



DO MORE WITH OHAUS

Laboratory Equipment



Ingeniously Practical

WEIGH IT



Explorer Plus

Adventurer

Pioneer

Semi-Micro, Analytical and Precision Balances

Weigh It in the laboratory, at school or in any industrial setting. From simple applications to highly demanding, regulated areas requiring log records, OHAUS offers a broad variety of weighing equipment designed to meet your requirements. Accurate weighing with readability ranging from 0,01 mg to 1 g is not an issue.

Top questions to ask

- 1 What is the size of your sample?**
It is important to select a balance able to handle your samples. Insufficient capacity might lead to a problem when tare comes to the equation.
- 2 What is the accuracy at which you need to measure your sample?**
Readability of the balance influences directly the accuracy of weighing, especially when relatively small samples are being processed. Select from a Semi-Micro to a Precision instrument according to your needs.
- 3 Are you working in a demanding, regulated environment?**
OHAUS Explorer Plus features a 4+1 level User Management system with 200 user accounts allowing for balance menus access control. Log Track function keeps records of measurements, calibrations, failures and changes to the device, allowing also for generating a PDF report with electronic signature directly from the balance. Minimum Weight function does not allow for measuring samples that are too small according to the required standards. Finger Print Login with 100 fingerprint identification and Time Synchronization NTP (Network Time Protocol) for even more data traceability.
- 4 Does your balance need to be connected to a printer or data collecting system?**
All OHAUS Analytical and Precision balances are equipped with RS232 making it possible to connect it to our SF40A printer. Selected products offer also USB connectivity or Ethernet ports for more sophisticated solutions.
- 5 Is ease of use important in your workplace?**
Selected OHAUS balances come with built-in calibration systems assuring accurate measurement at all times. They also feature an easy-to-use interface, including a colour touchscreen and an intuitive interface. Several Explorer models come with automatic draftshield doors and all of them have touchless sensors improving efficiency and throughput.

Semi-Micro, Analytical and Precision Balances

Family	Model	Capacity	Readability	Pan Size	Display	Item No.
Explorer Plus	EXP125D/AD	120 g	0,01 mg	80 x 80 mm	Color Touchscreen 7"	31058907
	EXP125/AD	120 g	0,01 mg	80 x 80 mm		31059078
	EXP225D/AD	220 g	0,01 mg	80 x 80 mm		31059079
	EXP225/AD	220 g	0,01 mg	80 x 80 mm		31059080
	EXP124/AD	120 g	0,1 mg	90 x 90 mm		31059081
	EXP224/AD	220 g	0,1 mg	90 x 90 mm		31059082
	EXP324/AD	320 g	0,1 mg	90 x 90 mm		31059083
	EXP223/AD	220 g	1 mg	130 x 130 mm		31059084
	EXP423/AD	420 g	1 mg	130 x 130 mm		31059085
	EXP623/AD	620 g	1 mg	130 x 130 mm		31059086
	EXP1203/AD	1200 g	1 mg	130 x 130 mm		31059087
	EXP2202	2200 g	0,01 g	201 x 178 mm		31059099
	EXP4202	4200 g	0,01 g	201 x 178 mm		31059100
	EXP6202	6200 g	0,01 g	201 x 178 mm		31059101
	EXP8202	8200 g	0,01 g	201 x 178 mm		31059102
	EXP12202	12200 g	0,01 g	201 x 178 mm		31059103
	EXP6201	6200 g	0,1 g	201 x 178 mm		31059104
	EXP8201	8200 g	0,1 g	201 x 178 mm		31059105

WEIGH IT

Family	Model	Capacity	Readability	Pan Size	Display	Item No.
Explorer Plus	EXP10201	10200 g	0,1 g	201 × 178 mm	Color Touchscreen 7"	31059106
	EXP24001-EU	24000 g	0,1 g	377 × 311 mm		31059115
	EXP35001-EU	35000 g	0,1 g	377 × 311 mm		31059116
	EXP65001-EU	65000 g	0,1 g	377 × 311 mm		31059117
Adventurer	AX125D	82/120 g	0,01/0,1 mg	ø80 mm	Color Touchscreen 4,3"	30852307
	AX225D	102/220 g	0,01/0,1 mg	ø80 mm		30852309
	AX85	82 g	0,01 mg	ø80 mm		30852308
	AX124	120 g	0,1 mg	ø90 mm		30122610
	AX224	220 g	0,1 mg	ø90 mm		30122611
	AX324	320 g	0,1 mg	ø90 mm		30122613
	AX423	420 g	1 mg	ø130 mm		30127962
	AX623	620 g	1 mg	ø130 mm		30805890
	AX6202	6200 g	0,01 g	175 × 195 mm		30805892
	AX1502	1500 g	0,01 g	175 × 195 mm		30127966
	AX2202	2200 g	0,01 g	175 × 195 mm		30127968
	AX4202	4200 g	0,01 g	175 × 195 mm		30122616
	AX4201	4200 g	0,1 g	175 × 195 mm		30127970
	AX8201	8200 g	0,1 g	175 × 195 mm		30122619
	AX12001	12000 g	0,1 g	175 × 195mm		30805894
Pioneer	PX125D	52/120 g	0,01/0,1 mg	ø80 mm	Backlit LCD	30478196
	PX85	82 g	0,01 mg	ø80 mm		30485340
	PX225D	82/220 g	0,01/0,1 mg	ø90 mm		30478197
	PX124	120 g	0,1 mg	ø90 mm		30429803
	PX224	220 g	0,1 mg	ø90 mm		30429804
	PX623	620 g	1 mg	ø120 mm		30619383
	PX6202	6200 g	0,01 g	ø180 mm		30429808
	PX4201	4200 g	0,1 g	ø180 mm		30429809
	PX12001	12000 g	0,1 g	193 × 248 mm		30868072



EXP125D/AD



AX125D



PX125D



EXP124/AD



AX124



PX124



EXP223/AD



AX423



PX623

The table above represents only a selection of OHAUS portfolio

DRY IT



MB120



MB23

MB25

MB32

MB62

MB92

Moisture Analyzers

Dry It quickly and efficiently with OHAUS Moisture Balances. Featuring a range of heating options, including infra-red, halogen, and the all-new carbon fiber heating technology on the new MB32, MB62 and MB92 models, our range offers you the flexibility to choose the best option for your specific needs. With readabilities up to 0.01% MC, you can trust our moisture balances will deliver accurate, reliable and repeatable results test after test. Need a little help determining the right drying procedure for your samples? Our MB120 model is the answer! Featuring SmartGuide™ technology, this revolutionary feature automatically analyzes your sample and creates a method, removing the guesswork from the initial setup.

