- Included: Rotor, buckets, and tube holders
- Warranty: 2 years (rotor: lifetime warranty)

LED lid lighting indicates when the centrifuge is ready to load (off), running (on), or done (flashing) and prevents forgotten samples, even in the busiest labs.

Thomas No.	Description	QTY
20A00K611	DASH Apex 12 Set & Lock STAT Centrifuge	1/EA



## DASH Coag Set & Lock STAT PPP Centrifuge

- Tube Capacity: 12 tubes, up to 75 mm/4 mL
- Applications: STAT coag/PPP
- Centrifugation: Fixed angle, max 4,400 xg (RCF)/6,600 RPM
- Included: Rotor
- Warranty: 2 years (rotor: lifetime warranty)

The DASH Coag delivers STAT platelet poor plasma (PPP) in just 3 minutes. LED lid lights clearly indicate cycle status, allowing lab results to be analyzed and returned to doctors in record time. Designed, built, and supported in the USA.

Thomas No.	Description	QTY
20A00K617	DASH Coag Set & Lock STAT PPP Centrifuge	1/EA



# Centrifuges

## DASH Flex 12 Programmable Digital STAT Centrifuge

- Tube Capacity: 12 x (75-100 mm/3-10 mL)
- Applications: STAT chemistry, coag, PPP
- Centrifugation: Horizontal, max 4,000 xg/5,200 RPM
- Included: Rotor, buckets, and tube holders
- Warranty: 2 years (rotor: lifetime warranty)

The DASH Coag delivers STAT platelet poor plasma (PPP) in just 3 minutes.



Thomas No.	Description	QTY
20A00K612	DASH Flex 12 Programmable Digital STAT Centrifuge	1/EA

Thomas No.	Description	QTY
1154J19	High Speed Microcentrifuge with 12 place rotor, 115V	1/EA
1154J20	High Speed Microcentrifuge with 12 place rotor, 230V	1/EA

## High Speed Microcentrifuges

- 12 tube capacity / Up to 16,100 xg
- Less than 9 in. wide
- Quick deceleration
- Whisper quiet operation

The aircraft grade aluminum rotor accepts 1.5 to 2.0ml tubes directly, as well as 0.5ml and 0.2ml tubes with optional adapters. For application requiring sub-ambient temperatures, this model is cold room safe.



## HORIZON 6 Flex Programmable Centrifuge

- Tube Capacity: 6 x 75-100 mm/3-10 mL
- Applications: Chemistry, Coag, PPP, PRP, Urine
- Centrifugation: Horizontal, max 2,000 xg/3,800 RPM
- Included: Rotor, buckets and tube holders, cycle label
- Warranty: 2 years (rotor: lifetime warranty)

The patented LED lid lighting system indicates whether the centrifuge is ready (off), running (on), or done (flashing) and continues flashing until the lid is opened.



Thomas No.	Description	QTY
20A00K613	HORIZON 6 Flex Programmable Centrifuge	1/EA

Thomas No.	Description	QTY
20A00K614	HORIZON 6 Flex Programmable Centrifuge	1/EA

## HORIZON 6 Flex FA Fixed Angle Centrifuge

- Tube Capacity: 6 x 75-125 mm/3-15 mL
- Applications: Chemistry, Coag, PPP, PRP, Urine
- Centrifugation: Horizontal, max 2,000 xg/3,800 RPM
- Included: Rotor, buckets and tube holders, cycle label

The HORIZON 6 Flex FA centrifuge features a fully digital display and up to 10 programmable cycles for flexible fixed angle processing in the routine lab.



## HORIZON 12 Flex Programmable Centrifuge

- Tube Capacity: 12 x 75-100 mm/3-10 mL
- Applications: Chemistry, Coag, PPP, PRP, Urine
- Centrifugation: Horizontal, max 2,000 xg/3,700 RPM
- Included: Rotor, buckets and tube holders, cycle label
- Warranty: 2 years (rotor: lifetime warranty)

Program and save up to ten (10) custom time, RPM, and g-force settings with the easy-to-use interface; or choose from three carefully selected factory presets.



Thomas No.	Description	QTY
20A00K615	HORIZON 12 Flex Programmable Centrifuge	1/EA

Thomas No.	Description	QTY
20A00K616	HORIZON 6 Flex Programmable Centrifuge	1/EA

## HORIZON 24 Flex Programmable Centrifuge

- Tube Capacity: 6 x 75-125 mm/3-15 mL
- Applications: Chemistry, Coag, PPP, PRP, Urine
- Centrifugation: Horizontal, max 2,000 xg/3,800 RPM
- Included: Rotor, buckets and tube holders, cycle label
- Warranty: 2 years (rotor: lifetime warranty)

The LED lid lighting system indicates when the centrifuge is ready, running, or done, preventing forgotten tubes in even the noisiest labs.



## MicroPlate Centrifuges

- Quickly spins down droplets in PCR plates
- Unique swing-out rotor design prevents spillage (patented)
- Half the size of traditional centrifuges
- Accepts all popular types of PCR plates (skirted, semi, and non) and most microtiter plates

The easily accessible rotor chamber includes two plate carriers that rest at a 75° angle. With a g-force of 600 xg, most samples can be spun down in less than 20 seconds.



Thomas No.	Description	QTY
1154J32	MicroPlate Centrifuge with rotor and plate carriers, 115V, AMERICAN PLUG	1/EA
1154J33	MicroPlate Centrifuge with rotor and plate carriers, 230V, EUROPEAN PLUG	1/EA



## MicroPlate Centrifuges

- Quickly spins down droplets in PCR plates
- Unique swing-out rotor design prevents spillage (patented)
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The easily accessible rotor chamber includes two plate carriers that rest at a 75° angle. With a g-force of 600 xg, most samples can be spun down in less than 20 seconds.



Thomas No.	Description	QTY
1154J32	MicroPlate Centrifuge with rotor and plate carriers, 115V, AMERICAN PLUG	1/EA
1154J33	MicroPlate Centrifuge with rotor and plate carriers, 230V, EUROPEAN PLUG	1/EA

Thomas No.	Description	QTY
1154J21	Mini Centrifuge with Blue Lid, with 2 rotors, 100-240V (US plug)	1/EA
1154J22	Mini Centrifuge with Blue Lid, with 2 rotors, 100-240V (European plug)	1/EA
1154J23	Mini Centrifuge with Clear Lid, with 2 rotors, 100-240V (US plug)	1/EA

Thomas No.	Description	QTY
1154J24	Mini Centrifuge with Clear Lid, with 2 rotors, 100-240V (European plug)	1/EA
1154J25	Mini Centrifuge with Purple Lid, with 2 rotors, 100-240V (US Plug)	1/EA
1154J26	Mini Centrifuge with Purple Lid, with 2 rotors, 100-240V (European plug)	1/EA

## MiniMouse™ II Mini Centrifuges

- Klik-N-Lok™ INSTANT rotor attachment
- Eight position microtube rotor
- Storage compartment for PCR rotor & 0.5ml adapters
- Near silent operation
- Decelerates in just one second
- Four position PCR strip rotor

An increased capacity, eight-position microtube rotor is included and comes installed. Also included is a second rotor for 0.2ml PCR tubes and strips which is stored (together with the rotor removal key) in a convenient compartment on the bottom of the centrifuge.



Thomas No.	Description	QTY
1154J27	Mini Centrifuge with Red Lid, with 2 rotors, 100-240V (US Plug)	1/EA
1154J28	Mini Centrifuge with Red Lid, with 2 rotors, 100-240V (European plug)	1/EA

Thomas No.	Description	QTY
1154J29	Mini Centrifuge with Green Lid, with 2 rotors, 100-240V (US Plug)	1/EA
1154J30	Mini Centrifuge with Green Lid, with 2 rotors, 100-240V (European plug)	1/EA
1154J31	Strip Rotor for Mini Centrifuge	1/EA

## Sample Holder 8, 10, 12mm dia. Test Tubes and Centrifuge Tubes

Sample Holder 8,10,12mm dia. Test Tubes and Centrifuge Tubes. For use with the following Thomas Scientific balances: TS-T Series (0.01mg or 0.1mg readability) TS-L Series (0.01mg or 0.1mg readability)



Thomas No.	Description	QTY
20A00H186	Sample Holder 8,10,12mm dia. Test Tubes and Centrifuge Tubes for Thomas Scientific Balances	1/EA

Thomas No.	Description	QTY
20A00H187	Sample Holder for 50, 100, 250 mL Round Flasks for Thomas Scientific Balances	1/EA

## Sample Holder for 50, 100, 250 mL Round Flasks for Thomas Scientific Balances

Sample Holder for 50, 100, 250 mL Round Flasks. For use with the following Thomas Scientific balances: TS-T Series (0.01mg or 0.1mg readability) TS-L Series (0.01mg or 0.1mg readability)

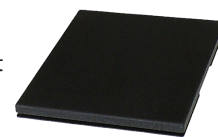


# Balances & Weights

## Anti-Vibration Granite Platform for Balances

Thomas No.	Description	QTY
20A00H186	Anti-Vibration Granite Platform for Balances	1/EA

Granite platform featuring anti-vibration isolation to provide stabilization to Thomas Scientific balances in environments where vibrations may affect weighing performance. This platform is suitable for loads up to 70lbs and features high grade silicone gel vibration isolators. Platform size: 13 x 15 x 1.5"



## Density Determination Kit for Thomas Scientific Balances

Density Determination Kit for use in determining density of solids and liquids. This kit is compatible with the following Thomas Scientific balances: TS-T Series (0.01mg or 0.1mg readability) TS-L Series (0.01mg or 0.1mg readability)



Thomas No.	Description	QTY
20A00H188	Density Determination Kit for Thomas Scientific Balances (0.01 or 0.1mg readability)	1/EA

Thomas No.	Description	QTY
20A00H189	Density Determination Kit for Thomas Scientific Balances (0.01 or 0.1mg readability)	1/EA

## Density Determination Kit for Thomas Scientific Balances

Density Determination Kit for use in determining density of solids and liquids. This kit is compatible with the following Thomas Scientific balances: TS-T Series (1mg readability) TS-L Series (1mg readability)



## Density Determination Kit for Thomas Scientific Balances

Density Determination Kit for use in determining density of solids and liquids. This kit is compatible with the following Thomas Scientific balances: TS-T-2102.C TS-L-1202.C TS-L-2102.C



Thomas No.	Description	QTY
20A00H190	Density Determination Kit for Thomas Scientific Balances (0.01 or 0.1mg readability)	1/EA

Thomas No.	Description	QTY
20A00H194	Display Cover for TS-L and TS-PH Series Balances (0.01 and below readability)	3/PK

## Density Determination Kit for Thomas Scientific Balances

Protective plastic cover to protect the TS-L Series (1200g and 2100g capacity) and TS-PH Series balance housing from scratches, dust or spills. Comes in pack of 3.



## Density Determination Kit for Thomas Scientific Balances

Protective plastic cover to protect the TS-L Series (1mg readability) balance housing from scratches, dust or spills. Comes in pack of 3.



Thomas No.	Description	QTY
20A00H193	Display Cover for TS-L Series Balance (1mg readability)	3/PK

Thomas No.	Description	QTY
20A00H195	Display Cover for TS-L Series Balances (0.01g readability)	3/PK

## Density Determination Kit for Thomas Scientific Balances

Protective plastic cover to protect the TS-L Series (4500g and 6000g capacity) balance housing from scratches, dust or spills. Comes in pack of 3.



## Display Cover for TS-T Series Balances

Protective plastic cover to protect the TS-T and TS-M Series display against scratches, dust, or spills. Comes in pack of 3.



