



Product Catalogue



Ingenious Portfolio

Our rich history and extensive industry knowledge has resulted in a comprehensive line of high-performance balances, scales and laboratory equipment that continually meet our customers' needs at economical and cost-effective prices.

Look inside for NEW product information!

Ingeniously Practical

English EU

Discover our ingenious portfolio



¹ Explorer™ Semi-Micro

OHAUS highest performance balances, now available with software update 2.25. Data integrity, enhanced user management system, log file, calibration file and label printing function, all you need in one balance!

► See page 9

² MB120

MB120 with revolutionary SmartGuide™ feature. Designed to simplify the method creation and development. With MB120, moisture analysis process is faster, easier, and more efficient.

► See page 29

³ Defender™ 6000

The OHAUS IP68/IP69K washdown bench scale Defender™ 6000, constructed from 316 stainless steel.

► See page 47

⁴ Courier™ 7000

New range of scales ideal for general shipping and animal weighing applications.

► See page 86



6



5



8



7

5 Endeavor™ 5000

Endeavor™ Light Duty Shakers are designed to guarantee stable and long-term shaking. The simple on-board menu allows users to set, store, and recall multi-step programs. All models can be remotely controlled via PC connection.

► See page 114

6 Frontier™ 5000 Multi Pro

FC5000 Multi Pro centrifuges are versatile, safe and spin from microtubes to 1 000 ml containers. The latest addition of FC5917RF floor-standing or under-bench models maximizes lab space.

► See page 172

7 Guardian™ 5000

OHAUS Guardian™ 5000 Hotplate Stirrers offer powerful heating and mixing with premium safety features and SmartRate™ system 3 temperature and 3 speed control modes.

► See page 161

8 Vortex Mixers

OHAUS Vortex Mixers feature a sturdy, rugged design for gentle to high-speed reliable mixing.

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Features



INTERNAL ADJUSTMENT



AutoCal™



USB INTERFACE



RS232 INTERFACE



ANALOGUE INPUT



EC TYPE APPROVED



IP DUST AND WATER PROTECTED



BATTERY (NOT SUPPLIED)



RECHARGEABLE BATTERY



KNOWLEDGE AND/OR
TOOLS NEEDED



BLUETOOTH



WI-FI



ETHERNET



SD ALIBI MEMORY



AUTO DOOR



IONIZER



NEW



Laboratory Weighing

LABORATORY BALANCES SELECTOR GUIDE

Laboratory Balances – applications & features

		Semi-Micro, Analytical & Precision										Precision Portable					
		EX 5(d)	EX	EX HC	AX 5(d)	AX	AX HC	PX 5(d)	PX	PX HC	PR	STX	SKX	NV / NVT	CX	CR	YA
Applications	Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Parts Counting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Percentage Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Below Balance Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Custom unit - Factor entry	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Checkweighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Dynamic/Animal Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Gross/Net/Tare	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Totalization	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Statistics	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Differential Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Filling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Density Determination	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Pipette Adjustment	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Display Hold	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Formulation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ingredients Costing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	SQC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Fill Weight Variation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Operation	High Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Mole weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	User management	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Display	System log	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Mains Operation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Battery Operation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Output	Rechargeable battery	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	LCD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Backlit LCD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Other	Backlit 2-lines LCD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Full colour VGA touch display	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Multilingual	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Other	RS232	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	USB	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ethernet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Other	Bluetooth	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	GLP Time/Date	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Auto Door	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Other	Ionizer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Internal Calibration	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Advanced AutoCal™	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Other	EC Type Approval	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Print-to-USB drive	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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• standard •* on specific models • option •* accessory To follow regulations, some applications may not be available on EC Type approved Models

WHAT IS IN A MODEL NUMBER?

Semi-Micro, Analytical and Precision Balances



EX225D/AD = Explorer 220 g, 5 places (Semi-Micro), dual range, automatic door model			
EX	–	2	2
Family	Capacity (1 kg)	Capacity (100 g)	Capacity (10 g)
EX = Explorer	None = less than 1 kg	None / 0 = less than 100 g	None / 0 = less than 10 g
AX = Adventurer	1 = 1 kg	1 = 100 g	1 = 10 g
PX = Pioneer	2 = 2 kg	2 = 200 g	2 = 20 g
PR = PR Series	4 = 4 kg	3 = 300 g	8 = 80 g
	6 = 6 kg	4 = 400 g	
	8 = 8 kg	5 = 500 g	
	10 = 10 kg	6 = 600 g	
	12 = 12 kg	8 = 800 g	
	24 = 24 kg		
	35 = 35 kg		
5	D	–	/AD
Readability	Dual range	Approval	/
1 = 1 place (Precision)	None = Single Range	None = non legal for trade models	None = standard model
2 = 2 places (Precision)	D = Dual Range	M = legal for trade models	/AD = Automatic Door Model
3 = 3 places (Precision)			/E = External Calibration Model
4 = 4 places (Analytical)			
5 = 5 places (Semi-Micro)			

EXPLORER™ Semi-Micro

Built for sophisticated, professional weighing



Application

Weighing, percent weighing, parts counting, check weighing, dynamic/animal weighing, filling, totalization, formulation, fill weight variation, differential weighing, density determination, peak hold, pipette adjustment, SQC

Display

Full-colour VGA graphic display (diagonal 5.7"/145mm), detachable, 4-wire resistive touch screen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

Operation

AC Adapter (included)

Communication

Easy access communication ports including 2 units of USB port, RS232 and an optional 4th Ethernet port, GLP/GMP data output with real time clock, Direct Data Transfer, print to USB drive

Construction

Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic doors on specific models

Design Features

AutoCal™ fully-automatic internal adjustment system equipped with 2 internal adjustment weights, routine test and minimum weight determination, fast stabilization time, four touchless sensors, built-in ionizer with automatic doors models, up to 14 operating languages, approved models available, save to USB function, menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, removable stainless steel weighing platform, stability indicator, overload and underload indicators, auto standby



Explorer's weighing cells precision-machined from a solid metal block, together with AutoCal™ provides exceptional accuracy and durability suitable for laboratory and industrial environments.

Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large colour touchscreen, programmable IR sensors, optional built-in ionizer & automatic doors, and a frameless draftshield make Explorer balances easy & convenient to use.

Model	EC Type Approved	Auto Door	Ionizer	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
EX125D				52g/120g	0,01mg/ 0,1mg		Ø 80mm	100g, E2	30218998
EX125				120g	0,01mg		Ø 80mm	100g, E2	30218999
EX225D				120g/220g	0,01mg/ 0,1mg		Ø 80mm	200g, E2	30219000
EX225D/AD		•	•	120g/220g	0,01mg/ 0,1mg		Ø 80mm	200g, E2	30219001
EX225/AD		•	•	220g	0,01mg		Ø 80mm	200g, E2	30219002
EX125DM	•			52g/120g	0,01mg/ 0,1mg	1mg	Ø 80mm	100g, E2	30139515
EX125M	•			120g	0,01mg	1mg	Ø 80mm	100g, E2	30139516
EX225DM	•			120g/220g	0,01mg/ 0,1mg	1mg	Ø 80mm	200g, E2	30139517
EX225DM/AD	•	•	•	120g/220g	0,01mg/ 0,1mg	1mg	Ø 80mm	200g, E2	30139518
EX225M/AD	•	•	•	220g	0,01mg	1mg	Ø 80mm	200g, E2	30139519

ADVENTURER™ Semi-Micro

Intuitive Balances Designed for Routine Weighing



Application

Weighing (17 units + custom unit), parts counting, percentage weighing, check weighing, animal/dynamic weighing, totalization/statistics, formulation, density determination, display hold, batch printing

Display

4.3" (109 mm) Full-colour VGA graphic touchscreen with user-controlled brightness, 6 mechanical buttons

Operation

AC adapter (included)

Communication

RS232, USB Host, USB Device (included), GLP/GMP compliant data output with real-time clock

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, adjustment lock, full housing replaceable in-use cover

Design Features

Selectable environmental filters, auto tare, user-selectable span adjustment points, software lockout and reset menu, user-selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design – making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
AX85		82g	0,01mg		Ø 80mm	50g, E2	30852308
AX125D		82/120g	0,01mg/ 0,1mg		Ø 80mm	100g, E2	30852307
AX225D		102/220g	0,01mg/ 0,1mg		Ø 80mm	200g, E2	30852309
AX85M	•	85g	0,01mg	1mg	Ø 80mm	50g, E2	30852311
AX125DM	•	82/120g	0,01mg/ 0,1mg	1mg	Ø 80mm	100g, E2	30852310
AX225DM	•	102/220g	0,01mg/ 0,1mg	1mg	Ø 80mm	200g, E2	30852312

PIONEER™ Semi-Micro

Combining Economy and High Performance for Essential Weighing



OPTION

\$ ECONOMY & ACCURACY

Application

Basic weighing, parts counting, percent weighing, animal weighing, density determination, formulation

Display

Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)

Operation

AC adapter (included)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, ABS top housing, removable stainless steel pan, glass draftshield, integrated weigh-below-hook, security bracket, calibration lock and replaceable in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

Pioneer features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB connectivity.

Model	EC Type Approved	AutoCal™	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PX125D		•	52g/120g	0,01mg/0,1mg		Ø 80mm	100g, E2	30478196
PX85		•	82g	0,01mg		Ø 80mm	50g+20g, E2	30485340
PX225D		•	82g/220g	0,01mg/0,1mg		Ø 80mm	200g, E2	30478197
PX125DM	•	•	52g/120g	0,01mg/0,1mg	1mg	Ø 80mm	100g, E2	30480168
PX85M	•	•	82g	0,01mg	1mg	Ø 80mm	50g+20g, E2	30485341
PX225DM	•	•	82g/220g	0,01mg/0,1mg	1mg	Ø 80mm	200g, E2	30480169

Accessories for Semi-Micro Balances

Accessories	Explorer™ Semi-Micro	Adventurer™ Semi-Micro	Pioneer™ Semi-Micro	Item N°
Density determination kit	•	•	•	80253384
Sinker Glass for Density kit	•	•	•	83034024
ION-100A EU stand-alone ionizer	•	•	•	30095929
Grid pan	•			30298582
Pipette adjustment kit	•			30252145
Ethernet interface	•			83021082
Interface Kit, RS232-USB	•	•	•	30304101
Cable, USB A to Mini USB, Black	•	•		28120263
In-Use Cover for EX	•			83033633
In-Use Cover for AX		•		30111792
In-Use Cover for PX			•	30372546
Dust Cover for EX	•			30093334
Anti-theft device (Models over 8 kg)	•	•	•	80850000
Terminal extension cable 2m	•			83021083
Terminal extension cable 9m	•			30078078
SF40A impact printer	•	•	•	30064202
Auxiliary display, AD7-RS	•	•	•	30472064
Anti theft device	•	•	•	80850043
Bluetooth impact printer SF40A/BT	•	•		30944359



DENSITY DETERMINATION KIT
80253384



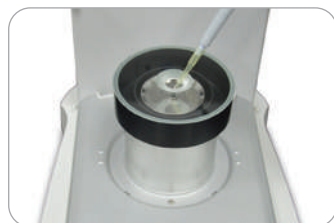
SINKER GLASS FOR DENSITY KIT
83034024



ION-100A EU STANDALONE IONIZER
30095929



GRID PAN
30298582



PIPETTE ADJUSTMENT KIT
30252145



ETHERNET INTERFACE
83021082



INTERFACE KIT, RS232-USB
30304101



IN-USE COVER
30372546



IN-USE COVER
83033633



DUST COVER
30093334



ANTI THEFT DEVICE
80850000



TERMINAL EXTENSION CABLE 3M
83021083



TERMINAL EXTENSION CABLE 9M
30078078



SF40A IMPACT PRINTER
30064202



AUXILIARY DISPLAY, AD7-RS
30472064

EXPLORER™ Analytical

Highest performance, most technically advanced balance from OHAUS available also with auto door feature

Application

Weighing (17 units + custom units), parts counting, percentage weighing, animal/dynamic weighing, check weighing, filling, totalization, formulation, differential weighing, density determination, peak hold, ingredient costing, pipette adjustment, fill weight variation, gross/net/tare weighing

Display

Full-colour VGA graphic display (diagonal 5.7"/145mm), detachable, 4-wire resistive touch screen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

Operation

AC adapter (included)

Communication

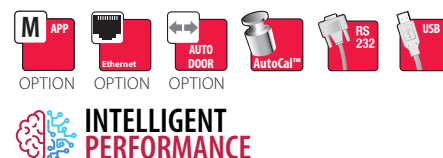
Easy access communication ports including 2 units of USB port, RS232 and an optional 4th Ethernet port, GLP and GMP including date and time, Direct Data Transfer, print to USB drive

Construction

Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic door on specific models

Design Features

3-doors frameless draftshield with removable panels with optional automatic draftshield door, modular display design with adjustable viewing angle (attach to base, wall or optional tower), AutoCal™ automatic internal Adjustment, level assist feature with illuminated level indicator, selectable environmental and auto-print settings, integral weigh below hook, protective in-use cover, software lock switch



INTELLIGENT PERFORMANCE



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large colour touchscreen, programmable IR sensors, automatic doors, and a frameless draftshield make Explorer analytical balances easy and convenient to use.

Model	EC Type Approved	Auto Door	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
EX124			120g	0.1mg		Ø 90mm	100g, E2	83021331
EX224			220g	0.1mg		Ø 90mm	200g, E2	83021332
EX324			320g	0.1mg		Ø 90mm	300g, E2	83021335
EX124/AD		•	120g	0.1mg		Ø 90mm	100g, E2	30061976
EX224/AD		•	220g	0.1mg		Ø 90mm	200g, E2	30061977
EX324/AD		•	320g	0.1mg		Ø 90mm	300g, E2	30061978
EX224M	•		220g	0.1mg	1mg	Ø 90mm	200g, E2	83021333
EX224M/AD	•	•	220g	0.1mg	1mg	Ø 90mm	200g, E2	30061995
EX324M	•		320g	0.1mg	1mg	Ø 90mm	300g, E2	83021336
EX324M/AD	•	•	320g	0.1mg	1mg	Ø 90mm	300g, E2	30061996

ADVENTURER™ Analytical

Intuitive Balances Designed for Routine Weighing



**EASY OPERATION
& TIME SAVING**

Application

Weighing (17 units + custom unit), parts counting, percentage weighing, check weighing, animal/dynamic weighing, totalization/statistics, formulation, density determination, display hold, batch printing

Display

4.3" (109 mm) Full-colour VGA graphic touchscreen with user-controlled brightness, 6 mechanical buttons

Operation

AC adapter (included)

Communication

RS232, USB Host, USB Device (included), GLP/GMP compliant data output with real-time clock

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, adjustment lock, full housing replaceable in-use cover

Design Features

Selectable environmental filters, auto tare, user-selectable span adjustment points, software lockout and reset menu, user-selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design – making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	EC Type Approved	AutoCal™	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
AX124		•	120g	0.1mg		Ø 90mm	100g, E2	30122610
AX224		•	220g	0.1mg		Ø 90mm	200g, E2	30122611
AX324		•	320g	0.1mg		Ø 90mm	200g+100g, E2	30122613
AX124M	•	•	120g	0.1mg	1mg	Ø 90mm	100g, E2	30100620
AX224M	•	•	220g	0.1mg	1mg	Ø 90mm	200g, E2	30100621
AX324M	•	•	320g	0.1mg	1mg	Ø 90mm	200g+100g, E2	30100622
AX124/E			120g	0.1mg		Ø 90mm	100g, E2	30122657
AX224/E			220g	0.1mg		Ø 90mm	200g, E2	30122612

PIONEER™ Analytical

Combining Economy and High Performance for Essential Weighing



\$ ECONOMY & ACCURACY

Application

Basic weighing, parts counting, percent weighing, animal weighing, density determination, formulation

Display

Backlit Liquid Crystal Display (LCD); second line display for additional information or guidance (dot matrix)

Operation

AC adapter (included)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, ABS top housing, removable stainless steel pan, glass draftshield, integrated weigh-below-hook, security bracket, calibration lock and replaceable in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, userselectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

Pioneer features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB connectivity.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PX124		•	120g	0,1mg		Ø 90mm	100g, E2	30429803
PX224		•	220g	0,1mg		Ø 90mm	200g, E2	30429804
PX124M	•	•	120g	0,1mg	1mg	Ø 90mm	100g, E2	30430010
PX224M	•	•	220g	0,1mg	1mg	Ø 90mm	200g, E2	30430013
PX124/E			120g	0,1mg		Ø 90mm	100g, E2	30429810
PX224/E			220g	0,1mg		Ø 90mm	200g, E2	30429811

PR SERIES Analytical

Designed for Routine Weighing Applications in Your Workplace

Application

Basic weighing, parts counting, percent weighing

Display

Backlit Liquid Crystal Display (LCD)

Operation

AC adapter (included)

Communication

RS232 (one port included)

Construction

ABS top housing, removable stainless steel pan, glass draftshield with sliding top door, integrated weigh-below-hook, security bracket, calibration lock, replaceable in-use cover

Design features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator



**ROUTINE WEIGHING
FOR ANY BUDGET**



Basic Functionality for Routine Weighing Applications.

Designed for Uncomplicated Operation with Easy-to-Use Display and Interface.

Smart Design and Durable Construction.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PR124		•	120g	0,1mg		Ø 90mm	100g, E2	30430067
PR224		•	220g	0,1mg		Ø 90mm	200g, E2	30430069
PR124M	•	•	120g	0,1mg	1mg	Ø 90mm	100g, E2	30524384
PR224M	•	•	220g	0,1mg	1mg	Ø 90mm	200g, E2	30524385
PR124/E			120g	0,1mg		Ø 90mm	100g, E2	30430068
PR224/E			220g	0,1mg		Ø 90mm	200g, E2	30430070

Accessories for Analytical Balances

Accessories	Explorer™ Analytical	Adventurer™ Analytical	Pioneer™ Analytical	PR Series Analytical	Item N°
Density determination kit	•	•	•		80253384
Sinker Glass for Density kit	•	•	•		83034024
ION-100A EU stand-alone ionizer	•	•	•	•	30095929
In-Use Cover for EX	•				83033633
Full housing in use cover for 0.1mg and 1mg model for AX		•			30111792
In-Use Cover for PX			•		30372546
In-Use Cover for PR				•	30372547
Dust Cover for EX and AX (0.1mg)	•	•			30093334
Ethernet interface	•				83021082
Cable, USB A to Mini USB, Black	•				28120263
Interface Kit, RS232-USB	•	•	•	•	30304101
Cable, RS422, Extension, 2m	•				83021083
Cable, RS422, Extension, 9m	•				30078078
Auxiliary display, AD7-RS		•	•	•	30472064
Interface Cable, USB (Type A to B)		•			83021085
Anti theft device	•	•	•	•	80850043
SF40A impact printer	•	•	•	•	30064202
Carrying Case, EX	•				30251106
Carrying Case, AX		•			30251107
Carrying Case, PX			•		30477091
Bluetooth impact printer SF40A/BT	•	•			30944359



DENSITY DETERMINATION
80253384



SINKER GLASS FOR DENSITY KIT
83034024



ION-100A EU STANDALONE IONIZER
30095929



IN-USE COVER EX
83033633



DUST COVER
30093334



ETHERNET INTERFACE
83021082



ANTI-THEFT DEVICE
80850000



INTERFACE KIT, RS232-USB
30304101



CABLE, RS422, EXTENSION, 3M
83021083



CABLE, RS422, EXTENSION, 9M
30078078



AUXILIARY DISPLAY, AD7-RS
30472064



FULL HOUSING IN USE COVER AX
30111792



INTERFACE CABLE, USB (TYPE A TO B)
83021085



IN-USE COVER PX
30372546



IN-USE COVER PR
30372547



SF40A IMPACT PRINTER
ER 30064202

EXPLORER™ Precision

Intelligent Performance No Matter How Difficult the Task!



INTELLIGENT PERFORMANCE

Application

Weighing (17 units + custom units), parts counting, percentage weighing, animal/dynamic weighing, check weighing, filling, totalization, formulation, differential weighing, density determination, peak hold, ingredient costing, pipette adjustment (except for Explorer High Capacity), gross/net/tare weighing

Display

High resolution 5.7" (145mm diagonal) full colour VGA touch display including QWERTY, detachable and numeric key pads plus weighing capacity indication

Operation

AC adapter (included) or rechargeable battery (High Capacity models only)

Communication

Easy access communication ports including 2 units of USB port, RS232 and an optional 4th Ethernet port, GLP and GMP including date and time, Direct Data Transfer, print to USB drive

Construction

Modular design, metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors and flip/sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, Adjustment lock, four touchless sensors, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user-selectable span Adjustment points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, auto standby, up to 14 operating language



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large colour touchscreen, programmable IR sensors, and a frameless draftshield make Explorer precision balances easy and convenient to use.

Model	EC Type Approved	AutoCal™	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
EX223		•	220g	1mg		Ø 130mm	200g, F1	83021341
EX423		•	420g	1mg		Ø 130mm	400g, F1	83021342
EX623		•	620g	1mg		Ø 130mm	500g, F1	83021348
EX1103		•	1100g	1mg		Ø 130mm	1000g, F1	83021350
EX2202		•	2200g	0.01g		190mm x 200mm	2000g, F1	83021356
EX4202		•	4200g	0.01g		190mm x 200mm	4000g, F1	83021357
EX6202		•	6200g	0.01g		190mm x 200mm	5000g, F1	83021360
EX10202		•	10200g	0.01g		190mm x 200mm	10000g, F1	83021362
EX6201		•	6200g	0.1g		190mm x 200mm	5000g, F1	83021361
EX10201		•	10200g	0.1g		190mm x 200mm	10000g, F1	83021365
EX423M	•	•	420g	1mg	0.01g	Ø 130mm	400g, F1	83021343
EX1103M	•	•	1100g	1mg	0.01g	Ø 130mm	1000g, F1	83021351
EX4202M	•	•	4200g	0.01g	0.1g	190mm x 200mm	4000g, F1	83021358
EX10202M	•	•	10200g	0.01g	0.1g	190mm x 200mm	10000g, F1	83021363
EX10201M	•	•	10200g	0.1g	0.1g	190mm x 200mm	10000g, F1	83021366
EX223/E			220g	1mg		Ø 130mm	200g, F1	30061979
EX423/E			420g	1mg		Ø 130mm	400g, F1	30061980
EX2202/E			2200g	0.01g		190mm x 200mm	2000g, F1	30061981
EX4202/E			4200g	0.01g		190mm x 200mm	4000g, F1	30061982
EX6202/E			6200g	0.01g		190mm x 200mm	5000g, F1	30061983
EX6201/E			6200g	0.1g		190mm x 200mm	5000g, F1	30061984
EX12001		•	12000g	0.1g		377mm x 311mm	10kg, F1	30078072
EX24001		•	24000g	0.1g		377mm x 311mm	20kg, F1	30078073
EX35001		•	35000g	0.1g		377mm x 311mm	10+20kg, F1	30078074
EX12001M	•	•	12000g	0.1g	1g	377mm x 311mm	10kg, F1	30057067
EX24001M	•	•	24000g	0.1g	1g	377mm x 311mm	20kg, F1	30057068
EX35001M	•	•	35000g	0.1g	1g	377mm x 311mm	10+20kg, F1	30057069

High Capacity

ADVENTURER™ Precision

Intuitive Balances Designed for Routine Weighing



**EASY OPERATION
& TIME SAVING**

Application

Weighing (17 units + custom unit), parts counting, percentage weighing, check weighing, animal/dynamic weighing, totalization/statistics, formulation, density determination, display hold, batch printing

Display

4.3" (109 mm) Full-colour VGA graphic touchscreen with user-controlled brightness, 6 mechanical buttons

Operation

AC adapter (included)

Communication

RS232, USB Host, USB Device (included), GLP/GMP compliant data output with real-time clock

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, adjustment lock, full housing replaceable in-use cover

Design Features

Selectable environmental filters, auto tare, user-selectable span adjustment points, software lockout and reset menu, user-selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design – making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	EC Type Approved	AutoCal™	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
AX223		•	220g	1mg		Ø 130mm	200g, F1	30127960
AX423		•	420g	1mg		Ø 130mm	200g+200g, F1	30127962
AX623		•	620g	1mg		Ø 130mm	500g, F1	30805890
AX422		•	420g	0,01g		175mm x 195mm	200g+200g, F1	30206079
AX822		•	820g	0,01g		175mm x 195mm	500g+100g, F1	30206081
AX1502		•	1520g	0,01g		175mm x 195mm	1000g+500g, F1	30127966
AX2202		•	2200g	0,01g		175mm x 195mm	2000g, F1	30127968
AX4202		•	4200g	0,01g		175mm x 195mm	2000g+2000g, F1	30122616
AX6202		•	6200g	0,01g		175mm x 195mm	5000g, F1	30805892
AX2201		•	2200g	0,1g		175mm x 195mm	2000g, F1	30206083
AX4201		•	4200g	0,1g		175mm x 195mm	2000g+2000g, F1	30127970
AX8201		•	8200g	0,1g		175mm x 195mm	5000g+1000g, F1	30122619
AX223M	•	•	220g	1mg	0,01g	Ø 130mm	200g, F1	30100623
AX423M	•	•	420g	1mg	0,01g	Ø 130mm	200g+200g, F1	30100624
AX623M	•	•	620g	1mg	0,01g	Ø 130mm	500g, F1	30805896
AX1502M	•	•	1520g	0,01g	0,1g	175mm x 195mm	1000g+500g, F1	30100626
AX2202M	•	•	2200g	0,01g	0,1g	175mm x 195mm	2000g, F1	30100627
AX4202M	•	•	4200g	0,01g	0,1g	175mm x 195mm	2000g+2000g, F1	30100628
AX6202M	•	•	6200g	0,01g	0,1g	175mm x 195mm	5000g, F1	30805897
AX8201M	•	•	8200g	0,1g	1g	175mm x 195mm	5000g+1000g, F1	30122651
AX223/E			220g	1mg		Ø 130mm	200g, F1	30127961
AX423/E			420g	1mg		Ø 130mm	200g+200g, F1	30127963
AX623/E			620g	1mg		Ø 130mm	500g, F1	30805891
AX422/E			420g	0,01g		175mm x 195mm	200g+200g, F1	30206080
AX822/E			820g	0,01g		175mm x 195mm	500g+100g, F1	30206082
AX1502/E			1520g	0,01g		175mm x 195mm	1000g+500g, F1	30127967
AX2202/E			2200g	0,01g		175mm x 195mm	2000g, F1	30127969
AX4202/E			4200g	0,01g		175mm x 195mm	2000g+2000g, F1	30122617
AX6202/E			6200g	0,01g		175mm x 195mm	5000g, F1	30805893
AX2201/E			2200g	0,1g		175mm x 195mm	2000g, F1	30206084
AX4201/E			4200g	0,1g		175mm x 195mm	2000g+2000g, F1	30127971
AX8201/E			8200g	0,1g		175mm x 195mm	5000g+1000g, F1	30122620
AX12001		•	12000g	0,1g		175mm x 195mm	10000g, F1	30805894
AX12001M	•	•	12000g	0,1g	1g	175mm x 195mm	10000g, F1	30805898
AX12001/E			12000g	0,1g		175mm x 195mm	10000g, F1	30805895

High Capacity

PIONEER™ Precision

Combining Economy and High Performance for Essential Weighing



OPTION OPTION

\$ ECONOMY & ACCURACY

Application

Basic weighing, parts counting, percent weighing, animal weighing, density determination, formulation

Display

Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)

Operation

AC adapter (included)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, ABS top housing, removable stainless steel pan, glass draftshield (1 mg models only), integrated weigh-below-hook, security bracket, calibration lock and replaceable in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

Pioneer features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB connectivity.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PX323		•	320g	1mg		Ø 120mm	200g+100g, F1	30429805
PX623		•	620g	1mg		Ø 120mm	500g+100g, F1	30619383
PX3202		•	3200g	0,01g		Ø 180mm	2kg+1kg, F1	30429807
PX6202		•	6200g	0,01g		Ø 180mm	5kg+1kg, F1	30619385
PX4201		•	4200g	0,1g		Ø 180mm	2kg+2kg, F1	30429809
PX323M	•	•	320g	1mg	0,01g	Ø 120mm	200g+100g, F1	30430015
PX623M	•	•	620g	1mg	0,01g	Ø 120mm	500g+100g, F1	30619386
PX3202M	•	•	3200g	0,01g	0,1g	Ø 180mm	2kg+1kg, F1	30430021
PX6202M	•	•	6200g	0,01g	0,1g	Ø 180mm	5kg+1kg, F1	30714491
PX4201M	•	•	4200g	0,1g	0,1g	Ø 180mm	2kg+2kg, F1	30430024
PX323/E			320g	1mg		Ø 120mm	200g+100g, F1	30429812
PX623/E			620g	1mg		Ø 120mm	500g+100g, F1	30619382
PX3202/E			3200g	0,01g		Ø 180mm	2kg+1kg, F1	30429814
PX6202/E			6200g	0,01g		Ø 180mm	5kg+1kg, F1	30619384
PX4201/E			4200g	0,1g		Ø 180mm	2kg+2kg, F1	30429816
PX12001		•	12000g	0,1g		193mm x 248mm	10kg, F1	30868072
PX12001/E			12000g	0,1g		193mm x 248mm	10kg, F1	30868073

High Capacity

PR SERIES Precision

Designed for Routine Weighing Applications in Your Workplace



**ROUTINE WEIGHING
FOR ANY BUDGET**



Application

Basic weighing, parts counting, percent weighing

Display

Backlit Liquid Crystal Display (LCD)

Operation

AC adapter (included)

Communication

RS232 (one port included)

Construction

ABS top housing, removable stainless steel pan, glass draftshield (1mg models only) with sliding top door, integrated weigh-below-hook, security bracket, calibration lock

Design features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator

Basic Functionality for Routine Weighing Applications.

Designed for Uncomplicated Operation with Easy-to-Use Display and Interface.

Smart Design and Durable Construction.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PR223		•	220g	1mg		Ø 120mm	200g, F1	30492730
PR423		•	420g	1mg		Ø 120mm	200g+200g, F1	30492731
PR523		•	520g	1mg		Ø 120mm	500g, F1	30492732
PR1602		•	1600g	0,01g		Ø 180mm	1kg+500g, F1	30492733
PR2202		•	2200g	0,01g		Ø 180mm	2kg, F1	30492734
PR4202		•	4200g	0,01g		Ø 180mm	2kg+2kg, F1	30492735
PR4201		•	4200g	0,1g		Ø 180mm	2kg+2kg, F1	30492736
PR6201		•	6200g	0,1g		Ø 180mm	5kg+1kg, F1	30498176
PR223M	•	•	220g	1mg	0,01g	Ø 120mm	200g, F1	30524386
PR423M	•	•	420g	1mg	0,01g	Ø 120mm	200g+200g, F1	30524387
PR523M	•	•	520g	1mg	0,01g	Ø 120mm	500g, F1	30524608
PR1602M	•	•	1600g	0,01g	0,1g	Ø 180mm	1kg+500g, F1	30524609
PR2202M	•	•	2200g	0,01g	0,1g	Ø 180mm	2kg, F1	30524610
PR4202M	•	•	4200g	0,01g	0,1g	Ø 180mm	2kg+2kg, F1	30524611
PR4201M	•	•	4200g	0,1g	0,1g	Ø 180mm	2kg+2kg, F1	30524612
PR6201M	•	•	6200g	0,1g	1g	Ø 180mm	5kg+1kg, F1	30524613
PR223/E			220g	1mg		Ø 120mm	200g, F1	30430071
PR423/E			420g	1mg		Ø 120mm	200g+200g, F1	30430072
PR523/E			520g	1mg		Ø 120mm	500g, F1	30430073
PR1602/E			1600g	0,01g		Ø 180mm	1kg+500g, F1	30430074
PR2202/E			2200g	0,01g		Ø 180mm	2kg, F1	30430075
PR4202/E			4200g	0,01g		Ø 180mm	2kg+2kg, F1	30430076
PR4201/E			4200g	0,1g		Ø 180mm	2kg+2kg, F1	30430077
PR6201/E			6200g	0,1g		Ø 180mm	5kg+1kg, F1	30430078

Accessories for Precision Balances

Accessories	Explorer™ Precision	Explorer™ Precision High Capacity	Adventurer™ Precision	Pioneer™ Precision	PR Series Precision	Item N°
Density determination kit (for 1mg only)	•		•	•		80253384
Sinker Glass for Density kit	•		•	•		83034024
Auxiliary display, AD7-RS	•	•	•	•	•	30472064
In-Use Cover for EX	•	•				83033633
Full housing in-use cover for AX (1mg models)			•			30111792
Full housing in-use cover for AX (0.01g and 0.1g models)			•			30111777
In-Use Cover for PX (0.01g and 0.1g models)				•		30759721
In-Use Cover for PX				•		30372546
In-Use Cover for PR					•	30372547
Ethernet interface	•	•				83021082
Draft shield kit for EX 0,01g and 0,1g models	•					83021084
Tower Kit	•					83021102
Tower Kit		•				30078082
Anti theft device (models over 12kg)		•				80850000
Anti theft device	•		•	•	•	80850043
Cable, USB A to Mini USB, Black	•					28120263
Interface Kit, RS232-USB	•	•	•	•	•	30304101
Cable, RS422, Extension, 2m	•	•				83021083
Cable, RS422, Extension, 9m	•	•				30078078
SF40A impact printer	•	•	•	•	•	30064202
Battery Kit		•				30041295
Adjustable rolling feet		•				30041470
Interface Cable, USB (Type A to B)			•			83021085
Carrying Case, AX			•			30251108
Carrying Case, PX				•		30477092
Pan, 12kg, 300×225mm, PX (only for High Capacity models)				•		30868077
Bluetooth impact printer SF40A/BT	•	•	•			30944359



DENSITY DETERMINATION KIT
80253384



SINKER GLASS FOR DENSITY KIT
83034024



AUXILIARY DISPLAY, AD7-RS
30472064



IN-USE COVER
83033633



ETHERNET INTERFACE
83021082



DRAFT SHIELD KIT
83021084



TOWER KIT
83021102



ANTI THEFT DEVICE
80850000



INTERFACE CABLE, USB (TYPE A TO B)
83021085



INTERFACE KIT, RS232-USB
30304101



CABLE, RS422, EXTENSION, 3M
83021083



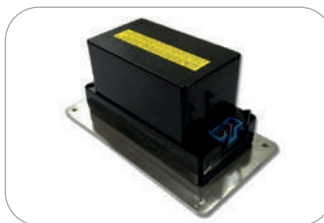
FULL HOUSING IN USE COVER
30111777



SF40A IMPACT PRINTER
ER30064202



IN-USE COVER
30372546



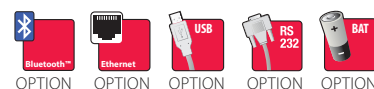
BATTERY KIT
30041295



ADJUSTABLE ROLLING FEET
30041470

SCOUT™ STX

High-Performance Portable Balances with Intuitive Touchscreens for High Accuracy and Productivity



**HIGH PERFORMANCE
& INTUITIVE OPERATION**



Application

Weighing, percent weighing, parts counting, check weighing, dynamic/animal weighing, totalization, density determination, display hold, mole weighing

Display

Full-colour touchscreen WQVGA Graphic LCD (4.3 in. diagonal), QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other USB device, Bluetooth or Ethernet

Operation

AC Adapter (Included), batteries (not included)

Communication

Optional RS232, USB host, USB device, Bluetooth or Ethernet

Construction

ABS housing, stainless steel pan, replaceable in-use cover

Design Features

Fast stabilization time, up-front level indicator, up to 9 operating languages, save-to-USB function, menu lock switch, stackable design, security slot, integral weigh below hook for below balance weighing applications, transportation lock, removable stainless steel weighing platform, stability indicator, overload and underload indicators, low battery indicator, auto shut-off

Large, intuitive, colour touchscreen display allows for easy operation - guiding the user through every step of the weighing application.

Advanced weighing technology allows for one-second stabilization time for increased productivity.

Integrated overload protection system rated at ten times the capacity protects the balance in demanding environments.

Model	Capacity	Readability (d)	Platform	Cal. weight, class*	Item N°
STX123	120g	0,001g	Ø 93mm	100g, M1*	30253058
STX223	220g	0,001g	Ø 93mm	200g, M1*	30253059
STX222	220g	0,01g	Ø 120mm	200g, M1*	30253060
STX422	420g	0,01g	Ø 120mm	200g, M1*	30253061
STX622	620g	0,01g	Ø 120mm	300g, M1*	30253062
STX1202	1200g	0,01g	170mm × 140mm	1000g, M1	30253063
STX2202	2200g	0,01g	170mm × 140mm	2000g, M1	30253064
STX421	420g	0,1g	Ø 120mm	200g, M1	30253065
STX621	620g	0,1g	170mm × 140mm	300g, M1	30253066
STX2201	2200g	0,1g	170mm × 140mm	2000g, M1	30253067
STX6201	6200g	0,1g	170mm × 140mm	5000g, M1	30253068
STX8200	8200g	1g	170mm × 140mm	8000g, M1	30253069

* test weight included for models up to 620 g capacity

SCOUT™ SKX

The Next Generation of Portable Balance



PRECISION & SPACE SAVING

Application

Weighing, density determination, mole weighing

Display

Backlit LCD: 6-digit 7-segment with white LED backlight

Operation

AC Adapter (included), batteries (not included)

Communication

Optional RS232, USB host, USB device, Bluetooth or Ethernet

Construction

ABS housing, stainless steel pan, replaceable in-use cover

Design Features

Fast stabilization time, menu lock switch, stackable design, security slot, integral weigh below hook for below balance weighing applications, transportation lock, removable stainless steel weighing platform, stability indicator, overload and underload indicators, low battery indicator, auto shut-off



Space-saving design allows for stackable storage (excluding the 1 mg model).

Integrated overload protection system rated at ten times the capacity protects the balance in demanding classroom environments.

Large backlit display improves readability in low-light conditions and makes it easier to view results from across a desk or lab bench. Multiple connectivity options for data collection and transfer.

Model	Capacity	Readability (d)	Platform	Cal. weight, class*	Item N°
SKX123	120g	0,001g	Ø 93mm	100g, M1*	30253070
SKX222	220g	0,01g	Ø 120mm	200g, M1*	30253071
SKX422	420g	0,01g	Ø 120mm	200g, M1*	30253072
SKX622	620g	0,01g	Ø 120mm	300g, M1*	30253073
SKX1202	1200g	0,01g	170mm × 140mm	1000g, M1	30253074
SKX2202	2200g	0,01g	170mm × 140mm	2000g, M1	30253075
SKX421	420g	0,1g	Ø 120mm	200g, M1	30253076
SKX621	620g	0,1g	170mm × 140mm	300g, M1	30253077
SKX2201	2200g	0,1g	170mm × 140mm	2000g, M1	30253078
SKX6201	6200g	0,1g	170mm × 140mm	5000g, M1	30253079
SKX8200	8200g	1g	170mm × 140mm	8000g, M1	30253080

* test weight included for models up to 620 g capacity

NAVIGATOR™

Rugged, Multi-Purpose Balances for a Wide Range of General Weighing Applications

Application

Basic weighing, parts counting, percent weighing, check weighing

Display

Backlit Liquid Crystal Display (LCD)

Operation

AC adapter (included) or 4 C batteries (not included)

Communication

RS232, USB, or Ethernet (available as accessories)

Construction

ABS housing, stainless steel pan, transportation lock, slip-resistant and adjustable feet, leveling bubble

Design Features

Menu and calibration lock switch, mechanical and software overload/underload protection, stability indicator, low battery indicator, auto shut-off, user-selectable print options, user-selectable communication settings



MULTI-PURPOSE
\$ AT COMPETITIVE PRICE



Designed for Accuracy and Repeatability in Essential Weighing Applications.

Improved Productivity with Fast Stabilization Time.

Mechanical Overload Protection Safeguards the Balance and Increases Durability
OIML/EC Type Approvals Ensure Accurate Operation in Trading Applications.

Navigator™ NV

Model	Capacity	Readability (d)	Platform	Cal. weight, class	Item N°
NV123*	120g	0,001g	Ø93mm	100g, F2	30615581
NV223*	220g	0,001g	Ø93mm	200g, F2	30615582
NV323*	320g	0,001g	Ø93mm	300g, F2	30615583
NV222	220g	0,01g	Ø 145mm	200g, F2	30456382
NV422	420g	0,01g	Ø 145mm	200g, F2	30456383
NV622	620g	0,01g	Ø 145mm	300g, F2	30456384
NV1202	1200g	0,01g	190mm × 144mm	1000g, F2	30615584
NV2202	2200g	0,01g	190mm × 144mm	2000g, F2	30615585
NV3202	3200g	0,01g	190mm × 144mm	3000g, F2	30615586
NV221	220g	0,1g	190mm × 144mm	200g, F2	30456385
NV621	620g	0,1g	190mm × 144mm	600g, F2	30456386
NV1201	1200g	0,1g	190mm × 144mm	500g, F2	30456387
NV2201	2200g	0,1g	190mm × 144mm	1000g, F2	30456388

*model with draftshield

Navigator™ NVT

Model	Capacity	Readability (d)	Platform	Cal. weight, class	Item N°
NVT2201	2200g	0,1g	230mm × 174mm	1000g, F2	30456389
NVT4201	4200g	0,1g	230mm × 174mm	2000g, F2	30456390
NVT6201	6200g	0,1g	230mm × 174mm	5000g, F2	30456391
NVT10201	10200g	0,1g	230mm × 174mm	5000g, F2	30615587
NVT2200	2200g	1g	230mm × 174mm	1000g, F2	30456392
NVT6200	6200g	1g	230mm × 174mm	5000g, F2	30456393
NVT12000	12000g	1g	230mm × 174mm	5000g, F2	30456394
NVT22000	22000g	1g	230mm × 174mm	10000g, F2	30456395

Model	EC Type Approved	Capacity	Readability (d)	Verification interval (e)	Platform	Cal. weight, class	Item N°
NVT1601M	•	1600g	0,5g	0,5g	230mm × 174mm	1000g, F2	30467835
NVT3200M	•	3200g	1g	1g	230mm × 174mm	2000g, F2	30467836
NVT6400M	•	6400g	2g	2g	230mm × 174mm	5000g, F2	30467837
NVT16000M	•	16000g	5g	5g	230mm × 174mm	10000g, F2	30467838

COMPASS™ CX

Designed with Energy Efficient Weighing in Mind for Workplace & In-the-Field Weighing

Application

Basic Weighing, Display Hold

Display

Liquid Crystal Display (LCD) with backlight

Operation

3 AA batteries (included) or AC adapter (not included)

Construction

ABS housing, stainless steel pan, transportation lock, slip-resistant feet

Design Features

Stability indicator, mechanical and software overload/underload protection, low battery indicator, auto shut-off



Low Power Consumption Design Allows for Uninterrupted Operation - 1,000 hours.

Improved Functionality with Large Backlit LCD and Two-Button Operation.

Practical Space-Saving Design for Convenient Storage.

Model	Capacity	Readability (d)	Platform	Cal. weight, class	Item N°
CX221	220g	0,1g	142mm × 128mm	200g, M1	30428208
CX621	620g	0,1g	142mm × 128mm	500g, M1	30428209
CX1201	1200g	0,1g	142mm × 128mm	1000g, M1	30428210
CX2200	2200g	1g	142mm × 128mm	1000g, M1	30428211
CX5200	5200g	1g	142mm × 128mm	2000g, M1	30428212

COMPASS™ CR

Basic Weighing Capabilities at an Economical Price



**COST & SPACE
CONSCIOUS DESIGN**

Application

Basic Weighing

Display

Liquid Crystal Display (LCD)

Operation

3 AA batteries (included) or AC adapter (not included)

Construction

ABS housing and pan, transportation lock, slip-resistant feet

Design Features

Stability indicator, mechanical and software overload/underload protection, auto shut-off



Basic Weighing at a Competitive Price. Long battery life - 300h.

Space-Saving Stackable Design for Convenient Storage.

Enlarged Weighing Platform Allows for Versatile Use.

Model	Capacity	Readability (d)	Platform	Cal. weight, class	Item N°
CR221	220g	0,1g	132mm×125mm	200g, M1	30428213
CR621	620g	0,1g	132mm×125mm	500g, M1	30428214
CR2200	2200g	1g	132mm×125mm	1000g, M1	30428215
CR5200	5200g	1g	132mm×125mm	2000g, M1	30428216

YA GOLD SERIES

Reliable pocket-sized portable scale



Unique hinged cover design.

