



Education



*Do More With OHAUS*



*Ingeniously Practical*

# Contents

## **Analytical & Precision Balances**

Adventurer® Analytical .....	1
Adventurer® Precision.....	2
Pioneer® Analytical .....	4
Pioneer® Precision .....	5

## **Portable Balances**

Scout® STX .....	6
Scout® SKX .....	7
Navigator® NV .....	8
CS Series .....	9
CL Series.....	10
HH Series .....	10
PS Series.....	11

## **Centrifuges**

Frontier™ Series.....	12
-----------------------	----

## **pH/ORP/Conductivity/ DO Measurement**

Starter 5000 pH Bench.....	13
Starter 3100M Bench.....	14
Starter 3100 pH Bench.....	15
Starter 3100C Cond. Bench.....	16
Starter 2100 pH Bench.....	17
Starter 300 pH Portable.....	18
Starter 300C Cond. Portable .....	19
Starter 300D DO Portable.....	20
Starter 400D DO Portable.....	21
Starter Pen Meters.....	22
Starter Electrodes .....	24

## **Mechanical Scales & Balances**

Triple Beam Pro® .....	25
Triple Beam 700 Series.....	26
Triple Beam Junior .....	27
Triple Beam Dial-O-Gram® Series.....	27
Dial-O-Gram® and Cent-O-Gram® .....	28
Harvard Junior .....	28
Harvard Trip® .....	29
School Balance .....	30
Primer® Balance.....	30
Spring Scales .....	31
Pull Type Spring Scales .....	31
Dial Type Spring Scales.....	31

## **Compact Bench Scales**

Catapult® 1000 .....	32
----------------------	----

## **Calibration Weights**

ASTM Weights & Weight Sets .....	33
NIST Weights & Weight Sets.....	34

## **Open Air Shakers**

Light Duty Orbital Shakers.....	47
---------------------------------	----

## **Vortex Mixers**

Mini Vortex Mixers.....	49
-------------------------	----

## **Dry Block Heaters**

Dry Block Heaters .....	52
-------------------------	----

## **Hotplates & Stirrers**

Mini Hotplates & Stirrers .....	54
---------------------------------	----

# Analytical & Precision Balances

## Adventurer® Analytical

Ready For Your Lab, Wherever That May Be

- Fast stabilization and reliable operation are enhanced by the AutoCal™ option to ensure solid weighing performance and accurate, repeatable results for standard laboratory applications.
- The wide viewing angle color touchscreen provides access to all of Adventurer's applications, while dual USB ports with GLP/GMP tracking capabilities assist in the monitoring and reporting of data.
- The two piece, top-mounted draftshield doors reduce the footprint of the doors in the rear of the balance when open, and open wide on both sides in order to provide ample room to place samples.



Model	Auto-Cal™	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
AX124	•	120 g	0.1 mg	—	Ø 3.5 in / Ø 90 mm	30100600	3090
AX124/E						30100601	2757
AX224	•	220 g				30100602	3399
AX224/E						30100603	3053
AX324	•	320 g				30100604	3820

Approved Model	Auto-Cal™	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
AX224N	•	220 g	0.1 mg	1 mg	Ø 3.5 in / Ø 90 mm	30100630	3677

Accessories	Item No.	Price USD
Ink Ribbon, SF40A SF42A	12120798	44
Paper Roll, Set (2), 57.5mm, SF40A	12120799	14
Cable, RS9 M/F, 1.5 m	12122603	155
Printer, Impact, SF40A, AM	30064203	798
Dust Cover, Balance with Draft Shield	30093334	39
SP In-Use-Cover wo DS AX	30111777	23
SP In-Use-Cover DS AX	30111792	23
Auxiliary Display, PAD7, PA AX EX	80251396	54
Paper Roll, (1), Thermal, STP103	80251931	16
Printer, Thermal, STP-103, US	80251992	622
Cable, ST103-AV DV EX MB PA TxxP	80252581	155
Density Kit, Solids	80253384	624
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	155
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	155
Anti-Theft Device, MB AX EX	80850043	185
Cable, USB, Type A-B	83021085	155

# Analytical & Precision Balances

## Adventurer® Precision

Ready For Your Lab, Wherever That May Be

- Fast stabilization and reliable operation are enhanced by the AutoCal™ option to ensure solid weighing performance and accurate, repeatable results for standard laboratory applications.
- The wide viewing angle color touchscreen provides access to all of Adventurer's applications, while dual USB ports with GLP/GMP tracking capabilities assist in the monitoring and reporting of data.
- The 1 mg models have a two piece, top-mounted draftshield with doors that open wide, providing ample room for sample placement, while the 0.01 g and 0.1 g models feature large weighing pans.



Model	Auto-Cal™	Draft Shield	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
AX223	•	•	220 g	1 mg	—	Ø 5.1 in / Ø 130 mm	30100605	1804
AX223/E							30100606	1574
AX423	•		420 g				30100607	2122
AX423/E							30100608	1827
AX523	•		520 g				30100609	2441
AX523/E							30100610	2132
AX622	•	•	620 g	0.01 g	—	7.7 in x 6.9 in / 195 mm x 175 mm	30122632	1486
AX422/E			420 g				30127981	965
AX822/E			820 g				30127983	1218
AX1502	•		1520 g				30100611	1804
AX1502/E							30100612	1523
AX2202	•		2200 g				30100613	2016
AX2202/E							30100614	1726
AX4202	•		4200 g				30100615	2334
AX4202/E							30100616	2030
AX5202	•		5200 g				30100617	2547
AX2201/E			2200 g				30248912	994
AX4201	•		4200 g				30122634	1406
AX4201/E							30122635	1150
AX8201	•		8200 g				30100618	1569
AX8201/E							30100619	1308

# Analytical & Precision Balances

## Adventurer® Precision

Ready For Your Lab, Wherever That May Be

Approved Model	Auto-Cal™	Draft Shield	Capacity	Readability	Certified Readability	Pan Size	Item No.	Price USD
AX223N/E		•	220 g	1 mg	0.01 g	Ø 5.1 in / Ø 130 mm	30100631	1650
AX423N	•		420 g				30100632	2228
AX423N/E			520 g				30100633	1929
AX523N/E							30100634	2233
AX622N/E		•	620 g	0.01 g	0.1 g	7.7 in x 6.9 in / 195 mm x 175 mm	30100635	1279
AX1502N/E			1520 g				30100636	1599
AX2202N/E			2200 g				30100637	1827
AX4202N/E			4200 g				30122655	2132
AX8201N/E			8200 g				30100639	1360

Accessories	Item No.	Price USD
Ink Ribbon, SF40A SF42A	12120798	44
Paper Roll, Set (2), 57.5mm, SF40A	12120799	14
Cable, RS9 M/F, 1.5 m	12122603	155
Printer, Impact, SF40A, AM	30064203	798
Dust Cover, Balance with Draft Shield	30093334	39
SP In-Use-Cover wo DS AX	30111777	23
SP In-Use-Cover DS AX	30111792	23
Auxiliary Display, PAD7, PA AX EX	80251396	54
Paper Roll, (1), Thermal, STP103	80251931	16
Printer, Thermal, STP-103, US	80251992	622
Cable, ST103-AV DV EX MB PA TxxP	80252581	155
Density Kit, Solids	80253384	624
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	155
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	155
Anti-Theft Device, MB AX EX	80850043	185
Cable, USB, Type A-B	83021085	155

# Analytical & Precision Balances

## Pioneer<sup>®</sup> Analytical

### The Economical Choice for Everyday Weighing

- Pioneer's draftshield is constructed of all glass panels and three sliding doors, which are easy to remove for cleaning or storage.
- The up-front level indicator is located right next to the display and allows the user to quickly make sure the balance is level prior to each use.
- Pioneer is designed with selectable environmental settings and three filter modes in order to ensure accurate operation in a variety of settings.



Model	InCal™	Capacity	Readability	Pan Size	Item No.	Price USD
PA84		85 g	0.1 mg	Ø 3.5 in / Ø 90 mm	30208440	1729
PA84C	•				30208454	1944
PA124		120 g			30208441	2075
PA124C	•				30208455	2290
PA224		220 g			30208442	2305
PA224C	•				30208456	2521

Accessories	Item No.	Price USD
Ink Ribbon, SF40A SF42A	12120798	44
Paper Roll, Set (2), 57.5mm, SF40A	12120799	14
Cable, RS9 M/F, 1.5 m	12122603	155
Printer, Impact, SF40A, AM	30064203	798
Dust Cover, Balance with Draft Shield	30093334	39
Auxiliary Display, PAD7, PA AX EX	80251396	54
Paper Roll, (1), Thermal, STP103	80251931	16
Printer, Thermal, STP-103, US	80251992	622
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	155
Cable, ST103-AV DV EX MB PA TxxP	80252581	155
Density Kit, Solids	80253384	624
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	155
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	155
Adapter, 25 Pin-9 Pin, SF42 SRP275	80500572	54
Anti-Theft Device, SP PA AV NV	80850000	72
Software, Winwedge	80850080	437
In-Use-Cover, PA	83020221	37

# Analytical & Precision Balances

## Pioneer® Precision

### The Economical Choice for Everyday Weighing

- Pioneer's compact design and small footprint allows the balance to easily fit into small areas of laboratory benches without overcrowding the workspace.
- The up-front level indicator is located right next to the display and allows the user to quickly make sure the balance is level prior to each use.
- Pioneer is designed with selectable environmental settings and three filter modes in order to ensure accurate operation in a variety of settings.



Model	InCal™	Draft Shield	Capacity	Readability	Pan Size	Item No.	Price USD	
PA163		•	162 g	1 mg	Ø 4.7 in / Ø 120 mm	30208443	1037	
PA163C	•					30208457	1253	
PA323			320 g			30208444	1210	
PA323C	•					30208458	1426	
PA523			520 g			30208445	1442	
PA523C	•					30208459	1657	
PA1602		•	1620 g	0.01 g	Ø 7 in / Ø 180 mm	30208446	932	
PA1602C	•					30208460	1148	
PA2202			2200 g	0.1 g		30208447	1095	
PA2202C	•					30208461	1310	
PA2201			3200 g			0.01 g	30208450	905
PA2201C	•						30208464	1102
PA3202			3200 g	0.01 g		30208448	1327	
PA3202C	•					30208462	1542	
PA4202			4200 g	0.01 g		30208449	1499	
PA4202C	•					30208463	1714	
PA4201				0.1 g		30208453	1062	
PA4201C	•					30208465	1261	

Accessories	Item No.	Price USD
Ink Ribbon, SF40A SF42A	12120798	44
Paper Roll, Set (2), 57.5mm, SF40A	12120799	14
Cable, RS9 M/F, 1.5 m	12122603	155
Printer, Impact, SF40A, AM	30064203	798
Dust Cover, Balance with Draft Shield	30093334	39
Auxiliary Display, PAD7, PA AX EX	80251396	54
Paper Roll, (1), Thermal, STP103	80251931	16
Printer, Thermal, STP-103, US	80251992	622
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571	155
Cable, ST103-AV DV EX MB PA TxxP	80252581	155
Density Kit, Solids	80253384	624
Cable, 25 Pin-9 Pin, PC-TxxP	80500524	155
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525	155
Adapter, 25 Pin-9 Pin, SF42 SRP275	80500572	54
Anti-Theft Device, SP PA AV NV	80850000	72
Software, Winwedge	80850080	437
In-Use-Cover, PA	83020221	37

# Portable Balances

## Scout® STX Touchscreen

### Setting New Standards in Laboratory & Industrial Weighing - The Next Generation of Scout Balances

- Large, resilient color touchscreen allows for effortless operation of the Scout through its informative icon-driven menu structure, guiding the user through every step of the weighing application.
- Stabilization time as fast as 1 sec means increased productivity in your facility. Equipped with advanced weighing technology, the Scout also ensures repeatable and reliable weighing results.
- Integrated superior overload protection system rated at 10 times the capacity protects the balance in rugged and demanding environments. The space-saving, slim design allows for stackable storage.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
STX123	120 g	0.001 g	Ø 3.7 in / Ø 93 mm	30253005	681
STX223	220 g			30253006	762
STX222	220 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253007	499
STX422	420 g			30253008	699
STX622	620 g			30253009	819
STX1202	1200 g		5.5 in x 6.7 in / 140 mm x 170 mm	30253010	935
STX2202	2200 g			30253011	1051
STX421	420 g	0.1 g	Ø 4.7 in / Ø 120 mm	30253012	282
STX621	620 g			30253013	418
STX2201	2200 g		5.5 in x 6.7 in / 140 mm x 170 mm	30253014	528
STX6201	6200 g			30253015	848
STX8200	8200 g			1 g	30253016