Thomas No.	Description	QTY
20A00H192	Display Cover for TS-T Series Balances	3/PK

# Balances & Weights

## Lock Down Cable for Thomas Scientific Balances

Lock down device to secure Thomas Scientific balance in a set location. Compatible with the following Thomas Scientific balances: TS-T Series TS-L Series TS-PH Series TS-M Series



Thomas No.	Description	QTY
20A00H191	Lock Down Cable for Thomas Scientific Balances	1/EA

Thomas No.	Description	QTY
20A00H262	TS-E2-50, OIML Class E2 50g Calibration Weight	1/EA
20A00R849	Calibration Weight, OIML Class E2 50g, Individual Cylindrical Weight with Knob in Plastic Case, Includes ISO 17025 Certificate of Calibration	1/EA

## Thomas Scientific Calibrated Sale Weights

Thomas Scientific Calibration Weights are solid construction and made with non-magnetic stainless steel. OIML E2 can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg. All weights include a certificate of accuracy.



\*For more sizes, please visit [thomassci.com](http://thomassci.com)  
[www.thomassci.com/Laboratory-Supplies/Balance-Weights/](http://www.thomassci.com/Laboratory-Supplies/Balance-Weights/) / [TS-Calibration-Weights](http://TS-Calibration-Weights)

## TS-B Series Basic Portable Laboratory Balances

- Five-Year Warranty
- Portable
- Simple Operation
- Oversized Draft Shield with a stainless-steel lift off cover is standard on the TS-B-123
- Plastic Weigh Bowl
- Stainless Steel Weigh Pans are easy to remove for cleaning
- Rugged, built to last
- Priced Right



Thomas No.	Description	QTY
1160U14	Precision Balance, 120g x 1mg, 110-240V	1/EA
1160U15	Precision Balance, 500g x 0.01g, 110-240V	1/EA
20A00H244	TS-B-3001, Precision Balance with Calibration Certificate, 3000g x 0.1g, 110-240V	1/EA
20A00H245	TS-B-6000, Precision Balance with Calibration Certificate, 6000g x 1g, 110-240V	1/EA

Economical weighing for educational and general laboratory use.

\*For more sizes, please visit [thomassci.com](http://thomassci.com)  
[www.thomassci.com/Instruments/Toploading-Balances/](http://www.thomassci.com/Instruments/Toploading-Balances/) / [TS-B-Series-Basic-Portable-Laboratory-Balances](http://TS-B-Series-Basic-Portable-Laboratory-Balances)

Thomas No.	Description	QTY
1160U29	Precision Balance, 1000g x 0.01g, 110-240V	1/EA
1160U30	Precision Balance, 3000g x 0.01g, 110-240V	1/EA
1160U31	Precision Balance, 3000g x 0.1g, 110-240V	1/EA

## TS-E Series Economy Laboratory Balances

Thomas Scientific Calibration Weights are solid construction and made with non-magnetic stainless steel. OIML E2 can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1 mg to 0.01 mg. All weights include a certificate of accuracy.



\*For more sizes, please visit [thomassci.com](http://thomassci.com)  
[www.thomassci.com/Instruments/Toploading-Balances/](http://www.thomassci.com/Instruments/Toploading-Balances/) / [TS-E-Series-Economy-Laboratory-Balances](http://TS-E-Series-Economy-Laboratory-Balances)

## TS-L Series Standard Laboratory Balances

- Standard weighing
- Highly precise measurement
- Precise Measurement and Repeatability
- Easy-to-Read Information Arrangement
- USB and RS-232 Interface
- Direct Access to Selected Functions
- User-friendly Draft Shield
- Five-year warranty included on all models



Thomas No.	Description	QTY
1160U00	TS-L-363 Precision Balance, 360g x 1mg, 110-240V	1/EA
1160U01	TS-L-603 Precision Balance, 600g x 1mg, 110-240V	1/EA
20A00H227	TS-L-363, Precision Balance with Calibration Certificate, 360g x 1mg, 110-240V	1/EA
20A00H228	TS-L-603, Precision Balance with Calibration Certificate, 600g x 1mg, 110-240V	1/EA

\*For more sizes, please visit [thomassci.com](http://thomassci.com)  
[www.thomassci.com/Instruments/Analytical-Balances/](http://www.thomassci.com/Instruments/Analytical-Balances/) / [TS-L-Series-Standard-Laboratory-Balances](http://TS-L-Series-Standard-Laboratory-Balances)



# Balances & Weights

## TS-L.C Series Standard Laboratory Balances

- Standard weighing
- Highly precise measurement
- Precise Measurement and Repeatability
- Easy-to-Read Information Arrangement
- USB and RS-232 Interface
- Direct Access to Selected Functions
- User-friendly Draft Shield
- Five-year warranty included on all models



Thomas No.	Description	QTY
1160T87	TS-L-164.C Analytical Balance, 160g x 0.1mg, 110-240V	1/EA
1160T90	Precision Balance, 360g x 1mg, 110-240V	1/EA
20A00H217	TS-L-363.C, Precision Balance with Calibration Certificate, 360g x 1mg, 110-240V	1/EA
20A00H218	TS-L-603.C, Precision Balance with Calibration Certificate, 600g x 1mg, 110-240V	1/EA

**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**

[www.thomassci.com/Instruments/Analytical-Balances/](http://www.thomassci.com/Instruments/Analytical-Balances/) / [/TS-LC-Series-Standard-Laboratory-Balances](#)

Thomas No.	Description	QTY
1160U19	Precision Balance, 200g x 1mg, 110-240V	1/EA
20A00H247	TS-P-602, Precision Balance with Calibration Certificate, 600g x 0.01g, 110-240V	1/EA
20A00H252	TS-PH-2002.C, Precision Balance with Internal Calibration and Calibration Certificate, 2000g x 0.01g, 110-240V	1/EA

## TS-L.N Series Standard Laboratory Balances with NTEP Certification

- Standard weighing with NTEP Certified Balance
- Legal for Trade
- Precise Measurement and Repeatability
- Easy-to-Read Information Arrangement
- USB and RS-232 Interface
- User-friendly Draft Shield
- Five-year warranty included on all models



**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**

[www.thomassci.com/Instruments/Analytical-Balances/](http://www.thomassci.com/Instruments/Analytical-Balances/) / [/TS-LN-Series-Standard-Laboratory-Balances-with-NTEP-Certification](#)

## TS-P Series Portable Laboratory Balances

- The labForce TS-P Series balances are ideal for educational, light industrial, and general laboratory applications or anywhere that accuracy and portability is required.
- Large, Easy-to-see Backlit LCD Display is ideal for dimly lit work locations.
- Multiple Weigh Modes. Choose from three weigh modes: grams, carat, and pound.
- Removable Draft Shield with a stainless-steel lift off cover is standard on the TS-P-203
- Stainless Steel Weigh Pans are easy to remove for cleaning



Thomas No.	Description	QTY
1160U19	Precision Balance, 200g x 1mg, 110-240V	1/EA
20A00H246	TS-P-203, Precision Balance with Calibration Certificate, 200g x 1mg, 110-240V	1/EA
20A00H252	TS-PH-2002.C, Precision Balance with Internal Calibration and Calibration Certificate, 2000g x 0.01g, 110-240V	1/EA

**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**

[www.thomassci.com/Instruments/Analytical-Balances/](http://www.thomassci.com/Instruments/Analytical-Balances/) / [/TS-LN-Series-Standard-Laboratory-Balances-with-NTEP-Certification](#)

# Balances & Weights



Thomas No.	Description	QTY
1160T80	Precision Balance, 360g x 0.1mg, 100-240V	1/EA
20A00H207	TS-T-363.C, Precision Balance with Calibration Certificate, 360g x 0.1mg, 100-240V	1/EA
20A00R902	TS-T-8102.C, Precision Balance, 8100g x 0.01g, Internal Cal, 100-240V	1/EA

## TS-T Series Advanced Laboratory Balances

- Advanced weighing performance
- Maximum ease of operation
- Ease of operation due to 5" capacitive touchscreen
- Personalization taken to the next level
- Unlimited possibilities of communication
- Ergonomics of operation
- Data safety
- Weighing data management
- Five-year warranty included on all models



**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**

**[www.thomassci.com/Instruments/Analytical-Balances/](http://www.thomassci.com/Instruments/Analytical-Balances/) /TS-T-Series-Advanced-Laboratory-Balances**

## TS-U Series Ultra-Microbalances and Microbalances

- Advanced weighing performance
- Maximum ease of operation
- Ease of operation due to 5" capacitive touchscreen
- Personalization taken to the next level
- Unlimited possibilities of communication
- Ergonomics of operation
- Data safety
- Weighing data management
- Five-year warranty included on all models



Thomas No.	Description	QTY
1160U38	Ultra-Micro Balance, 2.1g x 0.1µg, 100-240V	1/EA
1160U40	Micro Balance, 5.1g x 1µg, 100-240V	1/EA
1160U41	Micro Balance for Filters, 5.1g x 1µg, 100-240V	1/EA
20A00R904	TS-U-31, Microbalance, 31g x 1µg, Internal Cal, 100-240V	1/EA

**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**

**[www.thomassci.com/Instruments/Micro-And-Semi-Micro-Balances/](http://www.thomassci.com/Instruments/Micro-And-Semi-Micro-Balances/) /TS-U-Series-Ultra-Microbalances-and-Microbalances**

Thomas No.	Description	QTY
1160U35	Moisture Balance, 50g x 0.1mg/0.0001%, 110V	1/EA
1160U36	Moisture Balance, 50g x 1mg/0.001%, 110V	1/EA
1160U37	Moisture Balance, 210g x 1mg/0.001%, 110V	1/EA

## TS-U Series Ultra-Microbalances and Microbalances

- Highest-level functionality for professional drying processes and moisture content analysis
- Versatility of Applications
- Ease and Comfort of Operation
- Precision of Mass Measurement in all Thermal Conditions
- Drying Temperature Optimization
- Drying Process Visualization
- Database as Drying Processes Backup
- A Three-Year Warranty is included with all labForce Moisture Analyzers



# Rockers & Shakers

Thomas No.	Description	QTY
1154J57	3D Rocker with flat mat, 13.5x13" platform, 100-240V (US Plug)	1/EA
1154J58	3D Rocker with flat mat, 13.5x13" platform, 100-240V (European plug)	1/EA

## 3D Rockers

- Undulating, 3-dimensional motion
- Adjustable speed and tilt angle
- Large, 13-inch platform
- Ideal for staining, washing & general mixing

The labForce 3D Rocker combines the basic rocking motion of traditional platform rockers with the circular motion of an orbital shaker.



## BioRocker™ 2D Rockers

- Adjustable speed & tilt for a wide range of applications
- Large 14 x 12 in. work surface
- Cold room and incubator safe

The labForce BioRocker™ 2D is designed to provide the precise speeds and tilt angles required for a broad range of molecular and biological mixing applications. The user can adjust both parameters to match the vessel size and the volume of liquid being mixed, yielding optimum results.



Thomas No.	Description	QTY
1154J70	BioRocker 2D Rocker, variable speed, 14x12" platform with flat mat, 115V	1/EA
1154J71	BioRocker 2D Rocker, variable speed, 14x12" platform with flat mat, 230V	1/EA

## BioRocker™ 3D Mini Rockers

- Optimized speed and tilt for gel blotting, washing & staining
- Tri-directional motion for thorough, gentle mixing
- Cold room and incubator safe

BioRocker 3D Mini Rockers are supplied with autoclavable flat mats and are ideal for blot washes and gel staining/ destaining. The Mini Rocker is supplied with a 10.5 x 7.5-inch platform.

The BioRocker 3D Mini Rocker can accept stackable platforms and handle loads up to 2kg. It has maintenance free brushless motors and is safe for use in cold rooms and incubators.



Thomas No.	Description	QTY
1154J96	BioRocker 3D Mini Rocker, Fixed Speed, 10x7.5" platform with flat mat, 115V	1/EA
1154J97	BioRocker 3D Mini Rocker, Fixed Speed, 10x7.5" platform with flat mat, 230V	1/EA

## BioRocker™ 3D Nutating Shakers

- Adjustable speed & tilt for a wide range of applications
- Large 12 x 12 in. work surface
- Insta-TILT™ technology for instant adjustment to the tilt angle
- Cold room and incubator safe

This model includes both flat and dimpled (autoclavable) mats for mixing a wide variety of tubes and other vessels.