Top questions to ask

- 1 What is the size of your sample?**
OHAUS offers a selection of instruments with capacities up to 120g to make sure your sample fits in the heating chamber.
- 2 What is the required accuracy of your measurement?**
Readability up to 0,01% MC allows for analyzing samples containing low amounts of moisture, with accuracy needed in your workplace.
- 3 Do you know how to dry your sample most efficiently?**
SmartGuide™ automatically analyzes a sample and creates a method, simplifying the method creation process and removes the guesswork from the initial setup. It offers an alternative to oven method saving time and efforts! Whether you have a reference moisture content or not, this feature will help you set the MB120 properly and dry your sample the most optimal way.
- 4 Are you working in a regulated environment?**
MB120 features a 4-level User Management system that allows controlling access to the instrument's settings. Printouts on MB90 and MB120 are also GLP-compliant.
- 5 Do you need more from your moisture balance?**
MB120 is equipped with 4 drying profiles and a library of 100+ drying procedures. Recalling a saved method is extremely easy and improves efficiency in the laboratory. OHAUS instruments are equipped with connectivity ports allowing for a printer or a PC to be connected. MB120 in addition allows over 1000 results to be stored in the device's memory for further statistical analysis.

Model	Capacity	Readability	Repeatability (3g sample)	Platform	Heating element	Item No.
MB120	120 g	1 mg/0,01%	0,05%	ø90 mm	Halogen	30241169
MB92	90g	1 mg/0,01%	0,08%	ø90 mm	Carbon Fiber	30971924
MB62	90g	1 mg/0,01%	0,10%	ø90 mm	Carbon Fiber	30971923
MB32	90g	1 mg/0,01%	0,15%	ø90 mm	Carbon Fiber	30971922
MB25	110 g	5 mg/0,05%	0,20%	ø90 mm	Halogen	80252472
MB23	110 g	10 mg/0,1%	0,30%	ø90 mm	Infrared	80252470



CARRY IT



NV621



CX221

SKX2201

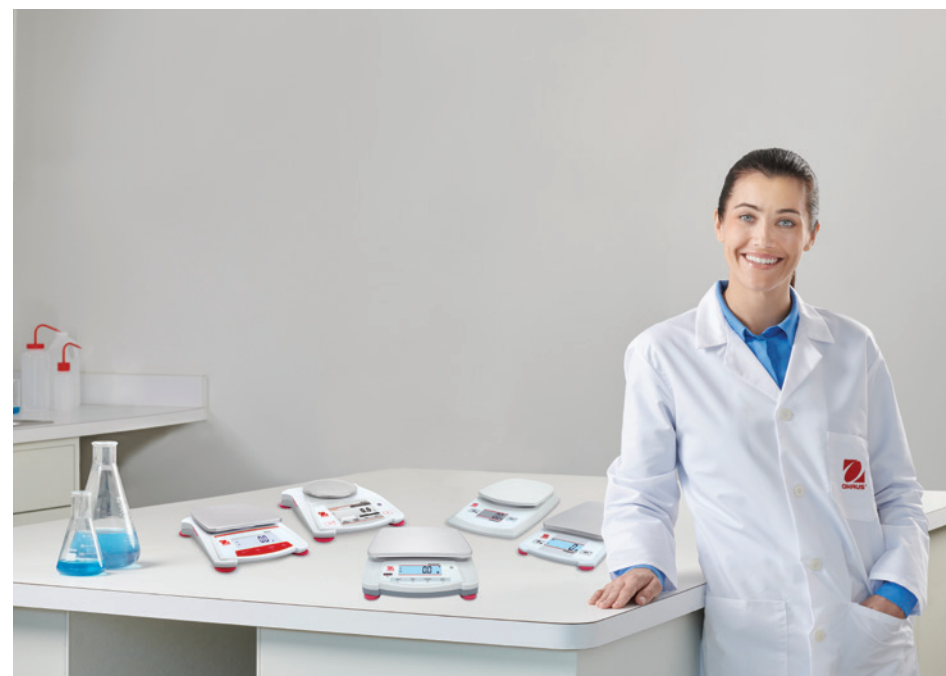
STX621

Portable Precision Balances

Carry It with you, around the lab, around the classroom or to any remote location where ingeniously practical OHAUS portable precision balances will help you weigh. Battery operation, overload protection as well as optional connectivity kits make these instruments truly versatile in mobile operations.

Top questions to ask

- 1 What is the main application for your balance to perform?**
OHAUS offers a variety of portable products, from simple Compass Series to a Scout balance equipped with a touchscreen and multiple application modes. There is plenty to choose from!
- 2 What is the size of your sample?**
Capacity and readability is very important to make sure your sample is properly measured. OHAUS starts with 120 g and 1mg readability going up to 22kg capacity and 1g readability combination. Just pick the one matching your needs!
- 3 Is the balance working in a difficult environment?**
At OHAUS we know that portable balances are more prone to overload and shock as they are being used in many different locations and for a variety of applications. All of our balances feature overload protection, moreover Scout balances are shock-proof to withstand a long-term uninterrupted use.
- 4 Do you need to collect and record weighing data?**
If the answer is yes, our portable solutions can be equipped with optional connectivity kits ranging from USB to Ethernet and Bluetooth™. Data loggers are also compatible with our BT™ kit.
- 5 Is power always available?**
Portability is important, therefore all of our balances can be battery operated, and some of them can run up to 1000h with no need for a battery change.