High contrast backlit LCD.

Energy saving auto shut-off.

Model	Capacity	Readability (d)	Platform	Item N°
YA102	100g	0.01g	50mm×70mm	80251910
YA302	300g	0.05g	50mm×70mm	80251911
YA501	500g	0.1g	50mm×70mm	80251912

Accessories for Precision Portable Balances

Accessories	Scout™ STX	Scout™ SKX	Navigator™ NV	Navigator™ NVT	Compass™ CX	Compass™ CR	YA Gold	Item N°
RS232 Interface Kit	•	•						30268982
USB Host Interface Kit	•	•						30268983
USB Device Interface Kit	•	•						30268984
Bluetooth Interface Kit	•	•						30268985
Ethernet Interface Kit	•	•						30268986
Stacking Kit, set (6)	•	•						30268987
Stacking Kit, set (1)	•	•						30268988
In-use cover	•	•						30269022
Auxiliary display, AD7-MD	•	•						30472063
Top loading kit for Density Determination	•	•						30269020
Anti theft device	•	•	•	•				80850043
Carrying Case, Scout	•	•						30269021
RS232 interface kit			•	•				83032107
USB interface kit			•	•				83032108
Ethernet interface kit			•	•				83032109
Battery rechargeable kit			•	•				83032106
Carrying Case			•	•				30467963
Stacking Kit, x1*			•					30467917
Stacking Kit, x4*			•					30467918
Weigh below kit			•	•				30628012
Carrying case CX CR					•	•		30467763
Pan SST CX					•			30428138
Adapter & plugs (EU-US-UK-AU-KR)						•		30467987
Adapter, 12V 0.5A, fixed UK plug						•		30467994
Adapter, 5V 1A EU, fixed plug					•			30333866
Adapter, 5V 1A UK, fixed plug					•			30333867
In-use cover NV			•					30809921
In-use cover NVT				•				30809922

* To use the storage stacking cover on models with draft shield (readability 0.001g), the draft shield has to be removed.



BLUETOOTH INTERFACE KIT
30268985



RS232 INTERFACE KIT
30268982



USB DEVICE INTERFACE KIT
30268984



STACKING KIT, SET (1)
30268988



AUXILIARY DISPLAY, AD7-MD
30472063



RS232 INTERFACE KIT
83032107



USB INTERFACE KIT
83032108



ETHERNET INTERFACE KIT
83032109



PAN SST CX
30428138



BATTERY RECHARGEABLE KIT
83032106



CARRYING CASE
30467963



TOP LOADING KIT FOR DENSITY
DETERMINATION 30269020



IN-USE COVER NV
30809921



IN-USE COVER NVT
30809922

MB120

Faster, Smarter, More Efficient Moisture Analysis



Application

Percent moisture determination, percent moisture regain determination, percent solid determination, weighing

Display

4.3" TFT colour touchscreen display

Operation

Power cord (included)

Communication

RS232 with GLP/GMP data output, USB Host and USB Device (included)

Construction

Metal base, ABS top housing, halogen heat source, stainless steel pan support, stainless steel pan handler, in-use cover

Design Features

SmartGuide™, Seven shut-off criteria (manual, timed, autofree %/s, autofree mg/s, A30, A60 and A90), four drying profiles (standard, fast, ramp and step), storage up to 100 methods and 1000 test results for all methods, user guide, 40°C to 230°C heating temperature range (1°C increments), 13 operational languages



Get started quickly with SmartGuide™. This revolutionary feature automatically analyzes a sample and creates a method, thereby removing the guesswork from the initial setup.

The MB120 has the capability to produce fast and accurate results due to features such as a halogen heating system, customizable shut-off criteria and four built in drying profiles.

The MB120 allows storage of up to 100 methods and 1,000 measurement results. Stored results can be exported, and methods can be shared across multiple devices.

Model	Capacity	Readability (d)	Platform	Cal. weight, class	Item N°
MB120	120g	1mg/0.01%	Ø 90mm	50g, F1	30241169
Accessories					Item N°
Temperature Calibration Kit					11113857
Pan Holder					30246947
Aluminium Sample pans, 50 per pack					30585411
Glass fibre discs, 200 per pack					80850087
Sample Cage					80252477
Reusable sample pans, 3 per pack, 14mm					80252479
Reusable sample pans, 3 per pack, 7mm					80252478
Scoop, Accessory					30284477
In-Use-Cover, Accessory – MB120					30284478
Anti theft device					80850043
Interface Kit, RS232-USB					30304101
Carrying Case - MB120					30298583
Bluetooth impact printer SF40A/BT					30944359



TEMPERATURE CALIBRATION KIT
11113857



REUSABLE SAMPLE PANS, 3 PER PACK,
14MM 80252479



GLASS FIBRE DISCS, 200 PER PACK
80850087



INTERFACE KIT, RS232-USB
30304101

MB92

High Performance Moisture Analysis with Advanced Features for the Most Demanding Application

Application

Percent Moisture Determination, Percent Moisture Regain Determination, Percent Solid Determination, Weighing

Display

4.3" capacitive touch screen

Operation

Internal power supply with power cord (included)

Communication

RS232, USB device, USB host

Construction

Carbon fiber heat source, PBT housing, die casting aluminum base, metal pan support, metal pan handler, in use cover

Design Features

Eight shut-off criteria (manual, timed, A10, A30, A60, A90, A160, free mg/s), four drying profiles (standard, fast, ramp, step), storage up to 20 methods and 200 results for all methods, 40-200°C heating range, multiple operational languages



**SIMPLE OPERATION
& PRECISE RESULTS**



Robust and durable with the new carbon heating technology and an upgraded full color capacitive touchscreen, MB92 is the perfect choice for users demanding a high level of performance and precision.

Multiple drying profiles, shut off criteria and methods offer great flexibility in method creation. Enhanced password protection ensures greater data security and integrity.

A full glass panel and tool-free heating chamber assembly makes cleaning and maintenance easy. Perfect for both the laboratory and the production floor.

Model	Capacity	Readability (d)	Repeatability (3g sample)	Platform	Cal. weight, class	Item N°
MB92	90g	1 mg/0.01%	0.08%	Ø 90mm	50g, F1	30971924
Accessories						Item N°
Temperature Calibration Kit						11113857
Aluminium Sample pans, 50 per pack						30585411
Glass fibre discs, 200 per pack						80850087
Sample Cage						80252477
Reusable sample pans, 3 per pack, 14mm						80252479
Reusable sample pans, 3 per pack, 7mm						80252478
Scoop, Accessory						30284477
Pan Handler, MB32 MB62 MB92						30954234
In-Use Cover, MB92						30954269
SF40A Impact Printer						30064202
Bluetooth impact printer SF40A/BT						30944359



TEMPERATURE CALIBRATION KIT
11113857



SF40A IMPACT PRINTER
30064202



GLASS FIBRE DISCS, 200 PER PACK
80850087



PAN HANDLER, MB32 MB62 MB92
30954234

MB62

Designed for Durability and Flexible Performance in a Variety of Moisture Applications

Application

Percent Moisture Determination, Percent Moisture Regain Determination, Percent Solid Determination, Weighing

Display

5" LCD with 2nd line display

Operation

Internal power supply with power cord (included)

Communication

RS232, USB device

Construction

Carbon fiber heat source, PBT housing, die casting aluminum base, metal pan support, metal pan handler, in use cover

Design Features

Seven shut-off criteria (manual, timed, A10, A30, A60, A90, A160), four drying profiles (standard, fast, ramp, step), storage up to 20 methods and 100 results for all methods, 10 sample ID, 40-200°C heating range, multiple operational languages



Designed with durability and simplicity in mind, the wide 5-inch LCD display, knob control, and new carbon fiber heating technology guarantee a longer service life and reliable results.

Flexible method and sample management with 4 drying profiles, 7 shut off criteria and library storage for up to 20 methods, and 100 results with sample ID for easy recall.

Understand the status of your test and machine at all times. The indication curve shows the status of the test, and the machine status can be seen easily with the multi-color status light.

Model	Capacity	Readability (d)	Repeatability (3g sample)	Platform	Cal. weight, class	Item N°
MB62	90g	1 mg/0.01%	0.10%	Ø 90mm	50g, F1	30971923
Accessories						Item N°
Temperature Calibration Kit						11113857
Aluminium Sample pans, 50 per pack						30585411
Glass fibre discs, 200 per pack						80850087
Sample Cage						80252477
Reusable sample pans, 3 per pack, 14mm						80252479
Reusable sample pans, 3 per pack, 7mm						80252478
Scoop, Accessory						30284477
Pan Handler, MB32 MB62 MB92						30954234
In-Use Cover, MB32 MB62						30954235
SF40A Impact Printer						30064202
Bluetooth impact printer SF40A/BT						30944359



TEMPERATURE CALIBRATION KIT
11113857



SF40A IMPACT PRINTER
30064202



IN-USE COVER, MB32 MB62
30954235



PAN HANDLER, MB32 MB62 MB92
30954234

MB32

Perfect for Routine Moisture Testing



**FAST,
RELIABLE RESULTS**

NEW

Application

Percent Moisture Determination, Percent Moisture Regain Determination, Percent Solid Determination, Weighing

Display

4" LCD with 2nd line display

Operation

Internal power supply with power cord (included)

Communication

RS232, USB device

Construction

Carbon fiber heat source, PBT housing, Die casting aluminum base, metal pan support, metal pan handler, in use cover

Design Features

Five shut-off criteria (manual, timed, Auto, A30, A90), two drying profiles (standard and fast), storage up to two methods, 40-180°C heating range, multiple operational languages



An LCD with second line display, navigation knob, and intuitive operation system makes for convenient routine moisture testing.

The new carbon fiber heating technology and upgraded loadcell shortens analysis time, saves power and keeps results accurate and consistent.

Robust, slim design with a strong housing ensures MB32's durability even in harsh environments.

Model	Capacity	Readability (d)	Repeatability (3g sample)	Platform	Cal. weight, class	Item N°
MB32	90g	1 mg/0.01%	0.15%	Ø 90mm	50g, F1	30971922
Accessories						Item N°
Temperature Calibration Kit						11113857
Aluminium Sample pans, 50 per pack						30585411
Glass fibre discs, 200 per pack						80850087
Sample Cage						80252477
Reusable sample pans, 3 per pack, 14mm						80252479
Reusable sample pans, 3 per pack, 7mm						80252478
Scoop, Accessory						30284477
Pan Handler, MB32 MB62 MB92						30954234
In-Use Cover, MB32 MB62						30954235
SF40A Impact Printer						30064202
Bluetooth impact printer SF40A/BT						30944359



TEMPERATURE CALIBRATION KIT
11113857



SF40A IMPACT PRINTER
30064202



IN-USE COVER, MB32 MB62
30954235



PAN HANDLER, MB32 MB62 MB92
30954234

MB25

Fast, easy-to-use, compact halogen analyser



**HALOGEN HEATING
WITH RELIABLE RESULTS**

Application

Moisture determination from 50 °C to 160 °C, 5 °C increments, repeatability 0.05 % (10 g sample)

Display

Custom backlit LCD

Operation

Mains power

Communication

RS232 Interface

Construction

Halogen heat source, durable ABS

Design Features

Compact design, in-use cover, sample pan holder, halogen heating, manual, automatic or timed duration drying time



Halogen heating and dual weight-temperature calibration provide fast, reliable results.

User-friendly touch-button design for easy operation.

Easy-clean heating chamber is ideal for frequent use.

Model	Capacity	Readability (d)	Platform	Cal. weight, class	Item N°
MB25	110g	5mg/0.01% (sample <10g) 5mg/0.05% (sample >10g)	Ø 90mm	50g, F1	80252472
Accessories					Item N°
Temperature Calibration Kit					11113857
Aluminium Sample pans, 50 per pack					30585411
Glass fibre discs, 200 per pack					80850087
Sample Cage					80252477
Reusable sample pans, 3 per pack, 14mm					80252479
Reusable sample pans, 3 per pack, 7mm					80252478
Anti theft device					80850043
Interface Kit, RS232-USB					30304101
Pan Holder					80252476
In use display cover MB2x					80252475



SAMPLE CAGE
80252477



REUSABLE SAMPLE PANS, 3 PER PACK,
7MM 80252478



ALUMINIUM SAMPLE PANS, 50 PER PACK
30585411



ANTI THEFT DEVICE
80850043

MB23

Compact analyser that is easy to use and clean



**MOISTURE ANALYSIS
FOR ANY BUDGET**

Application

Moisture determination from 50 °C to 160 °C, 5 °C increments, repeatability 0.2 % (10 g sample)

Display

Custom backlit LCD

Operation

Mains operation

Communication

RS232 Interface

Construction

Durable ABS

Design Features

Compact design, in-use cover, sample pan holder, infrared heating, manual, automatic or timed duration drying time



Glass-less infrared heating increases efficiency for faster results.

User-friendly touch-button design for easy operation.

Compact design suits any workspace.

Model	Capacity	Readability (d)	Platform	Cal. weight, class	Item N°
MB23	110g	10mg/0.1%	Ø 90mm	50g, F2	80252470
Accessories					Item N°
Temperature Calibration Kit					11113857
Aluminium Sample pans, 50 per pack					30585411
Glass fibre discs, 200 per pack					80850087
Sample Cage					80252477
Reusable sample pans, 3 per pack, 14mm					80252479
Reusable sample pans, 3 per pack, 7mm					80252478
Anti theft device					80850043
Interface Kit, RS232-USB					30304101
Pan Holder					80252476
In use display cover MB2x					80252475



IN USE DISPLAY COVER, MB2X
80252475



REUSABLE SAMPLE PANS, 3 PER PACK,
7MM 80252478



ALUMINIUM SAMPLE PANS, 50 PER PACK
30585411



ANTI THEFT DEVICE
80850043

CENT-O-GRAM™311-00 DIAL-O-GRAM™310-00

High precision and remarkable value

Model	Capacity	Readability (d)	Platform	Item N°
311-00	311g	0.01g	Ø 89mm	80000010
310-00	310g	0.01g	Ø 89mm	80000009

Metal base and beam, stainless steel pan.

Self-aligning beam design.

Vernier dial convenience on Dial-o-Gram (model 310-00).



TRIPLE BEAM PRO™

The Triple Beam balance that offers even more

Model	Capacity	Readability (d)	Platform	Item N°
TP2611	2610g	0.1g	147mm	80251370

Easy grip carrying handle.

Included weight set with integrated storage in the balance.



TRIPLE BEAM JUNIOR

OHAUS Quality at an Affordable Price

Model	Capacity	Readability (d)	Platform	Item N°
TJ2611	2610g*	0.1g	Ø 150mm	80252049
TJ611	610g	0.1g	Ø 150mm	80252052

* with included 3-piece mass set

Notched and tiered beams for easy reading.

Security Features (lockable connections).

Zero adjust compensator ensures correct zero.



TRIPLE BEAM 700

Rugged enough to deliver accurate results year after year

Model	Capacity	Readability (d)	Platform	Item N°
710-00	610g*	0.1g	Ø 152mm	80000011
750-50	610g*	0.1g	Ø 152mm	80000012
760-00	610g*	0.1g	Ø 152mm	80000013

*2610g capacity with optional 80780108 weight set

Fixed or removable pan (710-00) to fit any application.

The outstanding quality of the beam allows for smooth positioning of the poise, resulting in superior measurement.

Easy to read deep notched and tiered beams, counterbalancing knob for quick zeroing, self-aligning beam design.



HARVARD JUNIOR

Traditional style two-pan design at a great price

Model	Capacity	Readability (d)	Platform	Item N°
HJ2001	2000g	0.5g	Ø 150mm	80252050



Easy grip carrying handle.

Lock to protect the balance during transport or storage (can be stacked).

Included 8-piece weight set and bowl that fits over the flat platform.

HARVARD TRIP

Two pan balance designed for comparative weighing

Model	Capacity	Readability (d)	Platform	Item N°
1450-SD	2000g*	0.1g	Ø 152mm	80000003
1550-SD	2000g*	0.1g	Ø 152mm	80000004
1560-SD	2000g*	0.1g	Ø 152mm	80000005

*2000g capacity with optional Weight Set, 1kg-1g (80850115)



The built-in sliding masses make weighing very simple and quick. 1560-SD with tare range of 225g.

Magnetic damping minimizes oscillation and helps speed up weighing.

A counterbalancing knob provides quick zeroing of the balance while floating agate bearings helps ensure accurate results.

Accessories for Mechanical Scales & Balances

Accessories	Cent-O-Gram™ 311-00	Triple Beam Pro™	Triple Beam Junior	Triple Beam 700	Harvard Junior	Harvard Trip	Item N°
3 pieces counter weight set increases capacity to 2610g (2×1kg and 1×500g)		•	•	•			80780108
Weight Set, 1kg-1g						•	80850115



3 PIECES COUNTER WEIGHT SET INCREASES CAPACITY TO 2610G 80780108



Industrial Weighing

INDUSTRY SCALES SELECTOR GUIDE

Industry Scales – applications & features	Shipping Scales				Food Compact Scales					Compact Scales					Bench scales & indicators				
	Courier™ 1000	Courier™ 3000	Courier™ 5000	Courier™ 7000	Valor™ 1000	Valor™ 2000	Valor™ 3000	Valor™ 4000	Valor™ 7000	Ranger™ 3000 Count	Ranger™ 3000	Ranger™ 4000 Count	Ranger™ 4000	Ranger™ 7000	D2000	D3000	D5000 VF	D6000	D7000
															T24PE	i-DT33	TDxxXW /TDxxP	i-DT61	T72XW
Max Resolution	2000	2000	3000	7500	7500	7500	40000	7500	30000	30000	30000	30000	30000	350000	20000	30000	75000	75000	50000
Parts counting																			
Check Weighing	•	•	•	•		•*		•	•	•	•	•	•	•	•	•	•	•	•
Percentage Weighing							•	•	•		•		•	•			•	•	•
Totalling			•	•				•	•	•	•	•	•	•	•	•			•
Dynamic weighing	•	•	•	•					•		•		•	•			•	•	•
Weighing below									•	•	•	•	•	•			•	•	
Auto Tare														•			•	•	•
Numeric Keyboard										•		•		•			•	•*	•
Alphanumeric keyboard														•			•	•*	•
Touchless sensor								•	•									•*	
LCD Display	•													•					
Backlit LCD Display		•	•	•	•		•		•	•	•	•				•	•	•*	•
LED display						•		•					•		•			•*	
Battery Operation	•	•	•	•	•		•									•*		•*	
Rechargeable battery					•	•		•	•	•	•	•	•	•	•	•*	•	•*	•
RS232 interface included				•	•*				•	•	•	•	•	•	•	•	•	•*	•
USB			•	•					•	•	•	•	•	•		•	•	•*	•
Ethernet				•					•	•	•	•	•	•		•	•	•	•
2nd RS interface				•					•	•	•	•	•	•			•	•*	•
Time / Date														•			•	•	•
GMP Data Output														•			•	•	•
IP 65 / 68 Protection						•	•*	•								•*	•*	•	•
Alibi Memory														•			•	•*	•
EC Type Approval				•*	•*			•*	•*	•*	•*	•*	•*	•*		•*	•*	•*	•*
Bluetooth / Wi-Fi				•													•	•*	
Page No.	89	88	87	86	84	83	82	81	80	78	77	76	75	74	70	68	66	64	63

• standard; •* on specific models; •**Approvable by Notified Body; • Optional 1 - application depends on selected software
To follow regulations, some applications may not be available on EC Type approved models.

WHAT IS IN A MODEL NUMBER?

Defender™



i-D61XWE150K1X7 = Defender 6000 Bench Scale with i-DT61XWE indicator, 150kg advanced stainless steel, extra-large size base, stainless steel middle column					
i-	D	–	6	1	X
Category	Family	Type	Series	Indicator	Coating
i = industry	D = Defender	blank = bench scale T = indicator F = platform scales FP = pallet scales	2 = 2000 3 = 3000 5 = 5000 6 = 6000	1 = first generation 2 = second generation 3 = third generation 4 = fourth generation 5 = fifth generation	P = plastic X = stainless steel
W	E	150	K1		
Water-proof	Display	Capacity (kg)	Platform model		
W = at least IP65	E = LED display	6 / 15 / 30 / 60 / 150 / 300 / 600	B1 = Basic 1st (painted) C1 = Clean 1st (stainless steel) R = standard painted steel W = standard stainless steel K1 = Keenness 1st (advanced stainless steel)		
–	–	X	7		
Platform type	Weighing range	Platform size	Column height:		
Q = square T = rectangle	blank = single range D = dual range	S = Small R = Regular L = Large X = eXtra Large V = Very Large	1 = CS short 2 = CS middle 3 = CS tall 5 = compact 6 = stainless steel short 7 = stainless steel middle 8 = stainless steel tall		

DF 5000 SERIES Stainless Steel Floor Scales

Prime German-Quality Floor Scales Fulfill Even the Most Demanding Industrial Applications

Application

Weighing, Parts Counting, Percent Weighing, Checkweighing, Dynamic Weighing (Display Hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

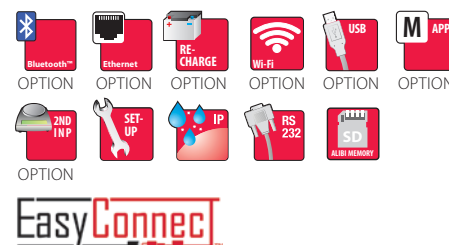
Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

Stainless steel indicator, bead-blasted stainless steel platform, IP67 stainless steel junction box with top access, IP68 OIML R60 electro-polished stainless steel load cells, available pit frames mounting

Design Features

Structural channel bracing and pendulum design feet with removable rubber cap, 150% overload protection. Checkweighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim display, auto-off, auto tare.



OHAUS Defender 5000 series Floor Scale is equipped with a new TD52XW series indicator with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Four IP68 electro-polished stainless steel load cells that are laser-weld, hermetically-sealed and OIML-certified are standard on all models.

Combination floor-pit mount design provides versatility for portable or stationary placement, above or below ground installation.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform (mm)	Item N°
DF52XW300G1S-EU		300kg	50g		800×800×90	30525406
DF52XW600G1S-EU		600kg	100g		800×800×90	30525407
DF52XW300G1R-EU		300kg	50g		1000×1000×90	30525408
DF52XW600G1R-EU		600kg	100g		1000×1000×90	30525409
DF52XW1500G1R-EU		1500kg	200g		1000×1000×90	30525410
DF52XW600G1LX-EU		600kg	100g		1500×1250×90	30525411
DF52XW1500G1LX-EU		1500kg	200g		1500×1250×90	30525412
DF52XW3000G1LX-EU		3000kg	500g		1500×1250×90	30525413
DF52XW600G1X-EU		600kg	100g		1500×1500×90	30525414
DF52XW1500G1X-EU		1500kg	200g		1500×1500×90	30525415
DF52XW3000G1X-EU		3000kg	500g		1500×1500×90	30525416
DF52XW300G1S-M	•	300kg		100g	800×800×90	30525438
DF52XW600G1S-M	•	600kg		200g	800×800×90	30525439
DF52XW300G1R-M	•	300kg		100g	1000×1000×90	30525440
DF52XW600G1R-M	•	600kg		200g	1000×1000×90	30525441
DF52XW1500G1R-M	•	1500kg		500g	1000×1000×90	30525442
DF52XW600G1LX-M	•	600kg		200g	1500×1250×90	30525443
DF52XW1500G1LX-M	•	1500kg		500g	1500×1250×90	30525444
DF52XW3000G1LX-M	•	3000kg		1000g	1500×1250×90	30525445
DF52XW600G1X-M	•	600kg		200g	1500×1500×90	30525446
DF52XW1500G1X-M	•	1500kg		500g	1500×1500×90	30525447
DF52XW3000G1X-M	•	3000kg		1000g	1500×1500×90	30525448

DF 5000 SERIES Floor Scales

Prime German-Quality Floor Scales Fulfill Even the Most Demanding Industrial Applications

Application

Weighing, Parts Counting, Percent Weighing, Checkweighing, Dynamic Weighing (Display Hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

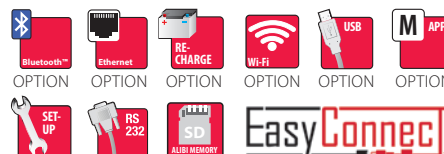
Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

ABS plastic indicator, black painted steel platform, IP67 stainless steel junction box with top access, IP68 OIML R60 electro-polished stainless steel load cells, available pit frames mounting

Design Features

Structural channel bracing and pendulum design feet with removable rubber cap, 150% overload protection. Checkweighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim display, auto-off, auto tare.



OHAUS Defender 5000 series Floor Scale is equipped with a new TD52P series indicator with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Four IP68 electro-polished stainless steel load cells that are laser-weld, hermetically-sealed and OIML-certified are standard on all models.

Combination floor-pit mount design provides versatility for portable or stationary placement, above or below ground installation.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform (mm)	Item N°
DF52P300F1S		300kg	50g		800×800×90	30525380
DF52P600F1S		600kg	100g		800×800×90	30525381
DF52P300F1R		300kg	50g		1000×1000×90	30525382
DF52P600F1R		600kg	100g		1000×1000×90	30525383
DF52P1500F1R		1500kg	200g		1000×1000×90	30525384
DF52P600F1LX		600kg	100g		1500×1250×90	30525385
DF52P1500F1LX		1500kg	200g		1500×1250×90	30525386
DF52P3000F1LX		3000kg	500g		1500×1250×90	30525387
DF52P600F1X		600kg	100g		1500×1500×90	30525388
DF52P1500F1X		1500kg	200g		1500×1500×90	30525389
DF52P3000F1X		3000kg	500g		1500×1500×90	30525390
DF52P1500F1XV		1500kg	200g		2000×1500×90	30525391
DF52P3000F1XV		3000kg	500g		2000×1500×90	30525392
DF52P300F1S-M	•	300kg		100g	800×800×90	30525425
DF52P600F1S-M	•	600kg		200g	800×800×90	30525426
DF52P300F1R-M	•	300kg		100g	1000×1000×90	30525427
DF52P600F1R-M	•	600kg		200g	1000×1000×90	30525428
DF52P1500F1R-M	•	1500kg		500g	1000×1000×90	30525429
DF52P600F1LX-M	•	600kg		200g	1500×1250×90	30525430
DF52P1500F1LX-M	•	1500kg		500g	1500×1250×90	30525431
DF52P3000F1LX-M	•	3000kg		1000g	1500×1250×90	30525432
DF52P600F1X-M	•	600kg		200g	1500×1500×90	30525433
DF52P1500F1X-M	•	1500kg		500g	1500×1500×90	30525434
DF52P3000F1X-M	•	3000kg		1000g	1500×1500×90	30525435
DF52P1500F1XV-M	•	1500kg		500g	2000×1500×90	30525436
DF52P3000F1XV-M	•	3000kg		1000g	2000×1500×90	30525437

DF 3000 SERIES Stainless Steel Floor Scales (i-DF33)

Floor Scales for Basic Industrial Applications

Application

Weighing, Checkweighing, Counting, Totalization

Display

7 Segment LCD with multicolor backlight

Operation

Internal power supply with power cord (included) or Rechargeable Battery (included)

Communication

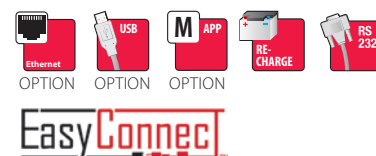
Standard RS232 and optional USB Device or Ethernet

Construction

304-grade stainless steel IP66 indicator, 5mm fixed top plate, stainless steel platform, IP65 stainless steel junction box with side access, 4 x IP67 OIML R60 stainless steel load cells, available stainless steel ramp

Design Features

125% overload protection, four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories)



304 stainless steel, sand-blasted flat surface with four IP67 stainless steel load cells, fixed top plate (5mm thick) with structural bracing that ensures a stiff & solid construction.

Defender 3000 come in six models ranging from platform sizes of 1 x 1 m, 1.25 x 1.25 m and 1.5 x 1.5 m, and capacities from 600 kg to 3000 kg, allowing greater flexibility for your weighing needs.

Results are clearly shown on the large, bright backlit LCD display. In Checkweighing mode, display changes color (yellow/green/red) to alert users when within the target weight range.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform (mm)	Item N°
i-DF33XW600C1R-EU		600kg	200g		1000 x 1000	30700625
i-DF33XW1500C1R-EU		1500kg	500g		1000 x 1000	30700626
i-DF33XW1500C1L-EU		1500kg	500g		1250 x 1250	30700629
i-DF33XW3000C1L-EU		3000kg	1000g		1250 x 1250	30700630
i-DF33XW1500C1X-EU		1500kg	500g		1500 x 1500	30700633
i-DF33XW3000C1X-EU		3000kg	1000g		1500 x 1500	30700634
i-DF33XW600C1R-EU-M	•	600kg		200g	1000 x 1000	30764203
i-DF33XW1500C1R-EU-M	•	1500kg		500g	1000 x 1000	30764204
i-DF33XW1500C1L-EU-M	•	1500kg		500g	1250 x 1250	30764259
i-DF33XW3000C1L-EU-M	•	3000kg		1000g	1250 x 1250	30764260
i-DF33XW1500C1X-EU-M	•	1500kg		500g	1500 x 1500	30764265
i-DF33XW3000C1X-EU-M	•	3000kg		1000g	1500 x 1500	30764266

DF 3000 SERIES Floor Scales (i-DF33)

Floor Scales for Basic Industrial Applications



EasyConnect

Application

Weighing, Checkweighing, Counting, Totalization

Display

7 Segment LCD with multicolor backlight

Operation

Internal power supply with power cord (included), 6C (LR14) Batteries (not included) or Rechargeable Battery (not included)

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

ABS plastic indicator, 5mm fixed top plate, black treaded painted steel platform, IP65 stainless steel junction box with side access, 4 x IP67 OIML R60 alloy steel load cells, two carbon steel eye bolts, available painted steel ramp

Design Features

125% overload protection, four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories)



Painted carbon steel, raised treaded surface with four IP67 alloy steel load cells, fixed top plate (5mm thick) with structural bracing that ensures a stiff and solid construction.

Defender 3000 comes in six models ranging from platform sizes of 1 x 1 m, 1.25 x 1.25 m and 1.5 x 1.5 m, and capacities from 600 kg to 3000 kg, allowing greater flexibility for your weighing needs.

Results are clearly shown on the large, bright backlit LCD display. In Checkweighing mode, display changes color (yellow/green/red) to alert users when within the target weight range.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform (mm)	Item N°
i-DF33P600B1R		600kg	200g		1000 x 1000	30700623
i-DF33P1500B1R		1500kg	500g		1000 x 1000	30700624
i-DF33P1500B1L		1500kg	500g		1250 x 1250	30700627
i-DF33P3000B1L		3000kg	1000g		1250 x 1250	30700628
i-DF33P1500B1X		1500kg	500g		1500 x 1500	30700631
i-DF33P3000B1X		3000kg	1000g		1500 x 1500	30700632
i-DF33P600B1R-M	•	600kg		200g	1000 x 1000	30764201
i-DF33P1500B1R-M	•	1500kg		500g	1000 x 1000	30764202
i-DF33P1500B1L-M	•	1500kg		500g	1250 x 1250	30764207
i-DF33P3000B1L-M	•	3000kg		1000g	1250 x 1250	30764258
i-DF33P1500B1X-M	•	1500kg		500g	1500 x 1500	30764263
i-DF33P3000B1X-M	•	3000kg		1000g	1500 x 1500	30764264

DF 2500 SERIES Floor Scales

Economical Floor Scale for Basic Industrial Applications



AVAILABLE IN Q1 2025

Application

Weighing, Counting, Dynamic Weighing / Display Hold, Totalization, Peak Hold

Display

6-digit, 7-segment LCD display with white backlight, 28 mm high digits

Operation

Standard AC adapter with detachable USB type C cable (included) or 4 AA batteries (not included)

Communication

Easy access communication ports including standard RS232 and USB type C

Construction

ABS housing indicator and powder-coated steel mounting bracket, black powder coated steel treaded platform, IP65 aluminum junction box, 4 LBZ4 IP67 OIML R60 alloy steel load cells with top height adjustment, front and back access ramps

Design Features

Selectable environmental and auto-print settings, stability indicator, overload/underload indicators, auto-off, auto tare. Painted and stainless steel floor stands (available as accessories)



Direct access from the top to the load cells and the junction box, makes adjustments easy when the scale is mounted in its available pit frame.

Square and rectangular platforms are available in five sizes from 0.8×0.8m to 1.5×1.5m and also come with maximum capacities of 1500kg or 3000kg.

4 OIML approved IP67 alloy steel load cell and IP65 stainless steel junction box is protected from dust and water.

Model	Capacity	Readability (d)	Platform (mm)	Item N°
i-DF25P1500F1S EU	1500kg	0.5kg	800×800	30936610
i-DF25P1500F1R EU	1500kg	0.5kg	1000×1000	30936611
i-DF25P1500F1L EU	1500kg	0.5kg	1200×1200	30936612
i-DF25P3000F1L EU	3000kg	1kg	1200×1200	30936613
i-DF25P1500F1LX EU	1500kg	0.5kg	1200×1500	30936614
i-DF25P3000F1LX EU	3000kg	1kg	1200×1500	30936615
i-DF25P1500F1X EU	1500kg	0.5kg	1500×1500	30936616
i-DF25P3000F1X EU	3000kg	1kg	1500×1500	30936617

Accessories for Floor Scales

Accessories	DF 5000 Series Stainless Steel Floor Scales	DF 5000 Series Floor Scales	DF 3000 Series Floor Scales (i-DF33)	DF 2500 Series Floor Scales	Item N°
Ramp DF Stainless Steel G1 800mm	•				22015473
Ramp DF Stainless Steel G1 1000mm	•				22015474
Ramp DF Stainless Steel G1 1250mm	•				22015475
Ramp DF Stainless Steel G1 1500mm	•				22015476
Pit Frame DF Stainless Steel G1S	•				22015493
Pit Frame DF Stainless Steel G1R	•				22015494
Pit Frame DF Stainless Steel G1LX	•				22015495
Pit Frame DF Stainless Steel G1X	•				22015496
Footplates DF Stainless Steel G1 Set (2)	•				22015581
Pit Frame DF Painted F1S		•			22015392
Pit Frame DF Painted F1R		•			22015393
Pit Frame DF Painted F1LX		•			22015394
Pit Frame DF Painted F1X		•			22015396
Pit Frame DF Painted F1XV		•			22015397
Ramp DF Painted F1 800mm		•			22015464
Ramp DF Painted F1 1000mm		•			22015465
Ramp DF Painted F1 1250mm		•			22015466
Ramp DF Painted F1 1500mm		•			22015467
Footplates DF Painted F1 Set (2)		•			22015499
Floor scale Column Kit Painted 980mm		•	•	•	30531244
Floor scale Column Kit SST 980mm	•		•	•	30539553
Ramp 800mm DF					80252722
Ramp 1000mm DF					80252723
Ramp 1200mm DF					80252724
Ramp 1500mm DF					80252725
Pit frame, 800mm for DF				•	83033708
Pit frame, 1000mm for DF				•	83033709
Pit frame, 1200mm for DF				•	83033710
Pit frame, 1200mm×1500mm for DF				•	83033714
Pit frame, 1500mm for DF				•	83033711
Ramp, 1000mm, Painted, DF-B1			•		72198338
Ramp, 1250mm, Painted, DF-B1			•		72198339
Ramp, 1500mm, Painted, DF-B1			•		72198340
Ramp, 1000mm, SST, DF-C1			•		72198341
Ramp, 1250mm, SST, DF-C1			•		72198342
Ramp, 1500mm, SST, DF-C1			•		72198343
Foot plate kit, Painted, DF-B1			•		72198344
Foot plate kit, SST, DF-C1			•		72198345
Ethernet Kit i-DT33			•		30429666
USB Device Kit i-DT33			•		30699120
Dust Cover (5) i-DT33			•		30699121
Rechargeable Battery Kit i-DT33P			•		30699122
SF40A Printer	•	•	•		30064202
Cable RS232 i-DT33P			•		80500525
Cable RS232 i-DT33XW			•		80500552
LC Extension Cable, 3.5 m *1	•	•	•		30803566
Printer, Impact, SF-110B				•	30708371
Ramp, 800mm, Painted, DF-D1				•	30944102
Ramp, 1000mm, Painted, DF-D1				•	30944103
Ramp, 1200mm, Painted, DF-D1				•	30944104
Ramp, 1500mm, Painted, DF-D1				•	30944105
Foot Plate, Set(2), Painted, DF-D1				•	72225239

1 Cannot be used for legal-for-trade applications



RRAMP DF STAINLESS STEEL G1 800MM
800MM 22015473



FOOTPLATES DF PAINTED F1 SET (2)
22015499



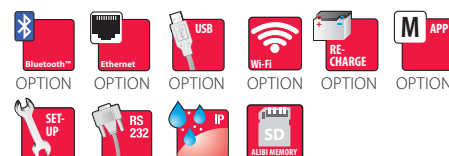
FLOOR SCALE COLUMN KIT PAINTED
980MM 30531244



FLOOR SCALE COLUMN KIT SST 980MM
30539553

DFP 5000 SERIES Pallet Scales

Prime German-Quality Pallet Scales Fulfill Even the Most Demanding Industry Applications



EasyConnect



Application

Weighing, Parts Counting, Percent Weighing, Checkweighing, Dynamic Weighing (Display Hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

DFP52XW

Stainless steel indicator IP68, bead-blasted stainless steel U-frame, IP67 stainless steel junction box, IP68 OIML R60 electro-polished stainless steel load cells

DFP52P

ABS plastic indicator, black painted steel U-frame, IP67 stainless steel junction box, IP68 OIML R60 electro-polished stainless steel load cells

Design Features

Structural channel bracing and pendulum design feet with removable rubber cap, 150% overload protection. Checkweighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim display, auto-off, auto tare.

OHAUS Defender 5000 series Pallet Scale is equipped with new TD52 series indicator with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

The U-frame provides easy on-and-off loading of open-bottom pallets and containers, reducing risk of injury and over-exertion.

Four IP68 electro-polished stainless steel load cells that are laser-weld hermetically-sealed and OIML-certified are standard on all models.

Stainless Steel Pallet Scale with TD52XW Stainless Steel Indicator

Model	EC Type Approved	IP Dust and Water Protected	Capacity	Readability (d)	Readability (e)	Platform	Item N°
DFP52XW600K1-EU		•	600kg	100g		1256mm×840mm	30525423
DFP52XW1500K1-EU		•	1500kg	200g		1256mm×840mm	30525424
DFP52XW600K1-M	•	•	600kg		200g	1256mm×840mm	30525453
DFP52XW1500K1-M	•	•	1500kg		500g	1256mm×840mm	30525454

Painted Steel Pallet Scale with TD52P ABS Indicator

Model	EC Type Approved	IP Dust and Water Protected	Capacity	Readability (d)	Readability (e)	Platform	Item N°
DFP52P600J1			600kg	100g		1256mm×840mm	30525419
DFP52P1500J1			1500kg	200g		1256mm×840mm	30525420
DFP52P600J1-M	•		600kg		200g	1256mm×840mm	30525451
DFP52P1500J1-M	•		1500kg		500g	1256mm×840mm	30525452

Accessories

LC Extension Cable, 3.5 m *

Item N° 30803566

* Cannot be used for legal-for-trade applications



LC EXTENSION CABLE
30803566

DFP 3000 SERIES Pallet Scales

Pallet Scales for Basic Industrial Applications



EasyConnect

Application

Weighing, Checkweighing, Counting, Totalization

Display

7 Segment LCD with multicolor backlight

Operation

Internal power supply with power cord (included) or Rechargeable Battery (as standard with XW model, available as accessory for P model)

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

DFP33XW

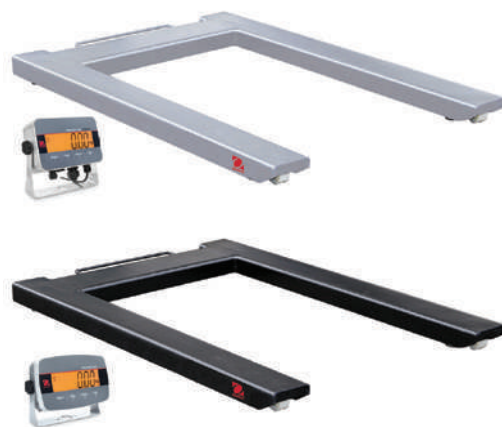
304-grade stainless steel IP66 indicator, stainless steel U-frame, IP65 stainless steel junction box, 4 IP67 OIML R60 stainless steel load cells, handle and front wheels, foot plate kit (accessories sold separately)

DFP33P

ABS plastic indicator, painted carbon steel U-frame, IP65 stainless steel junction box, 4 H8C IP67 OIML R60 alloy steel load cells, handle and front wheels, foot plate kit (accessories sold separately)

Design Features

Four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories).



Available in popular 1 500 kg capacity, painted carbon steel or 304 stainless steel models with handle and rollers for convenient lifting and relocation.

Four OIML R60 approved IP67 alloy steel or stainless steel load cells with self-swiveling ball-in-cup design feet to best suit your weighing needs.

Results are clearly shown on the large, bright backlit LCD display of the i-DT33 indicator. In Checkweighing mode, the display changes color (yellow/green/red) to alert users when within the target weight range.

Stainless Steel Pallet Scale with i-DT33XW Stainless Steel Indicator

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform (mm)	Item N°
i-DFP33XW1500C1-EU		1500kg	500g		1260 × 840 × 90	30712896
i-DFP33XW1500C1-EU-M	•	1500kg		500g	1260 × 840 × 90	30764271

Painted Steel Pallet Scale with i-DT33P ABS Indicator

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform (mm)	Item N°
i-DFP33P1500B1		1500kg	500g		1260 × 840 × 90	30712894
i-DFP33P1500B1-M	•	1500kg		500g	1260 × 840 × 90	30764269

Accessories

	Item N°
Ethernet Kit i-DT33	30429666
USB Device Kit i-DT33	30699120
Dust Cover (5) i-DT33	30699121
Rechargeable Battery Kit i-DT33P	30699122
SF40A Printer	30064202
Cable RS232 i-DT33P	80500525
Cable RS232 i-DT33XW	80500552
Floor Scale Column Kit Painted	30531244
Floor Scale Column Kit SST	30539553
LC Extension Cable, 3.5 m *	30803566

* Cannot be used for legal-for-trade applications



ETHERNET KIT I-DT61XW
30429666



RECHARGEABLE BATTERY KITS
30699122



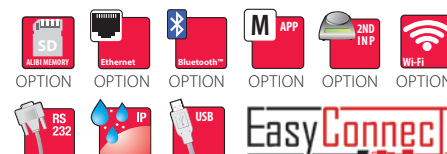
SF40A IMPACT PRINTER
30064202



FLOOR SCALE COLUMN KIT SST 980MM
30539553

DEFENDER™ 6000 Stainless Steel

Advanced IP68/IP69K Washdown Bench Scale



Application

Weighing, Counting with APW optimization, Percent Weighing, Checkweighing, Checkcounting, Filling, Dynamic Weighing/Display Hold

Display

6-digit, 7-segment white LED, 20 mm high digits

Operation

100-240 VAC / 50/60 Hz universal power supply, hardwired

Communication

Easy access communication ports including RS232 and USB host (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

316 stainless steel platform and frame, hermetically-sealed, stainless steel load cell, IP68/IP69K 316 stainless steel housing indicator and mounting bracket, knife-resistant front panel

Design Features

150% overload capacity protection, bar matrix check light, customizable print templates, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, auto shut-off, auto tare, adjustable non-slip rubber feet



Defender 6000 stands up to harsh cleaning in processing and packaging environments with IP68 immersion/ IP69K washdown protection, 316 stainless steel construction and hermetically-sealed load cell.

Durable Defender 6000 is NSF certified, supporting HACCP systems with a 316 stainless steel base and sturdy indicator providing corrosion protection in food, chemical processing, and packaging.