Stacking platforms can be purchased as accessories, effectively doubling the usable surface area of each model.



Thomas No.	Description	QTY
1154J72	BioRocker 3D Nutating Shaker, variable speed, 12x12" platform with 2 mats, 115V	1/EA
1154J73	BioRocker 3D Nutating Shaker, variable speed, 12x12" platform with 2 mats, 230V	1/EA

Thomas No.	Description	QTY
1154J98	BioRocker 3D Rocker, Fixed Speed, 12x12" platform with flat mat, 115V	1/EA
1154J99	BioRocker 3D Rocker, Fixed Speed, 12x12" platform with flat mat, 230V	1/EA

## BioRocker™ 3D Rockers

- Optimized speed and tilt for gel blotting, washing & staining
- Tri-directional motion for thorough, gentle mixing
- Cold room and incubator safe

These labForce BioRocker™ 3D Rockers provide the perfect 3-dimensional motion for all blot related applications.

Their tilt angle and speed have been optimally set for gentle, but thorough mixing in gel trays, boxes, and other flat vessels.





# Rockers & Shakers

## BioRocker™ FX Platform Rockers

- Optimized for blot washing and gel staining
- Gentle mixing, 12 rpm / +/-8° tilt
- Cold room and incubator safe

The labForce BioRocker™ FX Platform Rocker is an economical "workhorse" rocker, designed for common molecular lab applications such as blotting, staining/destaining, etc.



Thomas No.	Description	QTY
1154J80	Platform Rocker, Fixed Speed, 12x12" with flat mat, 115V	1/EA

## BioRocker™ FX Tube Rockers

Thomas No.	Description	QTY
1154J74	BioRocker Compact Tube Rocker, 115V	1/EA
1154J75	BioRocker Compact Tube Rocker, 230V	1/EA

- Ideal for tube sizes 1.5ml to 50ml
- Optimized speed and tilt angle for thorough mixing in sample tubes
- Cold room and incubator safe
- No adapters or mounting hardware required

Small in size (only 5 x 13 inches) and able to withstand temperatures from 4°C to 65°C, the BioRocker is small enough to fit on any lab bench and can conveniently be placed inside a cold room, refrigerator or laboratory incubator.



## BioRocker™ XL 3D Rockers

- Extra-large 16 x 12 in. work surface
- Stainless-steel platform
- Cold room and incubator safe

The rocking speed and tilt angle can easily be adjusted to vary between gentle and aggressive agitation. Both the standard platform and the (optional) stacking platform are constructed of stainless steel, preventing against any rusting or corrosion. The BioRocker XL is designed to provide years of uninterrupted service.



Thomas No.	Description	QTY
1154J78	BioRocker 3D Rocker with flat mat, 100-240V (US Plug)	1/EA
1154J79	BioRocker 3D Rocker with flat mat, 100-240V (European Plug)	1/EA

## Microplate Shaker

Thomas No.	Description	QTY
1165U09	Microplate Shaker, 2-Plate Capacity	1/EA

- Simple screw attachments allow quick and easy fitting of any standard depth 96- or 384-well plates, holding the plates securely in place
- Standard platform for two microplates, included
- 2-year warranty
- Power Pac is UL, CSA and CE marked

Reliable, regulated shaking for two microplates.



## Microplate Shakers

- Digital speed control up to 1500 rpm
- 3mm orbit for thorough mixing in microplates
- Includes platform for up to 4 microplates
- Cold room and incubator safe

The labForce Microplate Shaker is designed with a 3mm mixing orbit, optimized for thorough mixing of microplates and/or PCR plates.



Thomas No.	Description	QTY
1154J76	Microplate Shaker with 4 position microplate platform, 100-240V (US plug)	1/EA
1154J77	Microplate Shaker with 4 position microplate platform, 100-240V (European plug)	1/EA

# Rotators & Shakers

## Mini Tube Rotators

Thomas No.	Description	QTY
1165U05	Mini Tube Rotator with Carousel for 36 x 1.5/2.0mL tubes	1/EA

- A Variable Speed with LCD display
- Includes Carousel for 36 x 1.5/2.0mL tubes
- Provides complete 360° Rotation
- An adjustable 0-90° Mixing Angle
- Interchangeable carousels for all common laboratory tubes
- Cold Room and Incubator compatible
- AC Adapter marked with UL/CSA and CE markings

Ideal for Molecular Biology, Histochemistry and Clinical applications.



## Tube Rotator

- Digital Microprocessor Control
- Adjustable speed provides gentle or vigorous mixing action
- Adjustable angled head offers mixing angles from 90°-180°
- Timer features offers time-down or time-up counting feature
- Power pac is UL, CSA and CE approved
- 2 Year warranty

labForce's Laboratory Tube Rotator is ideal for Biochemistry, Molecular Biology and Clinical applications. Provides gentle or vigorous mixing. Supplied with a carousel for 14 x 50mL tubes.



Thomas No.	Description	QTY
1165U04	Tube Rotator with Carousel for (14) 50mL tubes	1/EA

## Orbitron V 3D Orbital Shakers

Thomas No.	Description	QTY
1165U11	Orbitron V Orbital Shaker with 3D Wave Motion, 115V 50/60Hz UL/CSA	1/EA

- Adjust your tray angle for a gentle, vigorous or "somewhere in between" agitation
- Supplied with a non-skid rubber mat so you can position your vessels with confidence
- Set the timer up to 12 hours or set for continuous
- Easy to adjust tilt angle with a single set screw adjustment
- This heavy-duty rotator can hold up to 20 lbs
- Unit is UL/CSA approved and CE marked

Variable speed, 3D motion provides gentle or vigorous mixing. This isn't your "run of the mill" rotator, the Orbitron V has a unique 3-Dimensional Wave Motion.



## Orbital Shaker

- Small footprint, reciprocating/orbital shaker
- Smooth horizontal orbital motion for mixing in bottles, flasks, and beakers
- Soft start and noise-free operation
- Platform is not included
- Can be used in an incubator 4°C to 40°C
- Power Pack is CSA, UL, CE approved
- Platform sold separately.

Optimal for mixing bottles, flasks, and beakers due to the smooth horizontal motion.



Thomas No.	Description	QTY
1165U07	Orbital Shaker Base, 12V DC	1/EA
1165U08	Flat Platform with Rubber Mat	1/EA

# Mixers & Stirrers

## Variable Speed Mini Orbitron™ Nutating Mixer

Thomas No.	Description	QTY
1165U03	Variable Speed Small Nutating Mixer, 4-24 RPM	1/EA

- Variable speed from 4-24 rpm's
- Low profile and small footprint minimize bench space
- Extremely quiet
- Provides gentle, continuous mixing of specimens
- Accommodates a variety of blood tubes and centrifuge tubes
- Includes one rubber dimple pad. Can be washed with mild soap and water. Also, can be autoclaved.



## Vortexer V-32 Advanced Vortex Mixer

- Unique Multi-Head™ for general purpose vortexing PLUS holds up to eight microtubes
- Powerful motor for INSTANT vortexing
- Continuous or "touch" operation
- Q-Drive™ dynamic balancing system
- Variable speed from 200 to 3400 rpm

Other features include: "no-walk" suction feet, cold room/incubator compatibility and spill-proof electronic controls. Two-year warranty.



Thomas No.	Description	QTY
1154J84	Vortexer V-32 Advanced Vortex Mixer, 115V	1/EA
1154J85	Vortexer V-32 Advanced Vortex Mixer, 230V	1/EA

## Vortexer V-32 Vortex Mixer

- Powerful motor for INSTANT vortexing
- Continuous or "touch" operation
- Q-Drive™ dynamic balancing system
- Variable speed from 200 to 3200 rpm

The Vortexer V-32 sets the new standard in vortex mixing. With advanced Q-Drive™ technology, the Vortexer V-32 provides smooth instant vortexing of even the largest sample sizes, including full 50ml tubes.



Thomas No.	Description	QTY
1154J82	Vortexer V-32 Advanced Vortex Mixer, 115V	1/EA
1154J83	Vortexer V-32 Advanced Vortex Mixer, 230V	1/EA

## Vortexer V-32 Advanced Vortex Mixer

- Powerful vortexing for tubes up to 50ml
- Insta-Touch pressure activated operation
- "Mini Sized", less than 4 in. wide
- Available in five color configurations

Insta-Touch operation means that the motor is automatically activated with slight pressure on the center cup head.



Thomas No.	Description	QTY
1154J86	Mini Vortexer, Gray Cup Head, 100 to 240V (US Plug)	1/EA
1154J87	Mini Vortexer, Gray Cup Head, 100 to 240V (European Plug)	1/EA

\*For more sizes, please visit [thomassci.com](http://thomassci.com)  
[www.thomassci.com/Equipment/Vortexers/](http://www.thomassci.com/Equipment/Vortexers/) /Miniature-Vortex-Mixers

## Tap Dancer Mini Tube Vortex Mixer

Thomas No.	Description	QTY
1165U06	Tap Dancer Mini Tube Vortex Mixer, 12V DC 0.5 A via 115/230V AC adapter	1/EA

- Pressure sensitive cup
- Continuous or touch operation
- Rubber suction pads prevent walking, absorb vibration
- Low voltage supply for safe cold room uses
- Power pack is UL, CSA and CE approved
- 2 Year warranty

Compact, with low profile and small footprint.





# Mixers & Stirrers

Thomas No.	Description	QTY
20A00H163	Digital Hotplate Stirrer 10 x 10-in, 115V	1/EA
20A00H165	Digital Hotplate 10 x 10-in, 115V	1/EA
20A00H167	Magnetic Stirrer 10 x 10-in, 115V	1/EA
20A00H168	Magnetic Stirrer 10 x 10-in, 230V	1/EA

## Digital and Magnetic Stirrers

- Temperature Range: Ambient + 5 to 400°C
- Speed Range: 150 to 1500 rpm
- Platform: 10 x 10 in. (25.4 x 25.4 cm)
- Dimensions: 11.6 x 16.7 x 4.5 in. / 29.5 x 42.4 x 11.4 cm
- Operating Temp. Range: +4°C to 65°C
- Stir Capacity: 15 L
- Electrical: 115V or 230V, 50-60 Hz, 750W



In addition, the powerful motor drive system ensures efficient mixing in larger and more viscous samples.

**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**  
[www.thomassci.com/Equipment/Hot-Plates/](http://www.thomassci.com/Equipment/Hot-Plates/) / [Digital-and-Magnetic-Stirrers](http://Digital-and-Magnetic-Stirrers)

## Digital and Hotplate Magnetic Stirrer

- Larger top plate (7 x 7")
- Higher temperature range (up to 400°C)
- Larger stir capacity (up to 5L)
- More powerful and reliable heating element
- Molded aluminum base/housing

With a square 7in. work surface, all models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles, and other vessels.



Thomas No.	Description	QTY
1140K86	labForce Digital Hotplate Magnetic Stirrer, 115V	1/EA
1140K89	labForce Digital Hotplate, 230V	1/EA
1140K90	labForce Magnetic Stirrer, 115V	1/EA

**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**  
[www.thomassci.com/Equipment/Hot-Plates/](http://www.thomassci.com/Equipment/Hot-Plates/) / [Digital-Hotplates-Stirrers-and-Hotplate-Stirrers](http://Digital-Hotplates-Stirrers-and-Hotplate-Stirrers)

## Digital Hotplate, 230V, European Cord

Thomas No.	Description	QTY
20A00U717	labForce Digital Hotplate 230V, European cord	1/EA

- Large, backlit LCD display
- Ceramic work surface, 6.5 x 6.5 in.
- Safety LED indicates hot surface
- Three models: heat-stir, heat only or stir only

With a square 6.5 in. work surface, all three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles, and other vessels.