Accessories	Item No.	Price USD
Printer, Impact, SF40A, AM	30064203	798
RS232 Kit, STX SKX ST3100M	30268982	133
USB Kit, Host, STX SKX	30268983	133
USB Kit, Device, STX SKX ST3100M	30268984	92
Bluetooth Kit, STX SKX	30268985	120
Ethernet Kit, STX SKX	30268986	144
Stacking & Storage Cover, x6, STX SKX	30268987	51
Stacking & Storage Cover, x1, STX SKX	30268988	17
Auxiliary Display Kit, STX SKX	30269019	147
Density Kit, STX	30269020	16
Anti-Theft Device, MB AX EX STX SKX	80850043	185
Carrying Case, Scout	30269021	103



# Portable Balances

## Scout® SKX

### The Next Generation of Portable Balances for your Classroom

- Integrated superior overload protection system rated at 10x capacity protects the balance in demanding classroom environments. Space-saving design allows for stackable storage (excluding 1 mg model).
- Combined with a simplified 4 button operation, the Scout's large backlit display increases readability in dim lighting conditions, and makes it easier to view results from across a desk or lab bench.
- With expanded connectivity options including RS232, USB Host, USB Device, Ethernet and Bluetooth®, the Scout provides added versatility to your data collection and transfer needs.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
SKX123	120 g	0.001 g	Ø 3.7 in / Ø 93 mm	30253029	587
SKX222	220 g	0.01 g	Ø 4.7 in / Ø 120 mm	30253030	425
SKX422	420 g			30253031	604
SKX622	620 g			30253032	710
SKX1202	1200 g			5.5 in x 6.7 in / 140 mm x 170 mm	30253033
SKX2202	2200 g		30253034	918	
SKX421	420 g		0.1 g	Ø 4.7 in / Ø 120 mm	30253035
SKX621	620 g	30253036			343
SKX2201	2200 g	5.5 in x 6.7 in 140 mm x 170 mm		30253037	438
SKX6201	6200 g			30253038	737
SKX8200	8200 g			1 g	30253039

Accessories	Item No.	Price USD
Printer, Impact, SF40A, AM	30064203	798
RS232 Kit, STX SKX ST3100M	30268982	133
USB Kit, Host, STX SKX	30268983	133
USB Kit, Device, STX SKX ST3100M	30268984	92
Bluetooth Kit, STX SKX	30268985	120
Ethernet Kit, STX SKX	30268986	144
Stacking & Storage Cover, x6, STX SKX	30268987	51
Stacking & Storage Cover, x1, STX SKX	30268988	17
Auxiliary Display Kit, STX SKX	30269019	147
Density Kit, STX	30269020	16
Anti-Theft Device, MB AX EX STX SKX	80850043	185
Carrying Case, Scout	30269021	103

# Portable Balances

## Navigator® NV

### Multi-Purpose Balances with Touchless Sensors that Power Hands-Free Operation

- Operate the balance with the two touchless sensors that free up your hands for the handling of samples while limiting keypad wear and tear and cross-contamination.
- Navigator NV stabilizes in less than one second to provide fast and accurate weighing results while improving operator efficiency, productivity and throughput.
- The superior mechanical overload protection system safeguards the balance from sustaining damage when loads of up to 400% of its rated capacity are placed on the pan.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
NV212	210 g	0.01 g	Ø 4.7 in / Ø 120 mm	83033081	360
NV211		0.1 g		30135291	204
NV511	510 g	0.1 g	5.4 in x 7.5 in / 138 mm x 190 mm	83033083	246
NV1101	1100 g	0.1 g		83033085	305
NV2101	2100 g	0.1 g		83033087	395
NV4101	4100 g	0.2 g		83033089	435
NV5101	5100 g	0.5 g		83033091	502
NV4000	4000 g	1 g		30135292	216

Accessories	Item No.	Price USD
Cable, PC, 9 Pin, NV AV	12106964	160
Auxiliary Display, TAD7, SP SPJ TA TAJ	80251395	54
Printer, Thermal, STP-103, US	80251992	622
Anti-Theft Device, SP PA AV NV	80850000	72
Software, Winwedge	80850080	437
RS232 Kit, SP TA Navigator	83032107	133
USB Kit, SP TA NV NVL NVT	83032108	133
Ethernet Kit, NV NVL NVT	83032109	133
In-Use-Cover, NV	83032223	26
Carrying Case, NV	83032226	94

# Portable Balances

## CS Series

### When Cost Matters But Dependable Results Are A Must

- The large weighing platform can accommodate larger samples and can also be removed for easy cleaning.
- Radio frequency protection allows the CS to deliver stable results even when used in areas in which radio waves may be emitted.
- The low profile CS is battery operated or can be powered by a standard AC adapter.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
CS200	200 g	0.1 g	5.75 in x 5.25 in / 145 mm x 133 mm	72212663	140
CS2000	2000 g	1 g		72212664	140
CS5000	5000 g			72212665	165

Model	Capacity	Readability	Pan Size	Item No.	Price USD
CS200P	200 g	0.1 g	5.75 in x 5.25 in / 145 mm x 133 mm	80500633	150
CS2000P	2000 g	1 g		80500634	150
CS5000P	5000 g			80500635	179

**"P" models include Postal Chart**

Accessories	Item No.	Price USD
Carrying Case, CS	80010624	51
Bowl, 1050 ml, CS	80850075	42
Pan Cover, SST, CS	80850076	47
PWR,ACCES,AC-PRONG	46001776	14
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	37

# Portable Balances

## CL Series

### Reliable, Easy-to-Use Balance for Basic Weighing

- The low profile CL has a stackable design which allows the balance to be stored securely and orderly.
- The integrated load cell lock protects the weighing cell from damage during transportation and while in storage.
- The CL is battery operated and automatically shuts off after a certain period of non-use to preserve battery life.



CL5000F

Model	Capacity	Readability	Pan Size	Item No.	Price USD
CL201	200 g	0.1 g	Ø 4.75 in / Ø 120 mm	80010610	96
CL2000	2000 g	1 g		80010611	96
CL5000	5000 g			80010612	132
CL5000F				80010621	190

**"F" model includes carrying case**

Accessories	Item No.	Price USD
PWR,ACCES,AC-PRONG	46001776	14
PWR,W,IN,6W,12VDC,S21x55x9x100,S	46001724	37
Pan Cover, SST, CL	80010623	14

## HH Series

### Convenient, Compact and Portable Weighing in a Functional Design

- HH is available in capacities ranging from 120 g to 320 g and is ideal for a variety of general, on-the-go weighing applications for many industries.
- A backlit display illuminates the screen for viewing in dim lighting conditions, and a power-saving automatic shut-off feature conserves battery life.
- Among HH's protective features are durable ABS housing and a snap-on cover for protection during storage and transportation.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
HH120	120 g	0.1 g	3.25 in x 3 in / 83 mm x 76 mm	71142842	189
HH120D	60 g / 120 g	0.2 g		71142841	158
HH320	320 g	0.1 g		71142844	235

# Portable Balances

## PS Series

### High Performance Portable Weighing in the Palm Of Your Hand

- The one-piece combination pan and cover slides back when being used to weigh and forward when not in use to protect the buttons and display during storage and transportation.
- One of the smallest portable balances on the market, PS can easily fit in to a standard shirt pocket.
- The “pop-out” design of the battery compartment provides simple and fast battery replacement.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
PS121	120 g	0.1 g	2.5 in x 2.5 in / 64 mm x 64 mm	80104060	59
PS251	250 g			80104061	77

# Centrifuge

## Frontier™ 5000 Series Mini

### Powerful and Convenient Mini Centrifuge for Simple and Quick Life Science Separation Applications

- With a low voltage power input, quiet brushless motor and a rubber base that absorbs vibrations, Frontier 5306 minimizes operational noise and reduces disruptions in the laboratory.
- Frontier 5306 is designed with operator safety in mind, and includes a rotor imbalance sensor and two safety switches which immediately stop the rotors should the lid open during use.
- Frontier 5306 takes simple one-step operation to a new level. Simply place your sample in the centrifuge, close the lid, and it will begin to rotate without the press of a button.



Two rotors and adapters are included

Model	Maximum Speed	Max g-force	Capacity	Item No.	Price USD
FC5306	6,000 rpm	2,000 g	8 x 1.5 ml / 2.0 ml; 4 x 8 place PCR Strips	30134157	290

Accessories	Item No.	Price USD
Rotor, 1.5/2ml x8, FC5306	30129559	42
Rotor, 0.2ml PCR8 x4, FC5306	30129560	42
Adapter for 0.2 ml Tube (8PCS/Package)	30129561	42
Adapter for 0.5 ml Tube (8PCS/Package)	30129562	42

# pH/ORP/Conductivity/DO Measurement Starter 5000 pH Bench

## High Performance Bench Meter for Universal pH Applications

- Starter 5000's performance is propelled by a 1000 item library, 10 sensors for calibration storage, 8 predefined and 1 self-defined buffer groups, 3 endpoint modes and meets GLP/GLM requirements.
- The color touchscreen operates similar to smartphones and tablets, and provides simple operation of advanced features such as one-touch toggling of measurement modes.
- With a standalone electrode holder, USB port, IP54 housing and in-use-cover, Starter 5000 provides the flexibility and protection that ensures smooth and enduring operation.



Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST5000-B	—	-2.00 to 20.00 pH; -2000.00 to +2000.00 ; mV-30 to 130°C	0.001 pH; 0.01 mV; 0.1 °C	30129895	1200
ST5000-F	ST350 (Included)			30129896	1275

Accessories	Item No.	Price USD
ORP electrode STORP2	30038553	211
ORP electrode STORP1	30038555	78
Holder, Stand Alone, Electrode	30058733	71
Adapter, 9 Pin-9 Pin, PC-SF40A	30059316	27
Printer, Impact, SF40A, AM	30064203	760
Buffer pH1.68 250 ml	30100424	17
Buffer pH4.01 250 ml	30100425	13
Buffer pH6.86 250 ml	30100426	13
Buffer pH7.00 250 ml	30100427	13
Buffer pH9.18 250 ml	30100428	13
Buffer pH10.01 250 ml	30100429	13
Buffer pH12.45 250 ml	30100440	17
pH Electrode ST310	83033965	120
pH Electrode ST210	83033966	55
pH Electrode ST320	83033967	120
pH Electrode ST230	83033968	104
pH Electrode STPURE	83033969	117
Temperature Electrode STTEMP30	83033970	67
Buffer Powder pH4.01;7.00;10.01	83033971	18

See page 24 for additional Starter Series Electrodes

# pH/ORP/Conductivity/DO Measurement Starter 3100M Bench

## The Versatile Multi-Parameter Bench Meter

- Auto temperature compensation, auto buffer recognition, six pH buffer groups, five conductivity standards and automatic/manual endpoints ensure accurate and stable measurement.
- An adjustable electrode holder, a large backlit LCD for optimal viewing of results, and a Quick Guide with set-up and navigation info combine to make ST3100M a truly user-friendly experience.
- Documenting data is made efficient with a 99-item memory for pH and conductivity measurements. RS232 interface allows you to connect to an external device such as a printer to store or transfer data.



Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST3100M-B	—	-2 - 20 pH; -1999 - 1999 mV; 0.0 μS/cm - 19.99 mS/cm; 0.1 mg/l - 199.9 g/l; 0 - 20MΩ·cm; 0 - 100 psu	0.01 pH; 1 mV; 0.01 μS/cm; 0.01 mg/L; 0.1 Ω·cm; 0.01 psu	30276082	750
ST3100M-F	ST310, STCON3			30276083	890
ST3100M-N	ST230, STTEMP30, STCON3			30332140	890

Accessories	Item No.	Price USD
ORP electrode STORP2	30038553	211
ORP electrode STORP1	30038555	78
Holder, Stand Alone, Electrode	30058733	71
Printer, Impact, SF40A, AM	30064203	760
Buffer pH1.68 250 ml	30100424	17
RS232 Kit, STX SPX ST3100M	30268982	126
USB Kit, Device, STX SPX ST3100M	30268984	87
Buffer pH4.01 250 ml	30100425	13
Buffer pH6.86 250 ml	30100426	13
Buffer pH7.00 250 ml	30100427	13
Buffer pH9.18 250 ml	30100428	13
Buffer pH10.01 250 ml	30100429	13
Buffer pH12.45 250 ml	30100440	17
pH Electrode ST310	83033965	120
pH Electrode ST210	83033966	55
pH Electrode ST320	83033967	120
pH Electrode ST230	83033968	104
pH Electrode STPURE	83033969	117
Temperature Electrode STTEMP30	83033970	67
Buffer Powder pH4.01;7.00;10.01	83033971	18
Standard Conduct 10μs/cm 250 ml	30100441	17
Standard Conduct 84μs/cm 250 ml	30100442	17
Standard Conduct 1413μs/cm 250 ml	30100443	17
Standard Conduct 12.88mS/cm 250 ml	30100444	17
STCON7	30080693	458

See page 24 for additional Starter Series Electrodes



# pH/ORP/Conductivity/DO Measurement Starter 3100 pH Bench

## Smart pH Bench Meter for Standard Laboratory Applications

- Starter 3100's intuitive software includes three point calibration, three buffer groups, automatic and manual endpoint functions, as well as a 99 item library.
- Among Starter 3100's user-friendly features that support ease-of-use are an adjustable standalone electrode holder and large backlit LCD display.
- Documenting measurement data is made simple through the RS232 which can be used to connect peripheral devices such as printers or computers to the meter.



Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST3100-B	—	-2.00 to 16.00 pH ; -1999 to 1999 mV; -5 °C to 110 °C	0.01 pH; 0.1 °C; 1 mV	30057497	561
ST3100-F	ST310 (Included)			30058489	632

Accessories	Item No.	Price USD
ORP electrode STORP2	30038553	211
ORP electrode STORP1	30038555	78
Holder, Stand Alone, Electrode	30058733	71
Adapter, 9 Pin-9 Pin, PC-SF40A	30059316	27
Printer, Impact, SF40A, AM	30064203	760
Buffer pH1.68 250 ml	30100424	17
Buffer pH4.01 250 ml	30100425	13
Buffer pH6.86 250 ml	30100426	13
Buffer pH7.00 250 ml	30100427	13
Buffer pH9.18 250 ml	30100428	13
Buffer pH10.01 250 ml	30100429	13
Buffer pH12.45 250 ml	30100440	17
pH Electrode ST310	83033965	120
pH Electrode ST210	83033966	55
pH Electrode ST320	83033967	120
pH Electrode ST230	83033968	104
pH Electrode STPURE	83033969	117
Temperature Electrode STTEMP30	83033970	67
Buffer Powder pH4.01;7.00;10.01	83033971	18

See page 24 for additional Starter Series Electrodes

# pH/ORP/Conductivity/DO Measurement

## Starter 3100C Conductivity Bench

### Smart Conductivity Bench Meter for Standard Laboratory Applications

- Starter 3100C's intuitive software includes four calibration points, automatic and manual endpoint functions, and one touch conversion between measurement modes.
- Among Starter 3100C's user-friendly features that support ease-of-use are an adjustable standalone electrode holder and large backlit LCD display.
- Documenting measurement data is made simple through the RS232 which can be used to connect peripheral devices such as printers or computers to the meter.



Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST3100C-B	—	00.0 $\mu\text{S}/\text{cm}$ to 199.9 $\text{mS}/\text{cm}$ ; 0.0 to 19.9 $\text{mg}/\text{L}$ ; 0.00 to 19.99 $\text{psu}$ (Salinity); 0 to 100 $^{\circ}\text{C}$	0.01 $\mu\text{S}/\text{cm}$ ; 0.1 $\text{mg}/\text{L}$ ; 0.01 $\text{psu}$ ; 0.1 $^{\circ}\text{C}$	30058730	643
ST3100C-F	STCON3 (Included)			30058731	806

Accessories	Item No.	Price USD
Holder, Stand Alone, Electrode	30058733	71
In-Use-Cover, STARTER	30058734	18
Printer, Impact, SF40A, AM	30064203	760
Standard Conduct 10 $\mu\text{S}/\text{cm}$ 250 ml	30100441	17
Standard Conduct 84 $\mu\text{S}/\text{cm}$ 250 ml	30100442	17
Standard Conduct 1413 $\mu\text{S}/\text{cm}$ 250 ml	30100443	17
Standard Conduct 12.88 $\text{mS}/\text{cm}$ 250 ml	30100444	17
STCON7	30080693	458

See page 24 for additional Starter Series Electrodes

# pH/ORP/Conductivity/DO Measurement

## Starter 2100 pH Bench

### Economical pH Bench Meter for Basic Laboratory Applications

- With the attached quick guide, five clearly marked keys and user friendly software, novices can operate the meter with minimal training.
- The built-in electrode holder provides uncomplicated and convenient all-in-one operation while the large LCD display screen clearly displays results.
- Auto buffer recognition, electrode condition icon, automatic temperature compensation and reference input all work to ensure accurate results.



Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST2100-B	—	-2.00 to 16.00 pH; -1999 to 1999 mV; 1 to 100 °C	0.01 pH; 1 mV; 0.1 °C	30057494	393
ST2100-E	ST210 (Included)			30057495	418
ST2100-F	ST210 (Included); STTEMP30 (Included)			30057496	459

Accessories	Item No.	Price USD
Holder, Stand Alone, Electrode	30058733	71
Buffer pH1.68 250 ml	30100424	17
Buffer pH4.01 250 ml	30100425	13
Buffer pH6.86 250 ml	30100426	13
Buffer pH7.00 250 ml	30100427	13
Buffer pH9.18 250 ml	30100428	13
Buffer pH10.01 250 ml	30100429	13
Buffer pH12.45 250 ml	30100440	17
Buffer Powder pH4.01;7.00;10.01	83033971	18

See page 24 for additional Starter Series Electrodes

# pH/ORP/Conductivity/DO Measurement Starter 300 pH Portable

## Convenient Portable pH Meter for Wherever Your Work Takes You

- Automatic and manual temperature compensation ensures accurate readings while a 30 measurement library stores data for future reference.
- The auto buffer recognition stores calibration data and helps to avoid errors during the calibration process.
- With a meter stand, wrist strap for secure field use and IP54 housing, Starter 300 is durable and prepared for versatile use.



ST300-G

Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST300-G	ST320 (Included)	0.00 to 14.00 pH; -1999 to 1999 mV; 0 to 100 °C	0.01 pH; 1 mV; 0.1 °C	30219114	381
ST300				83033961	355
ST300-B	—			83033962	267

Accessories	Item No.	Price USD
Buffer pH1.68 250 ml	30100424	17
Buffer pH4.01 250 ml	30100425	13
Buffer pH6.86 250 ml	30100426	13
Buffer pH7.00 250 ml	30100427	13
Buffer pH9.18 250 ml	30100428	13
Buffer pH10.01 250 ml	30100429	13
Buffer pH12.45 250 ml	30100440	17
Seal kit, STARTER portables	83032962	37
Buffer Powder pH4.01;7.00;10.01	83033971	18

See page 24 for additional Starter Series Electrodes

# pH/ORP/Conductivity/DO Measurement

## Starter 300C Conductivity Portable

### Convenient Portable Conductivity Meter for Wherever Your Work Takes You

- Starter 300C has a built-in temperature sensor and a 4-pole linear electrode that safeguards itself from polarization and pollution effects.
- With a simple calibration process and quick delivery of measurement results, Starter 300C is efficient and easy-to-use.
- The 30 item library allows the user to easily recall calibration data and stored information with one quick touch.



ST300C-G

Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST300C-B	—	00.0 $\mu$ S/cm to 199.9 mS/cm ; 0.1 mg/L to 199.9 g/L (TDS); 1 to 100 °C	0.01 $\mu$ S/cm; 0.1 mg/L ; 0.1 °C;	30092000	330
ST300C-G	STCON3 (Included)			30219115	437
ST300C				83033964	411

Accessories	Item No.	Price USD
Portable Bag STARTER	30031635	48
Standard Conduct 10 $\mu$ S/cm 250 ml	30100441	17
Standard Conduct 84 $\mu$ S/cm 250 ml	30100442	17
Standard Conduct 1413 $\mu$ S/cm 250 ml	30100443	17
Standard Conduct 12.88mS/cm 250 ml	30100444	17
Seal kit, STARTER portables	83032962	37
STCON7	30080693	458

See page 24 for additional Starter Series Electrodes

# pH/ORP/Conductivity/DO Measurement Starter 300D DO Portable

## Convenient Portable Dissolved Oxygen Meter for Wherever Your Work Takes You

- The galvanic electrode can be used immediately after being powered on without the wait time typically associated with dissolved oxygen meters.
- With a simple calibration process, quick delivery of measurements and automatic temperature compensation, Starter 300D is both easy-to-use and accurate.
- 30 measurement storage endpoints allow the user to easily recall the last calibration data and stored information with one quick touch.



ST300D-G

Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST300D	STDO11 (Included); STTEMP30 (Included)	% 0.0 to 199.9%; 200 to 400%;	0.1%; 1%; 0.01 mg/L; 0.1 mg/L; 0.01 ppm; 0.1 ppm; 0.1 °C	30031655	579
ST300D-B	—	mg/L 0.00 to 19.99; 20.0 to 45.0 mg/L ppm 0.00 to 19.99;		30031656	329
ST300D-G	STDO11 (Included); STTEMP30 (Included)	20.0 to 45.0 ppm; 0 to 50 °C		30219116	622

Accessories	Item No.	Price USD
Portable Bag STARTER	30031635	48
DO electrode STDO11	30031639	312
Zero Oxygen Chemicals, STARTER	30059257	17
Seal kit, STARTER portables	83032962	37

See page 24 for additional Starter Series Electrodes

# pH/ORP/Conductivity/DO Measurement Starter 400D DO Portable

## Dissolved Oxygen (DO) Meter with Optical Technology

- Optical DO Probe allows for minimal maintenance and permits for immediate measurement reading without the need for warm up time or any sample preparation.
- Large bright backlit LCD screen provides easy to read results even in low light areas, while 5 dedicated manual keys deliver simple, straightforward operation for all operators via a simple calibration process and accurate measurements.
- With a meter stand, wrist strap for secure field use and IP54 housing, Starter 400D is durable and prepared for versatile use.



Model	Electrode	Measurement Range	Measurement Resolution	Item No.	Price USD
ST400D-G	STDO21 (Included)	0.0 to 200.0%	0.1% ; 0.01 mg/L; 0.1 °C	30208726	1230
ST400D-F		0.00 to 20.0 mg/L (ppm)		30208727	1200
ST400D-B	—	0 to 50 °C		30271216	505

Accessories	Item No.	Price USD
Seal kit, STARTER portables	83032962	37
Zero Oxygen Chemicals, STARTER	30059257	17
DO electrode STDO21	30219117	985
DO Probe Cap, STD021	30253566	155

See page 24 for additional Starter Series Electrodes

# pH/ORP/Conductivity/DO Measurement Starter Pen Meters

## Accurate Electrochemistry Measurement At Your Fingertips

- Starter pen meters provide what should be expected of a small, economical pen meter: simple, fast, straightforward, no-frills operation time and time again.
- With durable ABS housing, a protective sensor cap, and automatic shutdown feature that preserves battery life, Starter pen meters can endure consistent use in rugged environments.
- Equipped with a wrist strap that prevents unintentional dropping, Starter pen meters are constructed with an IP67 waterproof design that can prevent water damage when dropped in to liquid.



ST20D

Model	Meter Type	Measurement Range	Measurement Resolution	Temperature Display	Item No.	Price USD
ST10	pH	0.00 – 14 pH	0.1 pH	Not Available	30073970	54
ST20		0.00 – 14 pH ; 0.0 – 99.0 °C	0.01 pH	Yes	30073971	96
ST10C-A	Conductivity	0.00 – 199.9 µs/cm	0.1 µs/cm	Not Available	30073972	72
ST10C-B		0 – 1999 µs/cm	1µs/cm		30073973	72
ST10C-C		0.00 – 19.99 ms/cm	10 µs/cm		30073974	72
ST20C-A		0.00 – 199.9 µs/cm ; 0.0 – 99.0 °C	0.1 µs/cm	Yes	30073975	102
ST20C-B		0 – 1999 µs/cm ; 0.0 – 99.0 °C	1µs/cm		30073976	102
ST20C-C		0.00 – 19.99 ms/ cm ; 0.0 – 99.0 °C	10 µs/cm		30073977	102
ST10T-A	TDS	0.0 – 100.0 mg/L	0.1 mg/L	Not Available	30073978	81
ST10T-B		0.0 – 1000 mg/L	1 mg/L		30073979	81
ST20T-A		0.0 – 100.0 mg/L ; 0.0 – 99.0 °C	0.1 mg/L	Yes	30073980	102
ST20T-B		0.0 – 1000 mg/L ; 0.0 – 99.0 °C	1 mg/L		30073981	102
ST10S	Salinity	0.0 – 10.0 ppt	0.1 ppt	Not Available	30073982	70
ST20S		0.0 – 80.0 ppt ; 0.0 – 99.0 °C		Yes	30073983	102
ST10R	ORP	-1000 – 1000 mV	1 mV	Not Available	30073984	118
ST20R		-1000 – 1000 mV ; 0.0 – 99.0 °C		Yes	30073985	154
ST20D	Dissolved Oxygen	0.0 – 80.0 ppt	0.1 mg/L	Yes	30073986	368



# *pH/ORP/Conductivity/DO Measurement* **Starter Pen Meters**

**Accurate Electrochemistry Measurement At Your Fingertips**

Accessories	Item No.	Price USD
Electrode CS20C ST	30087999	45
Electrode R10 ST	30088020	69
Electrode R20 ST	30088021	91
Buffer pH4.01 250 ml	30100425	13
Buffer pH7.00 250 ml	30100427	13
Buffer pH10.01	30100429	13
Standard Conduct 84 $\mu$ s/cm 250 ml	30100442	17
Standard Conduct 1413 $\mu$ s/cm 250 ml	30100443	17
Standard Conduct 12.88mS/cm 250 ml	30100444	17
Membrane Kit Replaceable, ST20D	30222084	85

# pH/ORP/Conductivity/DO Measurement Starter Electrodes

## OHAUS Precision Powers the Starter Electrodes

- Electrodes are constructed of glass or plastic and are built to withstand daily use.
- Select electrodes include a temperature sensor, which powers automatic temperature compensation and ensures accurate measurements.
- All electrodes fit perfectly in the electrode holders on OHAUS bench meters and electrode clips on all OHAUS portable meters.