Versatile scales include fast weight display and multiple software modes to meet food, chemical processing, and packaging needs.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
i-D61XWE6K1S6-EU		3/6 kg	0.2/0.5 g		250mm×250mm	260mm	30575557
i-D61XWE15K1R6-EU		6/15 kg	0.5/1 g		300mm×300mm	260mm	30575558
i-D61XWE30K1R6-EU		15/30 kg	1/2 g		300mm×300mm	260mm	30575559
i-D61XWE60K1L7-EU		30/60 kg	2/5 g		500mm×400mm	670mm	30575560
i-D61XWE150K1L7-EU		150 kg	10 g		500mm×400mm	670mm	30575561
i-D61XWE6K1S6-M	•	3/6 kg		1/2 g	250mm×250mm	260mm	30612500
i-D61XWE15K1R6-M	•	6/15 kg		2/5 g	300mm×300mm	260mm	30612501
i-D61XWE30K1R6-M	•	15/30 kg		5/10 g	300mm×300mm	260mm	30612502
i-D61XWE60K1L7-M	•	30/60 kg		10/20 g	500mm×400mm	670mm	30612503
i-D61XWE150K1L7-M	•	150 kg		50 g	500mm×400mm	670mm	30612504

DEFENDER™ 6000 Hybrid

Advanced IP68/IP69K Washdown Bench Scale



Application

Weighing, Counting with APW optimization, Percent Weighing, Checkweighing, Checkcounting, Dynamic Weighing/Display Hold

Display

6-digit, 7-segment LCD display with white backlight, 45 mm high digits

Operation

6 D (LR20) Batteries (Included)

Communication

Easy access IR communication kit (available as an accessory); GLP/GMP data output with real-time clock

Construction

316 stainless steel platform and frame, hermetically-sealed stainless steel load cell, IP68/IP69K food grade polycarbonate housing indicator and 316 stainless steel mounting bracket

Design Features

150% overload capacity protection, 3-colour check light bar, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator, auto shut-off, auto tare, adjustable rubber feet



Defender 6000 stands up to harsh cleaning in processing and packaging environments with IP68 immersion/ IP69K washdown protection, 316 stainless steel construction and hermetically-sealed load cell.

Durable Defender 6000 is NSF certified, supporting HACCP systems with a 316 stainless steel base and sturdy indicator providing corrosion protection in food, chemical processing, and packaging.

Versatile scales include fast weight display and multiple software modes to meet food, chemical processing, and packaging needs.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
i-D61PW3K1S6		3kg	0,5g		250mm × 250mm	260mm	30575550
i-D61PW6K1S6		6kg	0,5g		250mm × 250mm	260mm	30575551
i-D61PW15K1R6		15kg	1g		300mm × 300mm	260mm	30575552
i-D61PW30K1R6		30kg	2g		300mm × 300mm	260mm	30575553
i-D61PW60K1L7		60kg	5g		500mm × 400mm	670mm	30575554
i-D61PW150K1L7		150kg	10g		500mm × 400mm	670mm	30575555
i-D61PW3K1S6-M	•	3kg		1g	250mm × 250mm	260mm	30612473
i-D61PW6K1S6-M	•	6kg		2g	250mm × 250mm	260mm	30612474
i-D61PW15K1R6-M	•	15kg		5g	300mm × 300mm	260mm	30612475
i-D61PW30K1R6-M	•	30kg		10g	300mm × 300mm	260mm	30612476
i-D61PW60K1L7-M	•	60kg		20g	500mm × 400mm	670mm	30612477
i-D61PW150K1L7-M	•	150kg		50g	500mm × 400mm	670mm	30612498

DEFENDER™ 6000 Front Mount

Advanced IP68/IP69K Washdown Bench Scale



OPTION

Application

Weighing, Counting with APW optimization, Percent Weighing, Checkweighing, Checkcounting, Dynamic Weighing/Display Hold

Display

6-digit, 7-segment LCD display with white backlight, 45 mm high digits

Operation

6 D (LR20) Batteries (Included)

Communication

Easy access IR communication kit (available as an accessory); GLP/GMP data output with real-time clock

Construction

316 stainless steel platform and frame, hermetically-sealed stainless steel load cell, IP68/IP69K food grade polycarbonate housing indicator and 316 stainless steel mounting bracket

Design Features

150% overload capacity protection, 3-colour check light bar, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator, auto shut-off, auto tare, adjustable rubber feet



Defender 6000 stands up to harsh cleaning in processing and packaging environments with IP68 immersion/ IP69K washdown protection, 316 stainless steel construction and hermetically-sealed load cell.

Durable Defender 6000 is NSF certified, supporting HACCP systems with a 316 stainless steel base and sturdy indicator providing corrosion protection in food, chemical processing, and packaging.

Versatile scales include fast weight display and multiple software modes to meet food, chemical processing, and packaging needs.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Item N°
i-D61PW3K1S5		3kg	0,5g		250mm × 250mm	30608667
i-D61PW6K1S5		6kg	0,5g		250mm × 250mm	30608728
i-D61PW15K1R5		15kg	1g		300mm × 300mm	30608729
i-D61PW30K1R5		30kg	2g		300mm × 300mm	30608730
i-D61PW60K1L5		60kg	5g		500mm × 400mm	30608731
i-D61PW150K1L5		150kg	10g		500mm × 400mm	30608732
i-D61PW3K1S5-M	•	3kg		1g	250mm × 250mm	30612505
i-D61PW6K1S5-M	•	6kg		2g	250mm × 250mm	30612506
i-D61PW15K1R5-M	•	15kg		5g	300mm × 300mm	30612507
i-D61PW30K1R5-M	•	30kg		10g	300mm × 300mm	30612508
i-D61PW60K1L5-M	•	60kg		20g	500mm × 400mm	30612509
i-D61PW150K1L5-M	•	150kg		50g	500mm × 400mm	30612510

DEFENDER™ 6000 Accessories

Accessories	Item N°
Wi-Fi/Bluetooth Dongle i-DT61XW	30412537
Analog Output kit i-DT61XW *1	30424403
2 nd RS232/RS485/USB Device kit i-DT61XW *1	30424404
LC Extension Cable, 9 meters *2	30424409
M16 Gland with Ferrite	30379716
Light Tower, 3 Colors, 243mm, IP65 (Requires 30097591)	30424021
Discrete I/O with Relay (2 In/4 Out) i-DT61XW *1	30097591
Ethernet kit i-DT61XW	30429666
External power bank holder i-DT61XW (Requires external USB power bank)	30572907
Cable RS232 i-DT61XW	80500552
Column Kit 260 mm 316 stainless steel	30572908
Column Kit 670 mm 316 stainless steel	30572909
Front Mounting kit 316 SS i-DT61PW	30626654
Pan 305 x 305 mm 304 stainless steel	30427798
Pan 254 x 254 mm 304 stainless steel	30427799
IR communication kit i-DT61PW	30572910
Wheel kit SS Defender Series	30616409
Alibi Memory i-DT61XW	80500503
LC Extension Cable, 3,5 m *2	30803566

1 Only one of them can be used at the same time

2 Cannot be used for legal-for-trade applications



WI-FI/BLUETOOTH DONGLE I-DT61XW
30412537



ANALOG OUTPUT KIT I-DT61XW
30424403



2 ND RS232/RS485/USB DEVICE KIT
I-DT61XW 30424404



LC EXTENSION CABLE, 9 METERS
30424409



M16 GLAND WITH FERRITE
30379716



LIGHT TOWER, 3 COLORS, 243MM, IP65
30424021



DISCRETE I/O WITH RELAY (2 IN/4 OUT)
I-DT61XW 30097591



ETHERNET KIT I-DT61XW
30429666



EXTERNAL POWER BANK HOLDER
I-DT61XW 30572907



CABLE RS232 I-DT61XW
80500552



COLUMN KIT STAINLESS STEEL
30572908 30572909



FRONT MOUNTING KIT 316 SS I-DT61PW
30626654



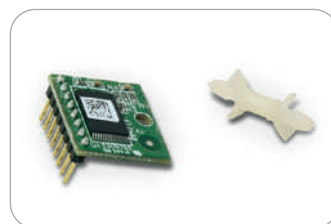
PAN STAINLESS STEEL
30427798 30427799



IR COMMUNICATION KIT I-DT61PW
30572910



WHEEL KIT SS DEFENDER SERIES
30616409



ALIBI MEMORY I-DT61XW
80500503

DEFENDER™ 5000 Stainless Steel (Single Range)

Multifunctional Stainless Steel Bench Scale for Standard Industrial Applications

Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

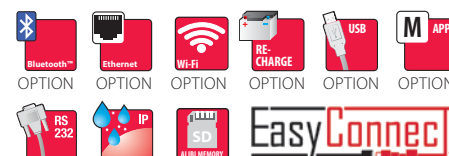
Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, discrete I/O and analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

304-grade stainless steel platform and frame, stainless steel IP68 indicator, IP67 stainless steel load cell, non-slip adjustable rubber feet

Design Features

Resolution up to dual range 15.000d/3000e, 150% overload capacity, checkweighing display and beep, menu lock switch, selectable display languages, selectable filter, stability indicator, overload/underload indicators, selectable display controls, auto print and tare



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durably constructed of a stainless steel platform, frame & IP68 indicator; IP67 stainless steel loadcell (OIML/EC Type single range).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
D52XW15WQR6-EU		15kg	1g		305mm×305mm	350mm	30471130
D52XW15WQL7-EU		15kg	1g		400mm×400mm	680mm	30471131
D52XW30WQL7-EU		30kg	2g		400mm×400mm	680mm	30471132
D52XW60WQL7-EU		60kg	5g		400mm×400mm	680mm	30471133
D52XW60WQX7-EU		60kg	5g		500mm×500mm	680mm	30471134
D52XW150WQX7-EU		150kg	10g		500mm×500mm	680mm	30471135
D52XW60WQV8-EU		60kg	5g		610mm×610mm	980mm	30471136
D52XW150WQV8-EU		150kg	10g		610mm×610mm	980mm	30471137
D52XW15WQR6-M	•	15kg		5g	305mm×305mm	350mm	30471158
D52XW15WQL7-M	•	15kg		5g	400mm×400mm	680mm	30471159
D52XW30WQL7-M	•	30kg		10g	400mm×400mm	680mm	30471160
D52XW60WQL7-M	•	60kg		20g	400mm×400mm	680mm	30471161
D52XW60WQX7-M	•	60kg		20g	500mm×500mm	680mm	30471162
D52XW150WQX7-M	•	150kg		50g	500mm×500mm	680mm	30471163
D52XW60WQV8-M	•	60kg		20g	610mm×610mm	980mm	30471164
D52XW150WQV8-M	•	150kg		50g	610mm×610mm	980mm	30471165

DEFENDER™5000 Stainless Steel (Dual Range)

Multifunctional Stainless Steel Bench Scale for Standard Industrial Applications

Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

304-grade stainless steel platform and frame, stainless steel IP68 indicator, IP67 aluminium load cell, non-slip adjustable rubber feet

Design Features

Resolution up to dual range 15.000d/3000e, 150% overload capacity, check weighing display and beep, menu lock switch, selectable display languages, selectable filter, stability indicator, overload/underload indicators, selectable display controls, auto print and tare



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durably constructed of a stainless steel platform, frame & IP 68 indicator; IP 67 aluminum load cell (OIML/EC Type dual range).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
D52XW6WQDR6-EU		3kg / 6kg	0.2g / 0.5g		305mm×305mm	350mm	30444791
D52XW15WQDR6-EU		6kg / 15kg	0.5g / 1g		305mm×305mm	350mm	30444792
D52XW15WQDL7-EU		6kg / 15kg	0.5g / 1g		400mm×400mm	680mm	30444793
D52XW30WQDL7-EU		15kg / 30kg	1g / 2g		400mm×400mm	680mm	30444794
D52XW60WQDL7-EU		30kg / 60kg	2g / 5g		400mm×400mm	680mm	30444795
D52XW60WQDX7-EU		30kg / 60kg	2g / 5g		500mm×500mm	680mm	30444796
D52XW150WQDX7-EU		60kg / 150kg	5g / 10g		500mm×500mm	680mm	30444797
D52XW60WQDV8-EU		30kg / 60kg	2g / 5g		610mm×610mm	980mm	30444798
D52XW150WQDV8-EU		60kg / 150kg	5g / 10g		610mm×610mm	980mm	30444799
D52XW300WQDV8-EU		150kg / 300kg	10g / 20g		610mm×610mm	980mm	30444800
D52XW150WTDV8-EU		60kg / 150kg	5g / 10g		800mm×600mm	980mm	30444801
D52XW300WTDV8-EU		150kg / 300kg	10g / 20g		800mm×600mm	980mm	30444802
D52XW600WTDV8-EU		300kg / 600kg	20g / 50g		800mm×600mm	980mm	30444803
D52XW6WQDR6-M	•	3kg / 6kg		1g / 2g	305mm×305mm	350mm	30461436
D52XW15WQDR6-M	•	6kg / 15kg		2g / 5g	305mm×305mm	350mm	30461437
D52XW15WQDL7-M	•	6kg / 15kg		2g / 5g	400mm×400mm	680mm	30461568
D52XW30WQDL7-M	•	15kg / 30kg		5g / 10g	400mm×400mm	680mm	30461569
D52XW60WQDL7-M	•	30kg / 60kg		10g / 20g	400mm×400mm	680mm	30461570
D52XW60WQDX7-M	•	30kg / 60kg		10g / 20g	500mm×500mm	680mm	30461571
D52XW150WQDX7-M	•	60kg / 150kg		20g / 50g	500mm×500mm	680mm	30461572
D52XW60WQDV8-M	•	30kg / 60kg		10g / 20g	610mm×610mm	980mm	30461573
D52XW150WQDV8-M	•	60kg / 150kg		20g / 50g	610mm×610mm	980mm	30461574
D52XW300WQDV8-M	•	150kg / 300kg		50g / 100g	610mm×610mm	980mm	30461575
D52XW150WTDV8-M	•	60kg / 150kg		20g / 50g	800mm×600mm	980mm	30461576
D52XW300WTDV8-M	•	150kg / 300kg		50g / 100g	800mm×600mm	980mm	30461577
D52XW600WTDV8-M	•	300kg / 600kg		100g / 200g	800mm×600mm	980mm	30461578

DEFENDER™ 5000 Hybrid

Multifunctional Bench Scale for Standard Industrial Applications



Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog Output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

IP68 stainless steel indicator, 304-grade stainless steel platform with sand gray powder-coated steel frame, IP67 aluminium load cell, non-slip adjustable rubber feet

Design Features

User-configurable resolution up to dual range 15,000d/3,000e, 150% overload capacity protection, check weighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, auto tare



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame & aluminum load cell. Defender meets OIML/EC type approvals.

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
D52XW6RQDR1-EU		3kg / 6kg	0.2g / 0.5g		305mm×305mm	350mm	30444804
D52XW15RQDR1-EU		6kg / 15kg	0.5g / 1g		305mm×305mm	350mm	30444805
D52XW15RQDL2-EU		6kg / 15kg	0.5g / 1g		400mm×400mm	680mm	30444806
D52XW30RQDL2-EU		15kg / 30kg	1g / 2g		400mm×400mm	680mm	30444807
D52XW60RQDL2-EU		30kg / 60kg	2g / 5g		400mm×400mm	680mm	30444808
D52XW60RQDX2-EU		30kg / 60kg	2g / 5g		500mm×500mm	680mm	30444809
D52XW150RQDX2-EU		60kg / 150kg	5g / 10g		500mm×500mm	680mm	30444810
D52XW60RQDV3-EU		30kg / 60kg	2g / 5g		610mm×610mm	980mm	30444811
D52XW150RQDV3-EU		60kg / 150kg	5g / 10g		610mm×610mm	980mm	30444812
D52XW300RQDV3-EU		150kg / 300kg	10g / 20g		610mm×610mm	980mm	30444813
D52XW150RTDV3-EU		60kg / 150kg	5g / 10g		800mm×600mm	980mm	30444814
D52XW300RTDV3-EU		150kg / 300kg	10g / 20g		800mm×600mm	980mm	30444815
D52XW600RTDV3-EU		300kg / 600kg	20g / 50g		800mm×600mm	980mm	30444816
D52XW6RQDR1-M	•	3kg / 6kg		1g / 2g	305mm×305mm	350mm	30461579
D52XW15RQDR1-M	•	6kg / 15kg		2g / 5g	305mm×305mm	350mm	30461580
D52XW15RQDL2-M	•	6kg / 15kg		2g / 5g	400mm×400mm	680mm	30461581
D52XW30RQDL2-M	•	15kg / 30kg		5g / 10g	400mm×400mm	680mm	30461582
D52XW60RQDL2-M	•	30kg / 60kg		10g / 20g	400mm×400mm	680mm	30461583
D52XW60RQDX2-M	•	30kg / 60kg		10g / 20g	500mm×500mm	680mm	30461584
D52XW150RQDX2-M	•	60kg / 150kg		20g / 50g	500mm×500mm	680mm	30461585
D52XW60RQDV3-M	•	30kg / 60kg		10g / 20g	610mm×610mm	980mm	30461586
D52XW150RQDV3-M	•	60kg / 150kg		20g / 50g	610mm×610mm	980mm	30461587
D52XW300RQDV3-M	•	150kg / 300kg		50g / 100g	610mm×610mm	980mm	30461588
D52XW150RTDV3-M	•	60kg / 150kg		20g / 50g	800mm×600mm	980mm	30461589
D52XW300RTDV3-M	•	150kg / 300kg		50g / 100g	800mm×600mm	980mm	30461590
D52XW600RTDV3-M	•	300kg / 600kg		100g / 200g	800mm×600mm	980mm	30461591

DEFENDER™5000 Standard

Multifunctional Bench Scale for Standard Industrial Applications



Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, discrete I/O and analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

ABS plastic indicator, 304-grade stainless steel platform with sand gray powder-coated steel frame, IP67 aluminium load cell, non-slip adjustable rubber feet

Design Features

User-configurable resolution up to dual range 15,000d/3,000e, 150% overload capacity protection, check weighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, auto tare



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform, sand gray powder-coated steel frame & aluminum load cell. Defender meets OIML/EC type approvals.

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
D52P6RQDR1		3kg / 6kg	0.2g / 0.5g		305mm×305mm	350mm	30424312
D52P15RQDR1		6kg / 15kg	0.5g / 1g		305mm×305mm	350mm	30424313
D52P15RQDL2		6kg / 15kg	0.5g / 1g		400mm×400mm	680mm	30424314
D52P30RQDL2		15kg / 30kg	1g / 2g		400mm×400mm	680mm	30424315
D52P60RQDL2		30kg / 60kg	2g / 5g		400mm×400mm	680mm	30424316
D52P60RQDX2		30kg / 60kg	2g / 5g		500mm×500mm	680mm	30424317
D52P150RQDX2		60kg / 150kg	5g / 10g		500mm×500mm	680mm	30424318
D52P60RQDV3		30kg / 60kg	2g / 5g		610mm×610mm	980mm	30424319
D52P150RQDV3		60kg / 150kg	5g / 10g		610mm×610mm	980mm	30424320
D52P300RQDV3		150kg / 300kg	10g / 20g		610mm×610mm	980mm	30424321
D52P150RTDV3		60kg / 150kg	5g / 10g		800mm×600mm	980mm	30424322
D52P300RTDV3		150kg / 300kg	10g / 20g		800mm×600mm	980mm	30424323
D52P600RTDV3		300kg / 600kg	20g / 50g		800mm×600mm	980mm	30424324
D52P6RQDR1-M	•	3kg / 6kg		1g / 2g	305mm×305mm	350mm	30461545
D52P15RQDR1-M	•	6kg / 15kg		2g / 5g	305mm×305mm	350mm	30461546
D52P15RQDL2-M	•	6kg / 15kg		2g / 5g	400mm×400mm	680mm	30461547
D52P30RQDL2-M	•	15kg / 30kg		5g / 10g	400mm×400mm	680mm	30461548
D52P60RQDL2-M	•	30kg / 60kg		10g / 20g	400mm×400mm	680mm	30461549
D52P60RQDX2-M	•	30kg / 60kg		10g / 20g	500mm×500mm	680mm	30461550
D52P150RQDX2-M	•	60kg / 150kg		20g / 50g	500mm×500mm	680mm	30461551
D52P60RQDV3-M	•	30kg / 60kg		10g / 20g	610mm×610mm	980mm	30461552
D52P150RQDV3-M	•	60kg / 150kg		20g / 50g	610mm×610mm	980mm	30461553
D52P300RQDV3-M	•	150kg / 300kg		50g / 100g	610mm×610mm	980mm	30461554
D52P150RTDV3-M	•	60kg / 150kg		20g / 50g	800mm×600mm	980mm	30461555
D52P300RTDV3-M	•	150kg / 300kg		50g / 100g	800mm×600mm	980mm	30461556
D52P600RTDV3-M	•	300kg / 600kg		100g / 200g	800mm×600mm	980mm	30461557

DEFENDER™ 5000 Front Mount Stainless Steel

Multifunctional Stainless Steel Bench Scale for Standard Industrial Applications

Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, discrete I/O and analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

304-grade stainless steel platform, frame and handle, stainless steel IP68 indicator, IP67 aluminium (for dual range models) or stainless steel load cell (for single range models), non-slip adjustable rubber feet

Design Features

Resolution up to dual range 15.000d/3000e, 150% overload capacity, check weighing display and beep, menu lock switch, selectable display languages, selectable filter, stability indicator, overload/underload indicators, selectable display controls, auto print and tare



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durably constructed of a stainless steel platform, handle, frame & IP68 indicator; IP67 stainless steel load cell (OIML/EC Type single range) or aluminium load cell (OIML/EC Type dual range).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

Dual range with aluminium load cell

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Item N°
D52XW6WQDR5-EU		3kg / 6kg	0.2g / 0.5g		305mm × 305mm	30444765
D52XW15WQDR5-EU		6kg / 15kg	0.5g / 1g		305mm × 305mm	30444766
D52XW15WQDL5-EU		6kg / 15kg	0.5g / 1g		400mm × 400mm	30444767
D52XW30WQDL5-EU		15kg / 30kg	1g / 2g		400mm × 400mm	30444788
D52XW60WQDL5-EU		30kg / 60kg	2g / 5g		400mm × 400mm	30444789
D52XW60WQDX5-EU		30kg / 60kg	2g / 5g		500mm × 500mm	30444790
D52XW150WQDX5-EU		60kg / 150kg	5g / 10g		500mm × 500mm	30461428
D52XW6WQDR5-M	•	3kg / 6kg		1g / 2g	305mm × 305mm	30461565
D52XW15WQDR5-M	•	6kg / 15kg		2g / 5g	305mm × 305mm	30461566
D52XW15WQDL5-M	•	6kg / 15kg		2g / 5g	400mm × 400mm	30461431
D52XW30WQDL5-M	•	15kg / 30kg		5g / 10g	400mm × 400mm	30461432
D52XW60WQDL5-M	•	30kg / 60kg		10g / 20g	400mm × 400mm	30461433
D52XW60WQDX5-M	•	30kg / 60kg		10g / 20g	500mm × 500mm	30461434
D52XW150WQDX5-M	•	60kg / 150kg		20g / 50g	500mm × 500mm	30461435

Single range with stainless steel load cell

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Item N°
D52XW15WQR5-EU		15kg	1g		305mm × 305mm	30471124
D52XW15WQL5-EU		15kg	1g		400mm × 400mm	30471125
D52XW30WQL5-EU		30kg	2g		400mm × 400mm	30471126
D52XW60WQL5-EU		60kg	5g		400mm × 400mm	30471127
D52XW60WQX5-EU		60kg	5g		500mm × 500mm	30471128
D52XW150WQX5-EU		150kg	10g		500mm × 500mm	30471129
D52XW15WQR5-M	•	15kg		5g	305mm × 305mm	30471152
D52XW15WQL5-M	•	15kg		5g	400mm × 400mm	30471153
D52XW30WQL5-M	•	30kg		10g	400mm × 400mm	30471154
D52XW60WQL5-M	•	60kg		20g	400mm × 400mm	30471155
D52XW60WQX5-M	•	60kg		20g	500mm × 500mm	30471156
D52XW150WQX5-M	•	150kg		50g	500mm × 500mm	30471157

DEFENDER™5000 Front Mount Standard

Multifunctional Bench Scale for Standard Industrial Applications



Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256 × 80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, discrete I/O and analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

ABS plastic (TD52P) or stainless steel IP68(TD52XW) indicator, 304-grade stainless steel platform and handle with sand gray powder-coated steel frame, IP67 aluminium load cell, non-slip adjustable rubber feet

Design Features

User-configurable resolution up to dual range 15,000d/3,000e, 150% overload capacity protection, check weighing symbols with selectable operation and audible signal settings, menu lock switch, multiple selectable operating languages, selectable environmental and auto-print settings, auto tare



User-friendly model with an easy-to-use keypad, large backlit display and plain text on-screen prompts which guide you through operation.

Durable construction with a stainless steel platform and handle, sand gray powder-coated steel frame & aluminum load cell. Defender meets OIML/EC type approvals (depending on region).

Features common industrial modes and supports a 50,000-item library with 1,000 user profiles for easy data management. Includes GMP/GLP with time/date for result traceability.

With TD52P ABS Indicator

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Item N°
D52P6RQDR5		3kg / 6kg	0.2g / 0.5g		305mm × 305mm	30424325
D52P15RQDR5		6kg / 15kg	0.5g / 1g		305mm × 305mm	30424326
D52P15RQDL5		6kg / 15kg	0.5g / 1g		400mm × 400mm	30424327
D52P30RQDL5		15kg / 30kg	1g / 2g		400mm × 400mm	30444761
D52P60RQDL5		30kg / 60kg	2g / 5g		400mm × 400mm	30444762
D52P60RQDX5		30kg / 60kg	2g / 5g		500mm × 500mm	30444763
D52P150RQDX5		60kg / 150kg	5g / 10g		500mm × 500mm	30444764
D52P6RQDR5-M	•	3kg / 6kg		1g / 2g	305mm × 305mm	30461558
D52P15RQDR5-M	•	6kg / 15kg		2g / 5g	305mm × 305mm	30461559
D52P15RQDL5-M	•	6kg / 15kg		2g / 5g	400mm × 400mm	30461560
D52P30RQDL5-M	•	15kg / 30kg		5g / 10g	400mm × 400mm	30461561
D52P60RQDL5-M	•	30kg / 60kg		10g / 20g	400mm × 400mm	30461562
D52P60RQDX5-M	•	30kg / 60kg		10g / 20g	500mm × 500mm	30461563
D52P150RQDX5-M	•	60kg / 150kg		20g / 50g	500mm × 500mm	30461564

With TD52XW Stainless Steel Indicator

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Item N°
D52XW6RQDR5		3kg / 6kg	0.2g / 0.5g		305mm × 305mm	30498216
D52XW15RQDR5		6kg / 15kg	0.5g / 1g		305mm × 305mm	30498217
D52XW15RQDL5		6kg / 15kg	0.5g / 1g		400mm × 400mm	30498498
D52XW30RQDL5		15kg / 30kg	1g / 2g		400mm × 400mm	30498499
D52XW60RQDL5		30kg / 60kg	2g / 5g		400mm × 400mm	30498500
D52XW60RQDX5		30kg / 60kg	2g / 5g		500mm × 500mm	30498501
D52XW150RQDX5		60kg / 150kg	5g / 10g		500mm × 500mm	30498502
D52XW6RQDR5-M	•	3kg / 6kg		1g / 2g	305mm × 305mm	30461610
D52XW15RQDR5-M	•	6kg / 15kg		2g / 5g	305mm × 305mm	30461611
D52XW15RQDL5-M	•	6kg / 15kg		2g / 5g	400mm × 400mm	30461612
D52XW30RQDL5-M	•	15kg / 30kg		5g / 10g	400mm × 400mm	30461613
D52XW60RQDL5-M	•	30kg / 60kg		10g / 20g	400mm × 400mm	30461614
D52XW60RQDX5-M	•	30kg / 60kg		10g / 20g	500mm × 500mm	30461615
D52XW150RQDX5-M	•	60kg / 150kg		20g / 50g	500mm × 500mm	30461616

DEFENDER™5000 Accessories

Accessories	Item N°
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537
Analog Output Kit, TD52 *3	30424403
2nd RS232/RS485/USB, TD52 *3	30424404
Battery Kit, Li-ion, TD52	30424405
USB Host for Dongle, TD52 *2	30424406
Light Tower, R-Y-G, IP65, 243 mm, 24VDC (Requires 30097591)	30424021
In-use Cover Set, TD52P	30424022
In-use Cover Set, TD52XW	30424023
In-use Cover Set (10), TD52P	30469948
In-use Cover Set (10), TD52XW	30469949
Wall Mount Kit, SST, TD52XW	30424026
Wall Mount Kit, CS, TD52P	30424027
LC Extension Cable, 9 meters, D52 *1	30424409
M16 Gland with Ferrite, to TD52	30379716
Micro SD Card, 8G	30303533
I/O with Relay (2 In/4 Out) *3	30097591
Ethernet Kit, D52 *2	30429666
Carrying Handle Kit, D52xx	30424024
Printer Holder Kit, D52xx	30424025
Cable Assembly 6m to J-box DF52	30424408
Column Kit, 35 cm, CS, D52xx	30424410
Column Kit, 68 cm, CS, D52xx	30424411
Column Kit, 98 cm, CS, D52xx	30424412
Column Kit, 35 cm, SST, D52xx	30424413
Column Kit, 68 cm, SST, D52xx	30424414
Column Kit, 98 cm, SST, D52xx	30424415
Cable Kit, Extension for base, D52	30429931
Wheel Kit, Defender Series (up to 300 kg models) *4	30372146
USB Host for Flash Drive *2	30572923
Interface Kit RS232-USB *5	30304101
Interface Kit RS232-Ethernet *5	30304102
Cable, RS232, 1.5m, to connect a reference balance *6	30057595
LC Extension Cable, 3.5 m *1	30803566

1 Cannot be used for legal-for-trade applications

2 Only one of them can be used at the same time

3 Only one of them can be used at the same time

4 Not available for models with 600 kg capacity

5 Suitable for all Defender scales and Terminals equipped with RS232

6 Reference Balance automatically accepts higher-precision APW data from a scale through the included RRS232 port



ANALOG OUTPUT KIT, TD52
30424403



WIFI/BT DONGLE, OHAUS
30412537



2ND RS232/RS485/USB, TD52
30424404



BATTERY KIT, LI-ION, TD52
30424405



USB HOST FOR DONGLE, TD52
30424406



LIGHT TOWER, R-Y-G, IP65, 243 MM,
24VDC 30424021



I/O WITH RELAY (2 IN/4 OUT)
30097591



PRINTER HOLDER KIT
30424025



WHEEL KIT, DEFENDER SERIES
30372146



INTERFACE KIT RS232-USB
30304101



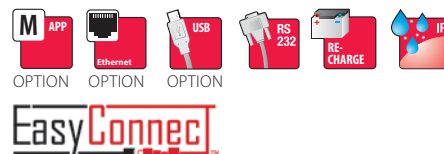
CABLE KIT, EXTENSION FOR BASE
30429931



COLUMN KIT, CS

DEFENDER™3000 Stainless Steel

All stainless steel modular scale for washdown environments



Application

Weighing, Checkweighing, Counting, Totalization.

Display

7 Segment LCD with multicolour backlight

Operation

Power cord (included) or Rechargeable Battery (included)

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

304-grade stainless steel platform and frame, stainless steel IP66 indicator, stainless steel IP67 load cell, non-slip adjustable rubber feet

Design Features

150% overload protection



Results are clearly shown using the large, bright backlit LCD display. In Checkweighing mode display changes colour (yellow/green/red) to alert when within the target weight range.

This tough industrial scale features a 304-stainless steel platform and frame, IP67 load cell. Indicator features an IP66 washdown protected 304-stainless steel housing with mounting bracket.

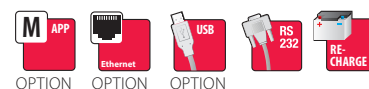
Features software for Parts Counting, Checkweighing and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity. Approved models are equipped with EasyConnect™ solution.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
i-D33XW15C1R6-EU		15kg	2g		305mm x 355mm	330mm	30684775
i-D33XW30C1R6-EU		30kg	5g		305mm x 355mm	330mm	30684776
i-D33XW60C1R6-EU		60kg	10g		305mm x 355mm	330mm	30684777
i-D33XW60C1L7-EU		60kg	10g		420mm x 550mm	680mm	30684778
i-D33XW150C1L7-EU		150kg	20g		420mm x 550mm	680mm	30684779
i-D33XW150C1X7-EU		150kg	20g		500mm x 650mm	680mm	30684780
i-D33XW300C1X7-EU		300kg	50g		500mm x 650mm	680mm	30684781
i-D33XW15C1R6EU-M	•	15kg		5g	305mm x 355mm	330mm	30685134
i-D33XW30C1R6EU-M	•	30kg		10g	305mm x 355mm	330mm	30685135
i-D33XW60C1R6EU-M	•	60kg		20g	305mm x 355mm	330mm	30685136
i-D33XW60C1L7EU-M	•	60kg		20g	420mm x 550mm	680mm	30685137
i-D33XW150C1L7EU-M	•	150kg		50g	420mm x 550mm	680mm	30685138
i-D33XW150C1X7EU-M	•	150kg		50g	500mm x 650mm	680mm	30685139
i-D33XW300C1X7EU-M	•	300kg		100g	500mm x 650mm	680mm	30685140
i-D33XW15C1R5-EU		15kg	2g		305mm x 355 mm	-	30684782
i-D33XW30C1R5-EU		30kg	5g		305mm x 355 mm	-	30684783
i-D33XW60C1R5-EU		60kg	10g		305mm x 355 mm	-	30685078
i-D33XW60C1L5-EU		60kg	10g		420mm x 550 mm	-	30685079
i-D33XW150C1L5-EU		150kg	20g		420mm x 550 mm	-	30685080
i-D33XW150C1X5-EU		150kg	20g		500mm x 650 mm	-	30685081
i-D33XW300C1X5-EU		300kg	50g		500mm x 650 mm	-	30685082
i-D33XW15C1R5EU-M	•	15kg		5g	305mm x 355 mm	-	30685141
i-D33XW30C1R5EU-M	•	30kg		10g	305mm x 355 mm	-	30685142
i-D33XW60C1R5EU-M	•	60kg		20g	305mm x 355 mm	-	30685143
i-D33XW60C1L5EU-M	•	60kg		20g	420mm x 550 mm	-	30685144
i-D33XW150C1L5EU-M	•	150kg		50g	420mm x 550 mm	-	30685145
i-D33XW150C1X5EU-M	•	150kg		50g	500mm x 650 mm	-	30685146
i-D33XW300C1X5EU-M	•	300kg		100g	500mm x 650 mm	-	30685147

Front mount

DEFENDER™3000 Hybrid

The modular scale for industrial environments



OPTION OPTION OPTION

EasyConnect

Application

Weighing, Checkweighing, Counting, Totalization

Display

7 Segment LCD with multicolour backlight

Operation

Power cord (included), or Rechargeable Battery (included)

Communication

Standard RS232 and optional USB Device or Ethernet

Construction Hybrid

Stainless steel indicator, 304-stainless steel platform, powder-coated steel tubular frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

150% overload protection



Results are clearly shown using the large bright backlit LCD display. In Checkweighing mode display changes colour (yellow/green/red) to alert when within the target weight range.

This industrial scale features a 304 stainless steel platform, powder-coated steel tubular frame, and IP65 aluminum load cell. Indicator features a stainless steel housing and mounting bracket.

Features software for Parts Counting, Checkweighing and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity. Approved models are equipped with EasyConnect™ solution.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
i-D33XW15B1R1-EU		15kg	2g		305mm × 355mm	330mm	30685244
i-D33XW30B1R1-EU		30kg	5g		305mm × 355mm	330mm	30685245
i-D33XW60B1R1-EU		60kg	10g		305mm × 355mm	330mm	30685246
i-D33XW60B1L2-EU		60kg	10g		420mm × 550mm	680mm	30685247
i-D33XW150B1L2-EU		150kg	20g		420mm × 550mm	680mm	30685248
i-D33XW150B1X2-EU		150kg	20g		500mm × 650mm	680mm	30685249
i-D33XW300B1X2-EU		300kg	50g		500mm × 650mm	680mm	30685250
i-D33XW300B1V3-EU		300kg	50g		600mm × 800mm	980mm	30685251
i-D33XW600B1V3-EU		600kg	100g		600mm × 800mm	980mm	30685252
i-D33XW15B1R1EU-M	•	15kg		5g	305mm × 355mm	330mm	30685262
i-D33XW30B1R1EU-M	•	30kg		10g	305mm × 355mm	330mm	30685263
i-D33XW60B1R1EU-M	•	60kg		20g	305mm × 355mm	330mm	30685264
i-D33XW60B1L2EU-M	•	60kg		20g	420mm × 550mm	680mm	30685265
i-D33XW150B1L2EU-M	•	150kg		50g	420mm × 550mm	680mm	30685266
i-D33XW150B1X2EU-M	•	150kg		50g	500mm × 650mm	680mm	30685267
i-D33XW300B1X2EU-M	•	300kg		100g	500mm × 650mm	680mm	30685268
i-D33XW300B1V3EU-M	•	300kg		100g	600mm × 800mm	980mm	30685269
i-D33XW600B1V3EU-M	•	600kg		200g	600mm × 800mm	980mm	30685270
i-D33XW15B1R5-EU		15kg	2g		305mm × 355mm	-	30685253
i-D33XW30B1R5-EU		30kg	5g		305mm × 355mm	-	30685254
i-D33XW60B1R5-EU		60kg	10g		305mm × 355mm	-	30685255
i-D33XW60B1L5-EU		60kg	10g		420mm × 550mm	-	30685256
i-D33XW150B1L5-EU		150kg	20g		420mm × 550mm	-	30685257
i-D33XW150B1X5-EU		150kg	20g		500mm × 650mm	-	30685258
i-D33XW300B1X5-EU		300kg	50g		500mm × 650mm	-	30685259
i-D33XW15B1R5EU-M	•	15kg		5g	305mm × 355mm	-	30685271
i-D33XW30B1R5EU-M	•	30kg		10g	305mm × 355mm	-	30685272
i-D33XW60B1R5EU-M	•	60kg		20g	305mm × 355mm	-	30685273
i-D33XW60B1L5EU-M	•	60kg		20g	420mm × 550mm	-	30685274
i-D33XW150B1L5EU-M	•	150kg		50g	420mm × 550mm	-	30685275
i-D33XW150B1X5EU-M	•	150kg		50g	500mm × 650mm	-	30685276
i-D33XW300B1X5EU-M	•	300kg		100g	500mm × 650mm	-	30685277

Front mount

DEFENDER™3000 Standard

The best selling modular scale for basic industrial needs



Application

Weighing, Checkweighing, Counting, Totalization.

Display

7 Segment LCD with multicolour backlight

Operation

Power cord (included), 6C (LR14) Batteries (not included) or Rechargeable Battery (not included)

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

ABS plastic indicator, 304-stainless steel platform, powder-coated steel tubular frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

150% overload protection



Results are clearly shown using the large, bright backlit LCD display. In Checkweighing mode display changes colour (yellow/green/red) to alert when within the target weight range.

This tough industrial scale features a 304-stainless steel platform, powder-coated steel tubular frame, and IP65 aluminum load cell. Indicator features a durable ABS housing and steel mounting bracket.

Features software for Parts Counting, Checkweighing and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity. Approved models are equipped with EasyConnect™ solution.

Model	EC Type Approved	Capacity	Readability (d)	Readability (e)	Platform	Column	Item N°
i-D33P15B1R1		15kg	2g		305mm x 355mm	330mm	30684738
i-D33P30B1R1		30kg	5g		305mm x 355mm	330mm	30684739
i-D33P60B1R1		60kg	10g		305mm x 355mm	330mm	30684740
i-D33P60B1L2		60kg	10g		420mm x 550mm	680mm	30684744
i-D33P150B1L2		150kg	20g		420mm x 550mm	680mm	30684745
i-D33P150B1X2		150kg	20g		500mm x 650mm	680mm	30684748
i-D33P300B1X2		300kg	50g		500mm x 650mm	680mm	30684749
i-D33P300B1V3		300kg	50g		600mm x 800mm	980mm	30684752
i-D33P600B1V3		600kg	100g		600mm x 800mm	980mm	30684753
i-D33P15B1R1-M	•	15kg		5g	305mm x 355mm	330mm	30685098
i-D33P30B1R1-M	•	30kg		10g	305mm x 355mm	330mm	30685099
i-D33P60B1R1-M	•	60kg		20g	305mm x 355mm	330mm	30685100
i-D33P60B1L2-M	•	60kg		20g	420mm x 550mm	680mm	30685104
i-D33P150B1L2-M	•	150kg		50g	420mm x 550mm	680mm	30685105
i-D33P150B1X2-M	•	150kg		50g	500mm x 650mm	680mm	30685108
i-D33P300B1X2-M	•	300kg		100g	500mm x 650mm	680mm	30685109
i-D33P300B1V3-M	•	300kg		100g	600mm x 800mm	980mm	30685112
i-D33P600B1V3-M	•	600kg		200g	600mm x 800mm	980mm	30685113
i-D33P15B1R5		15kg	2g		305mm x 355mm	-	30684756
i-D33P30B1R5		30kg	5g		305mm x 355mm	-	30684757
i-D33P60B1R5		60kg	10g		305mm x 355mm	-	30684758
i-D33P60B1L5		60kg	10g		420mm x 550mm	-	30684762
i-D33P150B1L5		150kg	20g		420mm x 550mm	-	30684763
i-D33P150B1X5		150kg	20g		500mm x 650mm	-	30684766
i-D33P300B1X5		300kg	50g		500mm x 650mm	-	30684767
i-D33P15B1R5-M	•	15kg		5g	305mm x 355mm	-	30685116
i-D33P30B1R5-M	•	30kg		10g	305mm x 355mm	-	30685117
i-D33P60B1R5-M	•	60kg		20g	305mm x 355mm	-	30685118
i-D33P60B1L5-M	•	60kg		20g	420mm x 550mm	-	30685122
i-D33P150B1L5-M	•	150kg		50g	420mm x 550mm	-	30685123
i-D33P150B1X5-M	•	150kg		50g	500mm x 650mm	-	30685126
i-D33P300B1X5-M	•	300kg		100g	500mm x 650mm	-	30685127

Front mount

DEFENDER™3000 Accessories

Accessories	Item N°
Mounting Set Front SST DT33	30696600
Column Assembly, 330mm, SST, i-DT33	30696595
Column Assembly, 680mm, SST, i-DT33	30696596
Column Assembly, 330mm, CS, i-DT33	30696597
Column Assembly, 680mm, CS, i-DT33	30696598
Column Assembly, 980mm, CS, i-DT33	30696599
USB Device Kit i-D33	30699120
Dust Cover i-DT33 (5)	30699121
Rechargeable battery kit i-DT33P	30699122
Wheel kit, Defender Series	30372146
Wheel kit SST, Defender Series	30616409
Cable RS232 i-DT33P	80500525
Cable RS232 i-DT33XW	80500552
Ethernet Kit	30429666
LC Extension Cable, 3.5 m *1	30803566

1 Cannot be used for legal-for-trade applications



WHEEL KIT, DEFENDER SERIES
30372146



WHEEL KIT SST, DEFENDER SERIES
30616409



MOUNTING SET FRONT SST DT33
30696600



COLUMN ASSEMBLY, 330MM, SST, I-DT33
30696595



COLUMN ASSEMBLY, 680MM, SST, I-DT33
30696596



COLUMN ASSEMBLY, 330MM, CS, I-DT33
30696597



COLUMN ASSEMBLY, 680MM, CS, I-DT33
30696598



COLUMN ASSEMBLY, 980MM, CS, I-DT33
30696599



USB DEVICE KIT I-D33
30699120



IN USE COVER I-DT33 (5)
30699121



RECHARGEABLE BATTERY KITS
30699122



CABLE RS232 I-DT33XW
80500552



ETHERNET KIT
30429666



CABLE RS232 I-DT33P
80500525

DEFENDER™2000

The best basic modular scale for dependability and durability at affordable price

Application

Weighing, Parts Counting, Accumulation

Display

Red LED

Operation

AC adapter (included) or internal rechargeable battery

Communication

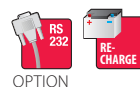
RS232 interface (accessory)

Construction

ABS indicator, 430 grade stainless steel platform with painted steel tubular frame, IP65 aluminium load cell

Design Features

Hardware configuration lockout switch, battery saving auto-off, externally visible level bubble, down-stops for overload protection



OPTION



The polished 430 stainless steel platform with painted carbon steel frame.