CARRY IT

Family	Model	Capacity	Readability	Pan Size	Display	Item No.
Scout	STX223	220 g	1 mg	ø93 mm	Color Touchscreen 4,3"	30253059
	STX421	420 g	0,1 g	ø120 mm	Color Touchscreen 4,3"	30253065
	STX622	620 g	0,01 g	ø120 mm	Color Touchscreen 4,3"	30253062
	STX2202	2 200 g	0,01 g	170 × 140 mm	Color Touchscreen 4,3"	30253064
	STX6201	6 200 g	0,1 g	170 × 140 mm	Color Touchscreen 4,3"	30253068
	STX8200	8 200 g	1 g	170 × 140 mm	Color Touchscreen 4,3"	30253069
	SKX123	120 g	1 mg	ø93 mm	Backlit LCD	30253070
	SKX422	420 g	0,01 g	ø120 mm	Backlit LCD	30253072
	SKX6201	6 200 g	0,1 g	170 × 140 mm	Backlit LCD	30253079
	SKX1202	1 200 g	0,01 g	170 × 140 mm	Backlit LCD	30253074
	SKX2201	2 200 g	0,1 g	170 × 140 mm	Backlit LCD	30253078
	SKX8200	8 200 g	1 g	170 × 140 mm	Backlit LCD	30253080
Navigator	NV123	120 g	0,001 g	ø93 mm	Backlit LCD	30615581
	NV422	420 g	0,01 g	ø145 mm	Backlit LCD	30456383
	NV3202	3 200 g	0,01 g	190 × 144 mm	Backlit LCD	30615586
	NV621	620 g	0,1 g	190 × 144 mm	Backlit LCD	30456386
	NV622	620 g	0,01 g	ø145 mm	Backlit LCD	30456384
	NV2201	2 200 g	0,1 g	190 × 144 mm	Backlit LCD	30456388
	NVT10201	10 000 g	0,1 g	230 × 174 mm	Backlit LCD	30615587
	NVT6200	6 200 g	1 g	230 × 174 mm	Backlit LCD	30456393
	NVT12000	12 000 g	1 g	230 × 174 mm	Backlit LCD	30456394
	NVT22000	22 000 g	1 g	230 × 174 mm	Backlit LCD	30456395
Compass	CX221	220 g	0,1 g	132 × 125 mm	Backlit LCD	30428208
	CX1201	1 200 g	0,1 g	132 × 125 mm	Backlit LCD	30428210
	CX5200	5 200 g	1 g	132 × 125 mm	Backlit LCD	30428212
	CR621	620 g	0,1 g	142 × 128 mm	LCD	30428214
	CR2200	2 200 g	1 g	142 × 128 mm	LCD	30428215



Scout (SKX)



Scout (STX)



Navigator (NV)



Navigator (NVT)



Compass (CX)



Compass (CR)

The table above represents only a selection of OHAUS portfolio

SHAKE IT



e-E51LD0403



Roto-Rock Genie



SHRK07AL2



e-E51LDMP03



ISWW02HDG

Shakers

Wide range of both Open Air Shakers and Incubating and Incubating & Cooling Shakers intended for different applications, offering a variety of capacities and flexibility to maximize sample processing, designed as well to withstand the extreme environments. Perfect for life science applications such as ELISA assays, cell cultures, protein studies, solubility studies, and more.

Top questions to ask

- 1 What type of motion are you looking for?**
OHAUS offers shaking solutions with orbital, rocking, waving, reciprocating and rotating motions.
- 2 Do you need a specific speed and orbit?**
The larger the sample the larger the orbit and a slower speed is needed for a good mix. For smaller samples, it is the opposite, smaller orbit and faster speed for a good mix.
- 3 How big are your samples and how many do you have?**
You can easily find a shaker that meets different capacities and sample types -from microplate up to 68kg. The OHAUS Equipment Catalog has a guide in the accessory section listing the number of tube racks or flask clamps each shaker can hold.
- 4 Do you need a temperature control?**
Incubating models are available as well as incubating/cooling. Remember, incubating models can begin to control temperature at ~5 °C above whatever the ambient (room) temperature is, so if the customer needs a temperature close to ambient, select a model that can cool.
- 5 How important is reproducibility of your settings?**
If it is important, you should recommend a digital (DG) shaker as opposed to an analog (AL). Analog settings are not exact, digital settings are.
- 6 Do you need a simple means for capturing your data?**
OHAUS Endeavor 5000, Heavy Duty Orbital Shakers, Extreme Environment Shaker and Enviro-Genie have a RS232 port for programming and data logging. The OHAUS Thermal Shakers (ISTHBLHTS and ISTHBLCTS) have a USB port for data transfer. The data is uploaded to a .csv file, similar to an Excel spreadsheet.

Open Air Shakers

Model	Motion	Capacity	Speed Range (rpm)	Item No
e-E51LD0403	Orbital, 3 mm	4 kg	100 – 800	30770915
e-E51LD0420	Orbital, 20 mm	4 kg	50 – 300	30770916
e-E51LDMP03	Orbital, 3 mm	4 kg	100 – 1 200	30770917
SHHD1619AL	Orbital, 19 mm	16 kg	25 – 500	30391802
SHHD1619DG	Orbital, 19 mm	16 kg	15 – 500	30391811
SHHD2325AL	Orbital, 25 mm	22,7 kg	25 – 500	30391837
SHHD2325DG	Orbital, 25 mm	22,7 kg	20 – 500	30391844
SHHD4525DG	Orbital, 25 mm	45,4 kg	15 – 500	30391865
SHHD4550DG	Orbital, 51 mm	45,4 kg	15 – 300	30391872
SHHD6825DG	Orbital, 25 mm	68 kg	15 – 500	30391879
SHHD6850DG	Orbital, 51 mm	68 kg	15 – 300	30391886
SHHD6825DG	Orbital, 25 mm	68 kg	15 – 500	30391879
SHHD6850DG	Orbital, 51 mm	68 kg	15 – 300	30391886

SHAKE IT

Model	Motion	Capacity	Speed Range (rpm)	Item No
RT22(SI-1102EU), EU Plug*	Rock (10°), Rotate, Shake with Accessories	4,5 kg	Rotating: 5 – 35 Rocking: 10 – 70	83041385
RT23(SI-R102EU)	Rock (0- 25°), Rotate	4,5 kg	Rotating: 1 – 35 Rocking: 1 – 70	83041253
RT21(SI-2102EU), EU Plug*	Rotate	2,25 kg	5 – 35	83041344
RT21/M(SI-2202)	Rotate	2,25 kg	5 – 35	83041337
SHRK07AL1	Rocking, 0 to 15°	7,3 kg	1 – 75	30391954
SHRK07AL2	Rocking, 0 to 15°	7,3 kg	1 – 75	30391961
SHRK04DG	Rocking, 0 to 15°	4,5 kg	1 – 50	30391989
SHWV02AL	Waving, 0 to 16°	2,3 kg	1 – 75	30391968
SHWV02DG	Waving, 0 to 20°	2,3 kg	1 – 30	30391949
SHRC0719DG	Reciprocating, 19 mm	6,8 kg	20 – 300	30391830
SHHSMPDG	Orbital, 3,6 mm	48 microplates or up to 3,2 kg	600 – 2 500	30573785
SHEX1619DG	Orbital, 19 mm	16 kg	15 – 500	30391816