Model	ST5000, ST3100 & ST300	ST3100M	ST3100C & ST300C	ST300D	ST400D	Temp.	Shaft Material	Item No.	Price USD
ST230	•	•					Glass	83033968	107
ST260	•	•					Glass	30129357	143
ST270	•	•					Glass	30240974	257
ST350	•	•				•	Glass	30129354	153
STMICR05	•	•					Glass	30087566	221
STMICR08	•	•					Glass	30087569	236
STPURE	•	•					Glass	83033969	120
STREF1	•	•					Glass	30059253	128
STREF2	•	•					Glass	30059254	167
STORP2	•	•					Glass	30038553	217
STORP1	•	•					Plastic	30038555	80
ST210	•	•					Plastic	83033966	57
ST272	•	•					Plastic	30393265	150
ST310	•	•				•	Plastic	83033965	123
ST320	•	•				•	Plastic	83033967	123
STSURF	•	•					Plastic	30129470	140
STCON3		•	•			•	Plastic	83033972	263
STCON7		•	•			•	Plastic	30080693	470
STD011				•			Plastic	30031639	320
STD021, 1m					•	•	Plastic	30378544	985
STD021, 5m					•	•	Plastic	30378545	1000
STTEMP30	•	•		•		•	S.Steel	83033970	69

# Mechanical Scales & Balances

## Triple Beam Pro®

### Best-in-Class Mechanical Balance

- The unique, easy-grip carrying handle is ergonomically designed to allow for effortless movement around the classroom.
- A convenient compartment provides a place to store the weight set when not in use, preventing the weights from becoming lost.
- Prevent theft and accidental dropping by securing the balance to a desk or bench top with the security loop or Kensington-type lock (sold separately).



Model	Capacity	Readability	Pan Size	Item No.	Price USD
TP2611 with Rod and Clamp	2610 g	0.1 g	5.8 in x 5.8 in / 147 mm x 147 mm	80621692	19

Accessories	Item No.	Price USD
Kit, Rod and Clamp	80780011	60
Dust Cover, Triple Beam	80780017	32
Weight Set, 2 x 1 kg, 1 x 500 g	80780108	61
Anti-Theft Device, SP PA AV NV	80850000	72
Anti-Theft Device, MB AX EX	80850043	185

# Mechanical Scales & Balances

## Triple Beam 700 Series

The Standard by Which All Other Mechanical Balances Are Measured

- Superior magnetic damping provides stable results three times faster than any other three-beam balance on the market.
- Five weighing pans of different sizes and designs can accommodate materials for a variety of weighing applications.
- A counterbalancing knob provides quick zeroing of the balance while a self-aligning beam helps ensure accurate results.



Model	Tare Beam	Capacity	Readability	Pan Size	Pan Height	Pan Type	Item No.	Price USD
720-00		610 g	0.1 g	12 in x 6 in / 30.5 mm x 152 mm	2.75 in / 70 mm	Polypropylene Scoop	80000032	294
720-50				12 in x 7.4 in / 305 mm x 188 mm	1.7 in / 43 mm	Stainless Steel Scoop	80000033	341
710-00				Ø 6 in / Ø 152 mm	—	Removable Pan	80000011	249
750-50						Fixed Pan	80000012	138
760-00	•					Fixed Pan	80000013	258
710-T0	•					Removable Pan	80000031	305
730-00						Ø 9 in / Ø 229 mm	6 in / 152 mm	Animal Container

Accessories	Item No.	Price USD
Subject Box	80000053	83
Scoop and Counter Weight	80780001	49
Scoop, PP, 0.8 l	80780006	32
Kit, Rod and Clamp	80780011	60
Scoop and Counter Weight, Poly	80780014	44
Scoop and Counter Weight, SST	80780015	103
Scoop and Counter Weight, 1.75 l	80780016	47
Dust Cover, Triple Beam	80780017	32
Weight Set, 2 x 1 kg, 1 x 500 g	80780108	61
Anti-Theft Device, SP PA AV NV	80850000	72
Clamp, Gas Cylinder	80850312	79

# Mechanical Scales & Balances

## Triple Beam Junior

### All the Benefits of a Triple Beam, Just for Younger Students

- The notched and tiered beams provide for easy reading of measurement results.
- Prevent theft and accidental dropping by securing the balance to a desk or bench top with the security loop or Kensington-type lock (sold separately).
- The zero adjust compensator ensures the balance is at zero and weighing results will be accurate.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
TJ611	610 g	0.1 g	Ø 5.9 in / Ø 150 mm	80252052	130

Accessories	Item No.	Price USD
Dust Cover, Triple Beam	80780017	32
Anti-Theft Device, SP PA AV NV	80850000	72

## Triple Beam Dial-O-Gram® 1600 Series

### The Standard by Which All Others Are Measured

- Superior magnetic damping provides three times faster stability reading than any other three-beam balance on the market.
- Vernier dial convenience.
- Counterbalancing knob for quick zeroing, self-aligning beam design.



Model	Tare Beam	Capacity	Readability	Pan Size	Pan Type	Item No.	Price USD
1650-00	•	610 g	0.1 g	Ø 6 in / Ø 152 mm	Fixed Plate	80000006	323
1610-00	•				Removable Pan	80000036	373
1650-W0	•	2610 g			Fixed Plate and attachment weights	80000037	373

Accessories	Item No.	Price USD
Scoop, Flat Bottomed, SST, 0.6 l	80250400	59
Scoop and Counter Weight	80780001	49
Scoop, PP, 0.8 l	80780006	32
Kit, Rod and Clamp	80780011	60
Scoop and Counter Weight, Poly	80780014	44
Scoop and Counter Weight, SST	80780015	103
Scoop and Counter Weight, 1.75 l	80780016	47
Dust Cover, Triple Beam	80780017	32
Weight Set, 2 x 1 kg, 1 x 500 g	80780108	61
Anti-Theft Device, SP PA AV NV	80850000	72
Clamp, Gas Cylinder	80850312	79

# Mechanical Scales & Balances

## Dial-O-Gram® and Cent-O-Gram® 300 Series

### Extremely Precise Mechanical Balance with High Readability

- With aluminum pressure castings for the base and beam assembly, agate bearings, steel knife-edges, and stainless steel pan, the Dial-O-Gram is built to the highest standard of quality.
- The three-point base, special floating bearing principle and beam design eliminates the need for level adjustments.
- The self-aligning beam ensures accurate results are garnered effortlessly.



Model	Capacity	Readability	Beams	Pan Size	Pan Height	Pan Type	Item No.	Price USD
310-00	310 g	0.01 g	2 Beams with Dial	Ø 3.5 in / Ø 89 mm	0.5 in / 13 mm	Removable Pan	80000009	359
311-00	311 g		4 Beams				80000010	296

Accessories	Item No.	Price USD
Dust Cover, Dial-O-Gram Cent-O-Gram	80780005	32
Anti-Theft Device, SP PA AV NV	80850000	72

## Harvard Junior

### Two Pan Balance Designed to Teach Comparative Weighing

- The easy-grip carrying handle will help students and teacher alike securely move the balances around the classroom.
- The balances can be stacked to minimize the amount of storage space needed, and the lock feature protects the balance from damage when in storage.
- An eight piece weight set and bowls that fit on the weighing pans are included with every Harvard Junior.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
HJ2001	2000 g	0.5 g	Ø 6 in / Ø 150 mm	80252050	111

# Mechanical Scales & Balances

## Harvard Trip®

### Two Pan Balance Designed for Comparative Weighing

- The built-in sliding masses make weighing very simple and quick.
- Magnetic damping minimizes oscillation and helps speed up weighing.
- A counterbalancing knob provides quick zeroing of the balance while floating agate bearings help ensure accurate results.



Model	Capacity	Readability	Beams	Pan Size	Item No.	Price USD
1450-SD	2000 g	0.1 g	Singe Beam	Ø 6.2 in / Ø 152 mm	80000003	335
1550-SD			2 Beams		80000004	360
1560-SD			2 Beams and Tare Beam		80000005	376

Accessories	Item No.	Price USD
Scoop, PP, 0.8 l	80780006	32
Kit, Rod and Clamp	80780011	60
Scoop and Counter Weight, Poly	80780014	44
Scoop and Counter Weight, SST	80780015	103
Scoop and Counter Weight, 1.75 l	80780016	47
Anti-Theft Device, SP PA AV NV	80850000	72
Weight Set, 1 kg-1 g, ASTM 6, CYL	80850115	432
Dust Cover,Storage,Harvard	80850262	32

# Mechanical Scales & Balances

## School Balance

### The Young Scientist's First Balance

- Large, washable pans provide optimal space for samples to be weighed.
- 18 piece, color coded stackable plastic mass set included.
- Front and rear pointers allow students to view results from both sides of the balance.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
SB1200	2000 g	0.5 g	5.5 in x 5.5 in / 140 mm x 140 mm	80000029	54

## Primer® Balance

### The Scale for Budding Scientists

- An activity guide with 16 exercises is included with every Primer balance.
- The easy-to-slide zero adjustment weight makes ensuring the balance is ready for weighing very simple.
- Front and rear pointers allow students to view results from both sides of the balance.



Model	Capacity	Readability	Pan Size	Item No.	Price USD
80410-00	2000 g	1 g	4 in x 4 in / 102 mm x 102 mm	80000024	39



# Mechanical Scales & Balances

## Spring Scales

### Producing Reproducible Results at Unbeatable Prices

- Pull type spring scales feature an internal spring mechanism and offer a versatile and inexpensive way to display measurements in grams, ounces, pounds and Newtons.
- Dial type spring scales offer a versatile and inexpensive weight determination in classrooms, laboratories, field studies and much more.
- Demonstration spring scales offer a large faceplate for easy viewing and are ideal for all basic weighing applications.

## Pull Type Spring Scales

Model	Capacity	Readability	Item No.	Price USD
8001-MA	9 oz / 250 g	0.25 oz / 10 g	80000039	19
8002-MA	18 oz / 500 g	0.5 oz / 20 g	80000041	19
8004-MA	72 oz / 2000 g	2 oz / 50 g	80000044	19
8001-MN	250 g / 2.5 N	10 g / 0.1 N	80000014	18
8002-MN	500 g / 5 N	20 g / 0.2 N	80000015	18
8003-MN	1000 g / 10 N	25 g / 0.25 N	80000016	18
8004-MN	2000 g / 20 N	50 g / 0.5 N	80000017	18
8008-MN	5000 g / 50 N	100 g / 1 N	80000018	18
8261-M0	100 g	1 g	80000025	21
8262-M0	200 g	2 g	80000026	21
8263-M0	500 g	5 g	80000027	21
8264-M0	1000 g	10 g	80000028	21
8265-M0	2000 g	20 g	80000052	21
8001-PN	0.56 lb / 2.5 N	0.02 lb / 0.1 N	80000040	22
8002-PN	1.12 lb / 5 N	0.04 lb / 0.2 N	80000042	22
8003-PN	2.25 lb / 10 N	0.05 lb / 0.25 N	80000043	22
8004-PN	4.5 lb / 20 N	0.125 lb / 0.5 N	80000045	22
8008-PN	11.25 lb / 50 N	0.25 lb / 1 N	80000046	22



## Dial Type Spring Scales

Model	Capacity	Readability	Item No.	Price USD
8011-MA	9 oz / 250 g	0.125 oz / 2 g	80000047	30
8012-MA	18 oz / 500 g	0.25 oz / 5 g	80000048	30
8014-MA	2000 g / 72 oz	20 g / 0.5 oz	80000049	30
8011-MN	250 g / 2.5 N	2 g / 0.02 N	80000019	29
8012-MN	500 g / 5 N	5 g / 0.05 N	80000020	29
8014-MN	2000 g / 20 N	20 g / 0.2 N	80000022	29
8013-MN	1000 g / 10 N	10 g / 0.1 N	80000021	30
8016-00	20 N	1 / 2 N	80000023	60
8015-00	22 hg	1 / 2 hg	80000050	60
8018-50	50 N	2 N	80000051	67



# Compact Bench Scales

## Catapult® 1000

### Economical Compact Shipping Scales

- The sturdy ABS plastic housing and platform with optional stainless steel platform make Catapult sturdy yet easy to maneuver and fit into your workspace.
- Bring the Catapult 1000 right to your work with the integrated carrying handle and its battery powered operation.
- Catapult 1000 not only provides accurate general weight determination but also has the software to support dynamic/animal weighing and display hold.