## Hotplates, Stirrers and Hotplate Stirrers

- Ceramic work surface, 7.1 x 7.1 in.
- Stir speed from 60 to 1500 rpm
- Temperature controls up to 380°C
- Three models: heat-stir, heat only or stir only

labForce hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, aluminum material with a chemical resistant white ceramic work surface.



Thomas No.	Description	QTY
1154K06	Hotplate Magnetic Stirrer, 115V	1/EA
1154K08	Hotplate, 115V	1/EA
1154K10	Magnetic Stirrer, 115V	1/EA

**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**  
[www.thomassci.com/Equipment/Hot-Plates/](http://www.thomassci.com/Equipment/Hot-Plates/) / [Hotplates-Stirrers-and-Hotplate-Stirrers](http://Hotplates-Stirrers-and-Hotplate-Stirrers)

## Magnetic Induction Stirrer

Thomas No.	Description	QTY
1152A32	Magnetic Induction Stirrer, Gray/Blue	1/EA
20A00M205	Magnetic Induction Stirrer Replacement Power Adapter	1/EA

- Capacity: 3 liters plus an easy-to-read digital display precisely controls time (30 seconds to 60 minutes) and speed (10 to 2,000 rpm)
- Rapid acceleration and braking (less than 10 seconds) to quickly meet stirring speed requirements
- Speed remains constant, even when load changes
- Two stir bars included (35 mm x 12 mm) have PTFE coating for chemical resistance
- Safety certified and approved: CE, SGS, RoHS2, WEEE
- Patent information: Community Design No: 003515337-0001-0002 Euro. Pat. App. 3 246 088 US Design Patent No. D814,045





**Thomas**  
Scientific

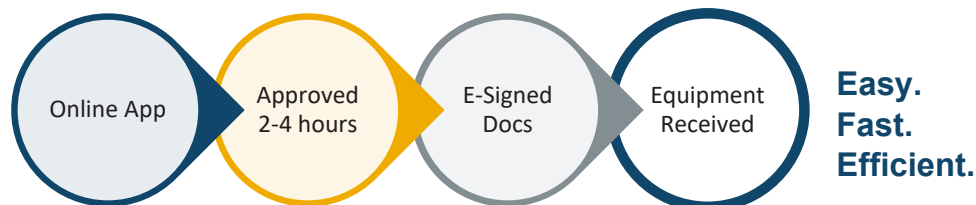


## Benefits of Equipment Financing

- **Low monthly payments**
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### What's Easier to Manage?

A big outlay of cash or low monthly payments?

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*the equipment they need today to succeed tomorrow, we are perpetually investing in people's futures.*

# Meters

Thomas No.	Description	QTY
1147H71	DO700 Benchtop pH/DO Meter only (Meter DO700, ATC-01, DO-01 Electrode, Flexible Arm Electrode Holder, power adapter, cable & software), 9V	1/EA
1147H72	DO700 Benchtop pH/DO Meter Kit (Meter DO700, ATC/pH Electrode PH-02, ATC-01, DO-01 Electrode, Flexible Arm Electrode Holder, power adapter, cable & software), 9V	1/EA

## DO700 Benchtop pH/DO Meters

- Accuracy:  $\pm 0.01$  pH, Range: -2.00-19.99 pH, ATC, Auto Calibration with automatic buffer recognition. Uses advanced digital filtering technology for improved response time and accuracy.
- GLP standard data management, 900 data sets of storage, manual/ auto timing storage, RS232 data output.
- 3 measurement modes: stable measurement display mode, timing measuring mode, and continuous measuring mode.
- DO electrode uses automatic temperature compensation and automatic salinity compensation as well as automatic air pressure compensation.



## ISE500 Benchtop pH/ISE Meters

- Accuracy:  $\pm 0.01$  pH, Range: -2.00-19.99 pH, ATC, Auto Calibration with automatic buffer recognition. Uses advanced digital filtering technology for improved response time and accuracy
- High purified water and ammonia added purified water pH measuring modes available
- Use the pre-programmed measuring mode, available for 10 common ions, or define your own for other ions



Thomas No.	Description	QTY
1147H69	ISE500 Benchtop pH/ISE Meter only	1/EA
1147H70	ISE500 Benchtop pH/ISE Meter Kit	1/EA

Thomas No.	Description	QTY
1147H73	M1000 Benchtop pH/mV/ISE/Cond./DO Meter only	1/EA
1147H74	M1000 Benchtop pH/mV/ISE/Cond./DO Meters Kit	1/EA

## M1000 Benchtop pH/mV/Conductivity/ISE/DO Meters

With advanced and original conductivity measurement technology, the M1000 model can meet measuring accuracy requirement for range within  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$  by using only one-point calibration.

The M1000 Meter meets the requirement of international GLP standards.



## PC200 Portable pH/Conductivity Meters

Data Processing: GLP standard data management, 500 data sets of storage, manual/auto timing storage, USB charging and data output, data protection in case of power outage.

Rugged Design: White backlit large LCD, the foldable stand allows use as a benchtop meter, soft silicone case gives you a good grip, connector protection cap, IP57 waterproof, battery and/or USB power supply.



Thomas No.	Description	QTY
1147H77	PC200 Portable pH/Conductivity Meter only	1/EA
1147H78	PC200 Portable pH/Conductivity Meter Kit	1/EA

Thomas No.	Description	QTY
1147H66	PC300 Benchtop pH/Conductivity Meter only	1/EA
1147H67	PC300 Benchtop pH/Conductivity Meter Kit	1/EA
1147H68	PC300 Benchtop pH/Conductivity Meter Kit	1/EA

## PC300 Benchtop pH/Conductivity Meters

- 3 measurement modes: stable measurement display mode, timing measuring mode, and continuous measuring mode.
- GLP standard data management, 900 data sets of storage, manual/auto timing storage, RS232 data output.
- Uses advanced and original conductivity measurement technology; the conductivity electrode (K=1) can measure between  $0.5\mu\text{S}/\text{cm} - 200\text{mS}/\text{cm}$  by using only one-point calibration.



## PH100 Benchtop pH Meters

- Accuracy:  $\pm 0.01$  pH, Range: -2.00-19.99 pH, ATC, Auto Calibration with automatic buffer recognition. Uses advanced digital filtering technology for improved response time and accuracy.
- 3 measurement modes: stable measurement display mode, timing measuring mode, and continuous measuring mode.
- GLP standard data management, 500 data sets of storage, manual/auto timing storage, RS232 data output.



Thomas No.	Description	QTY
1147H63	PH100 Benchtop pH Meter only	1/EA
1147H64	PH100 Benchtop pH Meter Kit	1/EA
1147H65	PH100 Benchtop pH Meter Kit	1/EA



Thomas No.	Description	QTY
1147H86	Portable pH Meter for Beverage Making	1/EA

## PH200 Portable Meter Kit for Beverage Making

The labForce TS-B200 Portable pH Meter is designed for professional pH measurement of for brewing, such as beer, wine, kombucha, juice, etc. The 3-in-1 Glass pH/Temperature Electrode adopts a Long-Life reference system, and a patented pH/temp. dual sensor structure, making precise beverage pH measurement easier than ever.



## PH200 Portable Meter Kit for Dairy Products

The TS-D200 Portable pH meter for dairy products and liquid food has a  $\pm 0.01$  pH accuracy in a range of 0-14 pH, and Temperature Range: -5 to 100°C (23 to 212°F), Auto Calibration with auto recognition of up to 12 kinds of buffer solutions, Auto. Temp. Compensation and supports stable reading/auto-hold display mode.



Thomas No.	Description	QTY
1147H82	Portable pH Meter for Dairy Product like Milk, Yogurt, and Cream	1/EA

Thomas No.	Description	QTY
1147H79	Portable Food pH Meter Kit (PH200 Meter, Spear pH/Temp. Electrode, buffers, USB cable, software disk & Carrying Case)	1/EA

## PH200 Portable Meter Kit for Food & Dairy

The meter has a  $\pm 0.01$  pH accuracy in a range of -2.00-19.99 pH., with 0-100°C Automatic Temperature Compensation (ATC), Auto Calibration with auto recognition of up to 12 kinds of buffer solutions, and supports stable reading/auto-hold display mode. The meter's digital filter technology improves response time and accuracy.



## PH200 Portable Meter Kit for Meat

The meter has a  $\pm 0.01$  pH accuracy in a range of -2.00-19.99 pH, with 0-100°C Automatic Temperature Compensation (ATC), Auto Calibration with auto recognition of up to 12 kinds of buffer solutions, and supports stable reading/auto-hold display mode. The meter's digital filter technology improves response time and accuracy.



Thomas No.	Description	QTY
1147H80	Portable Meat Blade Spear pH Meter Kit	1/EA

Thomas No.	Description	QTY
1191D81	Portable pH Meter for purified water and low ion-concentration solutions	1/EA

## PH200 Portable Meter Kit for Purified Water

The meter has a  $\pm 0.01$  pH accuracy in a range of 0-14 pH, and Temperature Range: -5 to 100°C (23 to 212°F), Auto Calibration with auto recognition of up to 12 kinds of buffer solutions, Auto. Temp. Compensation and supports stable reading/auto-hold display mode.



# Meters

## PH200 Portable Meter Kit for Soil

This soil pH meter has a  $\pm 0.01$  pH accuracy in a range of 0-14 pH, and Temperature Range: -5 to 100°C (23 to 212°F), Auto Calibration with auto recognition of up to 12 kinds of buffer solutions, Auto. Temp. Compensation and supports stable reading/auto-hold display mode.



Thomas No.	Description	QTY
1147H84	Portable pH Meter for Soil Test	1/EA

## PH200 Portable Meter Kit for Test Tubes & Small Samples

The meter has a  $\pm 0.01$  pH accuracy in a range of 0-14 pH, and Temperature Range: -5 to 100°C (23 to 212°F), Auto Calibration with auto recognition of up to 12 kinds of buffer solutions, Auto. Temp. Compensation and supports stable reading/auto-hold display mode.



Thomas No.	Description	QTY
1147H85	Portable pH Meter for Small Samples	1/EA

## PH200 Portable Meter Kit for Waste Water

The meter has a  $\pm 0.01$  pH accuracy in a range of 0-14 pH (Temp. Range: -5 to 80°C), Auto Calibration with auto recognition of up to 12 kinds of buffer solutions, Auto. Temp. Compensation and supports stable reading/auto-hold display mode.



Thomas No.	Description	QTY
1147H83	Portable pH Meter for Wastewater Treatment	1/EA

## PH200 Portable pH Meters

The meter has a  $\pm 0.01$  pH accuracy in a range of -2.00-19.99 pH., with 0-100°C Automatic Temperature Compensation (ATC), Auto Calibration with auto recognition of up to 12 kinds of buffer solutions and supports stable reading/auto-hold display mode.



Thomas No.	Description	QTY
1147H75	PH200 Portable pH Meter only	1/EA
1147H76	PH200 Portable pH Meter Kit	1/EA



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# Electrodes

## ATC-01 Temperature Electrode

- Material: Stainless Steel
- Temperature Range: -10 to 110°C (14 to 230°F)
- Dimension:  $\varnothing 5 \times 145 \text{ mm}$
- Connector: RCA

The labForce ATC-01 Temperature Probe/Electrode is ideal for use along with pH or conductivity electrode for temperature compensation to achieve automatic temperature compensation. Compatible labForce meters: PH100, PC300, ISE500, DO700, M1000, PH200, PC200. May NOT work with other brands' meters because the temperature unit might be incompatible.