Incubating Shakers

Model	Motion	Capacity	Temperature Range	Speed Range (rpm)	Item No.
ISTHBLHTS	Orbital, 3 mm	1 thermal block	Ambient + 4 °C – 100 °C	300 – 3 000	30392005
ISTHBLHTSN**	Orbital, 3 mm	1 thermal block		300 – 3 000	30573848
ISTHBLCTS	Orbital, 3 mm	1 thermal block	17 °C below Ambient – 100 °C	300 – 3 000	30391998
ISTHBLCTSN**	Orbital, 3 mm	1 thermal block		300 – 3 000	30573842

Model	Motion	Capacity	Temperature Range	Speed Range (rpm)	Item No.
ISLD04HDG	Orbital, 3 mm	3,6 kg	Ambient +5 °C – 65 °C	100 – 1 200	30391919
ISLDMPHDG	Orbital, 3 mm	4 microplates		100 – 1 200	30391933
ISLDMPHDGL	Orbital, 3 mm	2 micro-tube racks		100 – 1 200	30391926
ISICMBCDG	Orbital, 3 mm	2 microplates, 2 modular blocks	10 °C below ambient – 65 °C	100 – 1 200	30391940
ISRK04HDG	Rocking, 0 to 15°	4,5 kg		1 – 50	30391975
ISWV02HDG	Waving, 0 to 20°	2,3 kg		1 – 30	30391982
ISHD16HDG	Orbital, 19 mm	16 kg	Ambient +5 °C to 65 °C	15 – 500	30573770
ISHD23HDG	Orbital, 25 mm	22,7 kg		15 – 500	30573775
MI3 (SI-1402EU), EU Plug*	Rotate, Rock, Shake with Accessories	4,5 kg	28 °C – 75 °C	Rotating: 3 – 35 Rocking: 6 – 70	83041354
MI3C(SI-1202EU), EU Plug*	Rotate, Rock, Stir, Stir Reverse, Shake with Accessories	4,5 kg, 2x 1l for stirring	4 °C – 75 °C	Rotating: 1 – 35 Rocking: 2 – 70 Stirring: 1 – 1 000	83041364

*also available with Swiss, British plug and without plug

**No block included



e-E51LD0403



RT22(SI-1102EU)



SHEX1619DG



ISICMBCDG



MI3C (SI-1202EU)



ISWV02HDG

AL – analog models (e.g. SHHD1619AL) | DG – digital models (e.g. SHHD1619DG) | e-E51 – digital models



MIX IT

V2 (SI-0256EU)



VXMPAL

VXHDDG

VXMTAL

Vortex Mixers

Genie Vortex Mixers offer five versatile models designed to cover a broad range of lab mixing needs. Alongside OHAUS Heavy-Duty, Microplate, and Multi-Tube Vortex Mixers – built for hands-free vortexing and adapting to different workflows – each product line delivers reliable performance tailored to specific applications. Together, they support essential life science tasks like reagent mixing, sample preparation, and genotyping, ensuring consistent and efficient mixing results.

Top questions to ask

- 1 Do you need precise speed control?**
OHAUS has analog vortex mixers for more general mixing purposes and digital models for precise control over speed and time.
- 2 Do you have multiple samples to vortex or need to mix for more than 1 min?**
For multiple samples or mixing for longer periods of time, OHAUS offers a broad range of accessories for Vortex Mixers. The OHAUS Microplate, Heavy-Duty and Multi-Tube Vortex Mixers are designed to run at high speeds with accessories. OHAUS Genie Vortex Mixers can run with accessories, but a limited max. speed.
- 3 Do you need high throughput vortex mixing?**
OHAUS Multi-Tube Vortex Mixers, available in analog and digital versions, can easily handle 50 tubes at once.
- 4 Do you need to know the exact speed when vortexing?**
Select a digital model for accurate speed values.

	Model	Model Name	Control	Speed range (rpm)	Orbit	Item No.
NEW	V2 (SI-0256EU)*	Vortex-Genie 2, 230V, EU Plug	Analog	600 – 3 200 600 – 2 700 (for 50 Hz)	4 mm	83041404
	V2T (SI-T256EU)*	Vortex-Genie 2T, 230V, EU Plug	Analog		4 mm	83041250
	V2P (SI-P256EU)*	Vortex-Genie Pulse, 230V, EU Plug	Digital	500 – 3 000 500 – 2 850 (for 50 Hz)	3 mm	83041259
	V2D (SI-A256EU)*	Digital Vortex-Genie 2, 230V, EU Plug	Digital		3,5 mm	83041320
	V2A (SI-A556EU)*	Digital Vortex-Genie 2, 230V, EU (ABI)	Digital		3,5 mm	83041313
	VXHDDG	Heavy-Duty Vortex Mixer	Digital	On Mode: 300 – 2 500 Touch Mode: 300 – 3 500	4,9 mm	30392136
	VXHDAL	Heavy-Duty Vortex Mixer	Analog		4,9 mm	30392141
	VXMPDG	Microplate Vortex Mixer	Digital		3,5 mm	30392150
	VXMPAL	Microplate Vortex Mixer	Analog		3,5 mm	30392155
	VXMTAL**	Multi-Tube Vortex Mixer	Analog	1 200 – 2 400	3,6 mm	30392166
	VXMTALB***	Multi-Tube Vortex Mixer	Analog		3,6 mm	30573832
	VXMTDG**	Multi-Tube Vortex Mixer	Digital	500 – 2 500	3,6 mm	30392173
	VXMTDGB***	Multi-Tube Vortex Mixer	Digital		3,6 mm	30573837

* also available with Swiss, British plug and without plug

** stainless steel housing

*** painted steel housing

LYSE IT BEAD IT



Bead Genie
BH3 (SI-B102EU)



Cell Disruptor Genie
D2 (SI-D258EU)

Cell Disruptor Genie

The OHAUS Cell Disruptor Genie models are ideal for challenging glass bead procedures like breaking yeast cells, bacteria, and tissues with high-speed agitation. Available in digital variable speed and fixed-speed analog versions, both offer timed or continuous operation. The patented Dual-motion Mixing combines vortex and disruption to effectively break samples right inside the tube.