Model	Capacity	Readability	Platform Size	Item No.	Price USD
C11P9	20 lb / 9 kg	0.01 lb / 0.005 kg	11 in x 12.4 in / 280 mm x 316 mm	83998137	227
C11P20	44 lb / 20 kg	0.02 lb / 0.01 kg	11 in x 12.4 in / 280 mm x 316 mm	83998138	227
C11P75	165 lb / 75 kg	0.1 lb / 0.05 kg	11 in x 12.4 in / 280 mm x 316 mm	83998139	253

Accessories	Item No.	Price USD
Pan, SST, C11P	80251248	42

# ASTM Weights and Weight Sets

## ASTM Class 1 Individual Weights

### Adjusted to meet ASTM Class 1 Tolerances

- 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.
- Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.
- Individual weights 1 mg through 10 kg are supplied in durable polycarbonate cases. Case lids lock tightly to ensure that your weight is held securely and kept clean and dust free.



Without Certificate		
Model	Item No.	Price USD
50kg	30391425	9347
30kg	30391424	5951
25kg	30391423	4711
20kg	30391422	3205
10kg	30391421	2190
5kg	30391420	1190
3kg	30391419	1018
2kg	30391418	795
1kg	30391417	505
500g	30391416	237
300g	30391415	181
200g	80781143	176
100g	80781141	109
50g	80781139	97
30g	30391411	88
20g	80781135	89
10g	80781133	85
5g	80781131	82
3g	30391407	77
2g	80781127	77
1g	80781125	77
500mg	80781123	76
300mg	30391403	76
200mg	80781119	76
100mg	80781117	76
50mg	80781115	76
30mg	30391399	76
20mg	80781111	76
10mg	80781109	76
5mg	80781107	76
3mg	30391395	76
2mg	80781103	76
1mg	80781101	76

Traceable Certificate		
Model	Item No.	Price USD
50kg	30391607	10110
30kg	30391606	6412
25kg	30391605	4753
20kg	30391604	3330
10kg	30391603	2242
5kg	30391602	1292
3kg	30391601	1165
2kg	30391600	877
1kg	30391599	595
500g	30391598	289
300g	30391597	242
200g	30391596	226
100g	30391595	136
50g	30391594	123
30g	30391593	115
20g	30391592	118
10g	30391591	116
5g	30391590	109
3g	30391589	90
2g	30391588	105
1g	30391587	90
500mg	30391586	87
300mg	30391585	87
200mg	30391584	87
100mg	30391583	87
50mg	30391582	87
30mg	30391581	87
20mg	30391580	87
10mg	30391579	87
5mg	30391578	87
3mg	30391577	87
2mg	30391576	87
1mg	30391575	87

NVLAP Certificate		
Model	Item No.	Price USD
50kg	30391458	10343
30kg	30391457	6910
25kg	30391456	4808
20kg	30391455	3389
10kg	30391454	2308
5kg	30391453	1443
3kg	30391452	1195
2kg	30391451	945
1kg	30391450	662
500g	30391449	341
300g	30391448	275
200g	80781144	274
100g	80781142	161
50g	80781140	149
30g	30391444	140
20g	80781136	147
10g	80781134	146
5g	80781132	135
3g	30391440	128
2g	80781128	131
1g	80781126	126
500mg	80781124	119
300mg	30391436	119
200mg	80781120	119
100mg	80781118	119
50mg	80781116	119
30mg	30391432	119
20mg	80781112	119
10mg	80781110	119
5mg	80781108	119
3mg	30391428	119
2mg	80781104	119
1mg	80781102	119

# ASTM Weights and Weight Sets

## ASTM Class 4 Individual Weights

### Adjusted to meet ASTM Class 4 Tolerances

- Can be used for calibration of semi-analytical balances and for student use.
- Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.
- Individual weights 1 mg through 10 kg are supplied in durable polycarbonate cases. Case lids lock tightly to ensure that your weight is held securely and kept clean and dust free.



Without Certificate		
Model	Item No.	Price USD
50kg	30391295	9012
30kg	30391294	5610
25kg	30391293	4248
20kg	30391292	2332
10kg	30391291	1647
5kg	30391290	1091
3kg	30391289	891
2kg	30391288	697
1kg	30391287	445
500g	30391286	208
300g	30391285	146
200g	30391284	130
100g	80780063	84
50g	80780075	69
30g	30391281	69
20g	80780068	60
10g	80780062	60
5g	80780074	48
3g	30391277	48
2g	80780067	48
1g	80780061	48
500mg	80780073	34
300mg	30391273	32
200mg	80780066	34
100mg	80780060	34
50mg	80780072	34
30mg	30391269	32
20mg	80780065	34
10mg	80780059	34
5mg	80780071	34
3mg	30391265	32
2mg	80780064	34
1mg	80780058	33

Traceable Certificate		
Model	Item No.	Price USD
50kg	30391108	8991
30kg	30391107	5662
25kg	30391106	4331
20kg	30391105	2374
10kg	30391104	1713
5kg	30391103	1156
3kg	30391102	940
2kg	30391101	810
1kg	30391100	489
500g	30391099	254
300g	30391098	186
200g	30391097	170
100g	30391096	93
50g	30391095	78
30g	30391094	78
20g	30391093	94
10g	30391092	91
5g	30391091	57
3g	30391090	57
2g	30391089	83
1g	30391088	57
500mg	30391087	65
300mg	30391086	51
200mg	30391085	65
100mg	30391084	65
50mg	30391083	65
30mg	30391082	49
20mg	30391081	65
10mg	30391080	65
5mg	30391079	65
3mg	30391078	51
2mg	30391077	65
1mg	30391076	65

NVLAP Certificate		
Model	Item No.	Price USD
50kg	30391328	9159
30kg	30391327	5831
25kg	30391326	5848
20kg	30391325	2541
10kg	30391324	1875
5kg	30391323	1233
3kg	30391322	1016
2kg	30391321	851
1kg	30391320	534
500g	30391319	286
300g	30391318	225
200g	30391317	208
100g	80850287	137
50g	80850297	130
30g	30391314	130
20g	80850292	126
10g	80850286	122
5g	80850296	118
3g	30391310	118
2g	80850291	117
1g	80850285	113
500mg	80850295	97
300mg	30391306	95
200mg	80850290	96
100mg	80850284	96
50mg	80850294	97
30mg	30391302	96
20mg	80850289	96
10mg	80850283	97
5mg	80850293	95
3mg	30391298	96
2mg	80850288	96
1mg	80850282	96

# ASTM Weights and Weight Sets

## ASTM Class 1 Weight Sets

### Adjusted to meet ASTM Class 1 Tolerances

- 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.
- Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.
- Weight sets 500 g and below include a polycarbonate case. Weight sets where the largest weight is 1 kg and above are supplied in a tough, lightweight, rugged case, designed to protect your weight set under any shipping circumstance.



Without Certificate		
Model	Item No.	Price USD
50 kg-1 g	30391360	20978
50 kg-1 mg	30391359	21425
30 kg-1 g	30391358	14728
30 kg-1 mg	30391357	15250
25 kg-1 g	30391356	14432
25 kg-1 mg	30391355	14878
20 kg-1 g	30391354	9374
20 kg-1 mg	30391353	10861
10 kg-1 g	30391352	7367
10 kg-1 mg	30391351	7735
5 kg-1 g	30391350	5023
5 kg-1 mg	30391349	5505
2 - 2 kg-1 g	30390054	4019
2 - 2 kg-1 mg	30390053	4313
2 kg-1 g	30391348	3272
2 kg-1 mg	30391347	3869
1 kg-1 g	30391346	2455
1 kg-1 mg	30391345	3012
500 g-1 g	30391344	1667
500 g-1 mg	30391343	2261
2 - 200 g-1 g	80781033	882

Without Certificate		
Model	Item No.	Price USD
2 - 200 g-1 mg	80781031	1333
200 g-1 g	30391342	812
200 g-1 mg	30391341	1216
100 g-1 g	80781029	694
100 g-100 mg	30391340	821
100 g-10 mg	30391339	1012
100 g-5 mg	30391338	1068
100 g-1 mg	80781027	1154
50 g-1 g	80781025	670
50 g-100 mg	30391337	812
50 g-10 mg	30391336	935
50 g-5 mg	30391335	1001
50 g-1 mg	80781023	1106
20 g-1 g	30391334	627
20 g-100 mg	30391333	754
20 g-10 mg	30391332	895
20 g-5 mg	30391331	931
20 g-1 mg	30391330	1082
500 mg-10 mg	30391329	455
500 mg-1 mg	80781021	635

# ASTM Weights and Weight Sets

## ASTM Class 1 Weight Sets

Adjusted to meet ASTM Class 1 Tolerances

Traceable Certificate		
Model	Item No.	Price USD
50 kg-1 g	30391574	22858
50 kg-1 mg	30391573	23737
30 kg-1 g	30391572	16262
30 kg-1 mg	30391571	16996
25 kg-1 g	30391570	14800
25 kg-1 mg	30391569	15531
20 kg-1 g	30391568	10403
20 kg-1 mg	30391567	11210
10 kg-1 g	30391566	7621
10 kg-1 mg	30391565	8427
5 kg-1 g	30391564	5643
5 kg-1 mg	30391563	6375
2 - 2 kg-1 g	30390060	4615
2 - 2 kg-1 mg	30390059	5421
2 kg-1 g	30391562	3627
2 kg-1 mg	30391561	4389
1 kg-1 g	30391560	2886
1 kg-1 mg	30391559	3648
500 g-1 g	30391558	2097
500 g-1 mg	30391557	2902
2 - 200 g-1 g	30390058	1274
2 - 200 g-1 mg	30390057	2050
200 g-1 g	30391556	1060
200 g-1 mg	30391555	1834
100 g-1 g	30391554	877
100 g-100 mg	30391553	1086
100 g-10 mg	30391552	1424
100 g-5 mg	30391551	1442
100 g-1 mg	30391550	1628
50 g-1 g	30391549	913
50 g-100 mg	30391548	1083
50 g-10 mg	30391547	1292
50 g-5 mg	30391546	1376
50 g-1 mg	30391545	1560
20 g-1 g	30391544	743
20 g-100 mg	30391543	916
20 g-10 mg	30391542	1242
20 g-5 mg	30391541	1177
20 g-1 mg	30391540	1459
500 mg-10 mg	30391539	731
500 mg-1 mg	30391538	912

NVLAP Certificate		
Model	Item No.	Price USD
50 kg-1 g	30391392	23297
50 kg-1 mg	30391391	24145
30 kg-1 g	30391390	16723
30 kg-1 mg	30391389	17677
25 kg-1 g	30391388	15149
25 kg-1 mg	30391387	16066
20 kg-1 g	30391386	10819
20 kg-1 mg	30391385	11824
10 kg-1 g	30391384	8072
10 kg-1 mg	30391383	9055
5 kg-1 g	30391382	6037
5 kg-1 mg	30391381	7032
2 - 2 kg-1 g	30390056	4996
2 - 2 kg-1 mg	30390055	5992
2 kg-1 g	30391380	3978
2 kg-1 mg	30391379	4975
1 kg-1 g	30391378	3212
1 kg-1 mg	30391377	4206
500 g-1 g	30391376	2398
500 g-1 mg	30391375	3535
2 - 200 g-1 g	80781034	1473
2 - 200 g-1 mg	80781032	2623
200 g-1 g	30391374	1292
200 g-1 mg	30391373	2417
100 g-1 g	80781030	1211
100 g-100 mg	30391372	1532
100 g-10 mg	30391371	1956
100 g-5 mg	30391370	1773
100 g-1 mg	80781028	2272
50 g-1 g	80781026	1160
50 g-100 mg	30391369	1459
50 g-10 mg	30391368	1822
50 g-5 mg	30391367	1891
50 g-1 mg	80781024	2126
20 g-1 g	30391366	877
20 g-100 mg	30391365	1208
20 g-10 mg	30391364	1547
20 g-5 mg	30391363	1473
20 g-1 mg	30391362	1921
500 mg-10 mg	30391361	976
500 mg-1 mg	80781022	1162

# ASTM Weights and Weight Sets

## ASTM Class 4 Weight Sets

### Adjusted to meet ASTM Class 4 Tolerances



- Can be used for calibration of semi-analytical balances and for student use.
- Weights are designed so the specifications on surface finish, markings, construction, material density, and magnetic properties become more restrictive as the weight tolerances decrease.
- Weight sets 500 g and below include a polycarbonate case. Weight sets where the largest weight is 1 kg and above are supplied in a tough, lightweight, rugged case, designed to protect your weight set under any shipping circumstance.