Thomas No.	Description	QTY
1146J02	ATC-01 Temperature Electrode - Stainless steel housing, fast response and high precision	1/EA

## CC-01 Conductivity Electrode, K=1

Thomas No.	Description	QTY
1146J03	CC-01 Conductivity/Temp. Electrode (K=1.0)	1/EA

- Measuring Range: 0.5  $\mu\text{S/cm}$  to 200  $\text{mS/cm}$
- Electrode Constant:  $K=1.0 \pm 0.2 \text{ cm}^{-1}$
- Dimension:  $\varnothing 12 \times 155 \text{ mm}$
- Connector: BNC/RCA



The built-in thermistor tests temperature simultaneously and allows for auto temperature compensation. It is ideal for both regular laboratory and in-field use.

Compatible Models: PC300, M1000, PC200. May NOT be compatible with other brands' meters because the temperature unit might be incompatible.

## CC-02 Conductivity Electrode, K=10

- Measuring Range: 20  $\text{mS/cm}$  to 2,000  $\text{mS/cm}$
- Electrode Constant:  $K=10.0 \pm 1.5 \text{ cm}^{-1}$
- Dimension:  $\varnothing 12 \times 155 \text{ mm}$
- Connector: BNC/RCA – 3Ft cable

The built-in thermistor tests temperature simultaneously and allows for auto temperature compensation. It is ideal for both regular laboratory and in-field use.

Compatible Models: PC300, M1000, PC200. May NOT be compatible with other brands' meters because the temperature unit might be incompatible.



Thomas No.	Description	QTY
1146J04	CC-02 Conductivity Electrode (up to 2,000 $\text{mS/cm}$ , $K=10.0$ )	1/EA

Thomas No.	Description	QTY
1146J06	DO-01 Polarogram Type Dissolved Oxygen Electrode	1/EA
1146J07	Dissolved Oxygen Replacement Membrane Caps	1/EA
1146J08	Cathode Polishing Paper	1/EA

## DO-01 Dissolved Oxygen Electrode

The labForce DO-01 DO electrode contains automatic temperature compensation and automatic salinity compensation as well as automatic air pressure compensation.

This Polarogram type DO electrode uses a special calibration cap, speeding up the time required for polarization (3 to 5 minutes). The DO-01 Electrode uses a convenient combination diaphragm cap.

Each DO-01 electrode includes three spare diaphragms caps.



## ISE-01 Fluoride Ion-Selective Electrode

- Sensor Type: Solid State (LaF Crystal)
- Range: 0.02 to saturated
- Sample pH Range: 5-8
- Slope:  $57 \pm 2 \text{ mV/decade}$
- Interferences:  $\text{OH}^-$
- ABS plastic body with standard 12mm diameter and 120mm length
- Sealed, gel-filled double-junction reference
- Fixed solid state sensor
- Suitable for all general-purpose applications

The labForce ISE-01 Fluoride Ion-Selective Electrode (ISE) is a general-purpose, laboratory or field electrode offering affordable, low maintenance Fluoride analysis performance for many water applications.



Thomas No.	Description	QTY
1146J09	ISE-01 Fluoride Ion-Selective Electrode	1/EA



## ISE-02 Chloride Ion-Selective Electrode

Thomas No.	Description	QTY
1146J10	ISE-02 Chloride Ion-Selective Electrode	1/EA

- Range: 1.8-35,500 ppm
- Sample pH Range: 2-12
- Slope:  $56 \pm 3$  mV/decade
- Interferences:  $\text{CN}^-$ ,  $\text{Br}^-$ ,  $\text{I}^-$ ,  $\text{OH}^-$ ,  $\text{S}^{2-}$  must be absent,  $\text{NH}_3$
- ABS plastic body with standard 12mm diameter and 120mm length
- Sealed, gel-filled double-junction reference
- Fixed solid state sensor
- Suitable for all general-purpose applications



The labForce ISE-02 Chloride Ion-Selective Electrode (ISE) is a general-purpose, laboratory or field electrode offering affordable, low maintenance Chloride analysis performance for many water applications.

## ISE-03 Silver Ion-Selective Electrode

- Sensor Type: Solid State
- Range: 0.01-107,900 ppm
- Sample pH Range: 2-12
- Slope:  $57 \pm 2$  mV/decade
- Interferences:  $\text{Hg}^{2+}$
- ABS plastic body with standard 12mm diameter and 120mm length
- Sealed, gel-filled double-junction reference
- Fixed solid state sensor



Thomas No.	Description	QTY
1146J11	ISE-03 Silver Ion-Selective Electrode	1/EA

The labForce ISE-03 Silver Ion-Selective Electrode (ISE) is a general-purpose, laboratory or field electrode offering affordable, low maintenance Silver analysis performance for many water applications.

## ISE-04 Nitrate Ion-Selective Electrode

Thomas No.	Description	QTY
1146J12	ISE-04 Nitrate Ion-Selective Electrode	1/EA

- Sensor Type: PVC Membrane
- Range: 0.4-62,000 ppm (as  $\text{NO}_3^-$ )
- Sample pH Range: 2.5-11
- Slope:  $55 \pm 3$  mV/decade
- Interferences:  $\text{ClO}_4^-$ ,  $\text{I}^-$ ,  $\text{ClO}_3^-$ ,  $\text{F}^-$
- ABS plastic body with standard 12mm diameter and 120mm length
- Sealed, gel-filled double-junction reference
- Fixed sensor membrane (PVC-matrix type)
- Suitable for all general-purpose applications



The labForce ISE-04 Nitrate Ion-Selective Electrode (ISE) is a general-purpose, laboratory or field electrode offering affordable, low maintenance nitrate analysis performance for many water applications such as drinking water, agriculture applications and food/beverage.

## ISE-05 Potassium Ion-Selective Electrode

- Sensor Type: PVC Membrane
- Range: 0.04-39,000 ppm
- Sample pH Range: 2-12
- Slope:  $56 \pm 3$  mV/decade
- Interferences:  $\text{Cs}^+$ ,  $\text{NH}_4^+$ ,  $\text{Tl}^+$ ,  $\text{H}^+$ ,  $\text{Ag}^+$ ,  $\text{Tris}^+$ ,  $\text{Li}^+$ ,  $\text{Na}^+$
- ABS plastic body with standard 12mm diameter and 120mm length
- Sealed, gel-filled double-junction reference
- Fixed sensor membrane (PVC-matrix type)
- Suitable for all general-purpose applications



Thomas No.	Description	QTY
1146J13	ISE-05 Potassium Ion-Selective Electrode	1/EA

The labForce ISE-05 Potassium Ion-Selective Electrode (ISE) is a general-purpose, laboratory or field electrode offering affordable, low maintenance Potassium analysis performance for many water applications such as wastewater, agriculture applications and food/beverage.

# Electrodes

## ISE-06 Calcium Ion-Selective Electrode

Thomas No.	Description	QTY
1146J14	ISE-06 Calcium Ion-Selective Electrode	1/EA

- Range: 0.02-40,100 ppm
- Sample pH Range: 2-8
- Slope:  $26 \pm 2$  mV/decade
- Interferences:  $Pb^{2+}$ ,  $Hg^{2+}$ ,  $Si^{2+}$ ,  $Fe^{2+}$ ,  $Cu^{2+}$ ,  $Ni^{2+}$ ,  $NH_3$ ,  $Na^+$ ,  $Li^+$ ,  $Tris^+$ ,  $K^+$ ,  $Ba^{2+}$ ,  $Zn^{2+}$ ,  $Mg^{2+}$
- ABS plastic body with standard 12mm diameter and 120mm length
- Sealed, gel-filled double-junction reference
- Fixed sensor membrane (PVC-matrix type)
- Suitable for all general-purpose applications



The labForce ISE-06 Calcium Ion-Selective Electrode (ISE) is a general-purpose, laboratory or field electrode offering affordable, low maintenance Calcium analysis performance for many water applications such as beverages, milk, aquariums, and water hardness evaluations.

## ISE-07 Ammonia Ion-Selective Electrode

- Sensor Type: Gas-Sensing - glass pH with gas-permeable membrane
- Range: 0.01-17,000 ppm (as  $NH_3$ )
- Sample pH Range:  $>11$  (required by addition of ISA)
- Slope:  $56 \pm 3$  mV/decade
- Interferences: volatile amines (gaseous)
- Gas-sensing technology in a standard 12mm diameter and 120mm length
- The gas-permeable membranes can be replaced if they foul or tear
- This electrode correlates a pH change to the concentration of ammonia after the ammonia in the sample is made gaseous, by the addition of ISA ( $pH > 11$ )
- Suitable for all general-purpose or more advanced applications

Thomas No.	Description	QTY
1146J15	ISE-07 Ammonia ( $NH_3$ ) Ion-Selective Electrode	1/EA



The labForce ISE-07 Ammonia ( $NH_3$ ) Ion-Selective Electrode (ISE) is a general purpose, laboratory or field electrode offering convenient replaceable membrane modules and excellent performance.

## ISE-08 Sodium Ion-Selective Electrode

Thomas No.	Description	QTY
1146J16	ISE-08 Sodium Ion-Selective Electrode	1/EA

- Sensor Type: Solid State (glass membrane)
- Range: 0.1-23,000 ppm
- Sample pH Range:  $>9$
- Slope:  $55 \pm 3$  mV/decade
- Interferences:  $Hg^{2+}$
- Convenient sealed reference, and standard 12mm diameter and 120mm length
- The sealed, double-junction reference gives the electrode more longevity over sealed reference designs
- Suitable for all general-purpose or more advanced applications



The labForce ISE-08 Sodium Ion-Selective Electrode (ISE) is an affordable laboratory or field electrode offering good performance and longevity for Sodium analysis in many water applications like food & beverage analysis.

## ORP-01 General Purpose ORP Electrode

- Epoxy body with standard 12mm diameter and 120mm length
- Sealed, gel-filled reference with double junction
- Ceramic pin/pellon junction for great performance
- Suitable for all general-purpose applications

The labForce ORP-01 ORP Electrode is a general purpose, lab or field electrode offering affordable, low maintenance performance for many water applications.

Thomas No.	Description	QTY
1146J01	ORP-01 ORP Electrode - Polycarbonate body, sealed, gel-filled reference with double junction Ceramic pin/pellon junction	1/EA



## pHE-O1 Basic Combination pH Electrode

Thomas No.	Description	QTY
1146H92	pHE-O1 Combination pH Electrode, Polycarbonate, Gel, Single junction Ceramic, Reference Electrode: Ag/AgCl, BNC connector	1/EA

- Measurement Range: 0–14 pH, 0–80°C (32–176°F)
- Housing: Polycarbonate
- Junction: Single Ceramic
- Reference Electrode: Ag/AgCl
- Connector: BNC
- Size: ø12x160 mm
- Suitable for all general-purpose applications



Not suitable for testing in low-ion concentration solutions (eg: deionized water or distilled water), strong base solutions (pH>12), highly corrosive liquid, or for continuous testing in high temperature solutions (>140°F).

## pHE-O2 Basic 3-in-1 pH/Temperature Electrode

- Measurement Range: 0–14 pH, 0–80°C (32–176°F)
- Housing: Polycarbonate
- Junction: Single Ceramic
- Reference Electrode: Ag/AgCl
- Connector: BNC for pH, RCA for temperature
- Size: ø12x160 mm
- Temperature unit: 30KΩ Thermistor



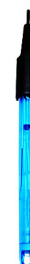
Thomas No.	Description	QTY
1146H93	pHE-O2 3-in-1 pH/Temp. Electrode, ATC - Gel KCL electrolyte adopted; No need for refilling	1/EA

Ideal for regular water solutions' pH measurement in scientific research, environmental monitoring, and quality control. Not suitable for testing in low-ion concentration solutions (eg: deionized water or distilled water), strong base solutions (pH>12), highly corrosive liquid, or for continuous testing in high temperature solutions (>140°F).