Plastic LED indicator (T24PE).

Internal rechargeable battery.

Model	Capacity	Readability (d)	Platform	Column	Item N°
D24PE30FR	30kg	5g	300mm x 350mm	500mm	30235922
D24PE60FR	60kg	10g	300mm x 350mm	500mm	30235927
D24PE60FL	60kg	10g	400mm x 500mm	700mm	30235932
D24PE150FL	150kg	20g	400mm x 500mm	700mm	30235937
D24PE150FX	150kg	20g	500mm x 600mm	700mm	30235942
D24PE300FX	300kg	50g	500mm x 600mm	700mm	30235947
D24PE300FV	300kg	50g	600mm x 800mm	1000mm	30235952
D24PE600FV	600kg	100g	600mm x 800mm	1000mm	30235957
Accessories					Item N°
RS232 Kit					30101019
Folding Column Kit					30101016
In-Use-Cover, i-DT33P, T24P					30101017
Load Cell Cable Adapter Kit					30101021
Wall mount kit, T24P					30387043
Column adapter Kit, D2K					30101020

T72XW Indicator

Advanced performance stainless steel indicator with external device control capabilities



Application

Weighing, parts counting, check weighing, animal/dynamic weighing

Display

Transflective graphic LCD with white backlight, 240x96 pixels

Operation

AC Power (Included)

Communication

Easy access communication port including RS232 (included), Ethernet and 2nd RS232 or RS485 (accessories sold separately), GLP/GMP data output with real-time clock

Construction

IP66/NEMA 4X stainless steel housing and mounting bracket

Design Features

Check weighing lights with selectable operation and audible signal settings, sealed front panel, five operating languages (English, Spanish, French, German and Italian), selectable environmental and auto-print settings, stability indicator, overload/underload indicators, 50 000 d and up to 6 000 e

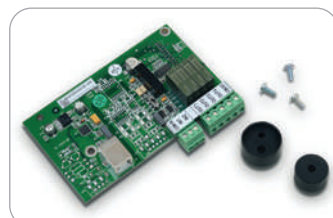


50,000 displayed resolution and the ability to support up to 10 load cells.

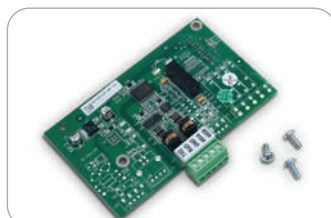
Two available option slots enable a wide range of connectivity interfaces.

Vivid graphic display with on-screen prompts and an alphanumeric keypad with designated keys for common functions such as tare and ID information.

Model	Item N°
T72XW-EU	30126957
Accessories	Item N°
Ethernet Kit, T72XW	30132163
USB with I/O kit, T72XW	30132164
COM2 Kit, T72XW	30132165
Floor scale Column Kit Painted	30531244
Floor scale Column Kit SST	30539553
Light Tower, R-Y-G, IP65, 243 mm, 24VDC (Requires 30097591)	30424021
Column Kit, 350mm, SST, T51/71/72XW	80500725
Column Kit, 680mm, SST, T51/71/72XW	80500726



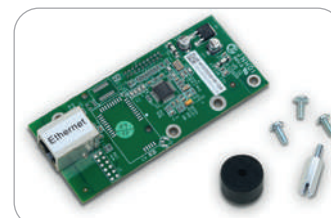
USB WITH I/O KIT, T72XW
30132164



COM2 KIT, T72XW
30132165



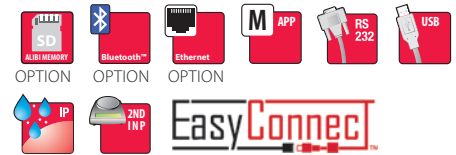
LIGHT TOWER, R-Y-G, IP65, 243 MM, 24VDC
30424021



ETHERNET KIT, T72XW
30132163

i-DT61XWE Indicator

Advanced IP68/IP69K Washdown Indicator



Application

Weighing, Counting with APW optimization, Percent Weighing, Checkweighing, Checkcounting, Filling, Dynamic Weighing/Display Hold

Display

6-digit, 7-segment white LED, 20 mm high digits

Operation

100-240 VAC / 50/60 Hz universal power supply, hardwired

Communication

Easy access communication ports including RS232 and USB Host, second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and Analog output (available as accessories); GLP/GMP data output with real-time clock

Construction

IP68/IP69K 316 stainless steel housing indicator and mounting bracket, knife-resistant front panel

Design Features

3-colour check light bar, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator, auto shut-off, auto tare



Defender 6000 indicator, constructed of polycarbonate or 316 stainless steel, stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection.

Large, bright display offers clear results for fast processing. Colour bar offers detailed package weight checking.

With knife-proof numeric touch keypad, i-DT61XWE indicator is suitable for harsh processing environments.

Model	Item N°
i-DT61XWE-EU	30575576
Accessories	Item N°
Wi-Fi/Bluetooth Dongle i-DT61XW	30412537
Analog Output kit i-DT61XW *1	30424403
2nd RS232/RS485/USB Device kit i-DT61XW *1	30424404
LC Extension Cable, 9 meters.	30424409
M16 Gland with Ferrite	30379716
Light Tower, 3 Colors, 243 mm, IP65 (Requires 30097591)	30424021
Discrete I/O with Relay (2 In/4 Out) i-DT61XW *1	30097591
Ethernet kit i-DT61XW	30429666
External Power Bank Holder i-DT61XW (requires external USB power bank)	30572907
Cable RS232 i-DT61XW	80500552
Alibi Memory i-DT61XW	80500503
LC Extension Cable, 3.5 m *2	30803566

1 Only one of them can be used at the same time

2 Cannot be used for legal-for-trade applications



WI-FI/BLEETOOTH DONGLE I-DT61XW
30412537



ANALOG OUTPUT KIT I-DT61XW
30424403



2ND RS232/RS485/USB DEVICE KIT
I-DT61XW 30424404



EXTERNAL POWER BANK HOLDER I-DT61XW
30572907

i-DT61PW Indicator

Advanced IP68/IP69K Washdown Indicator



EasyConnect

Application

Weighing, Counting with APW optimization, Percent Weighing, Checkweighing, Checkcounting, Dynamic Weighing/Display Hold

Display

6-digit, 7-segment LCD display with white backlight, 45 mm high digits

Operation

6 D (LR20) Batteries (Included)

Communication

Easy access IR communication kit (available as an accessory); GLP/GMP data output with real-time clock

Construction

IP68/IP69K food grade polycarbonate housing and 316 stainless steel mounting bracket

Design Features

3-colour check light bar, menu and key lock, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, low battery indicator, auto shut-off, auto tare



Defender 6000 indicator, constructed of polycarbonate or 316 stainless steel, stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection.

Large, bright display offers clear results for fast processing. Colour bar offers detailed package weight checking.

Indicator operates for up to 1,600 hours on one set of batteries for months of use. Battery-powered design eliminates the need for a main connection for increased flexibility.

Model	Item N°
i-DT61PW	30575574
Accessories	Item N°
LC Extension Cable, 9 meters	30424409
IR communication kit i-DT61PW	30572910
LC Extension Cable, 3.5 m *1	30803566



LC EXTENSION CABLE, 9 METERS
30424409



IR COMMUNICATION KIT i-DT61PW
30572910

TD52XW Indicator

Multifunctional Indicator for Standard Industrial Applications

Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256×80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

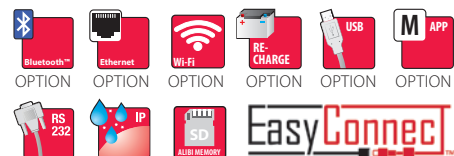
Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, Discrete I/O and analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

IP68 stainless steel housing and mounting bracket

Design Features

Check weighing symbols with selectable operation and audible signal settings, menu lock switch, multiple operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim, auto-off, auto tare, screensaver, 75 000 d and up to 10 000 e



Indicator guides the user with on-screen prompts.

Multiple connectivity options for convenient data transfer and storage.

Multiple application modes and high storage capacity for greater flexibility.

Model	Item N°
TD52XW-EU	30424066
Accessories	Item N°
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537
Analog Output Kit, TD52 *3	30424403
2nd RS232/RS485/USB, TD52 *3	30424404
Battery Kit, Li-ion, TD52	30424405
USB Host for Dongle, TD52 *2	30424406
Light Tower, R-Y-G, IP65, 243 mm, 24VDC (Requires 30097591)	30424021
In-use Cover Set, TD52XW	30424023
In-use Cover Set (10), TD52XW	30469949
Wall Mount Kit, SST, TD52XW	30424026
LC Extension Cable, 9 meters, D52 *1	30424409
M16 Gland with Ferrite, to TD52	30379716
Micro SD Card, 8 GB	30303533
I/O with Relay (2 In/4 Out) *3	30097591
Ethernet Kit, TD52 *2	30429666
Floor scale Column Kit Painted	30531244
Floor scale Column Kit SST	30539553
USB Host for Flash Drive *2	30572923
LC Extension Cable, 3.5 m *1	30803566

1 Cannot be used for legal-for-trade applications

2 Only one of them can be used at the same time

3 Only one of them can be used at the same time

TD52P Indicator

Multifunctional Indicator for Standard Industrial Applications



Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), Filling

Display

Backlit Liquid Crystal Display (LCD), 256x80 pixels

Operation

Internal power supply with power cord (included) or rechargeable battery (sold separately as an accessory)

Communication

Easy access communication ports including RS232 and Micro SD slot (included), second RS232/RS485/USB device, Ethernet and WiFi/Bluetooth, discrete I/O and analog output (sold separately as accessories); GLP/GMP data output with real-time clock

Construction

ABS plastic housing with painted steel bracket

Design Features

Check weighing symbols with selectable operation and audible signal settings, menu lock switch, multiple operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable adjust contrast settings, auto-dim, auto-off, auto tare, screensaver, 75 000 d and up to 10 000 e



Indicator guides the user with on-screen prompts.

Multiple connectivity options for convenient data transfer and storage.

Multiple application modes and high storage capacity for greater flexibility.

Model	Item N°
TD52P	30424065
Accessories	Item N°
WiFi/BT Dongle, OHAUS (Requires 30424406)	30412537
Analog Output Kit, TD52 *3	30424403
2nd RS232/RS485/USB, TD52 *3	30424404
Battery Kit, Li-ion, TD52	30424405
USB Host for Dongle, TD52 *2	30424406
Light Tower, R-Y-G, IP65, 243 mm, 24VDC (Requires 30097591)	30424021
In-use Cover Set, TD52P	30424022
In-use Cover Set (10), TD52P	30469948
Wall Mount Kit, CS, TD52P	30424027
LC Extension Cable, 9 meters, D52 *1	30424409
M16 Gland with Ferrite, to TD52	30379716
Micro SD Card, 8 GB	30303533
I/O with Relay (2 In/4 Out) *3	30097591
Ethernet Kit, TD52 *2	30429666
Floor scale Column Kit Painted	30531244
Floor scale Column Kit SST	30539553
USB Host for Flash Drive *2	30572923
LC Extension Cable, 3.5 m *1	30803566

1 Cannot be used for legal-for-trade applications

2 Only one of them can be used at the same time

3 Only one of them can be used at the same time

i-DT33XW Indicator

3000 Series stainless steel indicator for washdown environments

Application

Weighing, Parts Counting, Checkweighing and Totalization

Display

7 Segment LCD with multicolour backlight

Operation

Power cord (included), Rechargeable Battery (included)

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

304 stainless steel housing and mounting bracket

Design Features

Hinged front cover for easy servicing, 30 000 d and up to 10 000 e



Results are clearly shown using the large, bright backlit LCD display. In Checkweighing mode display changes colour (yellow/green/red) to alert when within the target weight range.

Features software for Parts Counting, Checkweighing and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity.

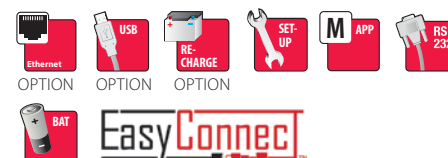
Indicator features an IP66 protected 304-stainless steel housing with bracket. Display resolution up to 1:30,000; OIML approved resolution 1:10,000.

Model	Item N°
i-DT33XW-EU	30648431
Accessories	Item N°
Cable RS232 i-DT33XW	80500552
Ethernet Kit	30429666
USB Device Kit	30699120
LC Extension Cable, 3,5 m *1	30803566

*1 Cannot be used for legal-for-trade applications

i-DT33P Indicator

3000 Series basic industrial indicator



Application

Weighing, Parts Counting, Checkweighing and Totalization

Display

7 Segment LCD with multicolour backlight

Operation

Power cord (included), 6C (LR14) Batteries (not included) or Rechargeable Battery (not included)

Communication

Standard RS232 and optional USB Device or Ethernet

Construction

ABS housing and powder-coated steel mounting bracket

Design Features

Integrated key-hole mounts on back cover, 30 000 d and up to 10 000 e



Results are clearly shown using the large, bright backlit LCD display. In Checkweighing mode display changes colour (yellow/green/red) to alert when within the target weight range.

Features software for Parts Counting, Checkweighing and Totalization. Includes RS232 with optional USB Device or Ethernet for printing or data connectivity.

Indicator features a durable ABS housing and steel mounting bracket. Display resolution up to 1:30,000; OIML approved resolution 1:10,000.

Model	Item N°
i-DT33P	30648430
Accessories	Item N°
Rechargeable battery kit i-DT33P	30699122
Cable RS232 i-DT33P	80500525
Ethernet Kit	30429666
USB Device Kit	30699120
Dust Cover cover i-DT33 (5)	30699121
LC Extension Cable, 3.5 m*1	30803566

1 Cannot be used for legal-for-trade applications

i-DT25P Indicator

Indicator For Basic Industrial Applications

Application

Weighing, Counting, Dynamic Weighing / Display Hold, Totalization, Peak Hold

Display

6-digit, 7-segment LCD display with white backlight, 28 mm high digits

Operation

Standard AC adapter with detachable USB type C cable (included) or 4 AA batteries (not included)

Communication

Easy access communication ports including standard RS232 and USB type C

Construction

ABS housing and powder-coated steel mounting bracket

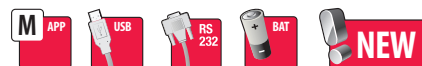
Design Features

Selectable environmental and auto-print settings, stability indicator, overload/underload indicators, auto-off, auto tare

Features software for most common industrial weighing modes such as Parts Counting, Totalization, Dynamic Weighing/Display Hold and Peak Hold, eliminating the need for complicated manual calculations.

Indicator features an ABS housing and powder coated steel bracket for desk or wall mounting. Display resolution up to 1: 30 000; OIML approved resolution 1: 6 000, NTEP certified resolution 1: 10 000.

Flexible operation with the included AC power adapter, USB type-C port or disposable battery power. Includes RS232 and USB Device for data communication.



Model		Item N°	
i-DT25P EU		30745989	
Accessories	Item N°	Accessories	Item N°
Cable RS232 IBM 9P M/F	80500525	Auxiliary Display, AD7-MD	30472063
RS232 DB9 Adapter, M/M	30692384	Remote Column Kit 330 mm Painted Steel	30800931
Printer, Impact, SF40A	30064202	Remote Column Kit 980 mm Painted Steel	30795819
Printer, Impact, SF-110B	30708371		

T24PE Indicator

Dependable and durable 2000 Series indicator at affordable price

Application

Weighing (3 units), parts counting, accumulation

Display

6-digit, 7-segment red LED

Operation

AC adapter with internal rechargeable lead acid battery

Communication

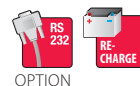
Optional RS232

Construction

ABS plastic housing

Design features

Hardware configuration lockout switch, software included for parts counting mode with selectable sample sizes, selectable span adjustment points, 20 000 d



Easy-to-read red LED display.

Optional RS232C with manual/continuous/interval printing.

Versatile power capabilities including AC adapter and rechargeable battery in standard.

Model		Item N°	
T24PE		30235894	
Accessories	Item N°	Accessories	Item N°
RS232 Kit	30101019	Wall mount kit, T24P	30387043
Folding Column Kit	30101016	Floor scale Column Kit Painted 980mm	30531244
In-Use-Cover, T24P i-DT33P	30101017	Floor scale Column Kit SST 980mm	30539553
Load Cell Cable Adapter Kit	30101021		

DEFENDER™ 6000 Base

Advanced IP68/IP69K Washdown Base



Construction

316 stainless steel platform and frame,
hermetically-sealed stainless steel load cell, non-slip
adjustable rubber feet, level indicator



Defender 6000 stands up to harsh cleaning in processing and packaging environments with IP68 immersion/IP69K washdown protection, 316 stainless steel base and hermetically-sealed load cell.

Durable Defender 6000 is NSF certified, supporting HACCP systems with a 316 stainless steel base providing corrosion protection in food, chemical processing, and packaging.

EasyConnect™ allows a mix of displays and bases.

Model	Capacity	Readability (d)	Platform	Item N°
i-D3K1S	3kg	0,5g	250mm × 250mm	30554431
i-D6K1S	6kg	0,5g	250mm × 250mm	30554432
i-D15K1R	15kg	1g	300mm × 300mm	30554433
i-D30K1R	30kg	2g	300mm × 300mm	30554434
i-D60K1L	60kg	5g	500mm × 400mm	30554435
i-D150K1L	150kg	10g	500mm × 400mm	30554436
Accessories				Item N°
Wheel kit SS Defender Series				30616409
LC Extension Cable, 9 meters				30424409
Column Kit 260 mm 316 stainless steel				30572908
Column Kit 670 mm 316 stainless steel				30572909
Front Mounting kit 316 SS i-DT61PW				30626654
Pan 305x305 mm in 304 stainless steel				30427798
Pan 254x254 mm 304 stainless steel				30427799
Cable Kit Extension for base				30429931
LC Extension Cable, 3,5 m				30803566



WHEEL KIT SS DEFENDER SERIES
30616409



LC EXTENSION CABLE, 9 METERS
30424409



COLUMN KIT 316 STAINLESS STEEL
30572908 30572909



CABLE KIT EXTENSION FOR BASE
30429931



FRONT MOUNTING KIT 316 SS i-DT61PW
30626654



PAN, 304 STAINLESS STEEL
30427798 30427799

DEFENDER™5000 Stainless Steel Bases

Durable Bases for the Most Demanding of Industrial Applications

Construction

Dual Range model:

304-grade stainless steel platform and frame, IP67 aluminium load cell, non-slip adjustable rubber feet

Single Range model:

304-grade stainless steel platform and frame, IP67 stainless steel load cell, non-slip adjustable rubber feet

EasyConnect™



Durably Constructed To Withstand Harsh Industrial Environments.

Stainless steel frame. Stainless Steel load cell for Single Range. Aluminium Load cell for Dual Range.

OIML approved dual range and single range load cell.

Model	Capacity	Platform	Item N°
D6WQDR	3kg / 6kg	305mm x 305mm	30419594
D15WQDR	6kg / 15kg	305mm x 305mm	30419595
D15WQDL	6kg / 15kg	400mm x 400mm	30419609
D30WQDL	15kg / 30kg	400mm x 400mm	30419610
D60WQDL	30kg / 60kg	400mm x 400mm	30419611
D60WQDX	30kg / 60kg	500mm x 500mm	30419614
D150WQDX	60kg / 150kg	500mm x 500mm	30419615
D60WQDV	30kg / 60kg	610mm x 610mm	30419619
D150WQDV	60kg / 150kg	610mm x 610mm	30419620
D300WQDV	150kg / 300kg	610mm x 610mm	30419621
D150WTDV	60kg / 150kg	800mm x 600mm	30419625
D300WTDV	150kg / 300kg	800mm x 600mm	30419626
D600WTDV	300kg / 600kg	800mm x 600mm	30419627
D15WQR	15kg	305mm x 305mm	30454671
D15WQL	15kg	400mm x 400mm	30454672
D30WQL	30kg	400mm x 400mm	30454673
D60WQL	60kg	400mm x 400mm	30454674
D60WQX	60kg	500mm x 500mm	30454675
D150WQX	150kg	500mm x 500mm	30470877
D60WQV	60kg	610mm x 610mm	30471118
D150WQV	150kg	610mm x 610mm	30471119

DEFENDER™3000 Stainless Steel Bases

Stainless steel platform for washdown environments

Construction

304-grade stainless steel platform, stainless steel tubular frame, IP67 stainless steel load cell



EasyConnect™



This tough industrial scale features a 304-stainless steel platform, frame and IP67 load cell.

Capacities from 15 kg to 300 kg, with platforms from 305 x 355 mm to 500 x 650 mm.

Default resolution up to 7,500d; OIML approved to 3,000e for legal-for-trade performance.

Model	Capacity	Platform	Item N°
i-D15C1R EZ	15kg	305mm x 355mm	30683681
i-D30C1R EZ	30kg	305mm x 355mm	30683682
i-D60C1R EZ	60kg	305mm x 355mm	30683683
i-D60C1L EZ	60kg	420mm x 550mm	30683686
i-D150C1L EZ	150kg	420mm x 550mm	30683687
i-D150C1X EZ	150kg	500mm x 650mm	30683690
i-D300C1X EZ	300kg	500mm x 650mm	30683691

DEFENDER™5000 Bases

Durable Bases for the Most Demanding of Industrial Applications

Construction

304-grade stainless steel platform, sand grey powder-coated steel frame, aluminum load cell, non-slip adjustable rubber feet, level indicator

EasyConnect



Durably Constructed To Withstand Harsh Industrial Environments.

Sand grey powder-coated steel frame.

OIML approvable dual range load cell.

Model	Capacity	Platform	Item N°
D6RQDR	3kg / 6kg	305mm × 305mm	30419592
D15RQDR	6kg / 15kg	305mm × 305mm	30419593
D15RQDL	6kg / 15kg	400mm × 400mm	30419596
D30RQDL	15kg / 30kg	400mm × 400mm	30419597
D60RQDL	30kg / 60kg	400mm × 400mm	30419608
D60RQDX	30kg / 60kg	500mm × 500mm	30419612
D150RQDX	60kg / 150kg	500mm × 500mm	30419613
D60RQDV	30kg / 60kg	610mm × 610mm	30419616
D150RQDV	60kg / 150kg	610mm × 610mm	30419617
D300RQDV	150kg / 300kg	610mm × 610mm	30419618
D150RTDV	60kg / 150kg	800mm × 600mm	30419622
D300RTDV	150kg / 300kg	800mm × 600mm	30419623
D600RTDV	300kg / 600kg	800mm × 600mm	30419624

DEFENDER™3000 Bases

The best platform for basic industrial needs

Construction

304-grade stainless steel platform, powder-coated steel tubular frame, aluminum load cell



EasyConnect



This tough industrial scale features a 304-stainless steel platform, powder-coated steel tubular frame and column, IP65 aluminum load cell.

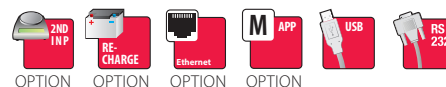
Capacities from 15 kg to 600 kg, with platforms from 305 × 355 mm to 600 × 800 mm.

Default resolution up to 7,500d; OIML approved to 3,000e for legal-for-trade performance.

Model	Capacity	Platform	Item N°
i-D15B1R EZ	15kg	305mm × 355mm	30648440
i-D30B1R EZ	30kg	305mm × 355mm	30683679
i-D60B1R EZ	60kg	305mm × 355mm	30683680
i-D60B1L EZ	60kg	420mm × 550mm	30683684
i-D150B1L EZ	150kg	420mm × 550mm	30683685
i-D150B1X EZ	150kg	500mm × 650mm	30683688
i-D300B1X EZ	300kg	500mm × 650mm	30683689
i-D300B1V EZ	300kg	600mm × 800mm	30683692
i-D600B1V EZ	600kg	600mm × 800mm	30683693

RANGER™7000

Simplifying even the most complex industrial applications



Application

Weighing, parts counting, percent weighing, check weighing, dynamic weighing (display hold), filling, formulation, differential weighing, density weighing

Display

Full-colour WQVGA graphic display (4.3 in./10.9 cm diagonal); 4.3" TFT Graphic LCD

Operation

AC Power adapter (included) or rechargeable battery (available as an accessory); 100 240 VAC / 50/60 Hz universal power supply

Communication

Easy access communication ports including standard USB and RS232 and an optional third port of either RS232 or Ethernet, GLP/GMP Data Output with Real Time Clock, Data Transfer Function.

Construction

Stainless steel platform, die cast housing, column (available as an accessory)

Design Features

Removable stainless steel platform, check weighing lights with selectable operation and audible signal settings, integral weigh below hook, sealed front panel, menu lock switch, level indicator, adjustable leveling feet, several selectable operating languages, selectable environmental and auto-print settings, stability indicator, overload/underload indicators, selectable brightness settings, auto-dim, auto-sleep, auto tare, chain tare



Simplify complex applications and minimize the need for manual calculations with 10 advanced application modes, peripheral device control and an optional kit for a second scale platform.

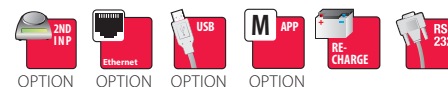
The most precise scale in its class with one-second stabilization time, up to 75,000d or 350,000d display resolution and legal-for-trade certifications.

Extremely durable scale designed to thrive in rugged industrial environments. Features IP54-rated metal housing and sealed metal terminal.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
R71MD3-EU			3kg	0.05g		280mm x 280mm	3kg, OIML F2 or ASTM CL 4	30088844
R71MD6-EU			6kg	0.1g		280mm x 280mm	6kg, OIML F2 or ASTM CL 4	30088845
R71MD15-EU			15kg	0.2g		377mm x 311mm	15kg, OIML F2 or ASTM CL 4	30088846
R71MD35-EU			35kg	0.5g		377mm x 311mm	35kg, OIML F2 or ASTM CL 4	30088847
R71MD60-EU			60kg	1g		377mm x 311mm	60kg, OIML F2 or ASTM CL 4	30212874
R71MHD3-EU		•	3kg	0.01g		210mm x 210mm	3kg, OIML F2 or ASTM CL 4	30088832
R71MHD6-EU		•	6kg	0.02g		210mm x 210mm	6kg, OIML F2 or ASTM CL 4	30088833
R71MHD15-EU		•	15kg	0.1g		377mm x 311mm	15kg, OIML F2 or ASTM CL 4	30088834
R71MHD35-EU		•	35kg	0.1g		377mm x 311mm	35kg, OIML F2 or ASTM CL 4	30088835
R71MHD3-EU-M	•	•	3kg		0.1g	210mm x 210mm	3kg, OIML F2 or ASTM CL 4	30104929
R71MHD6-EU-M	•	•	6kg		0.2g	210mm x 210mm	6kg, OIML F2 or ASTM CL 4	30104940
R71MHD15-EU-M	•	•	15kg		1g	377mm x 311mm	15kg, OIML F2 or ASTM CL 4	30104941
R71MHD35-EU-M	•	•	35kg		1g	377mm x 311mm	35kg, OIML F2 or ASTM CL 4	30104942
R71MD3-EU-M	•		3kg		0.5g	280mm x 280mm	3kg, OIML F2 or ASTM CL 4	30104921
R71MD6-EU-M	•		6kg		1g	280mm x 280mm	6kg, OIML F2 or ASTM CL 4	30104922
R71MD15-EU-M	•		15kg		2g	377mm x 311mm	15kg, OIML F2 or ASTM CL 4	30104923
R71MD35-EU-M	•		35kg		5g	377mm x 311mm	35kg, OIML F2 or ASTM CL 4	30104924
R71MD60-EU-M	•		60kg		10g	377mm x 311mm	60kg, OIML F2 or ASTM CL 4	30238583

RANGER™ 4000

The best value for durable industrial weighing



Application

Weighing, parts counting, check weighing, percent weighing, animal/dynamic weighing, display hold, accumulation

Display

Light-emitting diode display (LED), 3 colour check weighing LEDs

Operation

AC power (included) or rechargeable battery (included)

Communication

Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

Rugged cast aluminum housing, stainless steel platform

Design Features

Cast aluminum housing, stainless steel platform, integral weigh-below hook, sealed front panel, menu lock switch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare



Sturdy metal housing and slip-resistant rubber feet provide the protection, stability and long product life needed for tough industrial weighing.

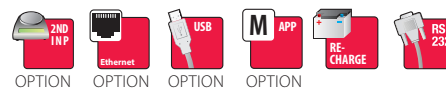
The most user-friendly scale on the market features Smart Text™ for easy operation and setup to ensure efficiency in the workplace.

With the largest display in its class, checkweighing LED indicators and backlit LCD display, the Ranger 4000 can function in almost any industrial environment.

Model	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
R41ME3		3kg	0,1g		300mm × 225mm	30236943
R41ME6		6kg	0,2g		300mm × 225mm	30231099
R41ME15		15kg	0,5g		300mm × 225mm	30231100
R41ME30		30kg	1g		300mm × 225mm	30231101
R41ME3-M	•	3kg		1g	300mm × 225mm	30237016
R41ME6-M	•	6kg		2g	300mm × 225mm	30237017
R41ME15-M	•	15kg		5g	300mm × 225mm	30237018
R41ME30-M	•	30kg		10g	300mm × 225mm	30237019

RANGER™ 4000 COUNT

The Best Value for Durable Industrial Counting



Application

Weighing, parts counting with auto optimization, check weighing, accumulation

Display

3 window backlit liquid crystal display (LCD), 3 colour check weighing LEDs

Operation

AC power (included) or rechargeable battery (included)

Communication

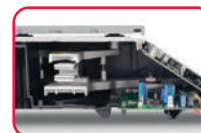
Easy access communication port including standard RS232 (included) and second RS232, USB or Ethernet (accessories sold separately)

Construction

Rugged cast aluminum housing, stainless steel platform

Design Features

Cast aluminum housing, stainless steel platform, sealed front panel, menu lock switch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare



Sturdy metal housing and slip-resistant rubber feet provide the protection, stability and long product life needed for tough industrial weighing.

Accurate weighing and counting performance is assured with 1:1,500,000 internal counting resolution and auto-optimization software that reduces errors.

Easy-to-operate with SmarText™ software, a centrally located count display and dedicated Sample and Tare keys.

Model	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
RC41M3		3kg	0,1g		300mm x 225mm	30231102
RC41M6		6kg	0,2g		300mm x 225mm	30231103
RC41M15		15kg	0,5g		300mm x 225mm	30231104
RC41M30		30kg	1g		300mm x 225mm	30231105
RC41M3-M	•	3kg		1g	300mm x 225mm	30237020
RC41M6-M	•	6kg		2g	300mm x 225mm	30237021
RC41M15-M	•	15kg		5g	300mm x 225mm	30237022
RC41M30-M	•	30kg		10g	300mm x 225mm	30237023

RANGER™3000

The Best Compact Scale in its Class!



Application

Weighing, parts counting, check weighing, percentage weighing, dynamic weighing, display hold, accumulation

Display

Backlit liquid crystal display (LCD), 3 color checkweighing LEDs

Operation

AC power (included) or rechargeable battery (included)

Communication

Easy access communication ports including a standard RS232 and an optional second port of either RS232, USB or Ethernet

Construction

ABS housing, stainless steel platform

Design Features

210 hours of battery life, 3 LED (yellow, green, red) check weighing lights with selectable operation and audible signal settings, integral weigh-below hook, transportation handle, sealed front panel, menu lockswitch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, auto tare



With the largest display in its class, checkweighing LED indicators and backlit LCD display, the Ranger 3000 can function in any industrial environment.

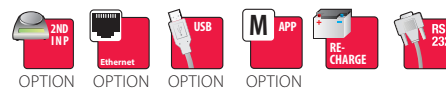
User-friendly scale with easy setup to ensure efficiency in the workplace.

Eliminate waiting time and increase control of your operation with accurate one-second results.

Model	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
R31P1502		1.5kg	0.05g		225mm × 300mm	30031702
R31P3		3kg	0.1g		225mm × 300mm	30031703
R31P6		6kg	0.2g		225mm × 300mm	30031704
R31P15		15kg	0.5g		225mm × 300mm	30031705
R31P30		30kg	1g		225mm × 300mm	30031706
R31P1502-M	•	1.5kg		0.5g	225mm × 300mm	30060902
R31P3-M	•	3kg		1g	225mm × 300mm	30060903
R31P6-M	•	6kg		2g	225mm × 300mm	30060904
R31P15-M	•	15kg		5g	225mm × 300mm	30060905
R31P30-M	•	30kg		10g	225mm × 300mm	30060906

RANGER™ 3000 COUNT

The Best Compact Counting Scale in its Class!



Application

Weighing, parts counting with auto optimization, check weighing, accumulation

Display

3 window backlit liquid crystal display (LCD), 3 color checkweighing LEDs

Operation

AC power (included) or rechargeable battery (included)

Communication

Easy access communication ports including a standard RS232 and an optional second port of either RS232, USB or Ethernet

Construction

ABS housing, stainless steel platform

Design Features

30 item library (stores 12-digit part numbers, average piece weights, check counting or check weighing parameters, tare weights and accumulated weights or counts), 210 hours of battery life, 3 LED (yellow, green, red) check weighing lights with selectable operation and audible signal settings, auto tare, transportation handle, numeric keypad, sealed front panel, menu lockswitch, up front level indicator, adjustable leveling feet, selectable environmental and auto-print settings, stability indicator, overload and underload indicators, low battery indicator, auto shut-off, optional 2nd scale input



Accurate weighing and counting are assured with a high-resolution display, 30-item library function, and auto-optimization software that reduces errors.

Easy to use in multi-step counting operations. Features three backlit LCD displays, including a centrally located count display, and an easy-to-navigate menu.

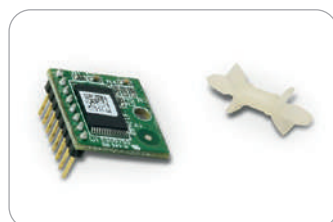
Eliminate waiting time and increase control of your operation with accurate one-second results.

Model	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
RC31P1502		1.5kg	0.05g		225mm x 300mm	30031782
RC31P3		3kg	0.1g		225mm x 300mm	30031783
RC31P6		6kg	0.2g		225mm x 300mm	30031784
RC31P15		15kg	0.5g		225mm x 300mm	30031785
RC31P30		30kg	1g		225mm x 300mm	30031786
RC31P1502-M	•	1.5kg		0.5g	225mm x 300mm	30060907
RC31P3-M	•	3kg		1g	225mm x 300mm	30060908
RC31P6-M	•	6kg		2g	225mm x 300mm	30060909
RC31P15-M	•	15kg		5g	225mm x 300mm	30060910
RC31P30-M	•	30kg		10g	225mm x 300mm	30060911

RANGER™ Accessories

Accessories	Ranger™7000	Ranger™4000	Ranger™Count 4000	Ranger™3000	Ranger™Count 3000	Item N°
PCBA Kit, Alibi Memory	•					80500503
Ethernet Kit	•	•	•	•	•	30037447
Second RS232 Kit	•	•	•	•	•	30037448
2nd platform kit, R71	•					30097590
In-use cover, R71	•					30135320
Discrete I/O Kit, 2-In 4-Out, R71	•					30097591
Rechargeable Battery, EX-HiCap R71	•					30041295
Column Kit, Painted, 400mm, R71	•					30095408
Cable, Extension, 9 m, R71	•					30101495
Light Tower, R-Y-G, IP65, 243 mm, 24VDC (Re-quires 30097591)	•					30424021
Cable, RS232, 1.5m, to connect a reference balance *1	•					30057595
2nd Platform, Kit		•	•		•	30037446
USB Kit		•	•	•	•	30037449
In-Use Cover 5 pcs		•	•			30656205
In-Use Cover 5 pcs				•	•	30656204
Weigh below hook					•	30037450
Carrying Case		•	•	•	•	30795772
Bluetooth impact printer SF40A/BT	•					30944359

1 Reference Balance automatically accepts higher-precision APW data from a scale through the included RRS232 port



PCBA KIT, ALIBI MEMORY
80500503



ETHERNET KIT
30037447



SECOND RS232 KIT
30037448



2ND PLATFORM KIT, R71
30097590



IN-USE COVER, R71
30135320



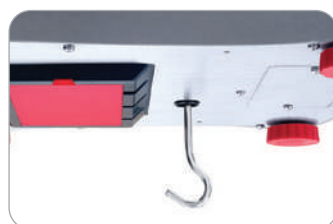
DISCRETE I/O KIT, 2-IN 4-OUT, R71
30097591



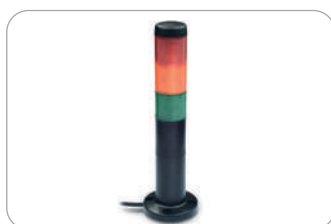
RECHARGEABLE BATTERY, EX-HICAP R71
30041295



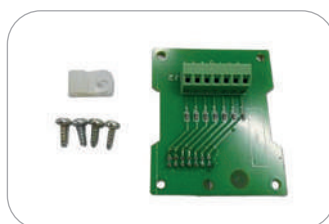
COLUMN KIT, PAINTED, 400MM, R71
30095408



WEIGH BELOW HOOK
30037450



LIGHT TOWER
30424021



2ND PLATFORM, KIT
30037446



USB KIT
30037449



IN-USE COVER 5 PCS
30656205



IN-USE COVER 5 PCS
30656204

VALOR™7000

The Best Compact Food Scale in its Class!



Application

Weighing, check weighing, percentage weighing, accumulation

Display

Front and rear liquid crystal display (lcd) with backlight

Operation

AC power (included) or rechargeable battery (included)

Communication

Easy access communication ports including a standard RS232 and an optional second port of either RS232, USB or Ethernet

Construction

ABS housing, stainless steel platform

Design Features

Rechargeable battery (200 hours of battery life), 3 LED (yellow, green, red) check weighing lights with selectable operation and audible signal settings, touchless sensor, transportation handle, sealed front panel, menu lockswitch, up front level indicator, adjustable levelling feet and bubble



Food-safe Valor 7000 is NSF-certified, USDA-AMS accepted, and supports HACCP-certified systems -- suitable for food applications in dry areas.

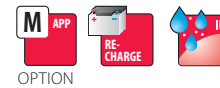
Large displays with backlight allow for easy viewing of results. Easy access communication ports for fast and useful data transfer and storage.

Valor 7000 produces repeatable and accurate results within less than one second to virtually eliminate your wait time and improve productivity.

Model	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
V71P1502T		1.5kg	0.05g		225mm x 300mm	30031822
V71P3T		3kg	0.1g		225mm x 300mm	30031823
V71P6T		6kg	0.2g		225mm x 300mm	30031824
V71P15T		15kg	0.5g		225mm x 300mm	30031825
V71P30T		30kg	1g		225mm x 300mm	30031826
V71P1502T-M	•	1.5kg		0.5g	225mm x 300mm	30060912
V71P3T-M	•	3kg		1g	225mm x 300mm	30060913
V71P6T-M	•	6kg		2g	225mm x 300mm	30060914
V71P15T-M	•	15kg		5g	225mm x 300mm	30060915
V71P30T-M	•	30kg		10g	225mm x 300mm	30060916

VALOR™ 4000

Water proof IP68 table top scale with OIML approval and touchless sensor designed for wet food processing environment



Application

Weighing, percentage weighing, check weighing, accumulation

Display

Large dual red led display: 0.8 inch/20.5 mm height characters

Operation

AC adapter (included) or rechargeable battery (included)

Construction

V41PW: ABS housing with stainless steel platform; V41XW: stainless steel platform and housing

Design Features

Less than 0.5s stabilization time, easy-to-transport, power jack auto-closed design, level bubble, fixed weighing pan, overload and underload indicators, low battery indicator, AC adapter, rechargeable battery, touchless sensor for tare function.



Food-safe Valor 4000 is NSF-certified, USDA-AMS accepted, and supports HACCP-certified systems, making it suitable demanding food processing applications.

Increase productivity with its touchless Tare sensor, half-second stabilization time, checkweighing mode and LEDs, and percent weighing mode.

Unique knife-resistant keypad and IP68 protection ensures durability and safe operation in wet conditions.

Models with plastic housing

Models	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
V41PWE1501T		1.5kg	0.2g		242mm × 190mm	30072307
V41PWE3T		3kg	0.5g		242mm × 190mm	30072308
V41PWE6T		6kg	1g		242mm × 190mm	30072309
V41PWE15T		15kg	2g		242mm × 190mm	30072310
V41PWE1501T-M	•	1.5kg		0.5g	242mm × 190mm	30035653
V41PWE3T-M	•	3kg		1g	242mm × 190mm	30035654
V41PWE6T-M	•	6kg		2g	242mm × 190mm	30035655
V41PWE15T-M	•	15kg		5g	242mm × 190mm	30035656

Models with stainless steel housing

Models	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
V41XWE1501T		1.5kg	0.2g		242mm × 190mm	30072311
V41XWE3T		3kg	0.5g		242mm × 190mm	30072312
V41XWE6T		6kg	1g		242mm × 190mm	30072313
V41XWE15T		15kg	2g		242mm × 190mm	30072314
V41XWE1501T-M	•	1.5kg		0.5g	242mm × 190mm	30035663
V41XWE3T-M	•	3kg		1g	242mm × 190mm	30035664
V41XWE6T-M	•	6kg		2g	242mm × 190mm	30035665
V41XWE15T-M	•	15kg		5g	242mm × 190mm	30035666

Approved models need reverification once 300 × 225 mm stainless steel platforms is installed.

VALOR™3000

Full stainless steel portable scale



OPTION

Application

Weighing (5 units), percentage weighing, specific gravity

Display

LCD with white LED backlight

Operation

AC adapter (included) or 4 C batteries (not included)

Construction

Stainless steel housing and stainless steel pan

Design Features

Adjustable levelling feet and bubble (only for XW models), load cell lock, user adjustable filtering and optional food accessories



High resolution models.

IP65 models.

Food safety certification (NSF) and supports an HACCP compliant quality system.

Model	IP Dust and Water Protected	Capacity	Readability (d)	Platform	Item N°
V31XH202		200g	0.01g	Ø 120mm	71210129
V31XH402		400g	0.01g	Ø 120mm	72240776
V31X501		500g	0.1g	Ø 120mm	72240398
V31XH2		2kg	0.1g	158mm×146mm	71210130
V31X3		3kg	1g	158mm×146mm	71210131
V31XH4		4kg	0.1g	158mm×146mm	72240399
V31X6		6kg	1g	158mm×146mm	71210132
V31XW301	•	300g	0.1g	158mm×146mm	71210133
V31XW3	•	3kg	0.5g	158mm×146mm	71210134
V31XW6	•	6kg	1g	158mm×146mm	71210135

VALOR™2000

A rapid-response food scale that enhances productivity in harsh environments!

Application

V22PW: weighing; V22XW: weighing, check weighing

Display

Large dual red LED display: 20.5 mm height characters

Operation

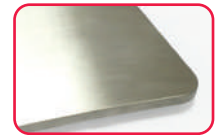
AC adapter (included) or rechargeable battery (included)

Construction

V22PW: ABS housing with stainless steel platform; V22XW: stainless steel platform and housing

Design Features

Less than 0.5s stabilization time, easy-to-transport, power jack auto-closed design, level bubble, fixed weighing pan, overload and underload indicators, low battery indicator, AC adapter, rechargeable battery



The sturdy polycarbonate keypad offers protection from knives and other sharp instruments used in food preparation, processing and portioning applications.

A unique IPX8 flow-thru design ensures that the NSF-certified Valor 2000 will drain moisture in the scale when used in wet conditions.

Stabilization time is less than a half-second. Large front and rear LED displays allow for easy viewing so two operators can share one scale.

Models with plastic housing

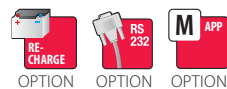
Models	Capacity	Readability (d)	Platform	Item N°
V22PWE1501T	1.5kg	0.2g	242mm × 190mm	30072346
V22PWE3T	3kg	0.5g	242mm × 190mm	30072347
V22PWE6T	6kg	1g	242mm × 190mm	30072315
V22PWE15T	15kg	2g	242mm × 190mm	30072316
V22PWE30T	30kg	5g	242mm × 190mm	30236101

Models with stainless steel housing

Models	Capacity	Readability (d)	Platform	Item N°
V22XWE1501T	1.5kg	0.2g	242mm × 190mm	30072348
V22XWE3T	3kg	0.5g	242mm × 190mm	30072349
V22XWE6T	6kg	1g	242mm × 190mm	30072317
V22XWE15T	15kg	2g	242mm × 190mm	30072318
V22XWE30T	30kg	5g	242mm × 190mm	30236102

VALOR™1000

Reliable Food-Safe Scale for Dry Environments



Application

Weighing

Display

LCD with white backlight (dual display rear/front only on approved models)

Operation

D-cell alkaline battery (included) or power adapter (optional), rechargeable battery (available as an accessory)

Construction

ABS housing, stainless steel pan, carry handles

Design Features

Integrated level bubble and adjustable feet, selectable weighing units



APPROVED MODELS REAR VIEW



Easy-Clean, Hygienic Design.