Without Certificate		
Model	Item No.	Price USD
50 kg - 1 g	30391228	17257
50 kg - 1 mg	30391227	17517
30 kg - 1 g	30391226	12050
30 kg - 1 mg	30391225	12534
25 kg - 1 g	30391224	11681
25 kg - 1mg	30391223	12276
20 kg - 1 g	30391222	7701
20 kg - 1 mg	30391221	9032
10 kg - 1 g	30391220	6027
10 kg -1 mg	30391219	6355
5 kg -1 g	30391218	4152
5 kg - 1 mg	30391217	4508
2 - 2kg-1 g	30390048	3272
2 - 2 kg-1 mg	30390047	3853
2 kg - 1 g	30391216	2707
2 kg - 1 mg	30391215	3156
1 kg - 1 g	30391214	2038
1 kg - 1 mg	30391213	2501
500 g - 1 g	30391212	1363
500 g - 1 mg	30391211	1755
2 - 200 g - 1 g	30390046	518

Without Certificate		
Model	Item No.	Price USD
2 - 200 g - 1 mg	30390045	792
200 g - 1 g	30391210	443
200 g - 1 mg	30391209	632
100 g - 1 g	30391208	496
100 g - 100 mg	30391207	474
100 g - 10 mg	30391206	549
100 g - 5 mg	30391205	587
100 g - 1 mg	80780101	700
50 g - 1 g	30391204	399
50 g - 100 mg	30391203	469
50 g - 10 mg	30391202	599
50 g - 5 mg	30391201	549
50 g - 1 mg	80780111	620
20 g - 1 g	30391200	366
20 g - 100 mg	30391199	436
20 g - 10 mg	30391198	483
20 g - 5 mg	30391197	527
20 g - 1 mg	30391196	587
500 mg - 10 mg	30391195	225
500 mg - 1 mg	80780100	327

# ASTM Weights and Weight Sets

## ASTM Class 4 Weight Sets

Adjusted to meet ASTM Class 4 Tolerances

Traceable Certificate		
Model	Item No.	Price USD
50 kg - 1 g	30391075	19780
50 kg - 1 mg	30391074	20511
30 kg - 1 g	30391073	14022
30 kg - 1 mg	30391072	14652
25 kg - 1 g	30391071	12822
25 kg - 1mg	30391070	13482
20 kg - 1 g	30391069	9012
20 kg - 1 mg	30391068	9670
10 kg - 1 g	30391067	6593
10 kg -1 mg	30391066	7253
5 kg -1 g	30391065	4838
5 kg - 1 mg	30391064	5567
2 - 2kg-1 g	30390044	4029
2 - 2 kg-1 mg	30390043	4688
2 kg - 1 g	30391063	3151
2 kg - 1 mg	30391062	3788
1 kg - 1 g	30391061	2490
1 kg - 1 mg	30391060	3151
500 g - 1 g	30391059	1816
500 g - 1 mg	30391058	2481
2 - 200 g - 1 g	30390042	810
2 - 200 g - 1 mg	30390041	1126
200 g - 1 g	30391057	678
200 g - 1 mg	30391056	1026
100 g - 1 g	30391055	657
100 g - 100 mg	30391054	662
100 g - 10 mg	30391053	810
100 g - 5 mg	30391052	885
100 g - 1 mg	30391051	1131
50 g - 1 g	30391050	540
50 g - 100 mg	30391049	678
50 g - 10 mg	30391048	947
50 g - 5 mg	30391047	877
50 g - 1 mg	30391046	933
20 g - 1 g	30391045	462
20 g - 100 mg	30391044	588
20 g - 10 mg	30391043	678
20 g - 5 mg	30391042	717
20 g - 1 mg	30391041	890
500 mg - 10 mg	30391040	440
500 mg - 1 mg	30391039	465

NVLAP Certificate		
Model	Item No.	Price USD
50 kg - 1 g	30391262	20491
50 kg - 1 mg	30391261	20981
30 kg - 1 g	30391260	14483
30 kg - 1 mg	30391259	15317
25 kg - 1 g	30391258	13157
25 kg - 1mg	30391257	13993
20 kg - 1 g	30391256	9414
20 kg - 1 mg	30391255	10331
10 kg - 1 g	30391254	6999
10 kg -1 mg	30391253	7867
5 kg -1 g	30391252	5246
5 kg - 1 mg	30391251	5978
2 - 2kg-1 g	30390052	4316
2 - 2 kg-1 mg	30390051	5325
2 kg - 1 g	30391250	3494
2 kg - 1 mg	30391249	4418
1 kg - 1 g	30391248	2916
1 kg - 1 mg	30391247	3664
500 g - 1 g	30391246	2125
500 g - 1 mg	30391245	2952
2 - 200 g - 1 g	30390050	1051
2 - 200 g - 1 mg	30390049	1760
200 g - 1 g	30391244	917
200 g - 1 mg	30391243	1619
100 g - 1 g	30391242	817
100 g - 100 mg	30391241	1110
100 g - 10 mg	30391240	1326
100 g - 5 mg	30391239	1376
100 g - 1 mg	80850265	1560
50 g - 1 g	30391238	751
50 g - 100 mg	30391237	967
50 g - 10 mg	30391236	1292
50 g - 5 mg	30391235	1417
50 g - 1 mg	80850264	1459
20 g - 1 g	30391234	662
20 g - 100 mg	30391233	778
20 g - 10 mg	30391232	1141
20 g - 5 mg	30391231	950
20 g - 1 mg	30391230	1310
500 mg - 10 mg	30391229	712
500 mg - 1 mg	80850263	783



# ASTM Weights and Weight Sets

## ASTM Class 1 Electronic Balance Weights

### Adjusted to meet ASTM Class 1 Tolerances

- Can be used to check or verify the accuracy of your balance and/or scale between calibrations.
- Weights are available in a cylindrical design up through 5 kg and a stackable grip-handle design from 5 kg through 30 kg for all necessary testing, calibration and adjustment of electronic scales and balances.
- Weights 10 g through 10 kg are supplied in a high quality polycarbonate case; a nylon glove is included to protect weights during use.



Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	Price USD	Model	Item No.	Price USD	Model	Item No.	Price USD
30 kg grip	80781007	2031	30 kg grip	30391520	2206	30 kg grip	80781008	2303
25 kg grip	30391488	1732	25 kg grip	30391519	1804	25 kg grip	30391537	1841
24 kg grip	30391487	1682	24 kg grip	30391518	1767	24 kg grip	30391536	1770
20 kg grip	80781005	1482	20 kg grip	30391517	1532	20 kg grip	80781006	1552
16 kg grip	30391485	1346	16 kg grip	30391516	1390	16 kg grip	30391535	1420
10 kg grip	80781003	963	10 kg grip	30391515	1056	10 kg grip	80781004	1092
8 kg grip	30391483	929	8 kg grip	30391514	998	8 kg grip	30391534	1035
5 kg grip	80781001	702	5 kg grip	30391513	748	5 kg grip	80781002	842
5 kg cyl	30391481	447	5 kg cyl	30391512	494	5 kg cyl	30391533	574
4 kg grip	30391480	652	4 kg grip	30391511	682	4 kg grip	30391532	798
4 kg cyl	80780027	382	4 kg cyl	30391510	462	4 kg cyl	80850275	530
3 kg cyl	30391478	297	3 kg cyl	30391509	368	3 kg cyl	30391531	446
2 kg cyl	80780024	202	2 kg cyl	30391508	263	2 kg cyl	80850272	322
1500 g cyl	30391476	183	1500 g cyl	30391507	265	1500 g cyl	30391530	334
1000 g cyl	80780021	162	1000 g cyl	30391506	206	1000 g cyl	80850269	260
600 g cyl	30391474	152	600 g cyl	30391505	202	600 g cyl	30391529	270
500 g cyl	80780029	131	500 g cyl	30391504	179	500 g cyl	80850277	249
400 g cyl	80780026	129	400 g cyl	30391503	176	400 g cyl	80850274	237
300 g cyl	30391471	107	300 g cyl	30391502	159	300 g cyl	30391528	224
200 g cyl	80780023	96	200 g cyl	30391501	156	200 g cyl	80850271	208
160 g cyl	30391469	101	160 g cyl	30391500	158	160 g cyl	30391527	227
150 g cyl	30391468	93	150 g cyl	30391499	158	150 g cyl	30391526	225
100 g cyl	80780020	81	100 g cyl	30391498	108	100 g cyl	80850268	156
80 g cyl	30391466	90	80 g cyl	30391497	125	80 g cyl	30391525	156
70 g cyl	30391465	82	70 g cyl	30391496	125	70 g cyl	30391524	156
60 g cyl	30391464	78	60 g cyl	30391495	125	60 g cyl	30391523	156
50 g cyl	80780028	72	50 g cyl	30391494	104	50 g cyl	80850276	156
40 g cyl	80780025	72	40 g cyl	30391493	104	40 g cyl	80850273	156
30 g cyl	30391461	72	30 g cyl	30391492	104	30 g cyl	30391522	156
20 g cyl	80780022	72	20 g cyl	30391491	104	20 g cyl	80850270	156
10 g cyl	30391459	72	10 g cyl	30391490	104	10 g cyl	30391521	156

# ASTM Weights and Weight Sets

## ASTM Class 4 Electronic Balance Weights

### Adjusted to meet ASTM Class 4 Tolerances

- Can be used to check or verify the accuracy of your balance and/or scale between calibrations.
- Weights are available in a cylindrical design up through 5 kg and a stackable grip-handle design from 5 kg through 30 kg for all necessary testing, calibration and adjustment of electronic scales and balances.
- Weights 10 g through 10 kg are supplied in a high quality polycarbonate case; a nylon glove is included to protect weights during use.



Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	Price USD	Model	Item No.	Price USD	Model	Item No.	Price USD
30 kg grip	30391139	1397	30 kg grip	30391170	1575	30 kg grip	30391194	1581
25 kg grip	30391138	1245	25 kg grip	30391169	1249	25 kg grip	30391193	1328
24 kg grip	30391137	1184	24 kg grip	30391168	1213	24 kg grip	30391192	1265
20 kg grip	30391136	1014	20 kg grip	30391167	1066	20 kg grip	30391191	1108
16 kg grip	30391135	887	16 kg grip	30391166	983	16 kg grip	30391190	985
10 kg grip	30391134	660	10 kg grip	30391165	736	10 kg grip	30391189	760
8 kg grip	30391133	777	8 kg grip	30391164	767	8 kg grip	30391188	864
5 kg grip	30391132	438	5 kg grip	30391163	495	5 kg grip	30391187	518
5 kg cyl	30391131	348	5 kg cyl	30391162	392	5 kg cyl	30391186	442
4 kg grip	30391130	480	4 kg grip	30391161	495	4 kg grip	30391185	575
4 kg cyl	30391129	338	4 kg cyl	30391160	396	4 kg cyl	30391184	412
3 kg cyl	30391128	269	3 kg cyl	30391159	339	3 kg cyl	30391183	349
2 kg cyl	80780145	169	2 kg cyl	30391158	206	2 kg cyl	80780146	250
1500 g cyl	30391126	169	1500 g cyl	30391157	229	1500 g cyl	30391182	305
1000 g cyl	80780143	136	1000 g cyl	30391156	165	1000 g cyl	80780144	209
600 g cyl	30391124	140	600 g cyl	30391155	179	600 g cyl	30391181	207
500 g cyl	80780141	102	500 g cyl	30391154	143	500 g cyl	80780142	198
400 g cyl	80780139	116	400 g cyl	30391153	136	400 g cyl	80780140	184
300 g cyl	80780137	90	300 g cyl	30391152	125	300 g cyl	80780138	176
200 g cyl	80780135	80	200 g cyl	30391151	119	200 g cyl	80780136	170
160 g cyl	30391119	95	160 g cyl	30391150	130	160 g cyl	30391180	190
150 g cyl	30391118	75	150 g cyl	30391149	136	150 g cyl	30391179	190
100 g cyl	80780133	68	100 g cyl	30391148	80	100 g cyl	80780134	129
80 g cyl	30391116	80	80 g cyl	30391147	104	80 g cyl	30391178	129
70 g cyl	30391115	78	70 g cyl	30391146	104	70 g cyl	30391177	129
60 g cyl	30391114	73	60 g cyl	30391145	104	60 g cyl	30391176	129
50 g cyl	30391113	64	50 g cyl	30391144	88	50 g cyl	30391175	122
40 g cyl	30391112	64	40 g cyl	30391143	88	40 g cyl	30391174	122
30 g cyl	30391111	64	30 g cyl	30391142	88	30 g cyl	30391173	122
20 g cyl	30391110	64	20 g cyl	30391141	88	20 g cyl	30391172	122
10 g cyl	30391109	64	10 g cyl	30391140	88	10 g cyl	30391171	122

# ASTM Weights & Weight Sets

## ASTM Class 6 Weights - Cylindrical

Adjusted to Meet or Exceed ASTM Class 6 Tolerances

- Weights from 1 g to 2 kg are Stainless Steel and Weights 500 mg and below are Aluminum.
- Weight Sets include a Weight Case.
- Individual Weights do not include a case.