## pHE-O3 General Laboratory pH Electrode

Thomas No.	Description	QTY
1146H94	pHE-O3 pH Electrode, Epoxy body, sealed, gel-filled reference with double junction Ceramic pin/pellon junction	1/EA

- Epoxy body with standard 12mm diameter and 120mm length
- Sealed, gel-filled reference with a double junction
- Ceramic pin/pellon junction for great performance
- Suitable for all general-purpose applications



The labForce pHE-O3 pH Electrode is a general purpose, lab or field electrode offering affordable, low maintenance performance for many water applications.

## pHE-O4 Glass Combination pH Electrode

- Housing Material: Lead-free glass
- Temp. Sensor: No
- Junction: Ceramic
- Reference: Long-Life
- Electrolyte: 3M KCL
- Membrane Shape: hemispherical
- Range: 0-14 pH
- Temp. Range: -5 to 100°C (23 to 212°F)
- Connector: BNC



Thomas No.	Description	QTY
1146H95	pHE-O4 Glass Combination pH Electrode, refillable and TRIS buffer compatible	1/EA

Its blue hemispherical glass membrane has a faster response time, better repeatability, and built tough, highly resistant to general impact membrane; and can be tested in high temperature samples (up to 225°F).

## pHE-O6 Premium Glass pH Electrode

Thomas No.	Description	QTY
1146H97	pHE-O6 Refillable, Glass pH Electrode for low viscosity	1/EA

The moveable sleeve junction on the pHE-O6 electrode is easy to clean and suitable for low ion concentration solution and non-aqueous solution. The infiltration rate of the electrolyte is determined by the tightness of the sleeve during installation.

The unique blue hemispherical glass membrane is highly resistant to general impact and can be tested in high-temperature samples (up to 225°F).



# Electrodes

## pHE-05 3-in-1 Glass pH/Temperature Electrode

The labForce pHE-05 3-in-1 pH/Temp. Electrode Sensor is a temperature compensated pH Electrode, is ideal for precise regular water solutions and water pH testing in scientific research and quality control.

The unique blue hemispherical glass membrane provides faster response time, better repeatability, and built tough, highly resistant to general impact membrane, and can be tested in high-temperature samples (up to 225°F).



Thomas No.	Description	QTY
1146H96	pHE-05 3-in-1 Glass pH/Temp. Electrode, refillable and TRIS buffer compatible, with ATC	1/EA

## pHE-07 Premium Flat pH Electrode

Thomas No.	Description	QTY
1146H98	pHE-07 Flat pH Electrode - Epoxy body, sealed, gel-filled reference with single junction Ceramic pin/pellon junction	1/EA

- Plastic body with standard 12mm diameter and 120mm length
- Sealed, gel-filled reference with single junction
- Ceramic pin/pellon junction for great performance
- Suitable for all general-purpose applications

The labForce pHE-07 Flat pH Electrode is a general purpose, lab or field electrode offering affordable, low maintenance performance for water applications where a flat shaped pH sensor is more suitable.



## pHE-08 Micro pH Electrode

- Plastic body with 6mm diameter and 150mm length
- Sealed, gel-filled reference with a single junction
- Pellon junction for good performance
- Suitable for all general-purpose applications

The labForce pHE-08 Semi-Micro Electrode is a general purpose, lab or field electrode offering affordable, low maintenance performance for applications needing a small diameter body housing (6mm) and is also longer than standard (150mm).



Thomas No.	Description	QTY
1146H99	pHE-08 Micro pH Electrode	1/EA

Thomas No.	Description	QTY
20A00H170	PHE-09 Spear pH Electrode, with food-grade stainless steel sheath, ideal for soft-solid foods, BNC Connector	1/EA

## PHE-09 Spear pH Electrode, with Food-Grade Stainless Steel Sheath

The PHE-09 Spear pH Electrode has durable food-grade stainless steel sheath, solid electrolyte, and long-life reference system, making the probe hard to contaminate and maintenance-free.

Ideal for professional soft-solid food's pH measuring such as cheese, bread, fruit, sushi rice, meat, etc.



## PHE-10 Blade pH Electrode, Stainless Steel Sheath and Blade, Ideal for Meats

The PHE-10 Blade pH Electrode uses a durable food-grade stainless steel sheath and blade, solid electrolyte, and long-life reference system, making the probe hard to contaminate and maintenance-free. Ideal for measuring pH of meat such as fish, meat, and other meat products.

The electrode uses a BNC connector, compatible with all labForce pH meters. This is a replacement pH electrode for the TS-MB200 portable pH meter.



Thomas No.	Description	QTY
20A00H171	PHE-10 Blade pH Electrode, stainless steel sheath and blade, ideal for meats, BNC Connector	1/EA



# Electrodes



Thomas No.	Description	QTY
20A00H172	PHE-11 Glass 3-in-1 pH/Temp Electrode for Low Ion-Concentration Samples, BNC/RCA Connector	1/EA

## PHE-11 Glass 3-in-1 pH/Temp Electrode for Low Ion-Concentration Samples

The infiltration rate of the electrolyte is determined by the tightness of the sleeve, which can be customized by users to ensure the best performance in every specific sample.

Silver Ion Trap Reference System - The PHE-11 pH electrode uses a Silver Ion Trap reference system. On top of the Long-Life reference system, a silver ion trap is added to prevent the junction being blocked by silver sulfide.



## PHE-12 Glass 3-in-1 pH/Temp Electrode for Dairy

The rugged blue hemispherical glass membrane - faster response time, better repeatability, and built tough, highly resistant to general impact; and can be tested in high-temperature samples (up to 225°F).

The electrode uses a BNC/RCA connector, compatible with all labForce pH meters.



Thomas No.	Description	QTY
20A00H173	PHE-12 Glass 3-in-1 pH/Temp Electrode for Dairy, BNC/RCA Connector	1/EA

Thomas No.	Description	QTY
20A00H174	PHE-13 POM 3-in-1 pH/Temp Electrode for Direct Soil pH Testing, BNC Connector	1/EA

## PHE-13 POM 3-in-1 pH/Temp Electrode for Direct Soil pH Testing

Polymer Electrolyte - The solid polymer electrolyte makes the electrode hard to contaminate and maintenance-free. Special Glass Membrane, The PHE-13 pH electrode uses a spear sensor tip, ideal for directly testing semi-solid samples like soil.

This is a replacement electrode for the TS-S200 portable pH meter. Also compatible with all labForce pH meters.



## PHE-14 Glass Combination pH/Temp Electrode for Semi-micro Samples (>0.2mL)

Unique Glass Membrane - PHE-14 pH electrode uses a semi-micro cylindrical glass membrane (6mm in diameter), making small-sample pH testing easier than ever, and can be tested in high-temperature samples (up to 212°F).

This is a replacement electrode for the TS-SS200 portable pH meter.



Thomas No.	Description	QTY
20A00H175	PHE-14 Glass Combination pH/Temp Electrode for Semi-micro Samples (>0.2mL), BNC/RCA Connector	1/EA

Thomas No.	Description	QTY
20A00H176	PHE-15 Glass Combination pH Electrode for Strong Acid Samples, BNC Connector	1/EA

## PHE-15 Glass Combination pH Electrode for Strong Acid Samples

Unique Glass Membrane - The PHE-15 HF glass membrane, which has a faster response rate, better repeatability in strong acid samples, and resistant to hydrofluoric corrosion.

The electrode uses a BNC connector, compatible with all labForce pH meters.



## PHE-16 Glass Combination pH Electrode for Strong Base Solutions

Unique Glass Membrane - The PHE-16 pH Electrode uses a special H glass membrane, with better accuracy and repeatability in strong base solutions; the hemispherical sensor is built tough and highly resistant to general impact.

The electrode uses a BNC connector, compatible with any labForce pH meters.



Thomas No.	Description	QTY
20A00H177	PHE-16 Glass Combination pH Electrode for Strong Base Solutions, BNC Connector	1/EA

# Electrodes

## PHE-17 Glass Combination Micro pH Electrode (4mm) for Samples >30 MI

Thomas No.	Description	QTY
20A00H178	PHE-17 Glass Combination Micro pH Electrode (4mm) for Samples >30 mL, BNC Connector	1/EA

Unique Glass Membrane - The PHE-17 pH electrode uses a micro cylindrical glass membrane (4mm in diameter), making micro-sample pH testing easier than ever, and can be tested in high-temperature samples (up to 212°F).

The electrode uses a BNC connector, compatible with any labForce pH meters.



## PHE-18 Glass Spear pH Electrode for Semi-Solid Samples

The PHE-18 pH electrode uses a spear glass membrane, which is ideal for testing semi-solid samples and can be used to test high-temperature samples (up to 176°F).

The electrode uses a BNC connector, compatible with all labForce pH meters.



Thomas No.	Description	QTY
20A00H179	PHE-18 Glass Spear pH Electrode for Semi-Solid Samples, BNC Connector	1/EA

## PHE-19 Glass Combination pH Electrode for Low Temperature Solutions

Thomas No.	Description	QTY
20A00H180	PHE-19 Glass Combination pH Electrode for Low Temperature Solutions, BNC Connector	1/EA

The PHE-19 pH electrode uses a low-impedance glass membrane, especially suitable for low-temperature sample testing.

The electrode uses a BNC connector, compatible with all labForce pH meters.



## PHE-20 POM 3-in-1 pH/Temp Electrode for Wastewater Treatment

- The unique blue glass membrane has a faster response rate, better repeatability, and impact-resistance
- POM housing, highly resistant to corrosions
- The electrode uses a BNC/RCA connector, compatible with all labForce pH meters
- This is a replacement pH electrode for the labForce WW200 Portable pH Meter



Thomas No.	Description	QTY
20A00H181	PHE-20 POM 3-in-1 pH/Temp Electrode for Wastewater Treatment, BNC/RCA Connector	1/EA

## REF-O1 Double Junction Reference Electrode

Thomas No.	Description	QTY
1146J00	REF-O1 Double Junction Reference Electrode	1/EA

- Solution: options of the first salt bridge solution and the second salt bridge solution
- Reference Electrode: Ag/AgCl
- Junction: Ceramic
- Dimension:  $\Phi 12 \times 155$ mm
- Compatible labForce meters: ISE500 and M1000. May NOT work with other brands' meters



## Fiber Optic Illuminators

150 Watt Variable intensity Halogen Light Source with Dual Gooseneck, bifurcated or two each 18" flexible and self-supporting fiber optic light guides with chrome sheathing.



Thomas No.	Description	QTY
1191F06	150 Watt Light Source with Bifurcated Fiber Optic Light Guide	1/EA

# Incubators & Electrophoresis System

## Mini Digital Incubators

- Digital temperature control
- Personal sized, 13 x 14.5" footprint (20L)
- Accepts bottles and flasks up to 2L
- Two models: Heat Only or Heat/Cool
- Internal outlet, for installation of shaker, rockers, etc.

With digital temperature control, the labForce Mini Digital Incubators provide convenient "set and walk away" operation, eliminating the need for external thermometers and repetitive "fine tuning" of an analog control knob.

Simply choose the desired temperature and the incubator immediately begins to heat up (or cool down, -HC model only) while accurately monitoring the chamber temperature and conveniently displaying the temperature in real time on the large LED control panel.



Thomas No.	Description	QTY
1154J59	Mini Digital Incubator, with heating only, 115V	1/EA
1154J60	Mini Digital Incubator, with heating only, 230V	1/EA
1154J61	Mini Digital Incubator, with heating and cooling, 115V	1/EA
1154J62	Mini Digital Incubator, with heating and cooling, 230V	1/EA

Thomas No.	Description	QTY
1154J36	Mini Shaking Incubator with non-slip rubber mat, 115V	1/EA
1154J37	Mini Shaking Incubator with non-slip rubber mat, 230V	1/EA

## Therma-Shaker™ Mini Shaking Incubators

- Extremely compact, just 11" wide
- TOUCH Screen control over time, speed, and temperature
- Horizontally circular 19mm orbit for aeration & mixing
- Program STEP feature for linking consecutive programs

The labForce Therma-Shaker™ Mini Shaking Incubator is the most compact shaking incubator in its class. Despite the remarkably small footprint, a large 11.5 x 9.5 in. work space accepts several platforms and a variety of flasks, tubes and other common vessels.