Bead Genie

The OHAUS Bead Genie is ideal for lysing, extraction, or homogenization, utilizing an aggressive vertical mixing motion. Offering an efficient DC motor, solid metal construction and a compact design, it enables aggressive 19mm vertical agitation without shifting and fits easily into tight lab spaces like biosafety cabinets and cold rooms.

Cell Disruptor Genie

	Model	Model Name	Control	Speed range (rpm)	Item No.
NEW	D2D (SI-DD58EU)*	Digital Disruptor Genie, 230V, EU Plug	Digital	1 000 – 3 000 1 000 – 2 850 (for 50 Hz)	83041287
	D2 (SI-D258EU)*	Disruptor Genie, 230V, EU Plug	Analog	3 000 2 850 (for 50 Hz)	83041294

* also available with Swiss, British plug and without plug

Bead Genie

	Model	Model Name	Control	Speed range (rpm)	Item No.
NEW	BH3 (SI-B102EU)*	Bead Genie, 230V, EU Plug	Digital	1 000 – 3 000 1 000 – 2 850 (for 50 Hz)	83041306

* also available with Swiss, British plug and without plug

HEAT IT



HB2DG



HB1AL

HB6DG

HB2DGH

Dry Block Heaters

Versatile block heaters designed for everyday use with accessories for every application, ideal for applications that require temperature stability. Perfect for life science applications such as incubation and activation of cultures, ELISA and other immunoassays, isothermal incubations, and more.

Top questions to ask

- 1 Do you need to incubate small samples like microtubes, microplates, test tubes, or vials?**
OHAUS Dry Block Heaters provide a wide range of block accessories designed to accommodate samples of different types.
- 2 Are you looking for a specific temperature range?**
OHAUS has models that can heat up to 150 °C.
- 3 How important is reproducibility of your settings?**
If it is important, you should recommend a digital block heater as opposed to an analog. Analog settings are not exact, digital settings are.
- 4 Do you need to calibrate your heater to a traceable temperature device?**
OHAUS models can be calibrated to an external temperature device such as a thermometer, probe or thermocouple.
- 5 Is the formation of condensation on your sample lids, caps, and covers causing a problem with your assays?**
If it is, recommend the Block Heater with the Heated Lid.

Model	Number of Blocks	Control	Temperature Range	Stability @ 37 °C	Uniformity Within the Block @ 37 °C	Item No.
HB1DG	1	Digital	Ambient + 5 °C to 120 °C	± 0,2 °C	± 0,2 °C	30392061
HB2DG	2	Digital	Ambient + 5 °C to 120 °C	± 0,2 °C	± 0,2 °C	30392082
HB4DG	4	Digital	Ambient + 5 °C to 120 °C	± 0,2 °C	± 0,2 °C	30392089
HB6DG	6	Digital	Ambient + 5 °C to 120 °C	± 0,2 °C	± 0,2 °C	30392096
HB1AL	1	Analog		± 1,5 °C	± 0,2 °C	30392047
HB2AL	2	Analog	Low Range: Ambient +5 °C to 100 °C	± 2 °C	± 0,2 °C	30392054
HB4AL	4	Analog	High Range: 75 °C to 150 °C	± 2,5 °C	± 0,2 °C	30392068
HB6AL	6	Analog		± 2,5 °C	± 0,2 °C	30392075
HB2DGH	2	Digital	Ambient + 5 °C to 100 °C	± 0,2 °C	± 0,2 °C	30392103



STIR IT



Guardian 7000



Guardian 7000



Guardian 5000



Guardian 3000



Guardian 2000

Stirrers, Hotplates & Hotplate-Stirrers

From durable Hotplate Stirrers with superior safety features and intelligent performance to compact and easy-to-use hotplates and stirrers for basic heating and stirring. Perfect for life science applications such as dissolving buffers and reagents, preparing media, concentrating samples, and more.

Top questions to ask

- Are safety features an important part of your decision process?**
Guardian 7000, 5000 and 3000 units feature SafetyHeat™, an industry leading early detection system that uses two independent safety controls to continuously monitor the electronics and will shut off the heating function before an over-temperature condition occurs. Additional protection is available with the Guardian 7000's patented SmartPresence™ & SmartLink™ technologies; exclusive features that automatically shut off the heater if no one is detected after a user set, time out* period has passed. All units feature the innovative SmartHousing™ that stays cool to the touch and is chemical resistant.
- Do you need precise sample control?**
The Guardian 7000, 5000 and 3000 Hotplate Stirrers can be used with a temperature probe when sample temperature is critical. The Guardian 7000 and 5000 units feature SmartHeat™ for max temperature setting and SmartRate™ for adjustable ramp rate. When simple heating and stirring is required the analog Guardian 2000 units will do the job.
- Are you looking for a specific top plate material?**
Ceramic top plates are more chemical resistant, heat up very quickly, and are easy to clean. The white reflective surface aids in viewing the sample. Aluminum and ceramic coated stainless steel top plates offer a more uniform heating surface, will not crack or chip but are more susceptible to corrosion.
- How important is reproducibility of your settings?**
If it is important, you should recommend a Guardian 7000, 5000 and 3000 which is fully digital as opposed to the Guardian 2000 Hotplate Stirrers.
- What is the volume and viscosity of your sample?**
It is important to select a model that can handle the volume as it may not heat or stir properly if it is undersized. Sample viscosity plays a role in selecting a stirrer. The more viscous the sample, the greater magnetic coupling strength needed. The stir bar size and shape, the distance between the drive magnet and the stir bar, vessel shape and size, speed and viscosity also must be considered. For more viscous liquids consider using a combination of Guardian for heating and Achiever for mixing.