Low Power Consumption Design Promotes Continuous Use.

Easy Two-Button Operation.

Models	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
V12P3		3kg	0.5g		245mm × 190mm	30539394
V12P6		6kg	1g		245mm × 190mm	30539395
V12P15		15kg	2g		245mm × 190mm	30539396
V12P30		30kg	5g		245mm × 190mm	30539397
V12P3T-M	•	3kg		1g	245mm × 190mm	30554438
V12P6T-M	•	6kg		2g	245mm × 190mm	30554439
V12P15T-M	•	15kg		5g	245mm × 190mm	30554440
V12P30T-M	•	30kg		10g	245mm × 190mm	30554441

VALOR™ Accessories

Accessories	Valor™7000	Valor™4000	Valor™3000	Valor™2000	Valor™ 1000	Item N°
In-Use Cover for V71	•					30037445
Ethernet Kit	•					30037447
2nd RS232 Kit	•					30037448
USB Kit	•					30037449
Weigh below hook	•					30037450
In-Use Cover for V71, 10pcs	•					30037469
Stainless Steel Platform, 300×225 mm, Valor 4000, Valor 2000		•		•		30251753
Stainless steel sandwich pan Valor 3000			•			80251147
S/Steel French fries holder Valor 3000			•			80251148
S/Steel ice cream cone holder Valor 3000			•			80251149
Carrying Case, Hard Shell Valor 3000			•			80251216
Stainless Steel platform, 300×225 mm, EU-UK Power Plug					•	30559107
Universal adapter for Valor 1000 (Right-Angled), Plug set (46001779) NOT included					•	46001779
Rechargeable Battery Kit V12P					•	46001812
In-use Cover (1)					•	30559104
In-use Cover (10)					•	30559105
RS232 Interface, 1.5m cable (for approved models)					•	30559106
Mildew Proof Feet for V22, V41		•		•		30559103
						30572905



IN-USE COVER FOR V71
30037445



ETHERNET KIT
30037447



2ND RS232 KIT
30037448



USB KIT
30037449



WEIGH BELOW HOOK
30037450



IN-USE COVER FOR V71, 10PCS
30037469



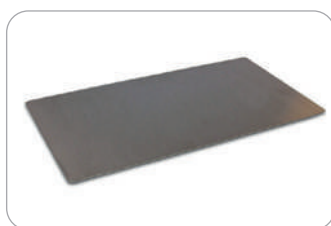
MILDEW PROOF FEET FOR V22, V41
30572905



IN-USE COVER (10)
30559106



STAINLESS STEEL PLATFORM
30251753



STAINLESS STEEL SANDWICH PAN
80251147



S/STEEL FRENCH FRIES HOLDER
80251148



S/STEEL ICE CREAM CONE HOLDER
80251149



CARRYING CASE, HARD SHELL
80251216



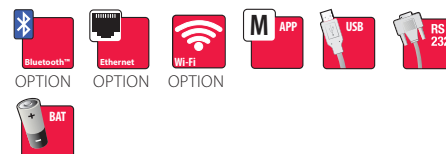
STAINLESS STEEL PLATFORM
30559107



IN-USE COVER (1)
30559105

COURIER™7000

Precise Standard Scales for Dedicated Shipping Applications



Application

Weighing, Dynamic Weighing/Display Hold, Weight Alert, Totalization

Display

6-digit, 7-segment LCD display with white backlight, 28 mm high digits

Operation

Standard AC adapter with USB type C cable detachable (included) or 4 AA batteries (not included)

Communication

Easy access communication ports including standard RS232 and USB type C. Ethernet or 2nd RS232 or WiFi/Bluetooth (available as accessories sold separately)

Construction

ABS indicator, 304-stainless steel platform, powder-coated frame, aluminum load cell, non-slip adjustable rubber feet

Design Features

150% overload protection



Designed to withstand constant use from offices to distribution centers. Fast setup with connection to shipping systems like UPS & FedEx. "GeoCode" application for local calibration adjustment.

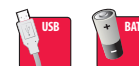
Display Hold retains weight data and presents it on a large, easily accessible backlit display. Its Weight Alert mode alerts users to packages that may be too heavy in relation to defined values.

Courier 7000 can run on USB type-C or disposable battery power. Optional Ethernet, second RS232, Bluetooth/WiFi, remote display, ball top and roller top for material handling efficiency are available.

Models	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Item N°
i-C71M15R EU		15kg	2g		305mm × 355mm	30745957
i-C71M60R EU		60kg	10g		305mm × 355mm	30745958
i-C71M60L EU		60kg	10g		457mm × 457mm	30745959
i-C71M150L EU		150kg	20g		457mm × 457mm	30745960
i-C71M150X EU		150kg	20g		610mm × 610mm	30745961
i-C71M15R-M	•	15kg		5g	305mm × 355mm	30745962
i-C71M60R-M	•	60kg		20g	305mm × 355mm	30745963
i-C71M60L-M	•	60kg		20g	457mm × 457mm	30745964
i-C71M150L-M	•	150kg		50g	457mm × 457mm	30745965
i-C71M150X-M	•	150kg		50g	610mm × 610mm	30745966

COURIER™ 5000

Low-Profile Scales Ideal for General Shipping and Animal Weighing Applications



Application

Weighing, Dynamic Weighing/Display Hold, Weight Alert, Totalization

Display

5-digit, 7-segment LCD display with white backlight, 28 mm high digits

Operation

Standard AC adapter or USB type C cable (included) or 3 AA Batteries (not Included)

Communication

Standard USB type C

Construction

ABS indicator, 304 stainless steel platform, powder coated frame

Design Features

150% overload protection



Easy-to-use scales for general shipping use with painted steel base. Stainless steel pan holds up to daily use and is easy to keep sanitary. Adjustable display for mounting to adapt to your workspace.

The Dynamic Weighing/Display Hold application is ideal for large boxes and packages as it retains weight data on the display - also ideal for animals in veterinary use.

AC adapter power included. Simple USB type C for data and power connection – includes UPS software protocol string. Can also run using disposable battery power.

Models	Capacity	Readability (d)	Platform	Item N°
i-C52M6R EU	6kg	2g	329mm × 319mm	30745890
i-C52M15R EU	15kg	5g	329mm × 319mm	30951010
i-C52M30R EU	30kg	10g	329mm × 319mm	30745891
i-C52M50R EU	50kg	20g	329mm × 319mm	30745892
i-C52M50L EU	50kg	20g	520mm × 400mm	30745893
i-C52M100L EU	100kg	50g	520mm × 400mm	30745894
i-C52M200L EU	200kg	100g	520mm × 400mm	30745895
i-C52M200X EU	200kg	100g	900mm × 600mm	30745896

COURIER™3000

User-Friendly Basic Low-Profile Scales for General Shipping and Veterinary Applications

Application

Weighing, Display Hold

Display

4-digit, 7-segment LCD display with white backlight, 1.1 in./28 mm high digits

Operation

AC Adapter (included) or 3 AA Batteries (not included)

Construction

ABS indicator, powder-coated steel platform and frame

Design Features

150% overload protection



Ideal for general shipping jobs or veterinary applications. Low-profile design with 1.5 mm thick painted steel platform to last rigorous daily use. Coiled cable ensures flexible display mounting.

The Courier 3000's Display Hold mode (for use with large boxes and packages) retains weight on the large 28 mm high backlit display, until cleared.

AC adapter power included, and disposable battery power (not included) for portable use.

Model	Capacity	Readability (d)	Platform	Item N°
i-C31M35R EU	35kg	20g	329mm×319mm	30809911
i-C31M75R EU	75kg	50g	329mm×319mm	30809912
i-C31M200R EU	200kg	100g	329mm×319mm	30809913
i-C31M75L EU	75kg	50g	520mm×400mm	30809914
i-C31M200L EU	200kg	100g	520mm×400mm	30809915

COURIER™ I000

Compact Portable Shipping Scales for General Shipping Applications

Application

Weighing, Dynamic Weighing

Display

4-digit, 7-Segment LCD, 20 mm high digits

Operation

AC adapter (included) or 3 C (LR14) batteries (not included)

Construction

ABS housing and platform, stainless steel platform (accessory sold separately), transportation handles

Design Features

150% overload protection



Its ultra-compact ABS plastic design combines light weight and durability. Courier scales are exceptionally easy to transport thanks to their integrated handles.

Large 20 mm high display works with Dynamic Weighing mode to store data & ensure it is easily accessible when weighing packages and is also ideal for weighing small animals in veterinary use.

Battery powered (not included) for use in the office or shop. AC adapter power included.

Model	Capacity	Readability (d)	Platform	Item N°
i-C12P9 EU	9kg	5g	280mm × 316mm	30820352
i-C12P20 EU	20kg	10g	280mm × 316mm	30820353
i-C12P75 EU	75kg	50g	280mm × 316mm	30820354

COURIER™ Accessories

Accessories	Courier™7000	Courier™5000	Courier™3000	Courier™1000	Item N°
2 nd RS232 Kit i-C71	•				30745880
Ethernet Kit i-C71	•				30745882
Wi-Fi / Bluetooth Kit i-C71	•				30745881
Remote Display AD7-MD	•				30472063
Ball Top i-C71 305x355 mm *	•				30819625
Ball Top i-C71 458x458 mm *	•				30819627
Ball Top i-C71 611x611 mm *	•				30819648
Roller Top i-C71 305x355 mm *	•				30819626
Roller Top i-C71 458x458 mm *	•				30819649
Roller Top i-C71 611x611 mm *	•				30819650
Remote Column Kit 330 mm Painted Steel	•	•			30800931
Remote Column Kit 980 mm Painted Steel	•	•			30795819
Cable RS232 IBM 9P Male-to-Female	•				80500525
SF40A Printer	•				30064202
SF-110B Printer	•				30708371
Spiral cable connection base to indicator 9m max i-C51 i-C31		•	•		30809920
Rubber Mat Kit Antiskid for x-base		•			30548975
Stainless Steel Weighing Pan				•	80251248

* Approved models must be recalibrated once ball top or roller top installed



2 ND RS232 KIT I-C71
30745880



ETHERNET KIT I-C71
30745882



WI-FI / BLUETOOTH KIT I-C71
30745881



REMOTE DISPLAY AD7-MD
30472063



SF40A PRINTER
30064202



SF-110B PRINTER
30708371



CABLE RS232 IBM 9P MALE-TO-FEMALE
80500525



REMOTE COLUMN KIT PAINTED STEEL
30800931



BALL TOP I-C71
30819625



ROLLER TOP I-C71
30819626



SPIRAL CABLE, I-C52 I-C31
30809920



STAINLESS STEEL WEIGHING PAN
80251248

DEFENDER™5000 Lift Platforms

Stainless Steel Lift Floor Platform for Hygienic Applications



Hygienic design allows for quick and easy washdown cleaning in sanitary applications. Lifting the front handles tilts the entire scale up providing complete access to the floor and underside of the scale.

Platforms are equipped with a 5 m double-shielded EasyConnect™ cable, which allows instant configuration with Defender 3000 (i-DT33), Defender 5000 (TD52) or Defender 6000 (i-DT61) indicators for quick installation.

Platform is available in 2 different models with 1000 × 1000 mm and 1250 × 1250 mm sizes and capacities of 600 to 1500 kg, allowing greater flexibility to best suit your weighing needs.

Model	Capacity	Platform	Item N°
DFL600WR EU	600kg	1000mm × 1000mm × 45mm	30540665
DFL1500WL EU	1500kg	1250mm × 1250mm × 45mm	30540666

DEFENDER™5000 Low Profile Floor Platforms

Low Profile Floor Platform for Drive-thru Applications



Ultra-low profile painted steel or stainless steel solution for weighing drums and carts by loading and driving over the platform. 35 mm height for the 600 kg models and 45 mm for the 1500 kg models.

Platforms are equipped with a 5 m double-shielded EasyConnect™ cable, which allows instant configuration with Defender 3000 (i-DT33), Defender 5000 (TD52) or Defender 6000 (i-DT61) indicators for quick installation.

Platform is available in 4 different models with 1000 × 1000 mm and 1250 × 1250 mm sizes and capacities of 600 to 1500 kg, allowing greater flexibility to best suit your weighing needs.

Model	Stainless Steel	Painted Steel	Capacity	Platform	Item N°
DFD600HR EU		•	600kg	1000mm × 1000mm × 35mm	30540661
DFD1500HL EU		•	1500kg	1250mm × 1250mm × 45mm	30540662
DFD600WR EU	•		600kg	1000mm × 1000mm × 35mm	30540663
DFD1500WL EU	•		1500kg	1250mm × 1250mm × 45mm	30540664

DF 5000 SERIES Stainless Steel Floor Scale Platforms

High quality stainless steel platform with structural bracing

Design Features

Platforms are equipped with a 5 m double-shielded EasyConnect™ cable, which allows instant configuration with Defender 3000 (i-DT33), Defender 5000 (TD52) or Defender 6000 (i-DT61) indicators for quick installation



Structural channel bracing for durability.

IP68 stainless steel load cells.

Pit mounting possibility.

Model	Capacity	Platform	Item N°
DF300G1S	300kg	800mm × 800mm × 90mm	30515665
DF600G1S	600kg	800mm × 800mm × 90mm	30515666
DF300G1R	300kg	1000mm × 1000mm × 90mm	30515667
DF600G1R	600kg	1000mm × 1000mm × 90mm	30515668
DF1500G1R	1500kg	1000mm × 1000mm × 90mm	30515669
DF600G1LX	600kg	1500mm × 1250mm × 90mm	30515670
DF1500G1LX	1500kg	1500mm × 1250mm × 90mm	30515671
DF3000G1LX	3000kg	1500mm × 1250mm × 90mm	30515672
DF600G1X	600kg	1500mm × 1500mm × 90mm	30515673
DF1500G1X	1500kg	1500mm × 1500mm × 90mm	30515674
DF3000G1X	3000kg	1500mm × 1500mm × 90mm	30515675

DF 5000 SERIES Floor Scale Platforms

High quality painted steel platform

Design Features

Platforms are equipped with a 5 m double-shielded EasyConnect™ cable, which allows instant configuration with Defender 3000 (i-DT33), Defender 5000 (TD52) or Defender 6000 (i-DT61) indicators for quick installation



Structural channel bracing for durability.

Pit mounting possibility.

IP68 stainless steel load cells.

Model	Capacity	Platform	Item N°
DF300F1S	300kg	800mm × 800mm × 90mm	30515562
DF600F1S	600kg	800mm × 800mm × 90mm	30515563
DF300F1R	300kg	1000mm × 1000mm × 90mm	30515564
DF600F1R	600kg	1000mm × 1000mm × 90mm	30515565
DF1500F1R	1500kg	1000mm × 1000mm × 90mm	30515566
DF600F1LX	600kg	1500mm × 1250mm × 90mm	30515567
DF1500F1LX	1500kg	1500mm × 1250mm × 90mm	30515568
DF3000F1LX	3000kg	1500mm × 1250mm × 90mm	30515569
DF600F1X	600kg	1500mm × 1500mm × 90mm	30515560
DF1500F1X	1500kg	1500mm × 1500mm × 90mm	30515561
DF3000F1X	3000kg	1500mm × 1500mm × 90mm	30515562
DF1500F1XV	1500kg	2000mm × 1500mm × 90mm	30515563
DF3000F1XV	3000kg	2000mm × 1500mm × 90mm	30515564

DF 3000 SERIES Floor Scale Platforms (i-DF)

Platforms for Basic Industrial Applications

Construction

i-DFxxC - 5mm fixed top plate, 304-grade stainless steel platform, IP65 stainless steel junction box with side access, 4×IP67 OIML R60 stainless steel load cells, available stainless steel ramp

i-DFxxB - 5mm fixed top plate, black treaded painted steel platform, IP65 stainless steel junction box with side access, 4×IP67 OIML R60 alloy steel load cells, two carbon steel eye bolts, available painted steel ramp

Design Features

125% overload protection, four load cell mounted feet with self-swiveling ball-in-cup design, painted and stainless steel floor stands (available as accessories)



OPTION



Available in a painted carbon steel, raised treaded surface or a 304 stainless steel, sand-blasted flat surface – both with a fixed top plate of 5 mm thickness. Both versions feature structural bracing that ensures a stiff and solid construction.

Install easily with EasyConnect™ – Platforms are equipped with a 5 m EasyConnect™ cable, which allows instant configuration with Defender indicators for quick installation.

OIML R60 approved Load Cells – equipped with four IP67 alloy steel or stainless steel load cells with self-swiveling ball-in-cup design feet to best suit your weighing needs.

Model	Stainless	Steel	Capacity	Platform	Item N°
i-DF600C1R	•		600kg	1000mm × 1000mm × 90mm	30613550
i-DF1500C1R	•		1500kg	1000mm × 1000mm × 90mm	30613551
i-DF1500C1RL	•		1500kg	1000mm × 1250mm × 90mm	30786250
i-DF1500C1L	•		1500kg	1250mm × 1250mm × 90mm	30613554
i-DF3000C1RL	•		3000kg	1000mm × 1250mm × 90mm	30786251
i-DF3000C1L	•		3000kg	1250mm × 1250mm × 90mm	30613555
i-DF1500C1LX	•		1500kg	1250mm × 1500mm × 90mm	30786254
i-DF1500C1X	•		1500kg	1500mm × 1500mm × 90mm	30613558
i-DF3000C1LX	•		3000kg	1250mm × 1500mm × 90mm	30786255
i-DF3000C1X	•		3000kg	1500mm × 1500mm × 90mm	30613559
i-DF600B1R		•	600kg	1000mm × 1000mm × 90mm	30613548
i-DF1500B1R		•	1500kg	1000mm × 1000mm × 90mm	30613549
i-DF1500B1RL		•	1500kg	1000mm × 1250mm × 90mm	30786248
i-DF1500B1L		•	1500kg	1250mm × 1250mm × 90mm	30613552
i-DF3000B1RL		•	3000kg	1000mm × 1250mm × 90mm	30786249
i-DF3000B1L		•	3000kg	1250mm × 1250mm × 90mm	30613553
i-DF1500B1LX		•	1500kg	1250mm × 1500mm × 90mm	30786252
i-DF1500B1X		•	1500kg	1500mm × 1500mm × 90mm	30613556
i-DF3000B1LX		•	3000kg	1250mm × 1500mm × 90mm	30786253
i-DF3000B1X		•	3000kg	1500mm × 1500mm × 90mm	30613557

DF 2500 SERIES Floor Scale Platforms

AVAILABLE IN Q1 2025



Model	Capacity	Platform	Item N°
i-DF1500F1S	1500kg	800mm × 800mm	30945706
i-DF1500F1R	1500kg	1000mm × 1000mm	30945707
i-DF1500F1L	1500kg	1200mm × 1200mm	30945738
i-DF3000F1L	3000kg	1200mm × 1200mm	30945739
i-DF1500F1LX	1500kg	1200mm × 1500mm	30945740
i-DF3000F1LX	3000kg	1200mm × 1500mm	30945741
i-DF1500F1X	1500kg	1500mm × 1500mm	30945742
i-DF3000F1X	3000kg	1500mm × 1500mm	30945743

Accessories for Floor Scale Platforms

Accessories	DFLxx	DFDxx	DFxxG1	DFxxF1	i-DF	DFxxB	Item N°
Ramp, DFL SS 1000 mm	•						30542186
Ramp, DFL SS 1250 mm	•						30542187
Stop Bar, DFD DFL SS 1000 mm	•	•					30550093
Stop Bar, DFD DFL SS 1250 mm	•	•					30550094
Floor column kit, Painted 980 mm	•	•	•	•	•	•	30531244
Floor column kit, stainless steel 980 mm	•	•	•	•	•	•	30539553
Ramp, DFD CS 1000 mm		•					30478876
Ramp, DFD CS 1250 mm		•					30571736
Ramp, DFD SS 1000 mm		•					30478885
Ramp, DFD SS 1250 mm		•					30571737
Stop Bar, DFD CS 1000 mm		•					30550089
Stop Bar, DFD CS 1250 mm		•					30550090
Foot Plate, Set(2), Painted, DF-B			•				72225239
Ramp, DF Stainless Steel G1 800 mm			•				22015473
Ramp, DF Stainless Steel G1 1000 mm			•				22015474
Ramp, DF Stainless Steel G1 1250 mm			•				22015475
Ramp, DF Stainless Steel G1 1500 mm			•				22015476
Pit Frame, DF Stainless Steel G1S			•				22015493
Pit Frame, DF Stainless Steel G1R			•				22015494
Pit Frame, DF Stainless Steel G1LX			•				22015495
Pit Frame, DF Stainless Steel G1X			•				22015496
Footplates, DF Stainless Steel G1 Set (2)			•				22015581
Pit Frame, DF Painted F1S				•			22015392
Pit Frame, DF Painted F1R				•			22015393
Pit Frame, DF Painted F1LX				•			22015394
Pit Frame, DF Painted F1X				•			22015396
Pit Frame, DF Painted F1XV				•			22015397
Ramp, DF Painted F1 800 mm				•			22015464
Ramp, DF Painted F1 1000 mm				•			22015465
Ramp, DF Painted F1 1250 mm				•			22015466
Ramp, DF Painted F1 1500 mm				•			22015467
Footplates, DF Painted F1 Set (2)				•			22015499
Ramp, Painted DF-B1 1000mm					•		72198338
Ramp, Painted DF-B1 1250mm					•		72198339
Ramp, Painted DF-B1 1500mm					•		72198340
Ramp, Stainless Steel DF-C1 1000mm					•		72198341
Ramp, Stainless Steel DF-C1 1250mm					•		72198342
Ramp, Stainless Steel DF-C1 1500mm					•		72198343
Foot plate kit, Painted DF-B1					•		72198344
Foot plate kit, Stainless Steel DF-C1					•		72198345
Ramp, 800 mm DF						•	80252722
Ramp, 1000 mm DF						•	80252723
Ramp, 1200 mm DF						•	80252724
Ramp, 1500 mm DF						•	80252725
Pit frame, 800 mm for DF						•	83033708
Pit frame, 1000 mm for DF						•	83033709
Pit frame, 1200 mm for DF						•	83033710
Pit frame, 1200 mm x 1500 mm for DF						•	83033714
Pit frame, 1500 mm for DF						•	83033711
LC Extension Cable, 3.5 m *1	•	•	•	•	•		30803566

1 Cannot be used for legal-for-trade applications



RAMP DFL SS 1000 MM
30542186



FLOOR COLUMN KIT, PAINTED 980 MM
30531244



RAMP, DFD CS 1000 MM
30478876



RAMP DF STAINLESS STEEL G1 800 MM
22015473

DFP SERIES Stainless Steel and Steel Pallet Platforms



OPTION

Prime German quality stainless steel pallet platform

Design Features

Platforms are equipped with a 5 m double-shielded EasyConnect™ cable, which allows instant configuration with Defender 3000 (i-DT33), Defender 5000 (TD52) or Defender 6000 (i-DT61) indicators for quick installation



The U-frame provides easy on and off loading of open-bottom pallets and containers, reducing risk of injury and over-exertion.

Four IP68 electro-polished stainless steel load cells that are laser-weld hermetically sealed and OIML approved are standard on all models.

Structural channel bracing and pendulum design feet with removable rubber cap.

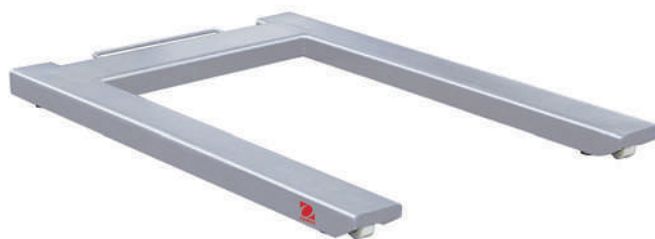
Model	IP Dust and Water Protected	Stainless Steel	Painted Steel	Capacity	Platform	Item N°
DFP600K1	•	•		600kg	1256mm x 840mm	30515680
DFP1500K1	•	•		1500kg	1256mm x 840mm	30515681
DFP600J1			•	600kg	1256mm x 840mm	30515678
DFP1500J1			•	1500kg	1256mm x 840mm	30515679

DF 3000 SERIES Stainless Steel and Steel Pallet Platforms



OPTION

Platforms for Basic Industrial Applications



Defender Series Pallet Platforms are available in the popular 1 500 kg capacity as painted carbon steel or 304 stainless steel models with a handle and rollers for convenient lifting and relocation.

Install easily with EasyConnect™ – Platforms are equipped with a 5 m EasyConnect™ cable, which allows instant configuration with Defender indicators for quick installation.

OIML R60 approved Load Cells – equipped with four IP67 alloy steel or stainless steel load cells with self-swiveling ball-in-cup design feet to best suit your weighing needs.

Model	Stainless	Steel	Capacity	Platform	Item N°
i-DFP1500C1	•		1500kg	1260mm x 840mm x 90mm	30700618
i-DFP1500B1		•	1500kg	1260mm x 840mm x 90mm	30700557

OIML E1 WEIGHTS

Wire shape, stainless steel

Model	Item N°
Weight 1 mg, OIML E1 Wire	30517704
Weight 2 mg, OIML E1 Wire	30517705
Weight 5 mg, OIML E1 Wire	30517706
Weight 10 mg, OIML E1 Wire	30517707
Weight 20 mg, OIML E1 Wire	30517958
Weight 50 mg, OIML E1 Wire	30517959
Weight 100 mg, OIML E1 Wire	30517960
Weight 200 mg, OIML E1 Wire	30517961
Weight 500 mg, OIML E1 Wire	30517962

With Accredited Certificate

Item N°
30517963
30517964
30517965
30517966
30517967
30517968
30517969
30517970
30517971



OIML E1 WEIGHTS

Cylindrical shape, Troemner Alloy 8

Model	Item N°
Weight 1 g, OIML E1	30517972
Weight 2 g, OIML E1	30517973
Weight 5 g, OIML E1	30517974
Weight 10 g, OIML E1	30517975
Weight 20 g, OIML E1	30517976
Weight 50 g, OIML E1	30517977
Weight 100 g, OIML E1	30517978
Weight 200 g, OIML E1	30517979
Weight 500 g, OIML E1	30517980
Weight 1 kg, OIML E1	30517981
Weight 2 kg, OIML E1	30517982
Weight 5 kg, OIML E1	30517983
Weight 10 kg, OIML E1	30517984
Weight 20 kg, OIML E1	30517985

With Accredited Certificate

Item N°
30390941
30390940
30390939
30390938
30390937
30390936
30390935
30390934
30390933
30390932
30390931
30390930
30390929
30390928



OIML E1 WEIGHTS SETS

Flat polygonal sheet, Troemner Alloy 8, stainless steel, aluminum

Model	Item N°
Weight Set (12), 500 mg-1 mg, OIML E1	30517987
Weight Set (20), 50 g-1 mg, OIML E1	30517988
Weight Set (21), 100 g-1 mg, OIML E1	30517989
Weight Set (23), 2x200 g-1 mg, OIML E1	30517990
Weight Set (24), 500 g-1 mg, OIML E1	30517991
Weight Set (25), 1 kg-1 mg, OIML E1	30517992
Weight Set (27), 2x2 kg-1 mg, OIML E1	30517993
Weight Set (28), 5 kg-1 mg, OIML E1	30517994
Weight Set (29), 10 kg-1 mg, OIML E1	30517995
Weight Set (8), 50 g-1 g, OIML E1	30517996
Weight Set (9), 100 g-1 g, OIML E1	30517997
Weight Set (11), 2x200 g-1 g, OIML E1	30517998
Weight Set (12), 500 g-1 g, OIML E1	30517999
Weight Set (13), 1 kg-1 g, OIML E1	30518000
Weight Set (15), 2x2 kg-1 g, OIML E1	30518001
Weight Set (16), 5 kg-1 g, OIML E1	30518002
Weight Set (17), 10 kg-1 g, OIML E1	30518003

With Accredited Certificate

Item N°
30390926
30390924
30390922
30390040
30390918
30390916
30390038
30390912
30390909
30390923
30390921
30390039
30390917
30390915
30390037
30390911
30390908



All weights come with a plastic case.

Weights and weight sets with NVLAP (Lab Code 105013-0) certificates: In order to get a personalized certificate please contact our Sales Support Center on receipt of your order and provide the calibration certificate number

WEIGHT SET COMPOSITION - CLASS E1

Item N°	Accredited Certificate	1 mg	2 mg*	5 mg	10 mg	20 mg*	50 mg	100 mg	200 mg*	500 mg	1 g	2 g*	5 g	10 g	20 g*	50 g	100 g	200 g*	500 g	1 kg	2 kg*	5 kg	10 kg
30517987		.	.	.	.	.	.	.	.	.													
30517988		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.							
30517989		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.						
30517990		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.					
30517991		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.				
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30517993		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
30517994		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30517995		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30517996											.	.	.	.	.	.	.	.	.	.	.	.	.
30517997											.	.	.	.	.	.	.	.	.	.	.	.	.
30517998											.	.	.	.	.	.	.	.	.	.	.	.	.
30517999											.	.	.	.	.	.	.	.	.	.	.	.	.
30518000											.	.	.	.	.	.	.	.	.	.	.	.	.
30518001											.	.	.	.	.	.	.	.	.	.	.	.	.
30518002											.	.	.	.	.	.	.	.	.	.	.	.	.
30518003											.	.	.	.	.	.	.	.	.	.	.	.	.
30390926	.	.	.	.	.	.	.	.	.	.													
30390924	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30390922	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30390040	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30390918	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30390916	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30390038	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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30390909	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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30390921	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390039	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390917	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390915	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390037	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390911	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390908	.										.	.	.	.	.	.	.	.	.	.	.	.	.

*Weight set contains two weights of this value

All weights come with a master carrying case.

- Sets where the largest weight is under 1 kg come with a brush and forceps.
- Sets where the largest weight is 1 kg – 5 kg come with brush, lifters and forceps.
- Weight sets where the largest weight is 10 kg and above are supplied with a Complete Accessory Kit which includes a microfibre cloth, nylon glove, small and wide brushes, and forceps.
- Weight and weight sets with NVLAP (Lab Code 105013-0) certificates: In order to get personalized certificate, please contact Sales Support Center.

The National Voluntary Laboratory Accreditation Program (NVLAP) provides third-party accreditation to testing and calibration laboratories in response to legislative actions or requests from government agencies or private-sector organizations. NVLAP-accredited laboratories are assessed against the management and technical requirements published in the International Standard, ISO/IEC 17025:2017. NVLAP has obtained approval from the International Laboratory Accreditation Cooperation (ILAC) for the use of the ILAC MRA Mark. For further details as well as list of member organizations please visit <https://ilac.org/>.

OIML E2 WEIGHTS

Flat polygonal sheet, aluminium, stainless steel

Model	Item N°
Weight 1 mg, OIML E2	30518004
Weight 2 mg, OIML E2	30518005
Weight 5 mg, OIML E2	30518006
Weight 10 mg, OIML E2	30518007
Weight 20 mg, OIML E2	30518008
Weight 50 mg, OIML E2	30518009
Weight 100 mg, OIML E2	30518010
Weight 200 mg, OIML E2	30518011
Weight 500 mg, OIML E2	30518012

With Accredited Certificate

Item N°
80780284
80780285
80780286
80780287
80780288
80780289
80780290
80780291
80780292



OIML E2 WEIGHTS

Cylindrical shape, Troemner Alloy 8

Model	Item N°
Weight 1 g, OIML E2	30518013
Weight 2 g, OIML E2	30518014
Weight 5 g, OIML E2	30518015
Weight 10 g, OIML E2	30518016
Weight 20 g, OIML E2	30518017
Weight 50 g, OIML E2	30518018
Weight 100 g, OIML E2	30518019
Weight 200 g, OIML E2	30518020
Weight 500 g, OIML E2	30518021
Weight 1 kg, OIML E2	30518022
Weight 2 kg, OIML E2	30518023
Weight 5 kg, OIML E2	30518024
Weight 10 kg, OIML E2	30518025
Weight 20 kg, OIML E2	30518026

With Accredited Certificate

Item N°
80780293
80780294
80780295
80780296
80780297
80780298
80780299
80780300
80780301
80780302
80780303
80780304
80780305
80780306



OIML E2 WEIGHTS SETS

Cylindrical shape, flat polygonal sheet Troemner Alloy 8, stainless steel, aluminum

Model	Item N°
Weight Set (12), 500 mg-1 mg, OIML E2	30518028
Weight Set (20), 50 g-1 mg, OIML E2	30518029
Weight Set (21), 100 g-1 mg, OIML E2	30518030
Weight Set (23), 2x200 g-1 mg, OIML E2	30518031
Weight Set (24), 500 g-1 mg, OIML E2	30518032
Weight Set (25), 1 kg-1 mg, OIML E2	30518033
Weight Set (27), 2x2 kg-1 mg, OIML E2	30518034
Weight Set (28), 5 kg-1 mg, OIML E2	30518035
Weight Set (8), 50 g-1 g, OIML E2	30518036
Weight Set (9), 100 g-1 g, OIML E2	30518037
Weight Set (11), 2x200 g-1 g, OIML E2	30518038
Weight Set (12), 500 g-1 g, OIML E2	30518039
Weight Set (13), 1 kg-1 g, OIML E2	30518040
Weight Set (15), 2x2 kg-1 g, OIML E2	30518041
Weight Set (16), 5 kg-1 g, OIML E2	30518042

With Accredited Certificate

Item N°
80780381
80780383
80780385
80780387
80780391
80780393
80780395
80780399
80780384
80780386
80780388
80780392
80780394
80780396
80780400



All weights come with a plastic case.

Weights and weight sets with NVLAP (Lab Code 105013-0) certificates: In order to get a personalized certificate please contact our Sales Support Center on receipt of your order and provide the calibration certificate number

WEIGHT SET COMPOSITION - CLASS E2

Item N°	Accredited Certificate	1 mg	2 mg*	5 mg	10 mg	20 mg*	50 mg	100 mg	200 mg*	500 mg	1 g	2 g*	5 g	10 g	20 g*	50 g	100 g	200 g*	500 g	1 kg	2 kg*	5 kg	10 kg
30518028		.	.	.	.	.	.	.	.	.													
30518029		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.							
30518030		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.						
30518031		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.					
30518032		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.				
30518033		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
30518034		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
30518035		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30518036											.	.	.	.	.	.	.	.	.	.	.	.	.
30518037											.	.	.	.	.	.	.	.	.	.	.	.	.
30518038											.	.	.	.	.	.	.	.	.	.	.	.	.
30518039											.	.	.	.	.	.	.	.	.	.	.	.	.
30518040											.	.	.	.	.	.	.	.	.	.	.	.	.
30518041											.	.	.	.	.	.	.	.	.	.	.	.	.
30518042											.	.	.	.	.	.	.	.	.	.	.	.	.
80780381	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
80780383	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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80780387	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
80780391	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
80780393	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
80780395	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
80780399	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
80780384	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780386	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780388	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780392	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780394	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780396	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780400	.										.	.	.	.	.	.	.	.	.	.	.	.	.

*Weight set contains two weights of this value

All weights come with a master carrying case.

- Sets where the largest weight is under 1 kg come with a brush and forceps.
- Sets where the largest weight is 1 kg – 5 kg come with brush, lifters and forceps.
- Weight sets where the largest weight is 10 kg and above are supplied with a Complete Accessory Kit which includes a microfibre cloth, nylon glove, small and wide brushes, and forceps.
- Weight and weight sets with NVLAP (Lab Code 105013-0) certificates: In order to get personalized certificate, please contact Sales Support Center.

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OIML F1 WEIGHTS

Flat polygonal sheet, aluminium, stainless steel

Model	Item N°
Weight, 1 mg, OIML F1	80780307
Weight, 2 mg, OIML F1	80780308
Weight, 5 mg, OIML F1	80780309
Weight, 10 mg, OIML F1	80780310
Weight, 20 mg, OIML F1	80780311
Weight, 50 mg, OIML F1	80780312
Weight, 100 mg, OIML F1	80780313
Weight, 200 mg, OIML F1	80780314
Weight, 500 mg, OIML F1	80780315

With Accredited Certificate

Item N°
80780331
80780332
80780333
80780334
80780335
80780336
80780337
80780338
80780339



OIML F1 WEIGHTS

Cylindrical shape, Troemner Alloy 8, stainless steel

Model	Item N°
Weight, 1 g, OIML F1	80780316
Weight, 2 g, OIML F1	80780317
Weight, 5 g, OIML F1	80780318
Weight, 10 g, OIML F1	80780319
Weight, 20 g, OIML F1	80780320
Weight, 50 g, OIML F1	80780321
Weight, 100 g, OIML F1	80780322
Weight, 200 g, OIML F1	80780323
Weight, 500 g, OIML F1	80780324
Weight, 1 kg, OIML F1	80780325
Weight, 2 kg, OIML F1	80780326
Weight, 5 kg, OIML F1	80780327
Weight, 10 kg, OIML F1	80780328
Weight, 20 kg, OIML F1	80780329

With Accredited Certificate

Item N°
80780340
80780341
80780342
80780343
80780344
80780345
80780346
80780347
80780348
80780349
80780350
80780351
80780352
80780353



OIML F1 WEIGHTS SETS

Cylindrical shape, flat polygonal sheet Troemner Alloy 8, stainless steel, aluminum

Model	Item N°
Weight Set (12), 500 mg-1 mg, OIML F1	80780408
Weight Set (20), 50 g-1 mg, OIML F1	80780410
Weight Set (21), 100 g-1 mg, OIML F1	80780412
Weight Set (23), 2x200 g-1 mg, OIML F1	80780414
Weight Set (24), 500 g-1 mg, OIML F1	80780418
Weight Set (25), 1 kg-1 mg, OIML F1	80780420
Weight Set (27), 2x2 kg-1 mg, OIML F1	80780422
Weight Set (28), 5 kg-1 mg, OIML F1	80780426
Weight Set (8), 50 g-1 g, OIML F1	80780411
Weight Set (9), 100 g-1 g, OIML F1	80780413
Weight Set (11), 2x200 g-1 g, OIML F1	80780415
Weight Set (12), 500 g-1 g, OIML F1	80780419
Weight Set (13), 1 kg-1 g, OIML F1	80780421
Weight Set (15), 2x2 kg-1 g, OIML F1	80780423
Weight Set (16), 5 kg-1 g, OIML F1	80780427

With Accredited Certificate

Item N°
80780435
80780437
80780439
80780441
80780445
80780447
80780449
80780453
80780438
80780440
80780442
80780446
80780448
80780450
80780454



All weights come with a plastic case.

Weights and weight sets with NVLAP (Lab Code 105013-0) certificates: In order to get a personalized certificate please contact our Sales Support Center on receipt of your order and provide the calibration certificate number

WEIGHT SET COMPOSITION - CLASS F1

Item N°	Accredited Certificate	1 mg	2 mg*	5 mg	10 mg	20 mg*	50 mg	100 mg	200 mg*	500 mg	1 g	2 g*	5 g	10 g	20 g*	50 g	100 g	200 g*	500 g	1 kg	2 kg*	5 kg	10 kg
80780408		.	.	.	.	.	.	.	.	.													
80780410		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.							
80780412		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.						
80780414		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.					
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80780413											.	.	.	.	.	.	.	.	.	.	.	.	.
80780415											.	.	.	.	.	.	.	.	.	.	.	.	.
80780419											.	.	.	.	.	.	.	.	.	.	.	.	.
80780421											.	.	.	.	.	.	.	.	.	.	.	.	.
80780423											.	.	.	.	.	.	.	.	.	.	.	.	.
80780427											.	.	.	.	.	.	.	.	.	.	.	.	.
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80780438	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780440	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780442	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780446	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780448	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780450	.										.	.	.	.	.	.	.	.	.	.	.	.	.
80780454	.										.	.	.	.	.	.	.	.	.	.	.	.	.

*Weight set contains two weights of this value.

All weights come with a master carrying case.

- Sets where the largest weight is under 1 kg come with a brush and forceps.
- Sets where the largest weight is 1 kg – 5 kg come with brush, lifters and forceps.
- Weight sets where the largest weight is 10 kg and above are supplied with a Complete Accessory Kit which includes a microfibre cloth, nylon glove, small and wide brushes, and forceps.
- Weight and weight sets with NVLAP (Lab Code 105013-0) certificates: In order to get personalized certificate, please contact Sales Support Center.

The National Voluntary Laboratory Accreditation Program (NVLAP) provides third-party accreditation to testing and calibration laboratories in response to legislative actions or requests from government agencies or private-sector organizations. NVLAP-accredited laboratories are assessed against the management and technical requirements published in the International Standard, ISO/IEC 17025:2017. NVLAP has obtained approval from the International Laboratory Accreditation Cooperation (ILAC) for the use of the ILAC MRA Mark. For further details as well as list of member organizations please visit <https://ilac.org/>.

OIML F2 WEIGHTS

Flat polygonal sheet, aluminium, stainless steel

Model	Item N°
Weight, 1 mg, OIML F2	30390876
Weight, 2 mg, OIML F2	30390875
Weight, 5 mg, OIML F2	30390874
Weight, 10 mg, OIML F2	30390873
Weight, 20 mg, OIML F2	30390872
Weight, 50 mg, OIML F2	30390871
Weight, 100 mg, OIML F2	30390870
Weight, 200 mg, OIML F2	30390869
Weight, 500 mg, OIML F2	30390868

With Accredited Certificate

Item N°
30390900
30390899
30390898
30390897
30390896
30390895
30390894
30390893
30390892



OIML F2 WEIGHTS

Cylindrical shape, Troemner Alloy 8, stainless steel

Model	Item N°
Weight, 1 g, OIML F2	30390867
Weight, 2 g, OIML F2	30390866
Weight, 5 g, OIML F2	30390865
Weight, 10 g, OIML F2	30390864
Weight, 20 g, OIML F2	30390863
Weight, 50 g, OIML F2	30390862
Weight, 100 g, OIML F2	30390861
Weight, 200 g, OIML F2	30390860
Weight, 500 g, OIML F2	30390859
Weight, 1 kg, OIML F2	30390858
Weight, 2 kg, OIML F2	30390857
Weight, 5 kg, OIML F2	30390856
Weight, 10 kg, OIML F2	30390855
Weight, 20 kg, OIML F2	30390854

With Accredited Certificate

Item N°
30390891
30390890
30390889
30390888
30390887
30390886
30390885
30390884
30390883
30390882
30390881
30390880
30390879
30390878



OIML F2 WEIGHTS SETS

Cylindrical shape, flat polygonal sheet Troemner Alloy 8, Stainless Steel, Aluminum

Model	Item N°
Weight Set (12), 500 mg-1 mg, OIML F2	30390829
Weight Set (20), 50 g-1 mg, OIML F2	30390827
Weight Set (21), 100 g-1 mg, OIML F2	30390825
Weight Set (23), 2x200 g-1 mg, OIML F2	30390032
Weight Set (24), 500 g-1 mg, OIML F2	30390821
Weight Set (25), 1 kg-1 mg, OIML F2	30390819
Weight Set (27), 2x2 kg-1 mg, OIML F2	30390030
Weight Set (28), 5 kg-1 mg, OIML F2	30390815
Weight Set (8), 50 g-1 g, OIML F2	30390826
Weight Set (9), 100 g-1 g, OIML F2	30390824
Weight Set (11), 2x200 g-1 g, OIML F2	30390031
Weight Set (12), 500 g-1 g, OIML F2	30390820
Weight Set (13), 1 kg-1 g, OIML F2	30390818
Weight Set (15), 2x2 kg-1 g, OIML F2	30390029
Weight Set (16), 5 kg-1 g, OIML F2	30390814

With Accredited Certificate

Item N°
30390852
30390850
30390848
30390036
30390844
30390842
30390034
30390838
30390849
30390847
30390035
30390843
30390841
30390033
30390837



All weights come with a plastic case.