## Band-It™ Mini Electrophoresis System

- Complete system, includes gel box, power supply and casting sets
- Quick and easy gel casting, no tape, clamps, or spacers required
- Compact design, footprint: 7 x 5.1 in.

The labForce Band-It™ Mini electrophoresis system includes all the equipment that you need to get up and running gel tank, power supply and two casting sets. Ideal for personal use, small laboratories or the classroom, this gel box/power supply combination is compact and easy to use.

The Band-It mini gel box attaches directly to the power supply for a secure connection every time. Selectable parameters include 3 preset voltages – 35V, 50V or 100V – and a 99-minute timer. All are set using the membrane keypad.



Thomas No.	Description	QTY
1154J34	Band-It Electrophoresis System, 115V	1/EA
1154J35	Band-It Electrophoresis System, 230V	1/EA

# Dry Baths

## IncuBlock™ Mini Dry Baths

- Compact, fits on any crowded benchtop
- Exchangeable blocks for 0.2 to 50ml tubes
- Simple touchpad, digital control
- Blocks sold separately

With its compact construction, broad temperature range, and multiple block options, the IncuBlock™ Mini is the perfect tool for laboratory incubations. The simple touch pad controls and a digital display provide for “set and walk away” temperature selection and unrivaled accuracy.



Thomas No.	Description	QTY
1154J48	IncuBlock Mini Dry Bath, 100-240V (US Plug)	1/EA
1154J50	Block, 40 x 0.2mL tubes or 5 PCR strips	1/EA
1154J53	Block, 4 x 15mL centrifuge tubes	1/EA
1154J56	12V Vehicle Power Adapter	1/EA

**\*For more sizes and information, please visit [thomassci.com](http://thomassci.com)**

**[www.thomassci.com/Equipment/Heating-and-Cooling-Blocks/](http://www.thomassci.com/Equipment/Heating-and-Cooling-Blocks/) /IncuBlock-Mini-Dry-Baths**

Thomas No.	Description	QTY
1154J44	Digital Dry Bath, Single Chamber, without blocks, 115V	1/EA
1154J45	Digital Dry Bath, Single Chamber, without blocks, 230V	1/EA
1154J46	Digital Dry Bath, Dual Chamber, without blocks, 115V	1/EA
1154J47	Digital Dry Bath, Dual Chamber, without blocks, 230V	1/EA

## IncuBlock™ Plus Digital Dry Baths

- Digital temperature control (set and walk away)
- Hinged lid (improves uniformity & conserves energy)
- External (optional) temperature probe (measures actual sample temperature)
- Available with Quick-Flip universal blocks (supports all common tube sizes, PCR strips and PCR plates)
- Blocks sold separately

labForce's IncuBlock™ Plus series is a “next generation” product line that introduces several major advantages over traditional dry baths. They are the first digital dry baths to include advanced microprocessor controls, timed or continuous operation and a removable hinged lid.



## Traditional Digital Dry Baths

- Digital accuracy and convenience
- Single, double and four block capacity
- Assorted blocks for a wide variety of tube sizes
- Blocks sold separately

The cavities of the high-grade aluminum blocks are precision machined to match the conical size and shape of 0.5, 1.5, 2.0, 15 and 50ml tube sizes, providing unsurpassed temperature transfer. Assorted blocks are available for compatibility with nearly all common laboratory tubes and plates.



Thomas No.	Description	QTY
1154J38	Digital Dry Bath, Single Position, 115V (without blocks)	1/EA
1154J39	Digital Dry Bath, Single Position, 230V (without blocks)	1/EA
1154J40	Digital Dry Bath, Dual Position, 115V (without blocks)	1/EA
1154J41	Digital Dry Bath, Dual Position, 230V (without blocks)	1/EA
1154J42	Digital Dry Bath, 4 Position, 115V (without blocks)	1/EA
1154J43	Digital Dry Bath, 4 Position, 230V (without blocks)	1/EA



# Thermal Cyclers & Tables

Thomas No.	Description	QTY
1154J63	Gradient Thermal Cycler with multi-format block (US Plug)	1/EA
1154J64	Gradient Thermal Cycler with multi-format block (European Plug)	1/EA
1154J65	In-Situ Adapter for use with Gradient Thermal Cycler (multi-format block model only)	1/EA
1154J66	Gradient Thermal Cycler with 384 well block (US Plug)	1/EA
1154J67	Gradient Thermal Cycler with 384 well block (European Plug)	1/EA

## Thermal Cyclers

- Intuitive touch screen control
- Program Wizard - quick, easy & foolproof
- Unique multi-format block: 0.2ml tubes or strips (96), 0.5ml tubes (39), 96 well plate (1)

A large, full color touch screen serves as the operations center where all functions are accessed. From the "Home" screen, simply touch an icon to view the last run program, enter the program library, or use the program wizard to quickly enter a protocol. In addition, icons for favorite programs can be added for faster access.



## Mini Thermal Cyclers

- "Mini" sized, 9 x 7 inch footprint
- Capacity for 32 x 0.2ml or 4 PCR Strips
- Intuitive touch screen control
- Program Wizard with familiar icon driven programming

"Mini sized" doesn't have to mean a sacrifice on features and performance. The labForce Mini Thermal Cycler retains the advanced programming features, easy to use software and fast, reliable cycling of the larger labForce Thermal Cycler, but with a smaller block and lower price point.



Thomas No.	Description	QTY
1154J68	Mini Thermal Cycler with multi-format block (US Plug)	1/EA
1154J69	Mini Thermal Cycler with multi-format block (European Plug)	1/EA

## Mild Steel Anti-Vibration Table

Thomas No.	Description	QTY
20A00H201	Mild Steel Anti-Vibration Table	1/EA

- 770mm Length
- 650mm Width
- 815mm Height with 10mm higher or lower adjustment
- Weighs 60kg

Antivibration table with granite insert to aid in measurement stability. The base construction is powder coated steel with a HPL board top. The table features adjustable leveling feet to aid in stabilization of the table.



## Stainless Steel Anti-Vibration Table

Antivibration table with granite insert to aid in measurement stability. The table is fully constructed from stainless steel. The table features adjustable leveling feet to aid in stabilization of the table.



Thomas No.	Description	QTY
20A00H202	Stainless Steel Anti-Vibration Table	1/EA

# Anti-Static Ionizers & MicroSterilizers

## Anti-Static Ionizer

Thomas No.	Description	QTY
20A00H198	Anti-Static Ionizer for TS-U Series Balances	1/EA

Anti-static ionizer used to remove overflow of plus/minus ions from the balance environment. The ionizer neutralizes the electrical charges in the air to aid in the balances performance of measurements when unwanted electrical influences are present. Frame dimensions of 175 x 70 x 172mm.



## Anti-Static Ionizer

Anti-static ionizer used to remove overflow of plus/minus ions from the balance environment. The ionizer neutralizes the electrical charges in the air to aid in the balances performance of measurements when unwanted electrical influences are present. Frame dimensions of 268 x 100 x 295mm.



Thomas No.	Description	QTY
20A00H199	Anti-Static Ionizer	1/EA

Thomas No.	Description	QTY
1154J15	Infrared MicroSterilizer, 120V (AMERICAN PLUG)	1/EA
1154J16	Infrared MicroSterilizer, 230V (EUROPEAN PLUG)	1/EA
1154J17	Loop Holder Attachment	1/EA
1154J18	Slide Dryer Attachment	1/EA

## Infrared MicroSterilizers

- Complete sterilization of loops, and tube mouths
- Safe, convenient and no spatter
- Eliminates the need for an open flame
- Ideal for research laboratories

The labForce MicroSterilizer is a research sterilizer that utilizes an asbestos-free core element that uses intense heating to produce 815°C (1500°F). It completely sterilizes in 5-7 seconds. The MicroSterilizer uses well-proven technology to provide instant sterilization of platinum inoculating loops, glass tube/pipette mouths and various metal & borosilicate glass instruments used in quality control and research.



## TILT Infrared MicroSterilizers

- Adjustable tilt angle, for more ergonomic inoculation (reduces hand fatigue)
- Same convenient operation as our popular "Classic" model
- Available as "XL", with wide chamber for sterilizing large vessels (tubes, flask mouths, etc.)

The labForce TILT Series utilizes the same well-proven technology of our original Infrared MicroSterilizer, but with a unique, adjustable head angle that allows for more convenient sterilization. When loosened, the adjustment knob can be shifted upward or downward, resulting in a tilt angle range of 55°C.



Thomas No.	Description	QTY
1140U39	TILT Infrared MicroSterilizer, 120V	1/EA
1140U40	TILT Infrared MicroSterilizer, 230V	1/EA
1140U41	TILT XL Infrared MicroSterilizer, 120V	1/EA
1140U42	TILT XL Infrared MicroSterilizer, 230V	1/EA

# Pipettors & Accessories



Thomas No.	Description	QTY
1159Z40	Sharp™ 8-Channel Pipettor, 0.5-10µL	1/EA
1159Z41	Sharp™ 8-Channel Pipettor, 20-200µL	1/EA
1159Z42	Sharp™ 8-Channel Pipettor, 50-300µL	1/EA
1159Z43	Sharp™ 8-Channel Pipettor, 5-50µL	1/EA

## Sharp™ Multi Channel Pipettor

- Dual volume setting system
- Adjustable ejector (NEW "klik-to-fix" system)
- Universal shaft
- Durable sealing system effective for 60,000 cycles
- Fully autoclavable, UV resistant
- Large pipetting pushbutton, color coded
- Contoured handle
- Soft spring system minimizes hand fatigue



Sharp™ Pipettors provide both accurate and precise liquid dispensing in a comfortable ergonomic design, dual volume setting and a volume lock to avoid volume changes during routine pipetting.

**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**

**[www.thomassci.com/Equipment/Multichannel-Pipettors/](http://www.thomassci.com/Equipment/Multichannel-Pipettors/) / [Denville-Ultra-EZpette-Multichannel-High-Precision-Digital-Pipettors](http://Denville-Ultra-EZpette-Multichannel-High-Precision-Digital-Pipettors)**

## SHARP™ Single Channel High Precision Pipettors

- Dual volume setting system
- Adjustable ejector (NEW "klik-to-fix" system)
- Universal shaft
- Durable sealing system effective for 60,000 cycles
- Fully autoclavable, UV resistant
- Large pipetting pushbutton, color coded
- Contoured handle
- Soft spring system minimizes hand fatigue



Thomas No.	Description	QTY
1159Z23	SHARP™ Single Channel Pipettor, 1,000-10,000µL	1/EA
1159Z25	SHARP™ Single Channel Pipettor, 100-1,000µL	1/EA
1159Z27	SHARP™ Single Channel Pipettor, 10-100µL	1/EA
1159Z29	SHARP™ Single Channel Pipettor, 0.5-10 µL	1/EA

SHARP™ Pipettor is fully autoclavable. Eight models cover the volume range from 0.1µL to 10,000µL. A calibration tool is included with each unit for easy in-lab recalibration. Pipettes are individually tested and supplied with a certificate of quality.

**\*For more sizes, please visit [thomassci.com](http://thomassci.com)**

**[www.thomassci.com/Equipment/Single-Channel-Pipettors/](http://www.thomassci.com/Equipment/Single-Channel-Pipettors/) / [Denville-Ultra-EZpette-Single-Channel-High-Precision-Digital-Pipettors](http://Denville-Ultra-EZpette-Single-Channel-High-Precision-Digital-Pipettors)**

## labForce™ Motorized Pipette Controller

Thomas No.	Description	QTY
1159Z16	labForce™ Motorized Pipette Controller	1/EA

- Lightweight, ergonomic
- 0.5 to 100 mL pipette range
- Large LCD display
- Autoclavable
- Motorized and Ergonomic



The labForce™ Pipette Controller — Lightweight and ergonomically shaped motorized pipette controller designed for work with glass or plastic serological pipettes from 0.5 to 100 ml range. Conveniently positioned switches allow choosing different operation modes and speed depending on the volume of the serological pipette and liquid viscosity.