Guardian Hotplate-Stirrers

Family	Model	Plate Size	Capacity	Plate Construction	Temperature Range	Speed Range RPM	Item No.
Guardian 7000	e-G71HS07C	17,8 x 17,8 cm	15 l	Ceramic	Ambient +5°C to 500°C	60 to 1 600	30500603
	e-G71HS10C	25,4 x 25,4 cm	18 l				30500613
	e-G71HSRDM	ø13,5 cm	20 l	Aluminum	Ambient +5°C to 380°C	60 to 1 600	30500623
Guardian 5000	e-G52HP07C	18 x 18 cm	20 l	Ceramic	Ambient +5°C to 550°C	—	30541644
	e-G52HP07C-K1*						30532080*
	e-G52ST07C	18 x 18 cm	20 l	Ceramic	—	60 to 1 600	30541646
	e-G52HS07C	18 x 18 cm	20 l	Ceramic	Ambient +5°C to 550°C	60 to 1 600	30541642
	e-G52HS07C-K1*						30532109*
	e-G52HS10C	26 x 26 cm	22 l		Ambient +5°C to 500°C		30541648
	e-G52HS10C-K1*						30910735*
	e-G52HSRDA	ø13,5 cm	20 l	Ceramic Coated Aluminum	Ambient +5°C to 360°C	60 to 1 600	30541640
	e-G52HSRDA-K1*						30981784*

STIR IT

Family	Model	Plate Size	Capacity	Plate Construction	Temperature Range	Speed Range RPM	Item No.
Guardian 3000	Heating and Stirring	e-G31HS07C	15 l	Ceramic	Ambient +5°C to 500°C	80 to 1 600	30680279
		e-G31HS07C-K1*					30983681*
		e-G31HS04C	15 l	Ceramic Coated Stainless Steel	Ambient +5°C to 380°C	80 to 1 600	30680280
		e-G31HS04C-K1*					30983682*
Guardian 2000	Heating	e-G21HP07C	15 l	Ceramic	Ambient +70°C to 500°C	—	30680273
		e-G21HP04C					30680274
		e-G21HPRDS	15 l	Ceramic Coated Stainless Steel	Ambient +50°C to 380°C	—	30680272
	Stirring	e-G21ST07R	15 l	Resin	—	200 to 1 600	30680276
		e-G21ST04R					30680277
		e-G21STRDS	15 l	Ceramic Coated Stainless Steel	—	200 to 1 600	30680275
	Heating and Stirring	e-G21HS07C	15 l	Ceramic	Ambient +70°C to 500°C	200 to 1 600	30680270
		e-G21HS04C					30680271
		e-G21HSRDS	15 l	Ceramic Coated Stainless Steel	Ambient +50°C to 380°C	200 to 1 600	30680269

* Kit Item Number (-K1): Kit include hotplate stirrer or hotplate and (30973298) Probe Holder Kit-1 and (30500590) Probe PT1000(A) -40~400C 20 cm SS316/304

OHAUS GUARDIAN SERIES SMART FEATURES



SmartHeat™

Safely control and monitor the maximum temperature with SmartHeat™ which allows you to set the maximum temperature of the Guardian 7000 hotplate stirrer, preventing overheating of sensitive samples.



SmartRate™

For precise sample control with the Guardian 7000, use the included temperature probe and enable SmartRate™ to select fast or slow temperature and speed ramp rates.



SmartPresence™

Exclusive proximity sensor technology in Guardian 7000 recognizes nearby users and safely turns off heating function if none are detected.



SafetyHeat™

Industry-leading internal protection system to assure safety in heating applications with dual monitoring of system health.



SmartLink™

Guardian 7000 SmartLink™ provides long-range user detection for heater safety by installing the OHAUS Bluetooth dongle accessory into the USB port and pairing to a mobile device. If the Bluetooth link is broken, the heating function will safely shut off.



SmartHousing™

With chemical resistant SmartHousing™ that remains cool to the touch at all temperature settings and channels away chemical spills from internal components, the Guardian 7000 and 5000 assures safety in the lab. All units feature a large hot top light that can be seen across the lab when the heater is above 40 °C.



STIR IT

Achiever 5000

Overhead Stirrers

OHAUS Achiever 5000™ Overhead Stirrers are designed for powerful, precise stirring, safety and simplicity in all applications. The sealed design has an IP54 rating and ensures safe mixing performance even in the most demanding applications. The keyless chuck and software controlled speed ramping provide easy set up and safe stirring to protect the sample and user. Select from five models with up to 200 Ncm torque and up to 100 L volume capacity.

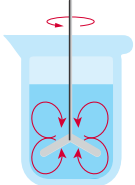
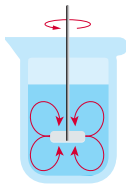
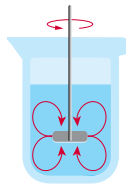
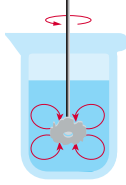
Top questions to ask

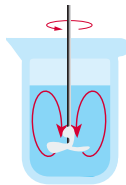
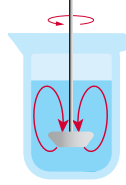
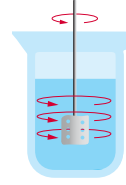
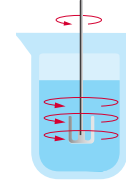
- 1 What is your sample type that you need to stir?**
Choosing the right Achiever depends on your unique application. Consider the sample type, volume, composition and physical properties you need to stir. Select the model with the speed range, maximum torque, volume capacity and maximum viscosity specifications that suit your needs.
- 2 What is viscosity of your sample?**
Overhead Stirrers are designed to provide more power in stirring which makes them an ideal choice for viscous samples. OHAUS Overhead Stirrers are the perfect solution for demanding applications for samples with viscosities up to 100,000 mPa. Powerful mixing and constant speed is assured with the brushless motor and torque compensation technology – delivering accurate, controlled stirring of viscous liquids with quiet operation
- 3 What volume is your sample?**
Always make sure that your stirrer can process large sample volumes. Depending on model, OHAUS Overhead Stirrers can handle sample volumes between 25 to 100 L. Remember the vessel size and shape can affect the flow of the sample; therefore select the vessel size and stirring shaft that will optimize mixing in the application.
- 4 What stirring speed your application requires?**
OHAUS Overhead Stirrers are designed for powerful and precise stirring with a speed range from 30 to 2,000 rpms. The software controlled speed ramping provides safe stirring to protect the sample and user and the digital display ensures repeatable results.
- 5 What is your mixing preference?**
A number of different stirring shaft options are available for Overhead Stirrers making them more versatile. OHAUS offers a variety of stirring shafts to suit your mixing preferences. To select the right stirring shaft for your application consider the viscosity, volume of the sample and the desired flow pattern (axial, radial, tangential) you want to generate.