Weights and weight sets with NVLAP (Lab Code 105013-0) certificates: In order to get a personalized certificate please contact our Sales Support Center on receipt of your order and provide the calibration certificate number

WEIGHT SET COMPOSITION - CLASS F2

Item N°	Accredited Certificate	1 mg	2 mg*	5 mg	10 mg	20 mg*	50 mg	100 mg	200 mg*	500 mg	1 g	2 g*	5 g	10 g	20 g*	50 g	100 g	200 g*	500 g	1 kg	2 kg*	5 kg	10 kg
30390829		.	.	.	.	.	.	.	.	.													
30390827		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.							
30390825		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.						
30390032		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.					
30390821		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.				
30390819		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
30390030		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
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30390824											.	.	.	.	.	.	.	.	.	.	.	.	.
30390031											.	.	.	.	.	.	.	.	.	.	.	.	.
30390820											.	.	.	.	.	.	.	.	.	.	.	.	.
30390818											.	.	.	.	.	.	.	.	.	.	.	.	.
30390029											.	.	.	.	.	.	.	.	.	.	.	.	.
30390814											.	.	.	.	.	.	.	.	.	.	.	.	.
30390852	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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30390838	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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30390847	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390035	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390843	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390841	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390033	.										.	.	.	.	.	.	.	.	.	.	.	.	.
30390837	.										.	.	.	.	.	.	.	.	.	.	.	.	.

*Weight set contains two weights of this value.

All weights come with a master carrying case.

- Sets where the largest weight is under 1 kg come with a brush and forceps.
- Sets where the largest weight is 1 kg – 5 kg come with brush, lifters and forceps.
- Weight sets where the largest weight is 10 kg and above are supplied with a Complete Accessory Kit which includes a microfibre cloth, nylon glove, small and wide brushes, and forceps.
- Weight and weight sets with NVLAP (Lab Code 105013-0) certificates: In order to get personalized certificate, please contact Sales Support Center.

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OIML M1 WEIGHTS

Stainless steel

Model	Item N°
Weight 1 g OIML M1	11117141
Weight 2 g OIML M1	11117142
Weight 5 g OIML M1	11117143
Weight 10 g OIML M1	11117144
Weight 20 g OIML M1	11117145
Weight 50 g OIML M1	11117146
Weight 100 g OIML M1	11117147
Weight 200 g OIML M1	11117148
Weight 500 g OIML M1	11117149
Weight 1 kg OIML M1	11117150
Weight 2 kg OIML M1	11117151
Weight 5 kg OIML M1	11117152
Weight 10 kg OIML M1	11117153

Iron

Model	Item N°
Rectangular weight 20 kg M1	87000007
Rectangular weight 10 kg M1	87000008
Rectangular weight 5 kg M1	87000009

OIML M3 WEIGHTS

Stainless steel

Model	Item N°
Weight 1 g OIML M3	11117206
Weight 2 g OIML M3	11117207
Weight 5 g OIML M3	11117208
Weight 10 g OIML M3	11117209
Weight 20 g OIML M3	11117210
Weight 50 g OIML M3	11117211
Weight 100 g OIML M3	11117212
Weight 200 g OIML M3	11117213
Weight 500 g OIML M3	11117214
Weight 1 kg OIML M3	11117215
Weight 2 kg OIML M3	11117216
Weight 5 kg OIML M3	11117217
Weight 10 kg OIML M3	11117218

OIML Weight sets 1 mg

Model	Item N°
M1 Weight set 1 mg - 500 mg (ALU)	87000010
M1 Weight set 1 mg - 100 g (ALU/Brass, SST)	87000011
M1 Weight set 1 mg - 200 g (ALU/Brass, SST)	87000012

OIML Weight sets 1 g

Model	Item N°
M1 Weight set 1 g - 50 g (Brass)	87000013
M1 Weight set 1 g - 500 g (SST, Brass)	87000014
M1 Weight set 1 g - 1000 g (SST, Brass)	87000015
M1 Weight set 1 g - 2000 g (SST, Brass)	87000016

With certificate

Model	Item N°
Weight OH 1 g M1AC	11117220
Weight OH 2 g M1AC	11117221
Weight OH 5 g M1AC	11117222
Weight OH 10 g M1AC	11117223
Weight OH 20 g M1AC	11117224
Weight OH 50 g M1AC	11117225
Weight OH 100 g M1AC	11117226
Weight OH 200 g M1AC	11117227
Weight OH 500 g M1AC	11117228
Weight OH 1 kg M1AC	11117229
Weight OH 2 kg M1AC	11117230
Weight OH 5 kg M1AC	11117231
Weight OH 10 kg M1AC	11117232

With certificate

Model	Item N°
Weight 1 g OIML M3	11117234
Weight 2 g OIML M3	11117235
Weight 5 g OIML M3	11117236
Weight 10 g OIML M3	11117237
Weight 20 g OIML M3	11117238
Weight 50 g OIML M3	11117239
Weight 100 g OIML M3	11117240
Weight 200 g OIML M3	11117241
Weight 500 g OIML M3	11117242
Weight 1 kg OIML M3	11117243
Weight 2 kg OIML M3	11117244
Weight 5 kg OIML M3	11117245
Weight 10 kg OIML M3	11117246

With certificate

Model	Item N°
F1 Weight set 1 mg – 500 mg	87000034

With certificate

Model	Item N°
F1 Weight set 1 g – 500 g	87000035

SF-110B

A trusted printer that supports industry compliance

Application

Direct, Weighing, Multi Weighing, Tare/Gross/Net, Statistic, Sum, Mean, Formulation, Loss Weight

Display

OLED 128×64 Dot Matrix Display

Operation

AC adapter (included)

Communication

RS232 (Included)

Construction

ABS housing

Design Features

High-speed dot matrix printing, 40 characters per line, auto tare operation directly from the printer, multi-user access control, editable header and trailer



A login password for each user fully prevents unauthorized changes to the printer settings such as date/time.

The SF-110B provides users with full functionality from the most basic printing needs to the advanced applications, including statistics, totalization, formulation, averaging and interval printing.

Additional information like Sample name/ID can be printed before each weighing that complements the report and improves data traceability.

Model	Item N°
Printer SF-110B Impact	30708371
Accessories	Item N°
Paper Roll	12120799
Ink Ribbon, Black	30529322

OHAUS Product Test With SF-110B Printer

	Direct	Weighing	Multi weighing	Statistics	Sum	Mean	Formulation	Loss Weight	Zero/Tare
EX	YES	YES	YES	YES	YES	YES	YES	YES	YES
AX	YES	YES	YES	YES	YES	YES	YES	YES	YES
PX/PR	YES	YES	YES	YES	YES	YES	YES	YES	YES
Scout STX	YES	YES	YES	YES	YES	YES	YES	YES	YES
Scout SKX	YES	YES	YES	YES	YES	YES	YES	YES	YES
Navigator	YES	NO	NO	NO	NO	NO	NO	NO	NO
MB90/120	YES*	NO	NO	NO	NO	NO	NO	NO	NO
MB23/25/27	YES	YES	YES	YES	YES	YES	YES	YES	YES
T24P	YES	NO	NO	NO	NO	NO	NO	NO	NO
i-DT33P, i-DT33XW	YES	YES	YES	YES	YES	YES	YES	YES	YES
TD52P/TD52XW	YES	YES	YES	YES	YES	YES	YES	YES	YES
i-DT61XWE	YES	YES	YES	YES	YES	YES	YES	YES	YES
T72XW	NO	NO	NO	NO	NO	NO	NO	NO	NO
R2000/RC2000	YES	YES	YES	YES	YES	YES	YES	YES	YES
R3000/RC3000	YES	YES	YES	YES	YES	YES	YES	YES	YES
R4000/RC4000	YES	YES	YES	YES	YES	YES	YES	YES	YES
R7000	YES	YES	YES	YES	YES	YES	YES	YES	YES
V12	YES	NO	NO	NO	NO	NO	NO	NO	NO
V71	YES	YES	YES	YES	YES	YES	YES	YES	YES
Catapult 5000	YES	NO	NO	NO	NO	NO	NO	NO	NO

*automatically print when the test is finished

SF40A

OHAUS value in a full-featured, portable printer.

Application

Impact Printing, Statistics, Totalization

Operation

AC adapter (included)

Communication

RS232 (included)

Construction

ABS housing

Design Features

Status indicator, 40 characters per line, compatible with continuous labelpaper, perform zero and tare operations directly from the printer



The statistics and totalization modes and real time clock complement OHAUS weighing instruments' application modes and offer functionality that assists the reporting processes.*

SF40A helps support the efficiency of the weighing and recording processes. RS232 interface and PC configuration software make setting up and using the printer fast and simple.

With the ability to print in 13 different languages, SF40A can print in the language of the connected device to support universal operation.

* compatible with most of OHAUS products

Model	Item N°
Impact printer SF40A	30064202
Accessories	Item N°
Paper rotary axis	30063920
Paper roll (57,5mm 2pcs)	12120799
Ink ribbon cassette	30529322
Adhesive Paper Rolls (3 pcs)	11600388

OHAUS Product Test With SF40A Printer

	Print	Zero/Tare	Statistics	Totalization
Adventurer AX	YES	YES	YES	YES
Explorer EX	YES	YES	YES	YES
Navigator	YES	YES	YES	YES
PR Series	YES	YES	YES	YES
Pioneer PX/PJX/PXP	YES	YES	YES	YES
Scout STX/SKX/SJX	YES	YES	YES	YES
MB23/25	YES	YES	YES	YES
MB90/120	YES	YES	YES	YES
i-DT33P	YES	NO	NO	NO
T51P	YES	YES	YES	YES
TD52	YES	YES	YES	YES
T71P	YES	YES	YES	YES
T32M	YES	NO	NO	NO

	Print	Zero/Tare	Statistics	Totalization
i-DT33XW	YES	NO	NO	NO
T51XW	YES	YES	YES	YES
T71XW	YES	YES	YES	YES
T72XW	YES	YES	YES	YES
CKW	YES	NO	NO	NO
Ranger 3000	YES	YES	YES*	YES
Ranger 4000	YES	YES	YES	YES
Ranger 7000	YES	YES	YES	YES
Valor 3000	YES	NO	NO	NO
Valor 7000	YES	YES	YES	YES

*not supported in Dynamic Mode

SF40A/BT

OHAUS Wireless Bluetooth Impact Printer



Application

Impact Printing, Statistics, Totalization

Communication

RS232 (included)

Design Features

Status indicator, 40 characters per line, perform zero and tare operations directly from the printer, 2 Bluetooth Adaptors



Secure and simple setup, with a factory paired Bluetooth adapter leading to plug-and-play integration.

With its statistics and totalization modes and clock, the SF40A/ BT ensures accurate and compliant reporting.

With the ability to print in 13 different languages, SF40A/BT can print in the language of the connected device to support universal operation.

Model	Item N°
Bluetooth impact printer SF40A/BT	30944359
Accessories	Item N°
Paper roll, 57,5mm, 2pcs (included)	12120799
Paper rotary axis (included)	30063920
Ink ribbon cassette (included)	30529322
Cable Adapter (included)	30059316
Cable Mini USB	30944363

OHAUS Product Test With SF40A/BT Printer

	Print	Zero/Tare	Statistics	Totalization
Adventurer AX	YES	YES	YES	YES
Explorer EX	YES	YES	YES	YES
Navigator**	YES	YES	YES	YES
PR Series**	YES	YES	YES	YES
Pioneer PX/PJX/PXP**	YES	YES	YES	YES
Scout STX/SKX/SJX**	YES	YES	YES	YES
MB23/25**	YES	YES	YES	YES
MB90/120	YES	YES	No	No
MB32/62/92	YES	YES	No	No
i-DT33P**	YES	NO	NO	NO
T51P**	YES	YES	YES	YES
TD52**	YES	YES	YES	YES

	Print	Zero/Tare	Statistics	Totalization
T32M**	YES	NO	NO	NO
i-DT33XW**	YES	NO	NO	NO
T72XW**	YES	YES	YES	YES
Ranger 3000**	YES	YES	YES*	YES
Ranger 4000**	YES	YES	YES	YES
Ranger 7000	YES	YES	YES	YES
Valor 7000**	YES	YES	YES	YES
D61, C71 & D25**	YES	YES	YES	YES

*not supported in Dynamic Mode

**requires additional power supply

STP103

Economical Palm-Sized Thermal Printer

Design Features

Status indicator, paper feed, graphics printing capability



- Ultra compact and features low power consumption.
- 42 column printing at a speed of approximately 11.8 lines per second.
- Simple paper loading and suspends printing when printing paper becomes low.

Model	Item N°
STP103 Thermal Printer	80251993
Accessories	Item N°
Thermal Paper Roll for STP103 Printer	80251931

PRINTER CABLES

Printer Cables	Item N°	Explorer EX	Adventurer AX	Pioneer PX	PR Series	MB120, 90, 27, 25, 23	Navigator	Scout	Defender DxxP, Defender TxxP	Defender DxxXW, Defender TDxxXW	Ranger	Valor	2nd RS232 Defender	Ranger 7000	2nd RS232 Ranger 3000, 4000	2nd RS232 Valor 7000
SF40A Printer Cable RS9 M/F	30529323	*	*	*	*	*			*		*			*	*	
SF40A Printer Cable RS9 F/Bare Wire	80500552									*			*			*
SF40A Printer Cable Adapter RS9 F/M (for Scout and Navigator adapter needed)	30059316						*	*								
STP103 Printer Cable RS9 M/F + Adapter	80252581	*	*	*	*	*			*					*	*	
STP103 Printer Cable RS9 M/Bare Wire + Adapter	80252584								*				*	*	*	*
STP103 Printer Cable Adapter RS25 M/RS 9 M (for Scout and Navigator adapter needed)	80251930						*	*								
Scout RS232 Interface Kit (Required to connect to STP103 and SF40)	30268982							*								
Navigator RS232 Interface Kit (Required to connect to STP103 and SF40)	83032107						*									
RS232 Cable for connection to Zebra printers and reference balances	30057595	*							*	*	*			*		

Items 30529323 and 30059316 are included with the SF40A printer as standard.

Please check cables compatibility with our Sales Support Center prior to placing an order

Note: Scout and Navigator require RS232 accessory for printer connection

Note: 30057595 needs one connector cutting off to connect Zebra to Defender XW

SERIAL PORT DATA COLLECTION SOFTWARE

Free of charge!



Automatic data capture.

Direct data transfer to MS Office Excel, Word, Access or text file.

Compatible with OHAUS scales and balances equipped with RS232 or Ethernet.

PC CABLES

PC Cables	Item N°	Explorer EX (Version 1 Terminal)	Explorer EX (Version 2 Terminal)	Adventurer AX	Pioneer PX	PR Series	MB90, 120	MB23, 25, 27	Navigator	Scout	Defender 2000 TxxP	Defender 3000 TxxP, TxxM	Defender 5000 TDxxP	Defender 5000 TDxxXW	Defender 5000 TDxxXW 2nd RS232	Defender 6000 TD61XW	Defender 000 TD61XW 2nd RS232	Defender 7000 T72XW	Defender 7000 T72XW 2nd RS232 (COM 2)	Valor 7000	Valor 7000 2nd RS232	Ranger 2000	Ranger 3000	Ranger 3000 2nd RS232	Ranger 4000	Ranger 4000 2nd RS232	Ranger 7000	Ranger 7000 2nd RS232
RS232 9 Pin PC Cable RS9 F/Bare Wire	80500552																											
RS232 9 Pin PC Cable RS9 M/F	410024																											
USB (Type A to B) Cable	83021085																											
USB A to Mini USB Cable	28120263																											
RS232-USB Converter	30304101																											
Scout RS232 Interface Kit (Required to connect to PC)	30268982																											
Scout USB Interface Kit (Required to connect to PC)	30268984																											
Navigator RS232 Interface Kit (Required to connect to PC)	83032107																											
Navigator USB Interface Kit (Required to connect to PC)	83032108																											

Please check cables compatibility with our Sales Support Center prior to placing an order

PIPETTE ADJUSTMENT KIT

For Explorer Semi-Micro balances

Application

Pipette Adjustment for Explorer Semi-Micro balances



Model	Item N°
Pipette adjustment kit	30252145

ION-100A Ionizer

Increasing weighing accuracy by reducing static electricity

Application

Eliminating static electricity on plastic and glass weighing vessels which are particularly prone to attracting static charges

Design Features

Fan-free technology, replaceable electrodes, adjustable angle for better alignment with the balance



Fan-free technology neutralizes static with no sample disruption.

An easily replaceable long-running motor.

A compact and versatile design.

Model	Item N°
ION-100A	30095929
Accessories	Item N°
Replacement Electrode ION-100A	30133391



Laboratory Equipment

OPEN AIR SHAKERS SELECTOR GUIDE

	Endeavor™ Orbital Shakers			Extreme Environment Shaker	High Speed Microplate Shaker
Model	e-E51LD0403	e-E51LD0420	e-E51LDMP03	SHEX1619DG	SHHSMPDG
Speed Range	100 – 800 rpm	50 – 300 rpm	100 – 1200 rpm	15 – 500 rpm	600 – 2500 rpm
Timer	Up to 99 hours 59 minutes			1 second to 160 hours	
Motion	Orbital				
Orbit	3 mm	20 mm	3 mm	19 mm	3,6 mm
Max Weight Capacity	4 kg	4 kg	4 Microplates / 2 Micro-tube Racks / 4 Deepwell Plates	16 kg	48 microplates
Audible Alarm	•	•	•	•	•
Load Sensor				•	•
Motor Type	Brushless DC Motor, Triple Eccentric				Brushless DC Motor
CO ₂ Incubator				•	
Overload Protection	•	•	•	•	•
RS232 Interface	•	•	•	•	•
Programmability	On-board programming for 8 separate, 5-step programs				
Included Tray (L × W)	30 cm × 22,2 cm	30 × 22,2 cm	28 × 19,7 cm	27,9 cm × 33,0 cm	31,1 cm × 27,9 cm
Tray / Platform Options (L × W)	Universal Platform; Adjustable Platform			27,9 cm × 33,0 cm; 33 cm × 33 cm; 45,7 cm × 45,7 cm; 45,7 cm × 61 cm; Adjustable Platform; Separatory Funnel Platform	31,1 × 27,9 cm
Page No.	114			116	119

	Heavy Duty Orbital Shakers							
Model	SHHD1619AL	SHHD1619DG	SHHD2325AL	SHHD2325DG	SHHD4525DG	SHHD4550DG	SHHD6825DG	SHHD6850DG
Speed Range	25 – 500 rpm	15 – 500 rpm	25 – 500 rpm	20 – 500 rpm	15 – 500 rpm	15 – 300 rpm	15 to 500 rpm	15 to 300 rpm
Timer	1 – 120 minutes	1 second – 160 hours	1 – 120 minutes	1 second – 160 hours				
Motion	Orbital							
Orbit	19 mm	19 mm	25 mm	25 mm	25 mm	51 mm	25 mm	51 mm
Max Weight Capacity	16 kg	16 kg	22,7 kg	22,7 kg	45,4 kg	45,4 kg	68 kg	68 kg
Audible Alarm		•		•	•	•	•	•
Load Sensor		•		•	•	•	•	•
Motor Type	Brushless DC Motor							
Overload Protection		•		•	•	•	•	•
RS232 Interface		•		•	•	•	•	•
Included Tray (L×W)	27,9 cm×33,0 cm		45,7 cm×61 cm		61×61 cm		61×91,4 cm	
Tray / Platform Options (L×W)	27,9 cm×33,0 cm; 33 cm×33 cm; 45,7 cm×45,7 cm; 45,7 cm×61 cm; Adjustable Platform Separatory Funnel Platform		45,7 cm×61 cm; 45,7 cm×76,2 cm; Adjustable Platform Large Vessel Carrier Platform		61×61 cm Large Vessel Carrier Platform		61×91,4 cm Large Vessel Carrier Platform	
Page No.	115							

	Rocking Shaker		Waving Shaker		Reciprocating Shaker
Model	SHRK04DG	SHRK07AL1	SHWV02DG	SHWV02AL	SHRC0719DG
Speed Range	1 – 50 rpm*	1 – 75 rpm*	1 – 30 rpm*	1 – 75 rpm*	20 – 300 rpm
Timer	1 second – 160 hours	1 minute – 120 minutes	1 second – 160 hours	1 minute – 120 minutes	1 second – 160 hours
Motion	Rocking		Waving		Reciprocating
Orbit	Tilt Angle: 0 – 15°		Tilt Angle: 0 – 20° *	Tilt Angle: 0 – 16°	Stroke: 19 mm
Max Weight Capacity	4,5 kg**	7,3 kg**	2,3 kg**	2,3 kg**	6,8 kg
Audible Alarm	•		•		•
Load Sensor					•
Motor Type	Stepper Motor				Brushless DC Motor
Overload Protection	•		•		•
RS232 Interface					•
Included Tray (L×W)	32,4 × 25,4 cm	35,6 × 27,9 cm	29,9 × 22,2 cm	35,6 × 27,9 cm	27,9 × 33 cm
Tray / Platform Options (L×W)	Stacking Tray				27,9 × 33 cm; 33 × 33 cm; 45,7 × 45,7 cm; 45,7 cm × 61 cm Separatory Funnel Platform
Page No.	118				117

*Maximum speed/tilt angle may vary with heavy or unbalanced loads.

**Centered on tray.

WHAT IS IN A MODEL NUMBER?

Endeavor™ 5000



e-E51LD0403 = Endeavour 5000 Light Duty Open Air Shaker with 4kg capacity, 03 mm orbit and digital controls						
Category	Family	Series	Generation	Type	Capacity	Orbit
e-	E = Endeavor	5 = 5000	1 = first	LD = Light Duty	04 = 4 kg MP = Microplates	03 = 3mm 20 = 20mm

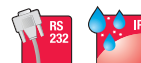
Open Air Shakers



SHHD1619DG = Heavy Duty Open Air Shaker with 16 kg capacity, 19 mm orbit and digital controls					
SH	LD	MP	03	DG	
Type	Family	Capacity	Orbit*	Front Panel Control	Tiers**
SH = Open Air Shakers	LD = Light Duty*** EX = Extreme Environment HD = Heavy Duty**** RK = Rocking WV = Waving RC = Reciprocating HS = High Speed	02 = 2 kg 04 = 4 kg 07 = 7 kg 16 = 16 kg 23 = 23 kg 45 = 45 kg 68 = 68 kg MP = Microplates	Orbit (mm): 03 = 3 mm 15 = 15 mm 19 = 19 mm 25 = 25 mm 50 = 50 mm	AL = Analog DG = Digital	1 = 1 2 = 2
*Not applicable to RK and WV families **Analog Rockers Only		***LD models can handle samples up to 3,6 kg or 4 microplates or 2 micro-tube racks ****HD models can handle heavier samples and are available from 16 up to 68 kg			

ENDEAVOR™ 5000

Digital light duty orbital shakers you can trust for everyday shaking



e-E51LD0403

Application

Microbiology, Molecular Biology, ELISA Assays, Cell Cultures, Immunoassays, Protein Studies, Bacterial and Yeast Cultures, Staining/ Destaining, Blotting Techniques, DNA Studies, Solubility Studies, Environmental and Food Sciences, Chemistry, General Mixing

Display

Bright, backlit LCD display for speed and time, timer will count up elapsed time or when set, timer will count down and shut off shaking when time reaches zero, green indicator light illuminates when unit is shaking, easy to navigate menu for advanced features

Operation

Simple knob control for timer and shaking, tray with attachment points for flask clamps, tube racks and non-slip rubber mat included, optional accessories include universal platform and over 20 flask clamps and tube racks. One model dedicated for microplates

Communication

RS232 interface provides 2-way communication for data logging and unit control

Construction

Durable chemical-resistant polymer housing, sturdy easy-to-clean aluminum standard tray with attachment points for accessories, IP21 Ingress Protection, robust triple eccentric drive for stable shaking, brushless DC motor, control knobs, on/ off switch

Design Features

Visual and audio alarm when timer counts down to zero or an error occurs, small footprint to save bench space, advanced microprocessor control slowly ramps the shaker tray up to the desired speed and avoids splashing, easy to attach optional accessory platform



e-E51LDMP03



Budget-friendly – no need to buy a separate tray. Ready to attach a wide variety of accessories to customize for low to mid volume applications.

Programmable – save time and guarantee reproducible results. Simple on-board menu to set, store and recall multi-step programs.

Data logging and control – remote function permits PC control and data transfer

Model	Orbit	Control	Maximum Weight Capacity	Speed Range	Tray Dimensions	Overall Dimensions (L×W×H)	Ship Weight	Item N°
e-E51LD0403	3 mm	Digital	4,0 kg	100–800 rpm	30×22,2 cm	420×262×119 mm	7,5 kg	30770915
e-E51LDMP03	3 mm	Digital	4 microplates	100–1200 rpm*	28×19,7 cm	420×262×119 mm	7,5 kg	30770917
e-E51LD0420	20 mm	Digital	4,0 kg	50–300 rpm	30×22,2 cm	420×262×119 mm	7,5 kg	30770916

*Microplates and deepwell plates are available with a variety of skirt styles. Depending on the skirt style the maximum speed may need to be reduced



HEAVY DUTY ORBITAL SHAKERS

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Application

Cell Cultures, Solubility Studies, Extractions, Bacteria & Yeast Cultures and Suspensions, Staining/ Destaining, Immunoassays, Protein Studies, Blotting Techniques

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously and control knobs with dial markings (analog models)

Operation

Detachable 3-wire cord and plug (included)

Communication

RS232 interface provides two-way communication for data logging and unit control (digital models)

Construction

Cold rolled steel (CRS)

Design Features

Built-in tray with a non-slip rubber mat (included)



SHHD6825DG



Ready for your lab - all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Orbit	Control	Maximum Weight Capacity	Speed Range	Tray Dimensions	Overall Dimensions (L×W×H)	Ship Weight	Item N°
SHHD1619AL	19 mm	Analog	16 kg	25–500 rpm	27,9×33 cm	413×149×355 mm	22,2 kg	30391802
SHHD1619DG	19 mm	Digital	16 kg	15–500 rpm	27,9×33 cm	414×149×355 mm	22,2 kg	30391811
SHHD2325AL	25 mm	Analog	22,7 kg	25–500 rpm	45,7×61 cm	610×149×678 mm	49,5 kg	30391837
SHHD2325DG	25 mm	Digital	22,7 kg	20–500 rpm	45,7×61 cm	610×149×678 mm	49,5 kg	30391844
SHHD4525DG	25 mm	Digital	45,4 kg	15–500 rpm	61×61 cm	729×170×678 mm	90,8 kg	30391865
SHHD4550DG	51 mm	Digital	45,4 kg	15–300 rpm	61×61 cm	729×170×678 mm	90,8 kg	30391872
SHHD6825DG	25 mm	Digital	68 kg	15–500 rpm	61×91 cm	744×170×914 mm	104,4 kg	30391879
SHHD6850DG	51 mm	Digital	68 kg	15–300 rpm	61×91 cm	744×170×914 mm	104,4 kg	30391886

EXTREME ENVIRONMENT SHAKERS

High Performance Orbital Shaker Designed to Withstand Extreme Environments Up To 100% Humidity

Application

Cell Cultures, Solubility Studies, Extraction Procedures, Bacteria & Yeast Cultures and Suspensions, Staining/Destaining, Immunoassays, Protein Studies, Blotting Techniques

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously

Operation

Detachable 3-wire cord and plug (included)

Communication

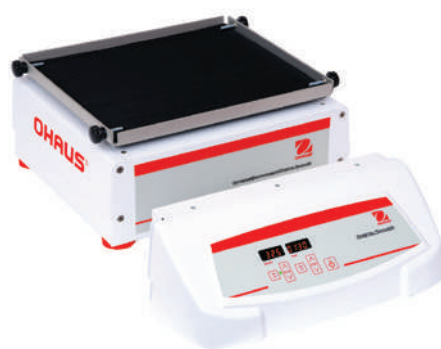
RS232 interface provides two-way communication for data logging and unit control (digital models)

Construction

Cold rolled steel (CRS) and stainless steel, external control module, thin ribbon cable (1,7 m) easily passes underneath an incubator door or via incubator's utility port

Design Features

Built-in tray (28x33 cm) with a non-slip rubber mat (included)



Defy the elements - rely on this orbital shaker's unique construction to deliver exceptional speed control, accuracy and durability under the most extreme environmental conditions.

Best in class load capacity to maximize efficiency in your incubator. Customize the Extreme Environment Shaker for your unique application with over 50 accessories.

For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The triple eccentric drive provides smooth, stable shaking motion throughout the entire speed range.

Model	Orbit	Control	Maximum Weight Capacity	Speed Range	Tray Dimensions	Dimensions (L×W×H)	Ship Weight	Item N°
SHEX1619DG	19 mm	Digital	16 kg	15 – 500 rpm	27,9×33,0 cm	Overall:	22,2 kg	30391816
						Shaker:		
						Remote:		
						15,0×35,6×11,2 cm		

RECIPROCATING SHAKER

Providing Consistent, Repeatable Reciprocating Shaking Action for a Variety of Applications

Application

Chemical Extractions, Blood Sample Mixing, Gel Staining, Cell Cultures, Solubility Studies

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously

Operation

Detachable 3-wire cord and plug (included)

Communication

RS232 interface provides two-way communication for data logging and unit control (digital models)

Construction

Cold rolled steel (CRS)

Design Features

Built-in tray (28x33 cm) with a non-slip rubber mat (included)



A flexible unit for the lab - our multi-purpose Reciprocating Shakers can be customized to fit your unique workflow needs using a wide variety of accessories.

Reciprocating motion is ideal for gentle-to-vigorous mixing of separatory funnels with the sturdy separatory funnel platform. Other optional platforms for flask clamps, media bottles and tube racks.

Designed for safety - speed ramping feature slowly increases speed to avoid splashing. Load sensor detects unbalanced conditions and automatically reduces to a safe speed to protect samples.

Model	Motion	Control	Maximum Weight Capacity	Speed Range	Tray Dimensions	Overall Dimensions (L×W×H)	Ship Weight	Item N°
SHRC0719DG	Reciprocating, 19 mm	Digital	6,8 kg	20 – 300 rpm	27,9 cm × 33 cm	41,3 × 14,9 × 35,5 cm	22,2 kg	30391830

ROCKING-WAVING SHAKERS

Reliable Rocking and Waving Shakers with Simple Adjustments for Tilt Angle and Speed

Application

Mixing Blood Samples, DNA Extractions, Blotting Techniques, Staining and Destaining Gels, Hybridizations

Display

Easy-to-read, independent LED displays for speed, tilt angle and time allow the operator to view all settings simultaneously (digital models) and basic control knobs with dial markings for speed, tilt angle and time (analog models)

Operation

Detachable 3-wire cord and plug (included)

Construction

Cast aluminium housing, non-slip rubber mat (included), stacking tray option (with all models except the analog Waver model)

Design Features

Spill-resistant design, overload protection with audio/visual alarm on digital models and audible alarm on analog models

SHWV02AL



SHWV02DG



Electronic control allows simple tilt angle and speed adjustments while the unit is still running to achieve optimal mixing

Achieve reproducible results you can trust with digital models. Precisely adjust the tilt angle in 1° increments with variable speed down to 1 rpm with intuitive touchpad controls.

Optimal speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with state-of-the-art motor and electronics.

Model	Motion	Control	Maximum Weight Capacity **	Speed Range*	Speed Accuracy	Tray Dimensions	Overall Dimensions (L×W×H)	Ship Weight	Item N°
SHRK07AL1	Rocking, 0–15°	Analog	7,3 kg	1–75 rpm	± 1 rpm	35,6×27,9 cm	42,5×14,0×27,9 cm	7 kg	30391954
SHRK07AL2	Rocking, 0–15°	Analog	7,3 kg	1–75 rpm	± 1 rpm	35,6×27,9 cm	42,5×24,1×27,9 cm	7 kg	30391961
SHRK04DG	Rocking, 0–15°	Digital	4,5 kg	1–50 rpm	± 1 rpm	32,4×25,4 cm	42,5×14,0×25,4 cm	7 kg	30391989
SHWV02AL	Waving, 0–16°	Analog	2,3 kg	1–75 rpm	± 1 rpm	35,6×27,9 cm	42,5×16,5×27,9 cm	7 kg	30391968
SHWV02DG	Waving, 0–20°	Digital	2,3 kg	1–30 rpm	± 1 rpm	29,9×22,2 cm	43,2×15,2×27,9 cm	7,3 kg	30391949

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.

** Centered on tray.

HIGH SPEED MICROPLATE SHAKER

High Speed Shaking for up to 48 Microplates

Application

Cell Lysing, Emulsifications, Mixing Microplates

Display

Independent LED displays for speed and time

Construction

Die Cast Aluminum

Communication

RS-232

Design Features

Programmable pulse feature with adjustments for pulse ON & pulse OFF between 1 & 59 seconds. Program timer to count down from set time and turn off when timer reaches zero or run in continuous mode and timer will count accumulated time until user turns it off.



Sturdy, adjustable top plate secures up to 48 microplates, 6 deep well plates or small tubes less than 12,7 cm tall up to 3,2 kg.

For difficult to mix samples or to prevent overheating samples while shaking, the Pulse Feature can be adjusted to Pulse ON and Pulse OFF between 1 and 59 second intervals.

Independent LEDs and Touchpad Control for Speed and Time allow you to accurately reproduce the exact settings every time

Model	Orbit	Control	Maximum Weight Capacity	Speed Range	Tray Dimensions	Overall Dimensions (L×W×H)	Net Weight	Item N°
SHHSMPDG	3,6 mm	Digital	48 microplates	600 – 2500 rpm	31,1 × 27,9 cm	39,4 × 32,5 × 30,5 cm	21,8 kg	30573785

INCUBATING & INCUBATING COOLING SHAKERS SELECTOR GUIDE

	Incubating Cooling Thermal Shakers		Incubating Light Duty Orbital Shaker		
Model	ISTHBLCTS(/N)	ISTHBLHTS(/N)	ISLD04HDG	ISLDMPHDG	ISLDMPHDGL
Temperature Range	17°C below ambient to 100°C	Ambient +4°C – 100°C	Ambient +5°C – 65°C		
Speed Range	300 – 3000 rpm		100 – 1200 rpm		
Timer	1 minute to 99 hours, 59 min		1 second to 160 hours		
Motion	Orbital		Orbital		
Orbit	3 mm		3 mm		
Max Weight Capacity	1 Block		3,6 kg	4 Microplates / 2 Micro-Tube Racks	
Audible Alarm	●		●		
Load Sensor	●				
Drive System	Brushless DC Motor		Triple Eccentric Drive, Brushless DC Motor		
Set-Point Retention	● Displays Last Setting		● Displays Last Setting		
Restart / Power Out	●		●		
Ramp to Speed	●		●		
Temperature Overshoot Protection	●				
Overload Protection	●		●		
Interface	USB				
Overall Dimensions (L×W×H)	26,9×13,7×26,2 cm		43,2×27,0×27,9 cm	43,2×27,9×19,7 cm	
Included Tray (L×W)			27,9×19,7 cm	27,9×19,7 cm	
Page No.	122		124		

	Incubating Cooling Light Duty Orbital Shaker	Incubating Rocking Shaker	Incubating Waving Shaker	Incubating Heavy Duty Orbital Shakers	
Model	ISICMBCDG	ISRK04HDG	ISWV02HDG	ISHD16HDG	ISHD23HDG
Temperature Range	10°C below ambient to 65°C	Ambient +5°C – 65°C	Ambient +5°C – 65°C	Ambient +5°C – 65°C;	
Speed Range	100 – 1200 rpm	1 – 50 rpm	1 – 30 rpm	15 – 500 rpm	
Timer	1 second – 160 hours	1 second – 160 hours	1 second – 160 hours	1 second – 160 hours	
Motion	Orbital	Rocking	Waving	Orbital	
Orbit	3 mm	Tilt Angle: 0 – 15° *	Tilt Angle: 0 – 20° *	19 mm	
Max Weight Capacity	2 Microplates 2 Modular Blocks	4,5 kg**	2,3 kg**	16 kg	22,7 kg
Audible Alarm	•	•		•	
Load Sensor				•	
Drive System	Triple Eccentric Drive, Brushless DC Motor	Cable, Stepper Motor		Triple Eccentric Drive, Brushless DC Motor	
Set-Point Retention	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting	
Restart / Power Out	•	•		•	
Ramp to Speed	•	•		•	
Temperature Overshoot Protection				•	
Overload Protection	•	•		•	
Interface				RS-232 Interface	
Overall Dimensions (L×W×H)	45,5×26,7×27,9 cm	43,2×26,7×27,9 cm	43,2×26,7×27,9 cm	64,8×40,6×35,6 cm	81,5×59,6×67,5 cm
Included Tray (L×W)		25,4 cm×19,7 cm	23,5 cm×18,4 cm	33×27,9 cm	45,7×45,7 cm
Page No.	126	129	129	125	

*Maximum speed/tilt angle may vary with heavy or unbalanced loads.

**Centered on tray.

WHAT IS IN A MODEL NUMBER?

Incubating & Incubating Cooling Shakers



ISTHBLHTS = Incubating Cooling Thermal Shaker with block, heats only and touch screen controls					
IS	LD	04	H	DG	
Type	Family	Capacity	Temperature Control	Front Panel Control	Opaque Lid Only
IS = Incubating Shakers	IC = Incubating/Cooling TH = Thermal Shakers HD = Heavy Duty** LD = Light Duty* RK = Rocking WV = Waving	02 = 2 kg 04 = 4 kg 16 = 16 kg 23 = 23 kg BL = Thermal Shaker Blocks MP = Microplate or Modular Blocks MP = Microplates	C = Heats & Cools H = Heat Only	DG = Digital TS = Touch Screen	L = Light Sensitive Samples
			*LD models can handle samples up to 3,6 kg or 4 microplates or 2 micro-tube racks **HD models can handle heavier samples and are available from 16 kg up to 23 kg		

INCUBATING COOLING THERMAL SHAKERS

Industry Leading Thermal Shaker with Exceptional Heating/Cooling Performance with High Speed Shaking

Application

DNA, RNA, Cell Cultures, Hybridizations, Protein Studies

Display

10,9 cm colour touchscreen Liquid Crystal Display (LCD) which can be programmed in six languages

Operation

Detachable 3-wire cord and plug (included), unit requires a block (and ISTHBLCTS units are supplied with block for 24 × 1,5 mL tubes, removable rack and cover) - compatible with Eppendorf Thermomixer® R blocks

Communication

USB port provides greater flexibility in data collection and transfer

Construction

Valox cool touch housing, removable plastic rack, cover and screwdriver for block removal (included)

Design Features

Hot top indicator, audible alarm, maximum temperature limiting function, temperature priority function, pulse/quick mix mode, temperature calibration mode, temperature ramp rate function



Best in class temperature performance. Enhanced electronics and software allow for fast and accurate temperature control you can trust. Cooling models reach temperatures down to 17°C below ambient.

Intuitive touchscreen for simple operation and programming. Set the functions and the comprehensive help screens in one of six languages to guide the user through the operation of the unit.

Easily create programs for repeat applications. Storage for five separate, 5-step programs. The USB port allows the transfer of test data to a flash drive for data logging and program storage.

Model	Orbit (mm)	Control	Maximum Weight Capacity	Speed Range (rpm)	Speed Accuracy	Temp. Range	Temp. Accuracy	Overall Dimensions (L×W×H) (cm)	Ship Weight (kg)	Item N°
ISTHBLCTS*	3	Touch	1 Thermal block	300–3000	± 2%	17°C below Ambient – 100°C	± 0,5°C between 20°C and 45°C ± 2°C below 20°C and above 45°C	26,9 × 13,7 × 26,2	5,4	30573842
ISTHBLHTS*	3	Touch	1 Thermal block	300–3000	± 2%	Ambient +4°C – 100°C	± 1°C between 20°C and 45°C ± 2°C above 45°C	26,9 × 13,7 × 26,2	5,4	30573848
ISTHBLHTS**	3	Touch	1 Thermal block	300–3000	± 2%	Ambient +4°C – 100°C	± 1°C between 20°C and 45°C ± 2°C above 45°C	26,9 × 13,7 × 26,2	5,4	30392005
ISTHBLCTS**	3	Touch	1 Thermal block	300–3000	± 2%	17°C below Ambient – 100°C	± 0,5°C between 20°C and 45°C ± 2°C below 20°C and above 45°C	26,9 × 13,7 × 26,2	5,4	30391998

* Blocks sold separately;

** 24 × 1,5 ml microtubes block (30400130), rack for 24 × 1,5 ml tube blocks (30400251) and cover for 0,5ml / 1,5ml / 2,0ml tube blocks (30400252) included.

ACCESSORIES FOR INCUBATING COOLING THERMAL SHAKERS MODULAR BLOCKS

Microplate Block

Sample Type	Well Size	Well Depth	Dimensions (L×W×H)	Item N°
Microplate Thermal Block with Lid	12,8×8,6×0,25 cm	2,30 cm	11,9×16,3×7,6 cm	30400126
Sample Type	Well Diameter	Well Depth	Dimensions (L×W×H)	Item N°
384 Well Plate Thermal Block with Lid	0,40 cm	0,81 cm	11,9×16,3×7,6 cm	30400127
0,2 ml PCR Plate Thermal Block with Lid	0,64 cm	1,27 cm	11,9×16,3×7,6 cm	30400128

Tube Blocks

Sample Type	N° of Wells	Well Diameter	Well Depth	Dimensions (L×W×H)	Item N°
0,5 ml Microtubes*	30	0,79 cm	2,46 cm	10,2×14,2×4,6 cm	30400129
1,5 ml Microtubes*	24	1,11 cm	3,53 cm	10,2×14,2×5,3 cm	30400130
2,0 ml Microtubes*	24	1,15 cm	3,53 cm	10,2×14,2×5,3 cm	30400131

* Supplied with clear rack and cover

Racks and Covers

Description	Item N°
Rack For 30×0,5 ml Tube Block	30400250
Rack For 24×1,5 / 24×2,0 ml Tube Blocks	30400251
Cover For 0,5ml/1,5ml/2,0ml Tube Blocks	30400252

Conical Tube Blocks

Sample Type	N° of Wells	Well Diameter	Well Depth	Dimensions (L×W×H)	Item N°
5 ml Eppendorf Tube Block	9	1,68 cm	4,9 cm	10,4×14,5×7,1 cm	30400134
15 ml Conical Tubes	9	1,73 cm	10,44 cm	10,7×14,7×12,7 cm	30400135
50 ml Conical Tubes	4	3,0 cm	10,09 cm	10,2×14,5×12,2 cm	30400136



30400126



30400127



30400128



30400129



30400130



30400131



30400136



30400250



30400134



30400135

INCUBATING LIGHT DUTY ORBITAL SHAKERS

Save Bench Space with Combined Incubating and Shaking Features

Application

Immunoassays, Hybridizations, Cell Cultures, Bacterial & Yeast Cultures and Suspensions, ELISA Assays, PCR, Enzyme Reactions

Display

Easy-to-read, independent LED displays for temperature, speed and time allow the operator to view all settings simultaneously

Operation

Detachable 3-wire cord and plug (included)

Construction

Cast aluminium housing with polycarbonate lid, brushless DC motor

Design Features

Spill-resistant design, overload protection, caution hot indicator



Designed to provide flexibility in your applications, these shakers with a 4 kg capacity include the ready to use tray to customize with over 10 easy-to-install accessories.

When precision is required achieve temperature accuracy with the user-controlled temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

When precision is required achieve temperature accuracy with the user-controlled temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Model	Orbit (mm)	Control	Maximum Weight Capacity	Speed Range (rpm)	Speed Accuracy	Temp. Range	Temp. Uniformity	Tray Dimensions (cm)	Dimensions (L×W×H) (cm)	Net Weight (kg)	Item N°
ISLD04HDG	3	Digital	3,6 kg	100 – 1200	± 2%	Ambient +5°C – 65°C	± 0,5°C at 37°C	27,9×19,7	Overall: 43,2×27,0×27,9 Inner: 28,7×21,1×14,5	11,1	30391919
ISLDMPHDG	3	Digital	4 Microplates or 2 Micro-tube Racks	100 – 1200	± 2%	Ambient +5°C – 65°C	± 0,5°C at 37°C	27,9×19,7	Overall: 43,2×27,9×19,7	8,9	30391933
ISLDMPHDGL	3	Digital	4 Microplates or 2 Micro-tube Racks	100 – 1200	± 2%	Ambient +5°C – 65°C	± 0,5°C at 37°C	27,9×19,7	Overall: 43,2×27,9×19,7	8,9	30391926

INCUBATING & INCUBATING COOLING SHAKERS

Save Incubator Space with Benchtop Incubating and Incubating Refrigerating Shakers

Application

Cell Cultures, Solubility Studies, Bacterial Suspensions, Extraction Procedures

Display

Independent LED displays for temperature, speed and time

Communication

RS-232 Interface

Construction

Aluminum and Cylcoloy

Design Features

Temperature calibration feature, overload protection, overshoot protection (temperature), load sensor, PID temperature controller, Triple Eccentric Drive system



ISHD16HDG



The exclusive Opti-Flow Forced Ventilation System utilizes twin induction or a single large fan. Air is deflected around & not directly on samples, creating a circular flow of air ensuring uniformity.