## 6-Place Pipette Stand

labForce six place pipette holder that accepts most major brands of pipettes. The pipette stand is made of durable, 3/16" acrylic for years of use. The skid resistant feet will prevent the stand from sliding on your bench top. Dimension: 11"W x 9.25"H X 6"D.



Thomas No.	Description	QTY
1140H35	Pipette Stand, 6-Place, Clear Acrylic	1/EA

# Thomas Wiley® Mini Cutting Mills



## Thomas Wiley® Mini Cutting Mills

NEW and improved! The Thomas Wiley® Mini-Mill is our smallest cutting mill - but still Wiley® tough

### **1171H10: Mini Cutting Mill:**

- 1171H10 is designed with a machine tool type of cartridge spindle, small powerful motor with a operational speed of 1,750 rpms with high torque. The chamber door comes standard with a door safety switch and the machine has legs to set on top of a benchtop or the legs can be removed, and the machine can be bolted directly to a benchtop.

### **1173U48: Variable Speed Mini Cutting Mill:**

- 1173U48 is designed with a machine tool type of cartridge spindle, small powerful servo motor which allows for variable speed operation of 0 - 2,400 rpms with high torque. The chamber door comes standard with a door safety switch and the machine has legs to set on top of a benchtop or the legs can be removed, and the machine can be bolted directly to a benchtop.

Units are supplied with stainless steel hopper including cover, wooden plunger, one rotating cutting head, one set of stationary blades, three (3) stainless steel sieves (20, 40 & 60 mesh), one jar adapter, one 4oz collection jar, and cleaning brush.

Thomas No.	Description	QTY
1171H10	Wiley® Mini Cutting Mill, 115V 50/60Hz	1/Ea
1173U48	Wiley® Variable Speed Mini Cutting Mill, 115/230V 50/60Hz (Dual Voltage)	1/Ea
1157G46	Stainless Steel 10 Mesh Sieve	1/Ea
1157G47	Stainless Steel 20 Mesh Sieve	1/Ea
1157G48	Stainless Steel 40 Mesh Sieve	1/Ea
1157G49	Stainless Steel 60 Mesh Sieve	1/Ea
1157G50	Stainless Steel 80 Mesh Sieve	1/Ea
1157G51	Stainless Steel 100 Mesh Sieve	1/Ea

**\*For more options and information, please visit [thomassci.com](https://www.thomassci.com)**  
<https://www.thomassci.com/Equipment/Mills/> /[Thomas-Wiley-Mini-Cutting-Mills](https://www.thomassci.com/Equipment/Mills/)



# Thomas Wiley® Mini Mill Accessories

## Thomas Wiley® Mini-Mill Accessories

**Blade Set:** 3383M05 set is of tool steel. 3383M10 set is of stainless steel.

**Hopper:** Stainless steel, 2.5" dia. x 2.5" deep (64 x 64 mm), with cover.

**Wooden Plunger:** For ramming sample materials into neck of hopper on Mini-Mills.

**Delivery Units:** Nickel plated with Monel gauze top. Complete units, including the removable 3383M95 receiver. Gauze tops are soldered to delivery tubes.

**Nickel-Plated Delivery Tubes:** Standalone delivery tubes. Receiver must be purchased separately.

**Stainless Steel Delivery Tubes:** Standalone delivery tubes. Receiver must be purchased separately.

**Rotors:** With four cutting edges; for replacement in Wiley® Mini-Mills. 3383N45 rotor is for mills 3383L10 through L40. 3383N50 stainless steel rotor is for replacement only in stainless steel models 3383L60 and L70.

The two rotors are different sizes and cannot be interchanged.

**Front Glass Plate:** Safety glass, 75 mm square, for all Wiley® Mini-Mills.

**Belt Guard:** Steel construction, completely encloses belt and pulleys. As supplied on all Wiley® Mini-Mills after 1972. For mills prior to 1972 please ask about 0379W54.

**Belt:** V-shaped, 9.5 mm wide at top, 533 mm (21") outside circumference. For Wiley® Mini-Mills.

**Adapter:** Plastic screw cap, size 58, with metal coupler of square cross-section to fit bottom of delivery tubes of Wiley® Mini-Mills. Fits threaded containers such as 4 ounce (120 mL) 6180H19 jars, which are supplied with the mills. Broached cap to take removable coupler is listed as 3383N70.

Thomas No.	Description	QTY
3383M05	Blade Set	2/St
3383M10	Blade Set, Stainless Steel	2/St

## Thomas Wiley® Mill Sharpening Services

Thomas Scientific offers a sharpening service for our Wiley Mill® models:

- Rotating Cutter Head Sharpening Service for Wiley® Mini Mill
- Blade Sharpening Service (for entire Set of 10) for Model 4 Wiley® Mill

In order to have the desired service performed, please follow these steps outlined below:

**Ordering a Sharpening Service:** Enter the desired service from the item list below into your cart just like a standard product. Check out as you normally would. There is also the option to call into our Customer Service at 800-345-2100 and order Thomas part no. 1155N49 (Rotating Cutter Head Sharpening Service for Wiley® Mini Mill) or 1155N50 (Blade Sharpening for Wiley® Model 4 Mill).

**Complete the Exposure/Decontamination Statement Form:** The Exposure/Decontamination Statement Form, located on the Additional Info tab, must be downloaded, completed, and submitted along. Be sure to include your Thomas Scientific Sales Order number (provided once Step 2 has been completed) and Shipping Account number information. A \$175.00 decontamination fee will be applied for any instrument returned without a completed and signed Exposure/Decontamination Statement.

**Ship Product & Exposure/Decontamination Form:** Please ensure product is packed securely to ensure integrity of the product during shipping. The Thomas Scientific SO Number and Exposure/Decontamination Statement Form must be placed on the outside of the package. Ship the product you wish to be sharpened, along with the completed form to the address provided.

Please allow 4 weeks for sharpening services to be processed and completed.

Thomas No.	Description	QTY
1155N49	Rotating Cutter Head Sharpening Service for Wiley® Mini Mill	2/St
1155N50	Blade Sharpening Service (for entire Set of 10) for Model 4 Wiley® Mill	2/St

# Thomas Wiley® Mini Cutting Mills



## Thomas Model 4 Wiley® Mill

NEW & Improved! The Thomas Model 4 Wiley® Mill is ideal for the sample preparation of solid biofuels according to EN 14780.

- Official Methods of Analysis AOAC 922
- Moving parts are totally enclosed
- 7 3/4" diameter milling chamber - 141 cu. in.
- 2 1/4" diameter sample input
- 50 to 1,000 gram sample volume
- Single speed - 800 rpm at 60 Hz or 667 rpm at 50 Hz
- All steel construction

**Shearing Action:** The four adjustable hard tool steel knives are bolted to a removable rotor. These knives work against six stationary knives bolted into the frame. The shearing action tends to avoid changes in the sample due to temperature increase, moisture loss, liquefaction, contamination, etc. caused by crushing and abrasion methods. The clearance of opposing knives is precisely adjusted for shearing clearance. Each stationary knife is independently adjustable. The fan effect of knives provides increased throughput and quick clearing of the chamber.

**Grinding Chamber:** The steel chamber measures 197 mm inside diameter x 76 mm deep. The hinged, heavy steel plate door provides full access to the chamber for cleaning. The clamping bolt with handwheel seals door against mill face. The neoprene shaft seal at rear of chamber prevents lubricant from seeping in while also protecting the ball bearings of the rotor shaft from sample dust.

**Knives:** The inlaid edges are specially formulated tool steel, tempered and hardened for durability and optimal cutting. Knife body is made of softer steel to absorb shocks and minimize breakage. Stainless steel knives are also available for milling corrosive materials.

**Hopper:** Steel hopper with enameled exterior finish is mounted to the top of grinding chamber with two thumbscrews. Capacity is approximately 550 mL. Includes a tight-fitting lid. Sliding stainless steel plate at base of hopper controls feeding rate. Dimensions: 4 1/2" top internal diameter x 2 1/4" throat internal diameter x 8 1/2" depth.

**Sieves:** 316 Stainless steel, curved round-hole screens are shaped to fit against the top of the delivery chute block so that samples cannot enter chute without passing through the screen. The chute block is released by two handwheels for easy interchanging of sieves.

**Receivers:** Adapter chutes slide into a spring-loaded holder beneath the chute block to collect product in a glass jar or stainless steel beaker. The two chutes included with the mill can be interchanged without opening mill door. Clearance below chute is 140 mm to base of bench models, permitting the use of standard receivers even if mill is placed back from edge of bench. Clearance below chute of stand mounted mills is 495 mm.

Thomas No.	Description	QTY
1188Y47	Model 4 Wiley Mill, 115V, 50/60Hz	1/Ea
1188Y48	Model 4 Wiley Mill, 230V, 50/60Hz	1/Ea
1188Y51	Model 4 Wiley Mill, w/ Floor Stand, 115V, 50/60Hz	1/Ea
1188Y52	Model 4 Wiley Mill, w/ Floor Stand, 230V, 50/60Hz	1/Ea
1188Y54	Floor Stand	1/Ea
1188Y56	304 Stainless Steel Stand	1/Ea
1188Y57	Stainless Steel Hopper	1/Ea
1188Y58	60 Mesh Stainless Steel 316 Sieve	1/Ea

Thomas No.	Description	QTY
1188Y59	0.5mm Stainless Steel 316 Sieve	1/Ea
1188Y60	1mm Stainless Steel 316 Sieve	1/Ea
1188Y61	2mm Stainless Steel 316 Sieve	1/Ea
1188Y62	3mm Stainless Steel 316 Sieve	1/Ea
1188Y63	4mm Stainless Steel 316 Sieve	1/Ea
1188Y64	5mm Stainless Steel 316 Sieve	1/Ea
1188Y65	6mm Stainless Steel 316 Sieve	4/Pk

\*For more options and information, please visit [thomassci.com](http://thomassci.com)

[https://www.thomassci.com/Equipment/Mills/\\_/Thomas-Model-4-Wiley-Mill2](https://www.thomassci.com/Equipment/Mills/_/Thomas-Model-4-Wiley-Mill2)



## Accessories and Replacement Parts Thomas Model 4 Wiley® Mill

### **Revolving Knife Sets**

For replacement of rotor knives on Wiley® Model 4 Mills; suitable also for former models 1, 2 and 3 mills  
Sold in matched sets of four to ensure uniform distance of cutting edges from center of rotor  
3375F15 knives, for corrosive conditions, are type 440-C stainless steel, hardness 60 HRC and are slightly magnetized.

### **Stationary Knife Sets**

For replacement of the frame-mounted knives in Wiley® Model 4 Mills (knives for former models 1, 2 and 3 are listed under 3376T70 and T75)  
3375F25 knife is stainless steel, for use in conjunction with 3375F15 Revolving Knife Set.

### **Sieves**

Curved screens, of stainless steel Type 304, with round perforations of diameter indicated  
Usable interchangeably in Wiley® Model 4 Mills, which regularly include sizes 1/2, 1 and 2 mm

### **Replacement Parts**

3376T75 knives are stainless steel, slightly magnetized, used in conjunction with 3375F15 Revolving Knife Set.

Thomas No.	Description	QTY
3375G35	Sieve, 5 mm	1/Ea
3375G40	Sieve, 6 mm	1/Ea
21A00B683	Knife for Legacy Model 4 Mill	1/Ea
3375F10	Knife Set, Revolving for Legacy Model 4 Mill	4/St
3375F15	Knife Set, Revolving, Stainless Steel, for Legacy Model 4 Mill	4/St
3375F25	Knife, Stainless Steel, for Legacy Model 4 Mill	1/Ea



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