## Cylindrical Weights

Model	Item No.	Price USD
Weight Set, 500 mg-1 mg, ASTM 6, Cyl	80850110	71
Weight Set, 50 g-10 mg, ASTM 6, Cyl	80850111	167
Weight Set, 100 g-1 mg, ASTM 6, Cyl	80850112	201
Weight Set, 200 g-1 mg, ASTM 6, Cyl	80850113	246
Weight Set, 500 g-1 g, ASTM 6, Cyl	80850114	315
Weight Set, 1 kg-1 g, ASTM 6, Cyl	80850115	432
Weight Set, 2 kg-1 g, ASTM 6, Cyl	80850116	657
Weight Set, 50 g-1 g, ASTM 6, Cyl	80850117	138
Weight, 1 g, ASTM 6, Cyl, Body	80850118	14
Weight, 2 g, ASTM 6, Cyl, Body	80850119	14
Weight, 5 g, ASTM 6, Cyl, Body	80850120	15
Weight, 10 g, ASTM 6, Cyl, Body	80850121	16
Weight, 20 g, ASTM 6, Cyl, Body	80850122	19
Weight, 50 g, ASTM 6, Cyl, Body	80850123	21
Weight, 100 g, ASTM 6, Cyl, Body	80850124	30
Weight, 200 g, ASTM 6, Cyl, Body	80850125	40
Weight, 300 g, ASTM 6, Cyl, Body	80850126	51
Weight, 500 g, ASTM 6, Cyl, Body	80850127	63
Weight, 1 kg, ASTM 6, Cyl, Body	80850128	111
Weight, 2 kg, ASTM 6, Cyl, Body	80850129	176

# ASTM Weights & Weight Sets

## ASTM Class 6 Weights - Cylindrical

Adjusted to Meet or Exceed ASTM Class 6 Tolerances

### Hooked Weights

Model	Item No.	Price USD
Weight Set, 1 kg-10 g, ASTM 6, Hooked	80850130	164
Weight, 10 g, Hooked	80850131	19
Weight, 20 g, Hooked	80850132	19
Weight, 50 g, Hooked	80850133	20
Weight, 100 g, Hooked	80850134	21
Weight, 200 g, Hooked	80850135	31
Weight, 500 g, Hooked	80850136	42
Weight, 1 kg, Hooked	80850137	80

### Slotted Weights

Model	Item No.	Price USD
Weight Set, Slotted 500 g-10 g	80850138	135
Weight Set, Slotted 500 g-1 g	80850139	173
Weight Set, 1 g, ASTM 6, Slotted	80850140	21
Weight Set, 2 g, ASTM 6, Slotted	80850141	21
Weight Set, 5 g, ASTM 6, Slotted	80850142	21
Weight Set, 10 g, ASTM 6, Slotted	80850143	21
Weight Set, 20 g, ASTM 6, Slotted	80850144	21
Weight Set, 50 g, ASTM 6, Slotted	80850145	21
Weight Set, 100 g, ASTM 6, Slotted	80850146	23
Weight Set, 200 g, ASTM 6, Slotted	80850147	29
Weight Set, 500 g, ASTM 6, Slotted	80850148	49
Weight, 50 g, Hanger	80850149	29

# NIST Class F Weights

## NIST Class F Cast Iron Grip Weights

Manufactured to meet NIST Handbook 105-1 specifications

- Cast Iron Grip Handle Weights are primarily used to test commercial weighing devices by state and local weights and measures officials, device installers, and service technicians.
- Cast Iron Grip Handle Weights larger than 5 kg/10 lb are legal-for-trade, which means their design is acceptable for use in checking weighing devices where the price of the item being purchased is based on its weight.
- All surfaces are smooth and free of scratches, dents and pores as outlined in NIST Handbook 105-1.



Without Certificate		
Model	Item No.	Price USD
5000 lb	30391735	14919
3000 lb	30391734	9358
2500 lb	30391733	8400
2000 lb	30391732	7426
1500 lb	30391731	6731
1250 lb	30391730	5622
1000 lb	30391729	2682
500 lb	30391728	1686
250 lb	30391727	1546
200 lb	30391726	1347
100 lb	80850311	592
50 lb	80850310	167
30 lb	30391723	184
25 lb	80850309	119
20 lb	80850308	94
10 lb	80850307	78
5 lb	80850306	60

Traceable Certificate		
Model	Item No.	Price USD
5000 lb	30391764	16432
3000 lb	30391763	9676
2500 lb	30391762	8936
2000 lb	30391761	7587
1500 lb	30391760	6257
1250 lb	30391759	5843
1000 lb	30391758	3223
500 lb	30391757	2177
250 lb	30391756	1829
200 lb	30391755	1609
100 lb	30391754	828
50 lb	30391753	219
30 lb	30391752	198
25 lb	30391751	185
20 lb	30391750	152
10 lb	30391749	125
5 lb	30391748	110

NVLAP Certificate		
Model	Item No.	Price USD
5000 lb	30391781	16818
3000 lb	30391780	10415
2500 lb	30391779	9104
2000 lb	30391778	7716
1500 lb	30391777	6386
1250 lb	30391776	5974
1000 lb	30391775	3326
500 lb	30391774	2280
250 lb	30391773	1932
200 lb	30391772	1712
100 lb	30391771	893
50 lb	30391770	256
30 lb	30391769	239
25 lb	30391768	189
20 lb	30391767	189
10 lb	30391766	166
5 lb	30391765	142

Without Certificate		
Model	Item No.	Price USD
2000 kg	30391718	14586
1000 kg	30391717	7431
500 kg	30391716	3016
250 kg	30391715	1729
200 kg	30391714	1486
100 kg	30391713	1363
50 kg	80850305	599
25 kg	80850304	189
20 kg	80850303	141
10 kg	80850302	135
5 kg	80850301	82
2 kg	80850300	71

Traceable Certificate		
Model	Item No.	Price USD
2000 kg	30391747	15819
1000 kg	30391746	7813
500 kg	30391745	3610
250 kg	30391744	2065
200 kg	30391743	1867
100 kg	30391742	1641
50 kg	30391741	794
25 kg	30391740	251
20 kg	30391739	201
10 kg	30391738	156
5 kg	30391737	125
2 kg	30391736	108

NVLAP Certificate		
Model	Item No.	Price USD
2000 kg	30391706	16206
1000 kg	30391705	7943
500 kg	30391704	3713
250 kg	30391703	2169
200 kg	30391702	1969
100 kg	30391701	1744
50 kg	30391700	844
25 kg	30391699	293
20 kg	30391698	246
10 kg	30391697	198
5 kg	30391696	156
2 kg	30391695	141

# NIST Class F Weights

## NIST Class F Stainless Steel Individual Weights

Manufactured to meet NIST Handbook 105-1 specifications

- Stainless Steel Test Weights are primarily used to test commercial weighing devices by state and local weights and measures officials, device installers, and service technicians.
- Weights 5 kg /10 lb and below must be made of stainless steel of quality no lower than 300 series. Adjusting cavities are typically on the top of the weight and must be tamper resistant.
- All surfaces have a satin finish and conform to specifications in NIST Handbook 105-1.



Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	Price USD	Model	Item No.	Price USD	Model	Item No.	Price USD
20 kg grip	30390593	822	20 kg grip	30390657	920	20 kg grip	30390721	978
16 kg grip	30390592	807	16 kg grip	30390656	902	16 kg grip	30390720	969
10 kg grip	30390591	596	10 kg grip	30390655	654	10 kg grip	30390719	698
8 kg grip	30390590	563	8 kg grip	30390654	618	8 kg grip	30390718	679
5 kg grip	30390589	350	5 kg grip	30390653	382	5 kg grip	30390717	467
5000 g	30390588	222	5000 g	30390652	267	5000 g	30390716	327
4000 g	30390587	204	4000 g	30390651	256	4000 g	30390715	311
3000 g	30390586	186	3000 g	30390650	243	3000 g	30390714	296
2000 g	30390585	131	2000 g	30390649	199	2000 g	30390713	238
1000 g	30390584	76	1000 g	30390648	155	1000 g	30390712	184
500 g	30390582	69	500 g	30390646	145	500 g	30390710	173
400 g	30390580	66	400 g	30390644	143	400 g	30390708	173
300 g	30390579	64	300 g	30390643	120	300 g	30390707	142
200 g	30390577	47	200 g	30390641	104	200 g	30390705	127
100 g	30390575	44	100 g	30390639	94	100 g	30390703	112
50 g	30390573	38	50 g	30390637	91	50 g	30390701	112
30 g	30390572	37	30 g	30390636	90	30 g	30390700	103
20 g	30390571	35	20 g	30390635	90	20 g	30390699	103
10 g	30390570	35	10 g	30390634	90	10 g	30390698	103
5 g	30390569	29	5 g	30390633	83	5 g	30390697	93
3 g	30390568	29	3 g	30390632	83	3 g	30390696	93
2 g	30390567	29	2 g	30390631	83	2 g	30390695	93
1 g	30390566	29	1 g	30390630	83	1 g	30390694	93

# NIST Class F Weights

## NIST Class F Stainless Steel Individual Weights

Manufactured to meet NIST Handbook 105-1 specifications

Without Certificate			Traceable Certificate			NVLAP Certificate		
Model	Item No.	Price USD	Model	Item No.	Price USD	Model	Item No.	Price USD
20 lb. grip	30390550	546	20 lb. grip	30390614	591	20 lb. grip	30390678	666
10 lb. grip	30390549	333	10 lb. grip	30390613	461	10 lb. grip	30390677	567
10 lb.	30390548	217	10 lb.	30390612	278	10 lb.	30390676	334
5 lb.	30390547	141	5 lb.	30390611	218	5 lb.	30390675	261
4 lb.	30390546	133	4 lb.	30390610	211	4 lb.	30390674	256
3 lb.	30390545	124	3 lb.	30390609	204	3 lb.	30390673	249
2 lb.	30390544	87	2 lb.	30390608	171	2 lb.	30390672	207
1 lb.	30390542	64	1 lb.	30390606	156	1 lb.	30390670	191
12 oz	30390540	53	12 oz	30390604	106	12 oz	30390668	127
8 oz	30390539	50	8 oz	30390603	102	8 oz	30390667	127
8 oz cube	30390538	113	8 oz cube	30390602	149	8 oz cube	30390666	174
4 oz	30390537	45	4 oz	30390601	99	4 oz	30390665	118
4 oz cube	30390536	101	4 oz cube	30390600	141	4 oz cube	30390664	166
2 oz	30390535	40	2 oz	30390599	96	2 oz	30390663	117
2 oz cube	30390534	91	2 oz cube	30390598	133	2 oz cube	30390662	160
1 oz	30390533	37	1 oz	30390597	94	1 oz	30390661	112

Weights by



# NIST Class F Weights

## NIST Class F Stainless Steel Weigh Sets

Manufactured to meet NIST Handbook 105-1 specifications

- Stainless Steel Test Weights are primarily used to test commercial weighing devices by state and local weights and measures officials, device installers, and service technicians.
- Weights 5 kg /10 lb and below must be made of stainless steel of quality no lower than 300 series. Adjusting cavities are typically on the top of the weight and must be tamper resistant.
- All surfaces have a satin finish and conform to specifications in NIST Handbook 105-1.