For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The Triple Eccentric Drive provides consistent shaking motion throughout the entire speed range.

The chambers for the ISHD23HDG units are large enough to hold 2 x 6 l Erlenmeyer flasks with optional clamps and platform.

Model	Orbit (mm)	Control	Maximum Weight Capacity	Speed Range (rpm)	Speed Accuracy	Temp. Range	Temp. Uniformity	Tray Dimensions (cm)	Dimensions (L×W×H) (cm)	Net Weight (kg)	Item N°
ISHD16HDG	19	Digital	16 kg (75 rpm), 2,3 kg (500 rpm)	15–500	Above 100 rpm ± 1%, Below 100 rpm ± 1 rpm	Ambient +5°C–65°C	± 0,5°C at 37°C	33,0×27,9	Overall: 64,8×40,6×35,6 Inner: 34,0×24,1×30,5	35,9	30573770
ISHD23HDG	25	Digital	22,7kg (125 rpm), 4,53kg (500 rpm)	15–500	Above 100 rpm ± 1%, Below 100 rpm ± 1 rpm	Ambient +5°C–65°C	± 0,5°C at 37°C	45,7×45,7	Overall: 81,5×59,6×67,5 Inner: 52,3×43,2×62,9	101,6	30573775

INCUBATING COOLING ORBITAL SHAKERS

Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples

Application

Immunoassays, Hybridizations, Cell Cultures, Bacterial & Yeast Cultures and Suspensions, ELISA Assays, PCR, Enzyme Reactions

Display

Easy-to-read, independent LED displays for temperature, speed and time allow the operator to view all settings simultaneously

Operation

Detachable 3-wire cord and plug (included)

Construction

Cast aluminium housing with polycarbonate lid, brushless DC motor

Design Features

Spill-resistant design, overload protection, caution hot indicator



Designed to provide flexibility in your applications, these shakers are microplate ready - no accessories required, and can easily accommodate modular blocks with the included block adapter.

When precision is required, achieve temperature accuracy with the unique temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Innovative temperature system allows for fast, accurate and uniform temperatures you can trust. The unique Peltier design with direct plate-to-sample contact offers precise heating and cooling.

Model	Orbit (mm)	Control	Maximum Weight Capacity	Speed Range (rpm)	Speed Accuracy	Temp. Range	Temp. Uniformity	Overall Dimensions (L×W×H) (cm)	Net Weight (kg)	Item N°
ISICMBCDG	3	Digital	2 Microplates or 2 Modular Blocks	Microplates: 100 – 1200 Modular Blocks: 100 – 600	± 2%	10°C below Ambient – 65°C	± 0,5°C at 37°C	45,5×26,7×27,9	13,4	30391940

ACCESSORIES FOR INCUBATING COOLING ORBITAL SHAKERS MODULAR BLOCKS

Modular Blocks

Modular Blocks are constructed from a solid anodized aluminium block. The close contact of tubes to block walls allow for maximum temperature transfer.

Block dimensions (L×W×H): 9,5×7,6×5,1 cm

Applications: Cell cultures, hybridizations, and extraction procedures

OHAUS modular blocks also fit in the OHAUS Dry Block Heaters.

Constructed of anodized aluminium, this material is ideal for its temperature conducting and corrosion resistant properties.

Microcentrifuge Tube Blocks

Single block

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
0,5 ml tube	30	7,9 mm	27,6 mm	30400157
1,5 ml tube	20	11,1 mm	39,1 mm	30400159
2 ml tube	20	11,5 mm	38,1 mm	30400191

Conical-Bottom Centrifuge Tube Blocks

Single block

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
15 ml tube	12	17,1 mm	44,5 mm	30400172
50 ml tube	5	29,0 mm	47,6 mm	30400168

Standard Test Tube Blocks

Single block

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
6 mm tube	30	8,3 mm	48,4 mm	30400158
10 mm tube	24	10,7 mm	48,4 mm	30400151
12/13 mm tube	20	13,9 mm	48,4 mm	30400152

Combination Blocks

Single block

Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
Test Tube Combination				
6 mm	6	8,3 mm	48,4 mm	30400156
12/13 mm	5	13,8 mm	48,4 mm	
25 mm	3	26,2 mm	48,4 mm	
Centrifuge Tube Combination				
1,5 ml	4	11,1 mm	39,1 mm	30400193
15 ml	3	17,1 mm	44,5 mm	
50 ml	2	29,0 mm	47,6 mm	
Micro-Tube Combination				
0,5 ml	6	7,9 mm	27,6 mm	30400194
1,5 ml	10	11,1 mm	39,1 mm	
2 ml	5	11,5 mm	38,1 mm	

Vial Blocks

Single block

Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
12 mm vial	20	12,7 mm	30 mm	30400182
15 mm vial	20	15,8 mm	35 mm	30400183
16 mm vial	15	16,4 mm	45 mm	30400190
17 mm vial	12	17,8 mm	45 mm	30400184
19 mm vial	12	19,7 mm	45 mm	30400185
21 mm vial	9	21,7 mm	45 mm	30400186
23 mm vial	8	23,8 mm	45 mm	30400187
25 mm vial	8	25,8 mm	45 mm	30400188
28 mm vial	6	28,8 mm	45 mm	30400189



30400157



30400159



30400191



30400172



30400168



30400158



30400151



30400152



30400156



30400193



30400194



30400182



30400183



30400190



30400184



30400185



30400186



30400187



30400188



30400189

INCUBATING ROCKING & WAVING SHAKERS

Save Incubator Space with Unique Benchtop Incubating Rocking and Waving Shakers

Application

Hybridizations, Cell Cultures, Blotting Techniques, Staining and Destaining Gels

Display

Easy-to-read, independent LED displays for temperature, speed/tilt angle and time allow the operator to view all settings simultaneously

Operation

Detachable 3-wire cord and plug (included)

Construction

Cast aluminium housing with polycarbonate lid

Design Features

Spill-resistant design, overload protection with audio/visual alarm on digital models and audible alarm on analog models, caution hot indicator



ISWW02HDG



Electronic control allows simple tilt angle, speed and temperature adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust. Precisely adjust the tilt angle in 1° increments, vary the speed by 1 rpm and set temperature in 1°C increments with intuitive touchpad controls.

Innovative speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with unique, state-of-the-art motor and electronics.

Model	Motion	Control	Maximum Weight Capacity (kg)**	Speed Range (rpm)*	Speed Accuracy (rpm)	Temp. Range	Temp. Uniformity	Dimensions (L×W×H) (cm)	Net Weight (kg)	Item N°
ISRK04HDG	Rocking, 0–15°	Digital	4,5	1–50	±1	Ambient +5°C–65°C	± 0,5°C at 37°C	Overall: 43,2×26,7×27,9 Inner: 27,3×9,7×19,7	5,7 kg	30391975
ISWW02HDG	Waving, 0–20°	Digital	2,3	1–30	±1	Ambient +5°C–65°C	± 0,5°C at 37°C	Overall: 43,2×26,7×27,9 Inner: 27,3×8,6×19,7	5,7 kg	30391982

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.

** Centered on tray

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

Universal Platforms

Allows for mounting of flask clamps, test tube racks, and bottle clamps. Platform slides over top of included tray and is tightened with adjustment screws. Optional accessories screw directly into mounting point openings. The two-tier braces allow stacking of platforms with a 25,4 cm clearance (available for select sizes). An optional non-skid rubber mat can be placed on the platform for an added non-slip surface. The platform is constructed of type 304 stainless steel.



Universal Platforms

Description	Used on Shakers	Item N°
30×22 cm Universal Platform	Endeavor™ 5000 Light Duty Shakers	30770938
27,9×33 cm Universal Platform	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400052
33×33 cm Universal Platform	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400053
45,7×45,7 cm Universal Platform*	Analog/Digital 16 kg Shakers and Reciprocating Shakers**	30400054
45,7×61 cm Universal Platform*	Analog/Digital 16 kg & 23 kg Shakers** and Reciprocating Shakers**	30400056
61×61 cm Universal Platform	Digital 45 kg Shakers	30400057
45,7×76,2 cm Universal Platform*	Analog/Digital 23 kg Shakers	30400058
61×91,4 cm Universal Platform	Digital 68 kg Shakers	30400059
46×46 cm, S/S I-IR Universal Platform	Incubating 23 kg shakers	30400055
Two-Tier Braces (set of 4)	Analog/Digital 16 kg & 23 kg Shakers	30400051

Rubber Mats

Description	Used on Shakers	Item N°
27,9×33 cm Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400060
33×33 cm Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400061
45,7×45,7 cm Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400062
45,7×61 cm Rubber Mat	Analog/Digital 16 kg Shakers, Reciprocating Shakers and Analog Digital 23kg Shakers	30400063
61×61 cm Rubber Mat	Digital 45 kg Shakers	30400064
61×91,4 cm Rubber Mat	Digital 68 kg Shakers	30400065
29×22 cm Rubber Mat	Endeavor™ 5000 Light Duty Shakers	30770935

Sticky Mat

Description	Used on Shakers	Item N°
22×18 cm Sticky Mat	Endeavor™ 5000 Light Duty Shakers	30770939

Culture Platforms

Ideal for slow speed applications; Petri dishes, culture flasks, and other flat bottom, low profile vessels. The two-tier braces (available for both sizes) allow stacking of platforms with a 25,4 cm clearance. The platform is constructed of type 304 stainless steel. The platform has a non-skid rubber surface.



Culture Platforms

Description	Used on Shakers	Item N°
45,7×45,7 cm Culture Platform*	Analog/Digital 16 kg Shakers* and Reciprocating Shakers**	30400066
45,7×61 cm Culture Platform*	Analog/Digital 16 kg* & 23 kg Shakers and Reciprocating Shakers**	30400067
Two-Tier Braces (set of 4)	Analog/Digital 16 kg & 23 kg Shakers	30400051

*To stack platforms select (2) stackable platforms of the same size and (1) tier brace kit (Item No. 30400051)

**61×46 platforms can be used on both 16 kg and 23 kg shakers but can only be stacked on 16 kg shakers

Dedicated Platforms

Pre-mounted flask clamps for maximum utilization of platform space for flasks of all one size. The two-tier braces allow stacking of platforms with a clearance (available for select sizes). Platform is constructed of type 304 stainless steel. Flask clamps are constructed of PVC. Ideal for polycarbonate flasks.



30400081

Dedicated Platforms

Description	Flask Capacity	Used on Shakers	Item N°
33×33 cm Dedicated Platform / 125 ml Flask Clamp	16	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400075
33×33 cm Dedicated Platform / 250 ml Flask Clamp	12	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400076
33×33 cm Dedicated Platform / 500 ml Flask Clamp	8	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400077
33×33 cm Dedicated Platform / 1 l Flask Clamp	4	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400078
45,7×45,7 cm Dedicated Platform / 125 ml Flask Clamp*	27	Analog/Digital 16 kg Shakers and Reciprocating Shakers **	30400079
45,7×45,7 cm Dedicated Platform / 250 ml Flask Clamp*	20	Analog/Digital 16 kg Shakers and Reciprocating Shakers **	30400080
45,7×45,7 cm Dedicated Platform / 500 ml Flask Clamp*	13	Analog/Digital 16 kg Shakers and Reciprocating Shakers **	30400081
45,7×45,7 cm Dedicated Platform / 1 l Flask Clamp	9	Analog/Digital 16 kg Shakers and Reciprocating Shakers **	30400082
Two-Tier Braces (set of 4)		Analog/Digital 16 kg Shakers	30400051

Adjustable Platforms

Adjustable clamping bars accommodate various vessel types. Constructed of stainless steel. The base tray has a non-skid rubber surface.



30400068

Adjustable Platforms

Description	Bar Size	Overall Dimensions	Used on Shakers	Item N°
2-bar Adjustable Platform	21,8 cm	21,8×29,7 cm	Digital 4 kg Shakers	30400121
4-bar Adjustable Platform	45,7 cm	45,7×45,7 cm	Analog/ Digital 16 kg shakers	30400068
4-bar Adjustable Platform	45,7 cm	45,7×61 cm	Analog/ Digital 23 kg shakers	30400069

Replacement Parts

Description	Used with Platforms	Item N°
21,8 cm Adjustable Bar (with Mounting Hardware)	30400121	30400122
45,7 cm Adjustable Bar (with Mounting Hardware)	30400068 & 3040069	30400073

Large Vessel Carrier Platforms

Ideal for large sample containers like carboys, jugs, and bottles. The platforms' high side walls secure samples, has a heavy-duty design and is constructed of stainless steel. The base tray has a non-skid rubber surface.

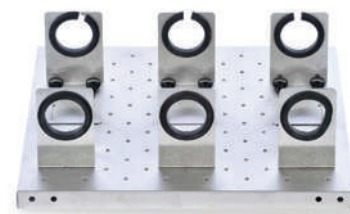


Large Vessel Carrier Platforms

Description	Bar Size	Overall Dimensions (L×W×H)	Used on Shakers	Item N°
4-bar Large Vessel Carrier Platform	45,7 cm	76,4×45,9×35,3 cm	Analog/Digital 23 kg Shakers	30400070
4-bar Large Vessel Carrier Platform	61 cm	61,9×61,7×36,0 cm	Digital 45 kg Shakers	30400071
5-bar Large Vessel Carrier Platform	61 cm	93,7×61,7×36,0 cm	Digital 68 kg Shakers	30400072
Replacement Part	Used with Carrier		Item N°	
45,7 cm adjustable bar (with mounting hardware)	30400070		30400073	
61 cm adjustable bar (with mounting hardware)	30400071 & 30400072		30400074	

Separatory Funnel Platform

Holds 3 funnels at once on a 45,7×45,7 cm platform. Platform can accommodate 500 ml to 2 l separatory funnels and is constructed of stainless steel. Includes platform, clamps and hardware to secure 3 funnels.



Separatory Funnel Platform

Description	Used on Shakers	Item N°
Separatory Funnel Platform (45,7×45,7 cm)	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400083

Microplate Clamp

Can hold one standard microplate or deep-well plate. Constructed of type 304 stainless steel. Platform Capacities for Microplate Clamps



Microplate Clamp

Platform Capacities for Microplate Clamps		
Platform Size	Microplate Clamps	Item N°
27,9×33 cm	4	30400052
33×33 cm	6	30400053
45,7×45,7 cm	12	30400054
45,7×61 cm	18	30400056
45,7×76,2 cm	21	30400057
61×61 cm	24	30400058
61×91,4 cm	36	30400059
Description	Used on Shakers	Item N°
Microplate Clamp	Analog/Digital 16 kg, 23 kg, 45 kg, & 68 kg Shakers	30400104

Universal Harness

Attaches to tray to secure low profile plates.



Universal Harness

Description	Used on Shakers	Item N°
Universal Harness	Digital 4 kg Open Air Orbital Shakers	30400123
Universal Harness e-E51LD	Endeavor™ 5000 Light Duty Shakers	30770940

Dimpled Mat

Designed to hold centrifuge tubes, vials, culture tubes, and micro-tubes securely in place. Mat can easily be removed for cleaning and transporting of tubes from bench to tray.



Dimpled Mat

Description	Used on Shakers	Item N°
Dimpled Mat, 32,4×25,4 cm	Digital Rocking Shaker	30400140
Dimpled Mat, 29,9×22,2 cm	Digital Waving Shaker	30400142
Dimpled Mat, 29,9×22,2 cm	Open Air 4 kg Orbital Shaker	30400124
Dimpled Mat, 35,6×27,9 cm	Analog Rocking & Waving Shaker	30400144

Stacking Tray

Easily attaches to the units' included tray to add a second tier for higher capacity applications. Second tier tray mounts 8,9 cm above lower tray. The tray includes hardware and a rubber mat.



Stacking Tray

Description	Used on Shakers	Item N°
Stacking Tray, 32,4×25,4 cm	Digital Rocking Shaker	30400137
Stacking Tray, 29,9×22,2 cm	Digital Waving Shaker	30400138
Stacking Tray, 35,6×27,9 cm	Analog Rocking Shaker	30400139

Micro-Tube Rack

Optional 1,5 to 2 ml Micro-Tube Rack attaches to tray to hold up to 70×1,5 ml or 2 ml micro-tubes. Tray can accommodate up to 2 micro-tube racks.



Micro-Tube Rack

Description	Used on Unit	Item N°
Micro-Tube Rack	Digital Open Air and Incubating Microplate Shaker	30400114

Deep Plate Kit

Optional for e-E51LDMP03 model only to secure 4 Deep Well plates



Deep Plate Kit

Description	Used on Unit	Item N°
Deep Plate Kit, set of 4	Endeavor™ 5000 Microplate Open Air Shaker	30772773

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

Stainless Steel Flask Clamps

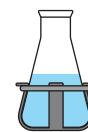
Designed to hold Erlenmeyer flasks from 10 ml to 6 l. Constructed of type 302 and 304 stainless steel. Includes hardware for easy attachment to platforms. Flask clamps 50 ml and higher are supplied with a spring to hold the flask in place. The 2,8 l clamp is designed to hold a Fernbach flask. Media bottle clamps feature the same details as flask clamps.



MEDIA BOTTLE FLASK CLAMPS



ERLENMEYER FLASK CLAMPS



Clamp Style	10 ml Erlenmeyer Flask Clamp	25 ml Erlenmeyer Flask Clamp	50 ml Erlenmeyer Flask Clamp	125 ml Erlenmeyer Flask Clamp	250 ml Erlenmeyer Flask Clamp	500 ml Erlenmeyer Flask Clamp	1 l Erlenmeyer Flask Clamp	2 l Erlenmeyer Flask Clamp
Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Item N°	30400084	30400085	30400086	30400087	30400088	30400089	30400090	30400091
Tray or Platform	Number of Flask Clamps per Tray or Platform							
29,9×22,2 cm Open Air Digital 4 kg Shakers	35	20	15	12	6	4	N/A	N/A
27,9×19,7 cm Incubating 4 kg Shakers	35	20	12	8	5	N/A	N/A	N/A
27,9×33 cm Analog/Digital 16 kg Shakers	60	25	13	10	9	7	4	N/A
Digital Reciprocating Shakers	60	25	13	10	9	7	4	N/A
33×33 cm Analog/Digital 16 kg Shakers	60	30	15	12	12	8	4	3
Digital Reciprocating Shakers	60	30	15	12	12	8	4	3
45,7×45,7 cm Analog/Digital 16 kg Shakers	113	64	32	20	20	13	8	5
Digital Reciprocating Shakers	113	64	32	20	20	13	8	5
Incub, Incub/Ref 23kg Shakers	113	64	32	20	20	13	8	5
45,7×61 cm Analog/Digital 16 kg Shakers	158	88	44	28	28	20	12	6
Digital Reciprocating Shakers	158	88	44	28	28	20	12	6
Analog/Digital 23 kg Shakers	158	88	44	28	28	20	12	6
45,7×76,2 cm Analog/Digital 23 kg Shakers	203	112	56	36	36	26	15	8
61×61 cm Digital 45 kg Shakers	221	121	61	41	41	25	16	9
61×91,4 cm Digital 63 kg Shakers	336	160	94	61	64	40	24	14

*All units require a universal platform for mounting flask clamps or test tube racks with the exception of the digital open air and incubating 4 kg shakers.

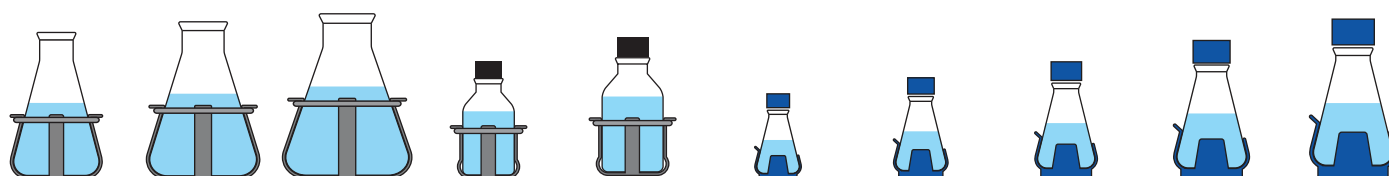
ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

PVC Flask Clamps

Constructed of one piece, molded PVC. Autoclavable. Will not scratch or mark flask like other clamps. Includes hardware for easy attachment to universal platforms. The attachment and removal of flasks is quick and easy. Ideal for polycarbonate flasks.



PVC FLASK CLAMPS



2,8 l & 3 l Fernbach Flask Clamp	4 l Erlenmeyer Flask Clamp	5 l & 6 l Erlenmeyer Flask Clamp	500 ml Media Bottle Clamp	1 l Media Bottle Clamp	125 ml Erlenmeyer Flask Clamp	250 ml Erlenmeyer Flask Clamp	500 ml Erlenmeyer Flask Clamp	1 l Erlenmeyer Flask Clamp	2 l Erlenmeyer Flask Clamp
Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	PVC	PVC	PVC	PVC	PVC
2,8L-30400092 3L-30400093	30400094	5 L-30400095 6 L-30400096	30400097	30400098	30400099	30400100	30400101	30400102	30400103
Number of Flask Clamps per Tray or Platform									
N/A	N/A	N/A	3	N/A	12	6	4	N/A	N/A
N/A	N/A	N/A	N/A	N/A	8	4	N/A	N/A	N/A
N/A	N/A	N/A	5	2	10	8	5	2	N/A
N/A	N/A	N/A	5	2	10	8	5	2	N/A
1	1	1	6	5	12	10	6	4	3
1	1	1	6	5	12	10	6	4	3
2	4	2	16	10	20	18	12	8	4
2	4	2	16	10	20	18	12	8	4
2	4	2	16	10	20	18	12	8	4
3	4	3	20	13	28	25	16	10	6
3	4	3	20	13	28	25	16	10	6
3	4	3	20	13	28	25	16	10	6
3	6	4	28	18	36	33	20	14	8
5	5	5	25	18	41	35	24	13	9
7	9	7	40	30	61	55	38	22	13

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

Test Tube Racks

Half Size, Stationary

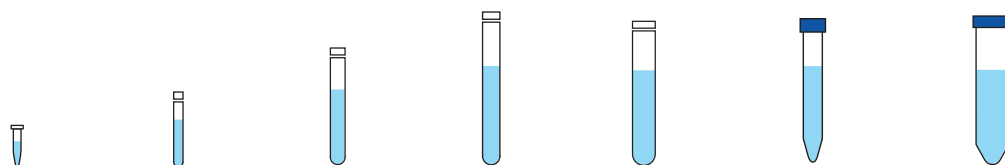
Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms.

Dimensions:

12,7×17,8×10,2 cm / Micro-Tube Rack: 4,3 cm H.



TEST TUBE RACKS HALF-SIZE,
STATIONARY



Test Tube Style	1,5 to 2 ml Micro-Tube Rack Half Size, Stationary	10 to 13 mm Test Tube Rack Half Size, Stationary	14 to 16 mm Test Tube Rack Half Size, Stationary	18 to 20 mm Test Tube Rack Half Size, Stationary	22 to 25 mm Test Tube Rack Half Size, Stationary	15 ml Centrifuge Tube Rack Half Size, Stationary	50 ml Centrifuge Tube Rack Half Size, Stationary
Tube Capacity	70	63	48	35	24	35	12
Item N°	30400114	30400115	30400116	30400117	30400118	30400119	30400120
Tray or Platform	Number of Test Tube Racks per Tray or Platform						
29,9×22,2 cm Digital Open Air 4 kg Shakers	2	2	2	2	2	2	2
27,9×19,7 cm Incubating 4 kg Shakers	2	1	1	N/A	N/A	1	1
Digital Open Air 4 kg Shakers	2	N/A	N/A	N/A	N/A	N/A	N/A
Incubating Microplate Shakers	2	N/A	N/A	N/A	N/A	N/A	N/A
27,9×33 cm Analog/Digital 16 kg Shakers	2	2	2	2	2	2	2
Digital Reciprocating Shakers	2	2	2	2	2	2	2
33 cm×33 cm Analog/Digital 16 kg Shakers	2	2	2	2	2	2	2
Digital Reciprocating Shakers	2	2	2	2	2	2	2
45,7×45,7 cm Analog/Digital 16 kg Shaker	4	4	4	4	4	4	4
Digital Reciprocating Shakers	4	4	4	4	4	4	4
Incub, Incub/Ref 23kg Shakers	4	4	4	4	4	4	4
45,7×61 cm Analog/Digital 16 kg Shakers	6	6	6	6	6	6	6
Digital Reciprocating Shakers	6	6	6	6	6	6	6
Analog/Digital 23 kg Shakers	6	6	6	6	6	6	6
45,7×76,2 cm Analog/Digital 23 kg Shakers	8	8	8	8	8	8	8
61×61 cm Digital 45 kg Shakers	8	8	8	8	8	8	8
61×91,4 cm Digital 63 kg Shakers	7	7	7	7	7	7	7

*All units require a universal platform for mounting flask clamps or test tube racks with the exception of the digital open air and incubating 4 kg shakers.

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

Test Tube Racks

Full Size, Stationary

Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms.

Dimensions:

9,5×41,9×10,2 cm

Full Size, Pivoting

Has adjustable angle, custom tilt. Stainless steel holder includes removable plastic rack. Rack is easily removed to transport from work area to shaker.

Inside pivoting rack dimensions:

12,9×27,4×9,9 cm

Outside stationary rack dimensions:

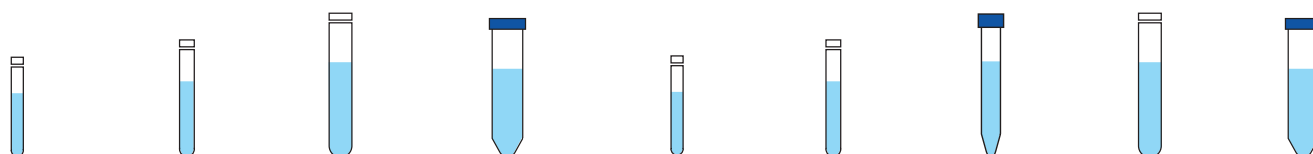
12,7×27,6×12,7 cm



TEST TUBE RACKS
FULL-SIZE, STATIONARY



TEST TUBE RACKS
FULL-SIZE, PIVOTING



10 to 14 mm Test Tube Rack	16 to 20 mm Test Tube Rack	21 to 25 mm Test Tube Rack	50 ml Centrifuge Tube Rack	13 mm Test Tube Rack	16 mm Test Tube Rack	20 mm Test Tube Rack	25 mm Tube Rack	30 mm Tube Rack
Full Size, Stationary	Full Size, Stationary	Full Size Stationary	Full Size, Stationary	Full Size, Pivoting	Full Size, Pivoting	Full Size, Pivoting	Full Size, Pivoting	Full Size, Pivoting
48	33	21	17	90	60	40	24	21
30400110	30400111	30400112	30400113	30400105	30400106	30400107	30400108	30400109
Number of Test Tube Racks per Tray or Platform								
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	1	1	1	1	1
N/A	N/A	N/A	N/A	1	1	1	1	1
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	5	5	5	3	3	3	3	3
5	5	5	5	3	3	3	3	3
5	5	5	5	3	3	3	3	3
6	6	6	6	4	4	4	4	4
7	7	7	7	4	4	4	4	4
5	5	5	5	6	6	6	6	6

WHAT IS IN A MODEL NUMBER?

Vortex Mixers



VXMNAL = Vortex Mixer with analog control

VX	MN	AL
Type	Family	Front Panel Control
VX = Vortex Mixer	MN = Mixer* HD = Heavy Duty** MP = Microplate MT = Multitube	AL = Analog DG = Digital FS = Fixed Speed PS = Pulsing

*VXMN models have an intermittent duty rating for short term mixing and are limited to speeds below ~900 rpm when used with optional accessories

**HD models have a continuous duty rating for mixing samples when used with optional accessories throughout the entire speed range for extended periods of time



VORTEX MIXERS

Choose the Perfect Vortex Mixer From Four Durable Models for Everyday Mixing

Application

Re-Suspending Liquids, Mixing Reagents, Buffers and Emulsions, ELISA Assay, Drug Extractions, Mixing Samples

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Operation

Detachable 3-wire cord and plug (included)

Construction

Cup head and 3-inch accessory platform for beakers, flasks, test tubes etc. (included with all models), stainless steel microtube holder for 12 tubes (pulsing models)

Design Features

Microprocessor-control to maintain set speed for consistent mixing action (digital models), 230V models have a maximum speed of 2500 rpm



Touch mode operation activates mixing when depressing the cup head or continuous mode for use with accessory attachments. Sturdy, rugged design ensures the unit stays in place while in use.

Robust digital and non-digital Vortex Mixers offer effective speed control from low RPM start-up for gentle shaking to high-speed mixing for vigorous vortexing of samples.

The Fixed Speed Vortex Mixer is an economical choice for vigorous mixing of samples at high speed. To ease repetitive sample processing, this unit provides simple, effective full-speed mixing.

Model	Type	Control	Duty Rating	Orbit	Speed Range	Timer	Item N°
VXMNDG	Vortex	Digital	Intermittent	4,9 mm	500 – 2800 rpm	1 second to 160 hours	30392124
VXMNPS	Vortex	Pulsing	Intermittent	2,5 mm	500 – 2800 rpm	1 second to 160 hours	30392131
VXMNFS	Vortex	Fixed Speed	Intermittent	4,9 mm	2800 rpm	–	30392110
VXMNAL	Vortex	Analog	Intermittent	4,9 mm	300 – 2800 rpm	–	30392117

Accessories included in price:

Description	Item N°
Cup Head	30400235
7,6 cm Head	30400236
7,6 cm Rubber Head Cover	30400237
Stainless Steel Tube Holder (only with 30392131)	30400206

* Maximum speed will vary depending on accessory used

VORTEX MIXER ACCESSORIES

Micro-Tube Holder

Mixes (48) 0,25 to 2 ml micro-tubes. Requires Insert Retainer.

Description	Item N°
Micro-Tube Holder (2 pack)	30400232
Insert Retainer	30400227

9 to 13 mm Tube Holder

Ideal for mixing 5 ml culture tubes and micro-vials. Requires Insert Retainer.

Description	Item N°
9 to 13 mm Tube Holder (2 pack)	30400229
Insert Retainer	30400227

14 to 19 mm Tube Holder

Ideal for mixing up to (8) 15 ml centrifuge tubes. Requires Insert Retainer.

Description	Item N°
14 to 19 mm Tube Holder (2 pack)	30400230
Insert Retainer	30400227

20 to 25 mm Tube Holder

Ideal for mixing up to (8) 50 ml centrifuge tubes. Requires Insert Retainer.

Description	Item N°
20 to 25 mm Tube Holder (2 pack)	30400231
Insert Retainer	30400227

Vessel Harness

Mixes Erlenmeyer flasks and media bottles. Requires Insert Retainer.

Description	Item N°
Vessel Harness (2 pack)	30400228
Insert Retainer	30400227

Cup Head

Designed for mixing 1 tube at a time. Inner diameter 2,54 cm, outer diameter 5,08 cm.

Description	Item N°
Cup Head	30400235

7,6 cm Rubber Head Cover and 7,6 cm Head

Designed for mixing irregular shaped objects.

Description	Item N°
7,6 cm Rubber Head Cover	30400237
7,6 cm Head	30400236
7,6 cm Head with Rubber Cover	30400196

Microplate Holder

Ideal for mixing 96-well plates or deep well blocks. Requires Insert Retainer.

Description	Item N°
Microplate Holder (2 pack)	30400233
Insert Retainer	30400227

Flat Foam Insert

Ideal for custom applications. Can be cut or drilled to fit your specifications. Requires Insert Retainer.

Description	Item N°
Flat Foam Insert (2 pack)	30400234
Insert Retainer	30400227

Microwell Kit with Retainer

Includes:

- 2 Microplate Holders
- 1 Insert Retainer

Description	Item N°
Microwell Kit with Retainer	30400199



Microtube Kit with /Retainer

Includes:

- 2 Micro-Tube Holders
- 1 Insert Retainer

Description	Item N°
Microtube Kit with /Retainer	30400200



Foam Insert Variety Pack

Includes:

- (1) 9 to 13 mm Tube Holder
- (1) 14 to 19 mm Tube Holder
- (1) 20 to 25 mm Tube Holder
- 1 Flat Foam Insert

Description	Item N°
Foam Insert Variety Pack	30400201



Micro-Tube and Microplate Holder Kit

Includes:

- 1 Micro-Tube Holder
- 1 Microplate Holder
- 1 Insert Retainer

Description	Item N°
Micro-Tube & Microplate Holder Kit	30400198



Tube Holder Kit

Includes:

- (1) 9 to 13 mm Tube Holder
- (1) 14 to 19 mm Tube Holder
- (1) 20 to 25 mm Tube Holder
- 1 Flat Foam Insert
- 2 Vessel Harnesses
- 1 Insert Retainer

Description	Item N°
Tube Holder Kit	30400197



Single Tube Holder

Single tube, hands free mixing. Easily attaches to the top of any Vortex Mixer with the use of a strong magnetic base. Accepts tubes from 6,4 to 11,4 cm in length.

Minimum tube diameter of 19 mm.

Description	Item N°
Single Tube Holder	30400202



Adapter for Vortex-Genie® Mixer*

Adapter plate easily adheres to the Vortex-Genie® Mixer housing so Single Tube Holder (sold separately) can be attached.

Description	Item N°
Adapter plate	30400203



* The Vortex-Genie® Mixer is a registered trademark of Scientific Industries, Inc.

SINGLE TUBE HOLDER ACCESSORIES

(Requires Single Tube Holder)

0,5 ml Micro-Tube Holder

Mixes (24) 0,5 ml micro-tubes.

For use with Single Tube Holder

Description	Item N°
Micro-Tube Holder (0,5 ml)	30400204

1,5 ml to 2,0 ml Micro-Tube Holder

Mixes (18) 1,5 to 2 ml micro-tubes.

For use with Single Tube Holder.

Description	Item N°
Microtube Holder (1,5 ml to 2,0 ml)	30400205

Ampule Tube Holder

Mixes up to 4 storage vials and test tubes.

Description	Item N°
15 to 17 mm Ampule Tube Holder	30400207
10 to 17 mm Ampule Tube Holder	30400208

Stainless Steel Microtube Holder

Mixes up to (12) 1,5 to 2 ml tubes.

Stainless steel construction.

Description	Item N°
Microtube Holder	30400206



OHAUS Vortex Mixer accessories are interchangeable with other manufacturers' models

HEAVY-DUTY VORTEX MIXERS

Increase Productivity with Continuous-Duty Vortexing of Multiple Samples

Application

ELISA Assays, PCR Preparations, Digestions, Cell Disruptions

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Operation

Detachable 3-wire cord and plug (included)

Construction

Cyclopy, Touch/Standby/On rocker switch (both models)

Design Features

Universal holder, foam insert for (38) 1,5 to 2 ml microtubes, universal cover and cup head (included)



VXHDDG



Safe to mix at high speeds - the unique locking design of the mixer accessories allows the mixer to safely operate throughout the entire speed range.

For the most demanding applications, these mixers utilize a high quality German-manufactured motor, allowing for continuous duty operation and increased load capacities up to 1,1 kg.

Robust digital and non-digital models offer effective speed control from low rpm for gentle shaking to high-speed mixing for vigorous vortexing of difficult samples.

Model	Type	Control	Duty Rating	Orbit	Speed Range	Timer	Item N°
VXHDDG	Heavy-Duty	Digital	Continuous	4,9 mm	On Mode: 300–2500 rpm Touch Mode: 300–3500 rpm	1 second to 160 hours	30392136
VXHDAL	Heavy-Duty	Analog	Continuous	4,9 mm	On Mode: 300–2500 rpm Touch Mode: 300–3500 rpm	-	30392141

Accessories included in price:

Description	Item N°
Cup Head	30400210
Universal Holder	30400226
Universal Holder Cover	30400225
Foam Insert (1,5 to 2,0 microtubes)	30400217



30400210



30400226



30400225



30400217

MICROPLATE VORTEX MIXERS

The Ideal Solution for Dependable Vortex Mixing of Microplates

Application

ELISA Assays, PCR Preparations, Digestions, Cell Disruptions

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Operation

Detachable 3-wire cord and plug (included)

Construction

Cyclooy

Design Features

Microplate adapter and cup head (included)



VXMPDG



Safe to mix at high speeds - the innovative locking design of the microplate accessories allows these mixers to safely operate throughout the entire speed range.

These mixers utilize a high quality German-manufactured motor allowing for reliable, continuous-duty operation at any speed.

Robust digital and non-digital models offer effective speed control from low rpm for gentle shaking to high-speed mixing for vigorous vortexing of samples.

Model	Type	Control	Duty Rating	Orbit	Speed Range	Timer	Item N°
VXMPDG	Microplate	Digital	Continuous	3,5 mm	On Mode: 300–2500 rpm Touch Mode: 300–3500 rpm	1 second to 160 hours	30392150
VXMPAL	Microplate	Analog	Continuous	3,5 mm	On Mode: 300–2500 rpm Touch Mode: 300–3500 rpm	-	30392155

Accessories included in price:

Description	Item N°
Cup Head	30400210
Microplate Holder (Single)	30400215



30400210



30400215

HEAVY-DUTY AND MICROPLATE MIXERS ACCESSORIES

Foam Insert for 0,5 ml Microtubes*

Foam insert holds (52) 0,5 ml microtubes. Requires Universal Holder.

Description	Item N°
0,5 ml microtubes	30400216
Universal Holder	30400226

Foam Insert for 1,5 to 2,0 ml Microtubes*

Foam insert holds (38) 1,5 to 2,0 ml microtubes. Requires Universal Holder.

Description	Item N°
1,5 to 2,0 ml microtubes	30400217
Universal Holder	30400226

Foam Insert for 12-13 mm Test Tubes*

Foam insert holds (34) 12-13 mm diameter test tubes. Requires Universal Holder.

Description	Item N°
12-13 mm test tubes	30400220
Universal Holder	30400226

Foam Insert for 15-18 mm Test Tubes*

Foam insert holds (20) 15-18 mm diameter test tubes. Ideal for 15 ml centrifuge tubes. Requires Universal Holder.

Description	Item N°
15-18 mm test tubes	30400221
Universal Holder	30400226

Foam Insert for 19-21 mm Test Tubes*

Foam insert holds (18) 19-21 mm diameter test tubes. Requires Universal Holder.

Description	Item N°
19-21 mm test tubes	30400222
Universal Holder	30400226

Foam Insert for 22-25 mm Test Tubes*

Foam insert holds (13) 22-25 mm diameter test tubes. Requires Universal Holder.

Description	Item N°
22-25 mm test tubes	30400223
Universal Holder	30400226

Foam Insert for 26-29 mm Test Tubes*

Foam Insert for 26-29 mm Test Tubes Foam insert holds (4) 26-29 mm diameter test tubes. Ideal for 50 ml centrifuge tubes. Requires Universal Holder.

Description	Item N°
26-29 mm test tubes	30400224
Universal Holder	30400226

Cup Head

Designed for mixing 1 tube at a time.

Description	Item N°
Cup Head	30400210

Small Vessel Holder*

Rubber holder secures 125 and 250 ml Erlenmeyer flasks. Vessel holder also includes a grip mat. Requires Universal Holder.

Description	Item N°
Small Vessel Holder	30400218
Universal Holder	30400226

Large Vessel Holder*

Rubber holder secures 500 and 1000 ml Erlenmeyer flasks. Vessel holder also includes a grip mat. Requires Universal Holder.

Description	Item N°
Large Vessel Holder	30400211
Universal Holder	30400226



30400216



30400216



30400217



30400220



30400221



30400222



30400223



30400224



30400210



30400218



30400226



30400211



30400226

Microplate Holder (Single)

Designed to hold one standard microplate.

Description	Item N°
Single Holder	30400215



30400215

Microplate Holder (Double)

Designed to hold two standard microplates.

Description	Item N°
Double Holder	30400213



30400213

Microplate Holder (Quad)*

Designed to hold four standard microplates.

Description	Item N°
Quad Holder	30400214



30400214

Stackable Microplate Holder Four*

Designed to maximize the capacity of the Heavy-Duty Vortex Mixer to eight microplates by stacking the tray on top of the four plate holder.

Description	Item N°
Stackable Holder**	30400212



30400212

** requires 30400214 Quad Holder

Flat Foam Insert*

Ideal for custom applications. Can be cut or drilled to fit your specifications.

Requires Universal Holder.

Description	Item N°
Flat Foam Insert	30400209
Universal Holder	30400226



30400209



30400226

Universal Holder & Cover*

Replacement for items supplied with Heavy-Duty Vortex Mixer. Cover allows for mixing irregularly shaped objects.

Description	Item N°
Universal Holder	30400226
Universal Holder Cover	30400225



30400226



30400225

***for use on Heavy Duty only**

MULTITUBE VORTEX MIXERS

Powerful Hands-Free Vortex Mixer for Efficient High-Throughput Mixing

Application

Suspensions, Genotyping, High Throughput DNA and RNA Testing in Clinical Labs

Display

Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models)

Operation

Detachable 3-wire cord and plug (included)

Construction

Foam rack for (50) 12 mm diameter tubes (included), interchangeable foam racks for vortexing tubes from 10 - 29 mm in diameter

VXMTDG



Easily process up to 50 samples at one time – the Multi-Tube Vortex Mixer can be customized for your application with six different tube racks and a post- extension kit.

The Multi-Tube Vortex Mixers feature either an easy to clean one-piece stainless steel housing that is perfect for clean rooms or a painted steel version for a more economical option.

For challenging samples, enhance vortex action and create a more vigorous mix with the programmable pulse mode on the digital models. Adjust the pulse-on/pulse-off time interval to customize operation.

Model	Type	Control	Duty Rating	Orbit	Speed Range	Timer	Item N°
VXMTDG*	Multi-Tube	Digital	Continuous	3,6 mm	500 – 2500 rpm	1 second to 160 hours	30392173
VXMTDGB**	Multi-Tube	Digital	Continuous	3,6 mm	500 – 2500 rpm	1 second to 160 hours	30573837
VXMTAL*	Multi-Tube	Analog	Continuous	3,6 mm	1200 – 2400 rpm	0 to 60 seconds	30392166
VXMTALB**	Multi-Tube	Analog	Continuous	3,6 mm	1200 – 2400 rpm	0 to 60 seconds	30573832

* Stainless steel housing

** Painted steel housing

Accessories included in price:

Description	Item N°
Foam rack for (50) 12 mm diameter tubes	30400239

MULTITUBE VORTEXER ACCESSORIES

Foam Test Tube Racks

Description	Tube Capacity	Colour	Dimensions (L×W×H)	Item N°
10 mm Test Tube Foam Rack	50	Gray	14×24,1×5,1 cm	30400238
12 mm Test Tube Foam Rack	50	Blue	14×24,1×5,1 cm	30400239
13 mm Test Tube Foam Rack	50	Yellow	14×24,1×5,1 cm	30400240
16 mm Test Tube Foam Rack (for 15 ml centrifuge tubes)	50	Green	14×24,1×5,1 cm	30400241
25 mm Test Tube Foam Rack	28	White	14×24,1×5,1 cm	30400243
29 mm Test Tube Foam Rack (for 50 ml centrifuge tubes)	15	Red	14×24,1×5,1 cm	30400242
Replacement Tray Pad Set (upper & lower)	N/A	Gray	17,8×30,5×2,5 cm	30400245

Post Extension Kit

Adds 15,2 cm to the post of the Multi-Tube Vortex Mixer to accommodate tubes up to 25,4 cm tall.