Achiever 5000 Overhead Stirrers

Model	Stirring Speed Range	Stirring Volume (H ₂ O)	Maximum Viscosity (cP or mPa's)	Maximum Torque (Ncm)	Item No.
e-A51ST020	30-2000 rpm	up to 25 l	10 000	20	30586763
e-A51ST040	30-2000 rpm	up to 25 l	25 000	40	30586764
e-A51ST060	30-2000 rpm	up to 40 l	50 000	60	30586765
e-A51ST100	30-1300 rpm	up to 100 l	70 000	100	30586766
e-A51ST200	6-400 rpm (I), 30-2000 rpm (II)	up to 100 l	100 000	200	30586767

Choosing Stirring Shaft Accessory:

Shape				
Flow Diagram				
Stirring Shaft with	Floating Blades	Fixed Blade	Folding Blade	Turbine
Item Number	30586777	30586776	30586778	30586781
Blade	93 × 11 mm	50 × 10 mm	60 × 15 mm	49 × 10 mm
Shaft Ø	7 mm	7 mm	7 mm	7 mm
Shaft Length	400 mm	400 mm	400 mm	400 mm
Speed Range	250 – Max rpm	250 – Max rpm	250 – Max rpm	250 – Max rpm
Viscosity Range	0 - 1 000 cP	0 - 10 000 cP	0 - 1 000 cP	1 000 - 100 000 cP
Flow Pattern	Radial	Radial	Radial	Radial
Description	Floating Blades align during stirring and create radial flow from top to bottom in the vessel. This blade is ideal for stirring in narrow neck vessels such as flasks.	Fixed Blade creates radial flow from top to bottom in the vessel. Ideal for use at medium to high speeds for stirring light solids, mixing thickening materials, flocculation, etc.	Folding Blade aligns during stirring and creates radial flow from top to bottom in the vessel. This blade is used for stirring in narrow neck vessels.	Turbine creates a high shear, high turbulence radial flow in the vessel. This flow is from top to bottom.

Shape				
Flow Diagram				
Stirring Shaft with	Propeller	Turbo Propeller	Paddle, 6 Holes	Anchor
Item Number	30586780	30586782	30586779	30586775
Blade	60 × 9 mm	46 × 14 mm	69 × 75 mm	45 × 54 mm
Shaft Ø	7 mm	7 mm	7 mm	7 mm
Shaft Length	400 mm	400 mm	510 mm	400 mm
Speed Range	250 – Max rpm	250 – Max rpm	Up to 800 rpm	All Speeds
Viscosity Range	0 - 10 000 cP	1 000 - 100 000 cP	0 - 10 000 cP	1 000 - 100 000 cP
Flow Pattern	Axial	Axial	Tangential	Tangential
Description	Propeller creates axial flow with limited shearing forces. This flow pulls the sample from top to bottom in the vessel.	Turbo Propeller creates a low shearing axial flow in the vessel. This flow pulls the sample from top to bottom and the ring limits the contact of the blade with walls of the vessel or probes.	Paddle creates a reduced turbulence radial flow in the vessel producing gentle mixing of the sample.	Anchor creates tangential flow with high shearing forces on the ends. This flow can prevent sedimentation on the walls of the vessel.

SPIN IT



FC5515R



FC5816R



FC5515



FC5917RF Under Bench

Centrifuges

The Frontier™ Series includes Multi Pro, Micro, Multi, and Mini Centrifuges that have been carefully designed to provide liquid separation for various life science applications such as sample preparation, cell pelleting, nucleic acid extraction, immunoprecipitation and more.



All Frontier™ Series Multi Pro, Micro and Multi models are available in an **IVD-compliant version**: Compliance with In Vitro Diagnostic Medical Devices Regulation (EU) 2017/746, class A. All our refrigerated models use the natural, environmentally friendly refrigerant R290 with an ultra-low Global Warming Potential of just 3.

Top questions to ask

1

What is the highest RCF that you need to prepare your samples for your workflow?

OHAUS centrifuges have models can reach up to 30 000 rpm generating over 65 395 g.

2

Which sample tube sizes do you use in your lab?

An extensive rotor and adapter selection can accommodate just about any lab setup with volume ranging from 0.2 – 1 000 ml.

3

Do your samples need to be kept cool during centrifugation?

The refrigerated centrifuge models can keep your samples cool even when running at the maximum speed.

4

Are safety features an important feature in your lab?

Ohaus centrifuges are equipped with additional protective features for redundancy in safety and reliable operation : over-speed protection, active imbalance-detection and motorized lid-locking system to protect operators from accidental injuries.

5

How many tubes do you want to run at once?

OHAUS offers a few different rotors that can handle high throughput applications at various RCF.

Model	Rotor type	Maximum RPM	Maximum RCF (× g)	Maximum Capacity (Rotor)	Temperature range	Item No.
FC5917RF	swing out	4 600	5 204	4 × 1 000 ml	-20°C – 40°C	83042055
	fixed angle	16 010	26 361	6 × 250 ml		
FC5917RF Under Bench	swing out	4 600	5 204	4 × 1 000 ml	-20°C – 40°C	83042056
	fixed angle	16 010	26 361	6 × 250 ml		
FC5830R	swing out	4 000	2 987	4 × 290 ml	-20°C – 40°C	83042053
	fixed angle	30 000	65 395	6 × 250 ml		
FC5720R	swing out	5 000	4 136	4 × 200 ml	-20°C – 40°C	83042051
	fixed angle	20 000	38 007	6 × 85 ml		
FC5916R	swing out	5 000	4 807	4 × 750 ml	-20°C – 40°C	83042049
	fixed angle	16 000	24 325	4 × 500 ml		
FC5916	swing out	5 000	4 807	4 × 750 ml	—	30553036
	fixed angle	16 000	26 328	4 × 500 ml		
FC5816R	swing out	4 500	3 780	4 × 290 ml	-20°C – 40°C	83042047
	fixed angle	16 000	21 379	6 × 250 ml		
FC5816	swing out	4 500	3 780	4 × 290 ml	—	30314816
	fixed angle	15 000	21 379	6 × 250 ml		
FC5718R	swing out	5 000	4 136	4 × 200 ml	-20°C – 40°C	83042045
	fixed angle	18 000	23 542	6 × 85 ml		
FC5718	swing out	5 000	4 136	4 × 200 ml	—	30314812
	fixed angle	18 000	23 542	6 × 85 ml		