Without Certificate		
Model	Item No.	Price USD
5000 g-1 mg	30390403	857
5000 g-1 mg	30390397	1493
5000 g-1 g	30390405	753
5000 g-1 g	30390399	1377
2000 g-1 mg	30390406	637
2000 g-1 g	30390408	559
2000 g-10 mg	30390407	605
2000 g-1 mg	30390400	1438
1000 g-1 g	30390411	476
500 g-1 g	30390414	373
100 g-1 mg	30390415	266
50 g-1 g	30390420	180
50 g-10 mg	30390419	227
10 lb-1/32 oz	30390384	813
10 lb-.001 lb	30390383	824
5 lb-.001 lb	30390373	1166
5 lb-.001 lb	30390375	1154
5 lb-1/32 oz	30390376	1136
5 lb-.05 oz	30390374	1165
5 lb-1/32 oz	30390387	550
4 oz-1/32 oz	30390379	213
.2 lb-.001 lb	30390381	229

Traceable Certificate		
Model	Item No.	Price USD
5000 g-1 mg	30390459	939
5000 g-1 mg	30390453	1592
5000 g-1 g	30390461	848
5000 g-1 g	30390455	1497
2000 g-1 mg	30390462	693
2000 g-1 g	30390464	632
2000 g-10 mg	30390463	665
2000 g-1 mg	30390456	1552
1000 g-1 g	30390467	562
500 g-1 g	30390470	480
100 g-1 mg	30390471	396
50 g-1 g	30390476	201
50 g-10 mg	30390475	358
10 lb-1/32 oz	30390440	1246
10 lb-.001 lb	30390439	1260
5 lb-.001 lb	30390429	1467
5 lb-.001 lb	30390431	1441
5 lb-1/32 oz	30390432	1442
5 lb-.05 oz	30390430	1467
5 lb-1/32 oz	30390443	921
4 oz-1/32 oz	30390435	335
.2 lb-.001 lb	30390437	357

NVLAP Certificate		
Model	Item No.	Price USD
5000 g-1 mg	30390515	1143
5000 g-1 mg	30390509	1717
5000 g-1 g	30390517	1027
5000 g-1 g	30390511	1629
2000 g-1 mg	30390518	841
2000 g-1 g	30390520	768
2000 g-10 mg	30390519	817
2000 g-1 mg	30390512	1669
1000 g-1 g	30390523	684
500 g-1 g	30390526	587
100 g-1 mg	30390527	490
50 g-1 g	30390532	252
50 g-10 mg	30390531	432
10 lb-1/32 oz	30390496	1517
10 lb-.001 lb	30390495	1542
5 lb-.001 lb	30390485	1726
5 lb-.001 lb	30390487	1709
5 lb-1/32 oz	30390488	1693
5 lb-.05 oz	30390486	1726
5 lb-1/32 oz	30390499	1109
4 oz-1/32 oz	30390491	570
.2 lb-.001 lb	30390493	455





# Open Air Shakers

## Light Duty Orbital Shakers

- Variable speed microprocessor control
- Low profile design
- 15 mm orbit



The OHAUS Light Duty Analog Shaker is an economical shaker designed for educational labs or basic shaking applications.

Model	Speed Range	Orbit	Max. Weight Cap.	Tray Dim. (L x W)	Item No.	Price USD
SHLD0415AL	40 to 300 rpm	15 mm (0.6")	8 lbs (3.6 kg)	11.75 x 8.75" (29.9 x 22.2 cm)	30391891	1371

## Light Duty Orbital Shakers

- General purpose shaker
- LED displays for speed and time
- 3 mm or 15 mm orbit



The OHAUS Digital Light Duty Orbital Shaker is ideal for a wide variety of shaking applications. Tray includes a non-skid rubber mat. Remove the mat to mount a variety of optional flask clamps or test tube racks directly onto the tray.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Max. Weight Cap.	Tray Dim. (L x W)	Item No.	Price USD
SHLD0403DG	100 to 1200 rpm	+/-2% above 100 rpm	1 sec to 160 hours	3 mm (0.12")	8 lbs (3.6 kg)	11.75 x 8.75" (29.9 x 22.2 cm)	30391898	1721
SHLD0415DG	40 to 300 rpm	+/-2 rpm below 100 rpm	1 sec to 160 hours	15 mm (0.6")	8 lbs (3.6 kg)	11.75 x 8.75" (29.9 x 22.2 cm)	30391912	1831

# Open Air Shakers

## Light Duty Orbital Shakers

- Holds up to 4 microplates or 2 micro-tube racks
- Accepts deep well plates
- Timer with audible alarm



The OHAUS Microplate Shaker is ideal for immunoassays and general microplate shaking, and is designed to be used in a variety of environmental conditions.

Model	Speed Range	Speed Accuracy	Timer	Orbit	Max. Weight Cap.	Tray Dim. (L x W)	Item No.	Price USD
SHLDMP03DG	100 to 1200 rpm	± 2%	1 sec to 160 hours	3 mm (0.12")	4 microplates or 2 micro-tube racks	11 × 7.75" (27.9 × 19.7 cm)	30391905	1393

# Vortex Mixers

## Fixed Speed Vortex Mixers

- Sturdy design
- Fixed high speed mixing
- Touch mode operation

Built sturdy to provide stable and reliable vortexing action. Starts mixing when the cup head is pressed down. Speed is fixed at full rpm to provide vigorous vortexing of samples.



Model	Speed Range 120V	Orbit	Controls	Duty Rating	Item No.	Price USD
VXMNFS	3200 rpm	4.9 mm (0.19")	None	Intermittent duty	30392108	333

## Analog Mini Vortex Mixers

- Sturdy design
- Variable, analog speed control
- Continuous or touch mode operation

Built sturdy to provide stable and reliable vortexing action. Control allows low rpm startup for gentle shaking or high speed mixing for vigorous vortexing of samples. Two modes of operation; continuous mode when using accessory attachments or touch mode which activates mixing when depressing the cup head.



Model	Speed Range* 120V	Orbit	Controls	Duty Rating	Item No.	Price USD
VXMNAL	300 to 3200 rpm	4.9 mm (0.19")	Auto/Off/ On Rocker Switch, Speed Knob: Variable 1 to 10 Dial Marks	Intermittent duty	30392115	377

\* Maximum speed will vary depending on accessory used.

# Vortex Mixers

## Digital Mini Vortex Mixers

- Sturdy design
- LED displays for speed and time
- Continuous or touch mode operation

Built sturdy to provide stable and reliable vortexing action. Ideal for applications that demand repeatable results. Microprocessor control maintains set speed for strong, consistent mixing action. Timer will display elapsed time or, when programmed to user defined time limit, the unit will shut off when time reaches zero. Two modes of operation; continuous mode when using accessory attachments or touch mode which activates mixing when depressing the cup head.



Model	Speed Range* 120V	Timer	Orbit	Controls	Duty Rating	Item No.	Price USD
VXMNDG	500 to 3000 rpm	1 sec to 160 hours	4.9 mm (0.19")	Auto/ Standby/ On Rocker Switch, LED Displays for Speed/ Time, Up/Down Buttons for Set-Point Control	Intermittent duty	30392122	481

\* Maximum speed will vary depending on accessory used.

# Vortex Mixers

## Pulsing Mini Vortex Mixers

- Sturdy design
- LED displays for time and speed
- Glass bead cell disruption/homogenization

Built sturdy to provide stable and reliable vortexing action. Powerful pulsing vortex action produces excellent cell disruption for glass bead procedures. Capable of complete cell disruption of samples in only minutes. Unique pulsing action reduces heat generation while providing more effective mixing and disruption. Displayed time counts up during continuous operation and counts down during timed runs.



Model	Speed Range* 120V	Timer	Orbit	Controls	Duty Rating	Item No.	Price USD
VXMNPS	500 to 3000 rpm	1 sec to 160 hours	2.5 mm (0.098")	Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control Pulse Button	Intermittent duty	30392129	611

\* Maximum speed will vary depending on accessory used.

# Dry Block Heaters

## Dry Block Heaters

- Exceptional temperature uniformity and stability
- Optional external temperature probe
- Holds interchangeable modular blocks

Designed for applications that require repeatable results and superior temperature stability. These multi-purpose units are ideal for incubation and activation of cultures, enzyme reactions, immunoassays, melting/boiling points, and a wide variety of other laboratory procedures. Integral support rod holder with locking knob accepts optional External Temperature Probe Kit. Optional External Temperature Probe Kit monitors actual block or sample temperature. Each of the five models accepts separate interchangeable modular blocks, accommodating various tube sizes from 0.2 mL micro-tubes to 50 mL centrifuge tubes. Each block has a thermometer well for measuring block temperature. Efficient heating due to close tube-and-block contact for maximum heat retention. Heaters require OHAUS modular heating blocks for operation.



Model	Size	Temperature Range	Temperature Stability @ 37°C	Heat-Up Time to 100°C	Item No.	Price USD
HB1DG	1 block	Ambient +5°C to 120°C	120 volt units: ± 0.1°C	≤ 16 minutes	30392059	717
HB2DG	2 block			≤ 16 minutes	30392080	799
HB4DG	4 block			≤ 23 minutes	30392087	1090
HB6DG	6 block			≤ 30 minutes	30392094	1424

Description	Item No.	Price USD
Optional External Temperature Probe Kit	30400246	286

# Dry Block Heaters

## Dry Block Heaters

- Multi-purpose use
- Holds interchangeable modular blocks
- Analog controls



High wattage, constant-temperature Dry Block Heaters are economical, versatile and compact. These multi-purpose units are ideal for incubation and activation of cultures, enzyme reactions, immunoassays, melting/boiling points and a wide variety of other laboratory procedures. Each of the five models accept separate interchangeable modular blocks, accommodating various sample enclosures such as micro-tubes, centrifuge tubes, vials, microplates, and PCR strips or tubes. Each block has a thermometer well for measuring block temperature. Anodized aluminum modular blocks provide superior temperature stability and heat transfer. Heaters require OHAUS modular heating blocks for operation.

Model	Size	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Item No.	Price USD
HB1AL	1 block	Low Range: Ambient +5°C to 100°C  High Range: 75°C to 150°C	120 volt units: ± 0.1°C	120 volt units: ± 1.0°C	30392045	357
HB2AL	2 block			120 volt units: ± 1.5°C	30392052	541
HB4AL	4 block			120 volt units: ± 2.0°C	30392066	835
HB6AL	6 block			30392073	1215	

# Hotplates & Stirrers

## Mini Hotplates & Stirrers

- Ergonomic design
- Hotplates & Hotplate-Stirrers boil 300 mL of water in 18 minutes
- Ideal for educational labs
- Built in support rod holder

The OHAUS Basic Mini Hotplates, Stirrers, and Hotplate-Stirrers are rugged, compact units that heat and stir up to 1000 mL of liquid. Ceramic tops feature a chemical resistant white reflective top plate that is easy to clean. Bi-metallic thermostat offers reliable temperature control. Powerful heater reaches maximum temperature in only minutes. Powerful motor and magnet deliver reliable and consistent stirring. Compact design saves bench space. Built-in support rod holder with locking knob accepts optional Support Rod and Clamp Kit.

**Basic Mini Fixed Temperature Hotplate** features an illuminated rocker switch to activate the preset fixed temperature of 500°C.

**Basic Mini Auto-Stirrer** is automatically activated by the minimum weight of a beaker or flask and will stop stirring when mixing vessel is removed.

### Basic Mini Hotplates



Model	Temp. Range	Max. Cap. (H <sub>2</sub> O)	Top Plate Dim. (Dia.)	Overall Dim. (L x W x H)	Item No.	Price USD
HSMNHP4CAL	to 500°C*	1000 mL	4 x 4" (10.2 x 10.2 cm)	7.9 x 6 x 5" (20.1 x 15.2 x 12.7 cm)	30392010	209
HSMNHP4CFT*					30392031	199

\* Fixed Temperature Hotplate has a fixed temperature of 500°C.

### Basic Mini Stirrers

Model	Speed Range	Max. Cap. (H <sub>2</sub> O)	Top Plate Dim. (Dia.)	Overall Dim. (L x W x H)	Item No.	Price USD
HSMNST4CAL	100 to 1200 rpm	1000 mL	4 x 4" (10.2 x 10.2 cm)	7.9 x 6 x 5" (20.1 x 15.2 x 12.7 cm)	30392017	194
HSMNAS4CAL**					30392038	249

\*\*Mini auto stirrer

### Basic Mini Hotplate-Stirrers

Model	Temp. Range	Speed Range	Max. Cap. (H <sub>2</sub> O)	Top Plate Dim. (Dia.)	Overall Dim. (L x W x H)	Item No.	Price USD
HSMNHS4CAL	to 500°C	100 to 1200 rpm	1000 mL	4 x 4" (10.2 x 10.2 cm)	7.9 x 6 x 5" (20.1 x 15.2 x 12.7 cm)	30392024	349







## OHAUS Corporation

Headquartered in Parsippany, NJ, OHAUS Corporation manufactures an extensive line of high-precision electronic and mechanical balances and scales that meet the weighing needs of virtually every industry. We are a global leader in the laboratory, industrial, and education channels as well as a host of specialty markets, including the food preparation, pharmacy and jewelry industries. An ISO 9001:2008 manufacturer, OHAUS products are precise, reliable and affordable, and are backed by industry-leading customer support. For additional information, contact OHAUS Corporation at 1.973.377.9000, or visit [www.ohaus.com](http://www.ohaus.com).

### OHAUS CORPORATION

\*7 Campus Drive  
Suite 310  
Parsippany, NJ 07054 USA  
Tel: 800.672.7722  
973.377.9000  
Fax: 973.944.7177

[www.ohaus.com](http://www.ohaus.com)

*Ingeniously Practical*

*With offices throughout  
Europe, Asia, and  
Latin America*

\*ISO 9001:2008  
Registered Quality  
Management System