SPIN IT

Model	Rotor type	Maximum RPM	Maximum RCF (× g)	Maximum Capacity (Rotor)	Temperature range	Item No.
FC5714	swing out	4 500	3 350	4 × 200 ml	—	30314810
	fixed angle	14 000	18 624	6 × 50 ml; 30 × 15 ml		
FC5515R	fixed angle	15 200	21 953	44 × 1,5/2,0 ml	-20°C – 40°C	83042057
FC5515					—	30130866
FC5513R	fixed angle	14 500	17 157	24 × 1,5/2,0 ml	-20°C – 40°C	83042059
FC5513		13 500	17 317		—	30393187
FC5513 w/R02				18 × 1,5/2,0 ml		30370691
FC5513L		14 000	15 994			83041043
FC5706P	swing out	4 200	2 406	4 × 10 ml	—	31060778
FC5706P w/R77	fixed angle	6 000	4 427	6 × 50 ml		
				12 × 15 ml	31060779	
FC5706P w/R97	swing out	4 200	2 406	4 × 10 ml	—	31060780
FC5706P w/R78	fixed angle	6 000	4 427	6 × 50 ml		31060781
FC5707 w/R05	fixed angle	6 800	4 445	8 × 15 ml	—	30393189
FC5707 w/R09				4 × 50 ml		83041073
FC5306	fixed angle	6 000	2 000	8 × 1,5/2,0 ml	—	30134156

Rotor in package:

w/R02 30472302 Rotor, Angle, 24 × 1,5/2,0 ml, BIOSEALS, V1
 w/R77 30130877 Rotor, Angle, 12 × 15ml RB/FA
 w/R97 31013397 Rotor, Swing Out, 4 × 10ml
 w/R78 30130878 Rotor, Angle, 6 × 50ml RB/FA
 w/R05 30472305 Rotor, Angle, 8 × 15ml RB or 4 × 15ml FA
 w/R09 83041009 Rotor, Angle, 4 × 50ml RB/FA or 15ml RB/FA



FC5830R



FC5916R



FC5720R



FC5718



FC5513



FC5515R



FC5706P



FC5306



FC5707

HOLD IT



3-Prong Dual Adjust Clamp



Clamp



Lab-lift



Lab-frame

LabJaws Clamps and Supports

LabJaws Clamps are designed to securely grip and position laboratory apparatus.

LabJaws offers the largest selection of Lab-Frame Kits, Lab-Lifts, Rods, Support Stands & Connectors in the industry to safely hold labware. Perfect for life science applications such as chromatography, distillations, titrations, fume hood applications, and more.

Top questions to ask

1

Do you need to use clamps at high temperatures?

Utility clamps are supplied with vinyl and fiberglass sleeves/finger covers. The fiberglass covers are designed for applications above 100 °C.

2

Are your clamps corroding from exposure to caustic chemicals?

The OHAUS LabJaws line offers 20 of the most popular clamps in premium stainless steel which provide exceptional chemical resistance.

3

Are you performing titrations with burets?

The OHAUS LabJaws clamp line has multiple options for holding burets. Buret stands that include a double buret clamp, support rod and base are available or can be ordered individually. Alternately, fixed position clamps with built-in holders can be used on a support stand.

4

Are you looking for a lab-frame to fit in a specific area?

OHAUS offers pre-configured kits in 5 sizes. Also, kits for the 4 most common size fume hoods are available.

5

Are you looking for a lab-frame set up but not finding one to fit your needs?

If the kits are not what you are looking for, we can aid you in selecting the right rod lengths, connectors and other components based on your specifications.

6

Do you need to hold small appliances at varying heights?

OHAUS offers several options. Lab-lifts are designed to support (not raise) various loads based on size. Support plates, available in various sizes, can be secured to a lab-frame or stand.

7

What is the weight of your sample that you will be supporting or holding?

While we do not rate our clamps and supports by weight capacity, the OHAUS LabJaws line offers heavy-duty versions of support stands. Cast iron bases offer additional stability compared to the regular stainless steel support stands.

Selection of Clamps

Size	Min. to Max Grip Size	Prong Width	Arm Length	Arm Dia.	Overall Length	Item No.
Small	0 to 46 mm	11 mm	102 mm	8 mm	168 mm	30392204
Medium	0 to 69 mm	19 mm	127 mm	11 mm	229 mm	30392201
Medium (extended)	0 to 69 mm	19 mm	305 mm	13 mm	406 mm	30392202
Large	0 to 105 mm	29 mm	127 mm	11 mm	273 mm	30392198
Large (extended)	0 to 105 mm	29 mm	305 mm	13 mm	451 mm	30392199

Selection of the Lab Lifts

Deck Size	Min. to Max. Height	Max. Load	Item No.
76 x 76 mm	64 to 127 mm	45,36 kg	30400000
102 x 102 mm	64 to 127 mm	45,36 kg	30400001
152 x 152 mm	76 to 248 mm	60,33 kg	30400002
203 x 203 mm	76 to 248 mm	102,97 kg	30400003
254 x 254 mm	89 to 330 mm	112,04 kg	30400004
305 x 305 mm	102 to 495 mm	45,36 kg	30400005
406 x 406 mm	102 to 495 mm	45,36 kg	30400006

Selection of Frames

Frame Dimensions	Base Dimensions	Aluminium Item No.	Stainless Steel Item No.
610 x 610 mm	457 mm wide	30392304	30392323
610 x 1219 mm	457 mm wide	30392305	30392324
1219 x 1219 mm	457 mm wide	30392306	30392325
1219 x 1829 mm	—	30392307	30392326



OHAUS Corporation

Headquartered in Parsippany, New Jersey, OHAUS Corporation is a global leader in manufacturing an extensive line of weighing products, laboratory equipment and analytical instruments that meet and surpass the weighing and measurement needs of a broad range of industries, including laboratory, industrial, educational, food preparation and retail markets. An ISO 9001:2015 manufacturer, OHAUS develops products that are precise, reliable, affordable and backed by industry-leading customer support.

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