Description	Item N°
Post Extension Kit	30400244



30400238



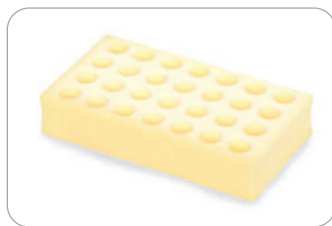
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30400240



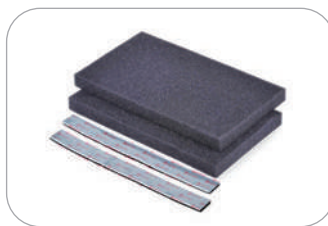
30400241



30400243



30400242



30400245



30400244

WHAT IS IN A MODEL NUMBER?

Dry Block Heaters



HB1AL = 1 Block Heater with analog controls			
HB	1	AL	
Type	Family	Front Panel Control	Units with Lids Only
HB = Heatblocks	1 = 1 Block Well 2 = 2 Block Well 4 = 4 Block Well 6 = 6 Block Well	AL = Analog DG = Digital	HL = Heated Lid version LD = Lid (non-heated)



1 BLOCK DRY BLOCK HEATERS

Versatile Block Heaters Designed for Everyday Use with Accessories for Every Application

Application

Incubation & Activation of Cultures, Enzyme Reactions, Immunoassays, Melting/Boiling Points, Isothermal Incubations, Nucleic Acid Denaturation

Display

LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Operation

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Construction

Painted steel housing, support rod holder with locking knob

Design Features

Touchpad control and audible alarm (digital models)



HB1DG



Designed for reliable everyday use in the lab. Digital and non-digital Block Heaters offer exceptional temperature uniformity with outstanding temperature stability.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Size	Control	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C	Dimensions (L×W×H)	Item N°
HB1DG	1 block	Digital	Ambient +5°C to 120°C	230 volt units: ± 0,2°C	230 volt units: ± 0,2°C	N/A	≤ 16 minutes	31,5×20,3×8,9 cm	30392061
HB1AL	1 block	Analog	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	230 volt units: ± 0,2°C	230 volt units: ± 1,5°C	N/A	≤ 16 minutes	31,5×20,3×8,9 cm	30392047

2 BLOCK DRY BLOCK HEATERS

Versatile Block Heaters Designed for Everyday Use with Accessories for Every Application

Application

Incubation & Activation of Cultures, Enzyme Reactions, Immunoassays, Melting/Boiling Points, Isothermal Incubations, Nucleic Acid Denaturation

Display

LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Operation

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Construction

Painted steel housing, support rod holder with locking knob

Design Features

Touchpad control and audible alarm (digital models)



HB2DG



Three models to customize your application. All models offer exceptional temperature uniformity with outstanding temperature stability.

Avoid contamination to ensure repeatable, reliable results. The Heatblock with Heated Lid features a second heater in the lid to minimize condensation to maintain your sample integrity.

Model	Size	Control	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C*	Dimensions (L×W×H)	Item N°
HB2DG	2 block	Digital	Ambient +5°C to 120°C	230 volt units: ± 0,2°C	230 volt units: ± 0,2°C	± 0,1°C	≤ 16 minutes	39,1×20,3×8,9 cm	30392082
HB2DGHL	2 block	Digital	Ambient +5°C to 100°C	230 volt units: ± 0,1°C	230 volt units: ± 0,2°C	± 0,1°C	≤ 30 minutes	39,1×20,3×17,8 cm	30392103
HB2AL	2 block	Analog	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	230 volt units: ± 0,2°C	230 volt units: ± 2,0°C	± 0,1°C	≤ 16 minutes	39,1×20,3×8,9 cm	30392054

* Conditions permitting

4 BLOCK DRY BLOCK HEATERS

Versatile and Dependable Block Heaters Deliver Precise, Reliable Results

Application

Incubation & Activation of Cultures, Enzyme Reactions, Immunoassays, Melting/Boiling Points, Isothermal Incubations, Nucleic Acid Denaturation

Display

LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Operation

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Construction

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Design Features

Touchpad control and audible alarm (digital models)



HB4DG



Designed for flexibility with your applications. The four-block capacity allows you to process multiple samples simultaneously with one device.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Size	Control	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C*	Dimensions (L×W×H)	Item N°
HB4DG	4 block	Digital	Ambient +5°C to 120°C	230 volt units: ± 0,2°C	230 volt units: ± 0,2°C	± 0,2°C	≤ 23 minutes	42,9×20,3×8,9 cm	30392089
HB4AL	4 block	Analog	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	230 volt units: ± 0,2°C	230 volt units: ± 2,5°C	± 0,2°C	≤ 23 minutes	42,9×20,3×8,9 cm	30392068

* Conditions permitting

6 BLOCK DRY BLOCK HEATERS

Process More Samples with Large Capacity Block Heaters that Deliver Precise, Reliable Results

Application

Incubation & Activation of Cultures, Enzyme Reactions, Immunoassays, Melting/Boiling Points, Isothermal Incubations, Nucleic Acid Denaturation

Display

LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Operation

Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Construction

Painted steel housing, support rod holder with locking knob

Design Features

Touchpad control and audible alarm (digital models)



HB6DG



Unique design for high throughput applications. The six-block capacity allows you the most flexibility to process multiple samples simultaneously with one device.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Size	Control	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C*	Dimensions (L×W×H)	Item N°
HB6DG	6 block	Digital	Ambient +5°C to 120°C	230 volt units: ± 0,2°C	230 volt units: ± 0,2°C	± 0,3°C	≤ 30 minutes	53,1 × 20,3 × 8,9 cm	30392096
HB6AL	6 block	Analog	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	230 volt units: ± 0,2°C	230 volt units: ± 2,5°C	± 0,3°C	≤ 30 minutes	53,1 × 20,3 × 8,9 cm	30392075

* Conditions permitting

MODULAR BLOCKS* & ACCESSORIES

Modular blocks are constructed from a solid anodized aluminium block*. The close contact of tubes-to-block walls allow for maximum heat retention. Each block has a thermometer well for measuring block temperature.

Caution! To avoid possible electrical hazard, do not fill well or block with water or other fluids. Units are designed as a dry bath/incubator.

Single block dimensions (L×W×H): 9,5×7,6×5,1 cm

Double block dimensions (L×W×H): 15,2×9,5×5,7 cm

Microcentrifuge Tube Blocks

Single block

Brand/Sample Type	No. of Wells	Well Dia.	Well Depth	Item N°
0,5 ml Tube	30	7,9 mm	27,6 mm	30400157
1,5 ml Tube	20	11,1 mm	39,1 mm	30400159
1,5 ml Eppendorf™ Tube	20	11,5 mm	36,9 mm	30400162
2 ml Eppendorf™ Tube	20	11,5 mm	38,1 mm	30400191
2 ml Corning™ Tube	20	10,9 mm	38,1 mm	30400192

Titer Plate Block

Double block

Fits 2/4/6 block Dry Block Heaters. Ideal for 96-well or 384-well titer plates.

Recessed well for better stability, flat surface good for flat and round bottom plates.

Sample Type	Well Depth	Item N°
Titer Plate	13,5 mm	30400164

Conical-Bottom Centrifuge Tube Blocks

Single/Sample Type	No. of Wells	Well Dia.	Well Depth	Item N°
15 ml Tube	12	17,1 mm	44,5 mm	30400172
50 ml Tube	5	29,0 mm	47,6 mm	30400168

Standard Test Tube Blocks

Single/Sample Type	No. of Wells	Well Dia.	Well Depth	Item N°
6 mm Tube	30	8,3 mm	48,4 mm	30400158
10 mm Tube	24	10,7 mm	48,4 mm	30400151
12/13 mm Tube	20	13,9 mm	48,4 mm	30400152
12/13 mm Tube	16	13,9 mm	48,4 mm	30400165
15/16 mm Tube	12	17,5 mm	48,4 mm	30400153
17/18 mm Tube	12	19,1 mm	48,4 mm	30400195
20 mm Tube	8	21,0 mm	48,4 mm	30400154
25 mm Tube	6	26,2 mm	48,4 mm	30400155
35 mm Tube	4	35,0 mm	47,6 mm	30400167

* Block colour subject to change.

Combination Blocks

Single block

These blocks have been designed for variable sized samples.

Sample Type		No. of Wells	Well Dia.	Well Depth	Item N°
Test Tube Combination	6 mm	6	8,3 mm	48,4 mm	30400156
	12/13 mm	5	13,8 mm	48,4 mm	
	25 mm	3	26,2 mm	48,4 mm	
Centrifuge Tube Combination	1,5 ml	4	11,1 mm	39,1 mm	30400193
	15 ml	3	17,1 mm	44,5 mm	
	50 ml	2	29,0 mm	47,6 mm	
Micro-Tube Combination	0,5 ml	6	7,9 mm	27,6 mm	30400194
	1,5 ml	10	11,1 mm	39,1 mm	
	2 ml	5	11,5 mm	38,1 mm	



Vial Blocks

Single block

Designed for sample/serum and scintillation vials.

Sample Type	No. of Wells	Well Dia.	Well Depth	Item N°
12 mm Vial	20	12,7 mm	30 mm	30400182
15 mm Vial	20	15,8 mm	35 mm	30400183
16 mm Vial	15	16,4 mm	45 mm	30400190
17 mm Vial	12	17,8 mm	45 mm	30400184
19 mm Vial	12	19,7 mm	45 mm	30400185
21 mm Vial	9	21,7 mm	45 mm	30400186
23 mm Vial	8	23,8 mm	45 mm	30400187
25 mm Vial	8	25,8 mm	45 mm	30400188
28 mm Vial	6	28,8 mm	45 mm	30400189



PCR—Plate, Tube, Strip Blocks

Single and double block

Tapered tube wells for 0,2 ml tubes. Spaced for easy access and removal.

Sample Type	Block Size	No. of Wells	Well Dia.	Well Depth	Item N°
96-well PCR Plate	Double	96	6,4 mm	15,5 mm	30400171
10×8 Tube Strips	Single	80	6,4 mm	15,5 mm	30400169
Individual Tubes	Single	64	6,4 mm	20,2 mm	30400170



Cuvette Block

Single block

Two parallel slots fit 6 cuvettes in each slot, side-by-side

Sample Type	No. of Wells	Well Depth	Item N°
(12) 12,5 mm Cuvettes	2	25,4 mm	30400161



Solid Blocks

Single and double block

For use as a low-temperature hotplate, slide drying, or for custom drilling to make a custom block.

Block Size	Dimensions (L×W×H)	Item N°
Single	9,5×7,6×5,1 cm	30400160
Double	15,2×9,5×5,7 cm	30400166



Stainless Steel Sand Baths

Ideal for irregular vessels. Stainless steel construction for superior corrosion resistance. Designed to hold sand, stainless steel shot or non-volatile fluids.



For Unit	Dimensions (L×W×H)	Item N°
1 Block Dry Block Heater	9,5×7,6×6,4 cm	30400173
2 Block Dry Block Heater	9,5×14,9×6,4 cm	30400174
4 Block Dry Block Heater	14,7×19,1×6,4 cm	30400175
6 Block Dry Block Heater	14,7×28,7×6,4 cm	30400176
Accessories		Item N°
Sand, 0,45 kg		30400177
Stainless Steel Shot, 0,45 kg		30400178

Low Temperature Covers

Plexiglass cover reduces air flow for additional temperature stability in low-temperature applications. Two sides are open 6,4 mm.



Block Size	Dimensions (L×W×H)	Item N°
2 Block Cover	16,5×16,5×4,1 cm	30400179
4 Block Cover	21,6×21,6×4,1 cm	30400180
6 Block Cover	31,8×21,6×4,1 cm	30400181

External Temperature Probe Kit

Enables the unit to read actual block or sample temperature and display that temperature on the control panel. The optional External Temperature Probe Kit includes a stainless steel RTD PT100 probe, 45,7 cm stainless steel support rod, thermometer/temperature probe extension clamp and hook connector. The PT100 RTD probe is designed to fit perfectly in to the thermometer well of each modular block.



Description	Item N°
Optional External Temperature Probe Kit	30400246

GUARDIAN™ SELECTOR GUIDE

Hotplates and Stirrers – features	Guardian 2000	Guardian 3000	Guardian 5000	Guardian 7000
Functions	Heating and Stirring Heating Stirring	Heating and Stirring	Heating and Stirring Heating Stirring	Heating and Stirring
Control	Analog	Digital	Digital	Digital
Top Plate Sizes	Round: 5,3 inch / 13,5 cm diameter Square: 4×4 inch / 10×10 cm 7×7 inch / 18×18 cm	Round: 5,3 inch / 13,5 cm diameter Square: 4×4 inch / 10×10 cm 7×7 inch / 18×18 cm	Round: 5,3 inch / 13,5 cm diameter Square: 7×7 inch / 18×18 cm 10×10 inch / 26×26 cm	Round: 5,3 inch / 13,5 cm diameter Square: 7×7 inch / 18×18 cm 10×10 inch / 26×26 cm
Top Plate Materials	Round: Ceramic Coated Steel Square: Ceramic, Resin (Stirrers)	Round: Ceramic Coated Steel Square: Ceramic	Round: Ceramic Coated Aluminum Square: Ceramic	Round: High Polished Aluminum Square: Ceramic
Temperature Range	Round: Up to 380°C Square: Up to 500°C	Round: Ambient +5°C – 380°C Square: Ambient +5°C – 500°C	Round: Ambient +5°C – 360°C Square: Ambient +5°C – 550°C (7×7) Ambient +5°C – 500°C (10×10)	Round: Ambient +5°C – 380°C Square: Ambient +5°C – 500°C
Temperature Readability	No display	1°C	0,5°C	0,1°C
Temperature Stability on Plate	No Specification	±3% > 100°C ±2°C < 100°C	±1% > 100°C ±1°C < 100°C	±1% > 100°C ±1°C < 100°C
Temperature Stability with Probe	No Probe Connection	±2% > 100°C ±2°C < 100°C	±0,5% > 100°C ±0,5°C < 100°C	±0,5% > 100°C ±1°C < 100°C
Temperature Calibration (SPC) Capacity	No SPC	1 points for plate temp 1 points for probe temp	3 points for plate temp 3 points for probe temp	5 points for plate temp 5 points for probe temp
Stir Capacity (H ₂ O in Liter)	15 l	15 l	Round: 20 l Square: 20 l (7×7); 22 l (10×10)	Round: 20 l Square: 15 l (7×7); 18 l (10×10)
Speed Range	200 – 1600 rpm	80 – 1600 rpm	50 – 1800 rpm	60 – 1600 rpm
Speed Stability	No Specification	±2%	±2%	±2%
Housing	Painted Aluminum	Painted Aluminum	Painted Aluminum	SmartHousing
Display		75 × 20 mm BTN LCD	115 × 30 mm BTN LCD	115 × 30 mm BTN LCD
Timer			•	•
Hot Top Indicator	•	•	•	•
SmartLink™				•
SmartPresence™				•
SmartRate™			•	•
SmartHeat™			•	•
SafetyHeat™		•	•	•
Programmability				•
Data Logging and Remote Control			•	
Front Panel Material	PET	PET	PET	Glass
IP Rating	IP21	IP21	IP32	IP21
Temperature Probe	No Probe Connection	PT1000	PT100 & PT1000	PT1000
Data Logging and Remote Control			built-in RS232; optional RS232-USB interface kit; optional RS232-Ethernet interface kit	
Communication				USB
Support Rod Holding Capacity	Single Rod	Single Rod	Dual Rods	Single Rod
Optional Splashing Shield			•	
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WHAT IS IN A MODEL NUMBER?

Hotplates & Stirrers



G71HS07C = Guardian 7000 Hotplate stirrer 17,8×17,8 cm Ceramic plate

G7	1	HS	07	C
Family	Generation	Function	Top Plate Size	Top Plate Material
G2 = Guardian 2000 G3 = Guardian 3000 G5 = Guardian 5000 G7 = Guardian 7000	1 = first 2 = second	HP = Hotplate HS = Hotplate Stirrer ST = Stirrer	4 = 10,2×10,2 cm / 4×4 inch 7 = 17,8×17,8 cm / 7×7 inch 10 = 25,4×25,4 cm / 10×10 inch RD = Round 13,5 cm	C = Ceramic M = Metal S = Ceramic Coated Stainless Steel R = Resin



GUARDIAN™7000

Dependable Hotplate Stirrers with Superior Safety Features and Intelligent Performance

Application

Temperature Sensitive Chemistry & Biology, Heat Fixation, Solution pH Optimization, Solution Sterilization, Endothermic Reactions, Denaturing of Organic Material, Sample & Solution Preparation

Display

Backlit LCD Display for temperature, speed and time, green indicator lights when unit is heating and stirring, two prominent hot top indicator lights

Operation

Timer, Stirring from 60 to 1600 rpm, Temperature range of ambient +5°C to 500°C (ceramic top) or 380°C (aluminium top), power cord (included), 20,3 cm stainless steel RTD temperature probe, 3,8 cm PTFE coated stir bar, in-use cover

Construction

Probe connection, SmartHousing™ stays cool to the touch and is chemical resistant, IP21 Ingress Protection, hardened glass front panel, control knobs, On/Off switch for heater disconnect, built-in support rod holder, easy to clean ceramic or aluminium tops

Communication

USB port provides flexibility for programming of repeat applications and enhancing safety with SmartLink™ technology; the long range user detection function operated with the Ohaus Bluetooth dongle accessory (sold separately)

Design Features

Hot top indicator lights, audible alarm, SmartHeat™ temperature limiting function, SafetyHeat™ shuts off heater in the event of malfunction, temperature calibration feature for 5 probe & 5 plate setpoints, temperature priority function, SmartRate™ functions



e-G71HS10C



Protect your lab with SmartPresence™ and SmartLink™ technologies. These exclusive features automatically shut off the heater if no one is detected after a user set "time out" period has passed.

Safely control maximum temperature! The SmartHeat™ feature allows you to set the maximum temperature of the hotplate stirrer preventing overheating of sensitive samples keeping the user & sample safe.

Safeguard operators! The SmartHousing™ remains cool to the touch at all temperature settings. The large hot top light can be seen across the lab and illuminates when the heater is above 40°C.

Model	Function	Control	Stirring Capacity	Temp. Range	Speed Range	Top Plate Material	Plate Size	Dimensions	Net Weight	Item N°
e-G71HS07C	Heating and Stirring	Digital	15 l	Ambient + 5°C – 500°C	60 – 1600 rpm	Ceramic	17,8 × 17,8 cm	30,9 × 12,2 × 22,3 cm	2,6 kg	30500603
e-G71HS10C	Heating and Stirring	Digital	18 l	Ambient + 5°C – 500°C	60 – 1600 rpm	Ceramic	25,4 × 25,4 cm	41,5 × 12,3 × 28,6 cm	5,2 kg	30500613
e-G71HSRDM	Heating and Stirring	Digital	20 l	Ambient + 5°C – 380°C	60 – 1600 rpm	Aluminum	ø 13,5 cm	26,7 × 12,6 × 17,3 cm	2,6 kg	30500623

Accessories

Material description	e-G71HS07C	e-G71HS10C	e-G71HSRDM	Item N°
Base Plate, 135 mm			•	30500570
Handles, for Base Plate			•	30500571
Sectional Block, 12 mm Vials			•	30500572
Sectional Block, 15 mm vials			•	30500573
Sectional Block, 17 mm Vials			•	30500574
Sectional Block, 21 mm Vials			•	30500575
Sectional Block, 28 mm Vials			•	30500576
Sectional Block, 12 mm Test Tubes			•	30500577
Sectional Block, 16 mm Test Tubes			•	30500578
Sectional Block, 20 mm Test Tubes			•	30500579
Sectional Block, 25 mm Test Tubes			•	30500580

Material description	e-G71HS07C	e-G71HS10C	e-G71HSRDM	Item N°
Uni Block, 12 mm Vials			•	30500581
Uni Block, 15 mm vials			•	30500582
Uni Block, 17 mm Vials			•	30500583
Uni Block, 21 mm Vials			•	30500584
Uni Block, 28 mm Vials			•	30500585
Uni Block, 12 mm Test Tubes			•	30500586
Uni Block, 16 mm Test Tubes			•	30500587
Uni Block, 20 mm Test Tubes			•	30500588
Uni Block, 25 mm Test Tubes			•	30500589
Temperature Probe 20 cm S/S	•	•	•	30500590
Temperature Probe 20 cm PTFE	•	•	•	30500591
Temperature Probe 25 cm S/S	•	•	•	30500592
Temperature Probe 25 cm PTFE	•	•	•	30500593
In Use Cover Guardian 7×7	•			30500594
In Use Cover Guardian 10×10		•		30500595
In Use Cover Guardian Round			•	30500596
Vessel Clamp	•	•	•	30500597
Stir Bar Retriever	•	•	•	30500598
Clamp, Specialty, Nester, CLS-NESTXS	•	•	•	30392318
Clamp, Specialty, Column, CLS-COLMNSL	•	•	•	30392316
Clamp, Specialty, Column, CLS-COLMNSM	•	•	•	30392315
Clamp, Specialty, Column, CLS-COLMNSS	•	•	•	30392314
Clamp, Specialty, Column, CLS-COLMNSX	•	•	•	30392317
Ultra Flex Support Kit	•	•	•	30400145
Support Rod And Clamp Kit	•	•	•	30400146
Spinbar 2,5 cm PTFE	•	•	•	30400147
Spinbar 3,8 cm PTFE	•	•	•	30400148
Spinbar 7 cm PTFE	•	•	•	30400149
Spinbar 10 cm with Pivot Ring PTFE	•	•	•	30400150
Wireless Dongle MTICWD-200*	•	•	•	30412537

*Wireless Dongle accessory required to enable SmartLink™ feature.

GUARDIAN™5000

Expertly Engineered Hotplate Stirrers with Premium Safety and Versatility Features for Everyday Use



Application

Temperature Sensitive Chemistry and Biology, Heat Fixation, Solution pH Optimization, Solution Sterilization, Endothermic Reactions, Denaturing of Organic Material, Sample and Solution Preparation, Dissolving Buffers and Reagents, Preparing Media, Boiling

Display

Backlit LCD display with white characters, integrated heating/stirring status indicators in green and a prominent hot top indicator in yellow

Operation

100-120 VAC or 220-240VAC 50/60Hz power entry, rotary switch knob(s) control

Communication

RS232 for data logging and remote control

Construction

Robust full metal housing, ceramic square top plate or ceramic-coated aluminum round top plate, high performance SmCo magnet

Design Features

Large dip angle front panel for easy monitoring from a distance, smooth enclosure surfaces for easy cleaning, audible alarm, IP32 protection, rapid install splashing shield (optional)



Our signature SafetyHeat™ and SmartHeat™ features combined with the new Run Dry Protection system plus the Time Run mode and the optional Splash Shield provide complete safety.

The evolved SmartRate™ system supports heating & stirring from fast and intensive to soft and precise, with a range of accessories to empower a variety of applications.

An intuitive user interface featuring a large, bright LCD screen with white characters & knob button(s), allows for user friendly operation. RS232 port included for remote control or data logging.

Model	Function	Control	Stirring Capacity	Temp. Range	Speed Range	Top Plate Material	Plate Size	Dimensions	Net Weight	Item N°
e-G52HP07C	Heating	Digital	–	Ambient + 5°C – 550°C	–	Ceramic	18×18 cm	32,9×22,1×11,6 cm	3,9 kg	30541644 30532080*
e-G52HS07C	Heating and Stirring	Digital	20 l	Ambient + 5°C – 550°C	50 – 1800 rpm	Ceramic	18×18 cm	32,9×22,1×11,6 cm	4,6 kg	30541642 30532109*
e-G52HS10C	Heating and Stirring	Digital	22 l	Ambient + 5°C – 500°C	50 – 1800 rpm	Ceramic	26×26 cm	40,2×28,7×11,8 cm	6,7 kg	30541648 30910735*
e-G52HSRDA	Heating and Stirring	Digital	20 l	Ambient + 5°C – 360°C	50 – 1800 rpm	Ceramic Coated Aluminum	ø 13,5 cm	25,9×17,5×10,8 cm	2,6 kg	30541640 30981784*
e-G52ST07C	Stirring	Digital	20 l	–	50 – 1800 rpm	Ceramic	18×18 cm	32,9×22,1×11,6 cm	4,5 kg	30541646

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

Accessories

Material description	e-G52HSRDA	e-G52HS10C	e-G52HS07C	e-G52HP07C	e-G52ST07C	Item N°
Probe PT100(A) -40~400C 25 cm SS316/304	•	•	•	•		30973654
Probe PT1000(A) -40~400C 20 cm SS316/304	•	•	•	•		30500590
Probe PT1000(A) -40~400C 25 cm SS316/304	•	•	•	•		30500592
Probe PT1000(A) -40~400C 25 cm Hastelloy	•	•	•	•		30973655
Probe PT1000(A) -40~200C 20 cm PTFE	•	•	•	•		30500591
Probe PT1000(A) -40~200C 25 cm PTFE	•	•	•	•		30500593
Interface Kit, RS232-USB	•	•	•	•	•	30304101
Interface Kit, RS232-Ethernet	•	•	•	•	•	30304102

Material description	e-G52HSRDA	e-G52HS10C	e-G52HS07C	e-G52HP07C	e-G52ST07C	Item N°
Probe Holder Kit-1	•	•	•	•	•	30973298
Ultra Flex Support Kit*	•	•	•	•	•	30400145
Support Rod And Clamp Kit	•	•	•	•	•	30400146
Spinbar 2,5 cm PTFE	•	•	•		•	30400147
Spinbar 3,8 cm PTFE	•	•	•		•	30400148
Spinbar 7 cm PTFE	•	•	•		•	30400149
Spinbar 10 cm with Pivot Ring PTFE	•	•	•		•	30400150
Spinbar with a Pivot 3,8 cm PTFE **	•	•	•		•	30726783
Stir Bar Retriever	•	•	•		•	30500598
Clamp, Holder, CLC-CLMPHA	•	•	•	•	•	30392195
Vessel Clamp	•	•	•	•	•	30500597
Clamp, Specialty, Column, CLS-COLMNSS	•	•	•	•	•	30392314
Clamp, Specialty, Column, CLS-COLMNSM	•	•	•	•	•	30392315
Clamp, Specialty, Column, CLS-COLMNSL	•	•	•	•	•	30392316
Clamp, Specialty, Column, CLS-COLMNSX	•	•	•	•	•	30392317
Clamp, Specialty, Nester, CLS-NESTXS	•	•	•	•	•	30392318
Splash Shield for e-G52XX07C			•	•	•	30910731
Splash Shield for e-G52HS10C		•				30910732
Splash Shield for e-G52HSRDA	•					30910733
Silicone Cover for e-G52HSRDA	•					30910734
Base Plate 135 mm	•					30500570
Handles for Base Plate	•					30500571
Sectional Block 12 mm Vials	•	•	•	•		30500572
Sectional Block 15 mm vials	•	•	•	•		30500573
Sectional Block 17 mm Vials	•	•	•	•		30500574
Sectional Block 21 mm Vials	•	•	•	•		30500575
Sectional Block 28 mm Vials	•	•	•	•		30500576
Sectional Block 12 mm Test Tubes	•	•	•	•		30500577
Sectional Block 16 mm Test Tubes	•	•	•	•		30500578
Sectional Block 20 mm Test Tubes	•	•	•	•		30500579
Sectional Block 25 mm Test Tubes	•	•	•	•		30500580
Uni Block 12 mm Vials	•	•	•	•		30500581
Uni Block 15 mm vials	•	•	•	•		30500582
Uni Block 17 mm Vials	•	•	•	•		30500583
Uni Block 21 mm Vials	•	•	•	•		30500584
Uni Block 28 mm Vials	•	•	•	•		30500585
Uni Block 12 mm Test Tubes	•	•	•	•		30500586
Uni Block 16 mm Test Tubes	•	•	•	•		30500587
Uni Block 20 mm Test Tubes	•	•	•	•		30500588
Uni Block 25 mm Test Tubes	•	•	•	•		30500589
Clamp, Specialty, Rod, CLS-RODS***	•					30392233

*30400145 needs a separate double clamp or hook clamp for securing on Guardian 5000

**30726783 pack of 5 spinbars

***30392233 is for use with the 30500570 Base Plate only

GUARDIAN™3000

Affordable Digital Hotplate Stirrers Designed for Safety, Powerful Stirring and Fast Heating

Application

Boiling Liquids, Water/Oil Bath Preparation, Sample and Solution Preparation, Dissolving Buffers and Reagents, Preparing Media, Concentrating Samples

Display

Backlit LCD Display for temperature and speed, green indicator lights when unit is heating and stirring, prominent hot top indicator light, probe in use icon, Single Point Calibration icon

Operation

Stirring from 80 to 1600 rpm, temperature range of ambient +5°C to 500°C (ceramic top) or 380°C (ceramic coated stainless steel top), power cord (included), stirring models include one PTFE coated stir bar

Construction

Durable metal housing, PET front panel, control knobs, ON/OFF switch for heater disconnect, built-in support rod holder, easy to clean ceramic or ceramic coated stainless steel tops

Design Features

Hot top indicator light to protect user, green indicator lights illuminate when unit is heating and stirring, temperature probe connector for use with optional temperature probe



Industry leading safety at affordable prices. Guardian 3000 units offer safety, controlled heating and powerful stirring for general laboratory use - all at a competitive price point.

SafetyHeat™ protects the lab. An industry-leading early detection system uses two independent safety controls to monitor the electronics and stop heating before an overtemperature condition occurs.

Designed to last - the rugged metal housing has a spill-resistant design for long life in the lab under harsh conditions. The smooth, chemical-resistant ceramic top makes for easy clean ups.

Model	Function	Control	Capacity	Temp. Range	Speed Range	Top Plate Material	Plate Size	Dimensions	Net Weight	Item N°
e-G31HS04C	Heating and Stirring	Digital	15 l	Ambient +5°C–500°C	80–1600 rpm	Ceramic	10,2×10,2 cm	26,4×11,0×16,3 cm	2,5 kg	30680280
e-G31HS07C	Heating and Stirring	Digital	15 l	Ambient +5°C–500°C	80–1600 rpm	Ceramic	17,8×17,8 cm	31,8×11,2×22,3 cm	3,9 kg	30680279
e-G31HSRDS	Heating and Stirring	Digital	15 l	Ambient +5°C–380°C	80–1600 rpm	Ceramic-Coated Stainless Steel	ø 13,5 cm	26,4×10,1×16,3 cm	2,5 kg	30680278

Accessories

Material description	e-G31HS04C	e-G31HS07C	e-G31HSRDS	Item N°
Base Plate 135 mm			•	30500570
Handles for Base Plate			•	30500571
Sectional Block 12 mm Vials			•	30500572
Sectional Block 15 mm vials			•	30500573
Sectional Block 17 mm Vials			•	30500574
Sectional Block 21 mm Vials			•	30500575
Sectional Block 28 mm Vials			•	30500576
Sectional Block 12 mm Test Tubes			•	30500577
Sectional Block 16 mm Test Tubes			•	30500578
Sectional Block 20 mm Test Tubes			•	30500579
Sectional Block 25 mm Test Tubes			•	30500580
Uni Block 12 mm Vials			•	30500581

Material description	e-G31HS04C	e-G31HS07C	e-G31HSRDS	Item N°
Uni Block 15 mm vials			•	30500582
Uni Block 17 mm Vials			•	30500583
Uni Block 21 mm Vials			•	30500584
Uni Block 28 mm Vials			•	30500585
Uni Block 12 mm Test Tubes			•	30500586
Uni Block 16 mm Test Tubes			•	30500587
Uni Block 20 mm Test Tubes			•	30500588
Uni Block 25 mm Test Tubes			•	30500589
Clamp, Specialty, Rod, CLS-RODS**			•	30392233
Temperature Probe 20 cm S/S	•	•	•	30500590
Temperature Probe 20 cm PTFE	•	•	•	30500591
Temperature Probe 25 cm S/S	•	•	•	30500592
Temperature Probe 25 cm PTFE	•	•	•	30500593
Vessel Clamp	•	•	•	30500597
Stir Bar Retriever	•	•	•	30500598
Clamp, Specialty, Column, CLS-COLUMNSS	•	•	•	30392314
Clamp, Specialty, Column, CLS-COLMNSM	•	•	•	30392315
Clamp, Specialty, Column, CLS-COLMNSL	•	•	•	30392316
Clamp, Specialty, Column, CLS-COLMNSX	•	•	•	30392317
Clamp, Specialty, Nester, CLS-NESTXS	•	•	•	30392318
Spinbar 2,5 cm PTFE	•	•	•	30400147
Spinbar 3,8 cm PTFE	•	•	•	30400148
Spinbar 7 cm PTFE	•	•	•	30400149
Spinbar 10 cm with Pivot Ring PTFE	•	•	•	30400150
Spinbar 3,8 cm with Pivot Ring PTFE*	•	•	•	30726783
Holder Kit Thermometer e-G31	•	•	•	30692826

* pack of 5 spinbars

** 30392233 is for use with the 30500570 Base Plate only

GUARDIAN™2000

Rugged and Reliable Analog Hotplates and Stirrers for General Purpose Heating and Stirring

Application

Boiling Liquids, Basic Sample and Solution Preparation, Dissolving Buffers and Reagents, Preparing Media, Concentrating Samples

Display

Prominent hot top indicator light, green indicator lights when unit is heating and stirring

Operation

Simple knob control, stirring up to 1600 rpm, temperature up to 500°C (ceramic top) or 380°C (ceramic coated stainless steel top), power cord (included), stirring models include PTFE coated stir bar

Construction

Durable metal housing, PET front panel, control knobs, ON/OFF switch for heater disconnect, built in support rod holder, easy to clean resin, ceramic or ceramic coated stainless steel tops

Design Features

Hot top indicator light to protect user, green indicator lights illuminate when unit is heating and stirring



Powerful stirring and fast heating at an economical price. Safely heat up to 500°C and stir up to 15L with easy to use knob control for simple and reliable everyday heating and stirring in the lab.

Designed to last - the rugged metal housing has a spill resistant design for long life in the lab under harsh conditions. The smooth, chemical-resistant ceramic top plate is perfect for easy clean up.

Safety is of utmost importance - the prominent hot top indicator light illuminates when the heater is above 40°C, keeping the end user safe during all heating applications.

Model	Function	Control	Capacity	Temp. Range	Speed Range	Top Plate Material	Plate Size	Dimensions	Net Weight	Item N°
e-G21HS04C	Heating and Stirring	Analog	15 l	70°C – 500°C	200 – 1600 rpm	Ceramic	10,2×10,2 cm	26,4×11,0×16,3 cm	2,5 kg	30680271
e-G21HS07C	Heating and Stirring	Analog	15 l	70°C – 500°C	200 – 1600 rpm	Ceramic	17,8×17,8 cm	31,8×11,2×22,3 cm	3,9 kg	30680270
e-G21HSRDS	Heating and Stirring	Analog	15 l	50°C – 380°C	200 – 1600 rpm	Ceramic-Coated Stainless Steel	ø 13,5 cm	26,4×10,1×16,3 cm	2,5 kg	30680269
e-G21HP04C	Heating	Analog	15 l	70°C – 500°C	–	Ceramic	10,2×10,2 cm	26,4×11,0×16,3 cm	2,5 kg	30680274
e-G21HP07C	Heating	Analog	15 l	70°C – 500°C	–	Ceramic	17,8×17,8 cm	31,8×11,2×22,3 cm	3,9 kg	30680273
e-G21HPRDS	Heating	Analog	15 l	50°C – 380°C	–	Ceramic-Coated Stainless Steel	ø 13,5 cm	26,4×10,1×16,3 cm	2,5 kg	30680272
e-G21ST04R	Stirring	Analog	15 l	–	200 – 1600 rpm	Resin	10,2×10,2 cm	26,4×11,0×16,3 cm	2,1 kg	30680277
e-G21ST07R	Stirring	Analog	15 l	–	200 – 1600 rpm	Resin	17,8×17,8 cm	31,8×11,2×22,3 cm	2,8 kg	30680276
e-G21STRDS	Stirring	Analog	15 l	–	200 – 1600 rpm	Ceramic-Coated Stainless Steel	ø 13,5 cm	26,4×10,1×16,3 cm	2,5 kg	30680275

Accessories

Material description	e-G21HP04C e-G21HP07C e-G21HPRDS	e-G21ST04R e-G21ST07R e-G21STRDS	e-G21HS04C e-G21HS07C e-G21HSRDS	Item N°
Vessel Clamp	•	•	•	30500597
Stir Bar Retriever		•	•	30500598
Spinbar 2,5 cm PTFE		•	•	30400147
Spinbar 3,8 cm PTFE		•	•	30400148
Spinbar 7 cm PTFE		•	•	30400149
Spinbar 10 cm with Pivot Ring PTFE		•	•	30400150
Holder Kit Thermometer e-G31	•		•	30692826
Spinbar with a Pivot 3,8 cm PTFE *		•	•	30726783

* pack of 5 spinbars



30400157



30500571



30500572



30500573



30500574



30500575



30500576



30500577



30500578



30500579



30500580



30500581



30500582



30500583



30500584



30500585



30500586



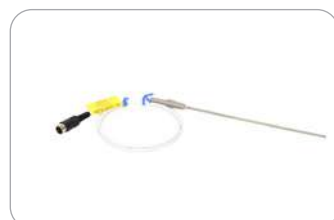
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30400150



30973298



30400145



30400146



30400147



30400149



30726783



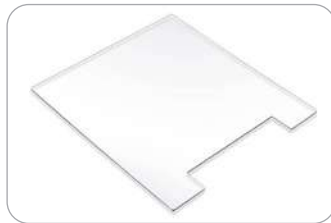
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30392314



30392318



30910731



30910732



30910733



30910734



30500570

ACHIEVER™ 5000

Reliable Overhead Stirrers with Excellent Performance for Everyday Use

Application

Stirring, dissolving, dispersion, emulsification and homogenization in the food and beverage, cosmetic, paint/coatings, pharmaceutical, chemical, glue/adhesive, plastics/polymer and cement/construction industries. Used for pilot scale in manufacturing.

Display

Bright LED digital display for speed, real time torque tendency LED indicator bar, and integrated timer

Operation

Stirring from 6 rpm to 2000 rpm with speed accuracy of 1 rpm and maximum torque from 20 Ncm to 200 Ncm depending on model, stable torque at any speed, and volume capacity ranging from 25l to 100l

Construction

Sealed aluminum housing with IP54 ingress protection rating, Keyless Chuck for simple, one-hand operation, brushless motor for quiet operation, and main power switch

Design Features

Compact design for easy handling, simple knob control, lock button to prevent unintentional setting changes, full protection for overload, overtemperature and overcurrent conditions



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.

Simplify set up with the Keyless Chuck - no tools required. Change shafts quickly and easily with one handed operation. This unique design will save time and effort for everyone in the lab.

Designed for safety. The lock button prevents accidental speed changes and the motor's overload sensing technology simply shuts off stirring before an overload condition occurs to protect the sample.

Model	Stirring Speed Range	Stirring Volume (H ₂ O)	Maximum Viscosity (cP or mPa's)	Maximum Torque (Ncm)	Item N°
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

Accessories	Item N°
Support Stand Universal-H	30586771
Support Stand Telescopic-H	30586772
Clamp Double	30586773
Clamp Ribbon	30586774
Stirrer Shaft 40×0,7 cm, Anchor Blade	30586775
Stirrer Shaft 40×0,7 cm, Fixed Blade	30586776
Stirrer Shaft 40×0,7 cm, Floating Blade	30586777
Stirrer Shaft 40×0,7cm, Folding Blade	30586778
Stirrer Shaft 51×0,7cm, Paddle 6 Holes	30586779
Stirrer Shaft 40×0,7 cm, Propeller	30586780
Stirrer Shaft 45×0,7 cm, Turbine	30586781
Stirrer Shaft 45×0,7 cm, Turbo Propeller	30586782
Chuck Cover e-A51	30586842



30586771



30586772



30586773



30586774



30586775



30586776



30586777



30586778



30586779



30586780



30586781



30586782



30586842

WHAT IS IN A MODEL NUMBER?

Overhead Stirrers



A51ST020 = Achiever 5000 Stirrer Max Torque 020 Ncm

A5	1	ST	020
Family	Generation	Function	Max Torque Ncm =
A5 = Achiever 5000	1=first	ST = Stirrer	020 040 060 100 200

BEAD MILL HOMOGENIZERS

Provides Simple and Powerful Solutions for Rapid High Throughput Grinding

Application

DNA, RNA and Protein Analysis (from mammalian tissue, plant, soil, seed, fungi, bacteria, virus and other cells), Cell Lysing, PCR, Gene Expression

Display

Easy-to-read LED display allows the operator to view speed and time settings

Operation

Five pre-set program buttons and touchpad controls for speed and time

Construction

Polyurethane Elastomer top housing, Cyclopol bottom housing, and Lexan lid

Design Features

Microprocessor-controlled unit includes sample clamp and hex key



For high performance grinding, the HT Lysing Homogenizer is one of the most flexible models on the market. The built-in adjustable holder allows for easy processing of samples – no accessories needed.

This versatile Homogenizer allows high throughput grinding, and is ideal for processing multiple tubes, microplates, deep-well plates, or any sample container that fits in the 10,2 × 12,7 × 6,4 cm holder.

Take the guesswork out of sample preparation. Five preset programs optimized for speed and time to process the most common samples, including bacteria, fungi, plant, and animal tissue easily.

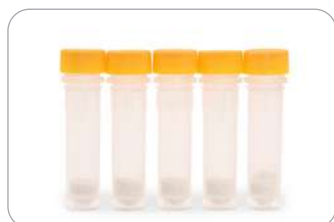
Model	Type	Speed Range	Motion	Timer	Maximim Capacity	Dimensions (L×W×H)	Item N°
HOHTDG	HT (High Throughput) Lysing	300 to 1600 rpm (1 rpm increments)	Reciprocal, vertical, 31 mm	1 second to 10 minutes (1 second increments)	300 g	44,6×28,6×51,8 cm	30391396

Accessories

Material description	Item N°
Lysing skirted tube for bacteria, 2 ml, white cap, DNase/RNase free, 100 µm Zirconium Beads, 100/box	30391402
Lysing skirted tube for yeast, 2 ml, yellow cap, DNase/RNase free, 400 µm Zirconium Beads, 100/box	30391404
Lysing skirted tube for fungi, 2 ml, blue cap, DNase/RNase free, 800 µm Zirconium Beads, 100/box	30391405
Lysing skirted tube for soft sample, 2 ml, orange cap, DNase/RNase free, 1,4 mm Zirconium Beads, 100/box	30391406
Lysing skirted tube for plant, 2 ml, green cap, DNase/RNase free, 3 mm Zirconium Beads, 100/box	30391408
Lysing skirted tube for animal tissue, 2 ml, red cap, DNase/RNase free, 3 mm Stainless Steel Grinding Balls, 100/box	30391409
Lysing skirted tube for environmental sample, 2 ml, brown cap, DNase/RNase free, 100 µm/800 µm/3 mm Zirconium Beads, 100/box	30391410
Tube Rack, 25×2 ml Tubes, 2 per pack	30391431
Sample Tube Kit, 14 Tubes; 2 each of White, Yellow, Blue, Orange, Green, Red, and Brown	30391433



30391433



30391404



30391405



30391431

CENTRIFUGES SELECTOR GUIDE

Centrifuges – features & display functions

Centrifuges – features & display functions	Multi		Micro				Multi Pro							
	FC5706	FC5707	FC5513	FC5513R	FC5515	FC5515R	FC5714	FC5718	FC5718R	FC5816	FC5816R	FC5916	FC5916R	FC5917RF Under Bench
Brushless induction drive			•	•	•	•	•	•	•	•	•	•	•	•
Microprocessor control	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Imbalance switch-off	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Motor driven lid lock			•	•	•	•	•	•	•	•	•	•	•	•
Automatic RFID rotor identification with overspeed protection							•	•	•	•	•	•	•	•
Bioseal rotors			•	•	•	•	•	•	•	•	•	•	•	•
Acoustic signals, e.g. during operation	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Emergency release	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Stainless steel chamber				•		•	•	•	•	•	•	•	•	•
Air cooling	•	•	•		•		•	•		•		•		
CFC-free refrigeration (-20°C to +40°C)				•		•			•		•		•	•
Standstill cooling				•		•			•		•		•	•
Diagnostic program	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Program memory for 99 programs	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Quick key for short runs	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pre-cooling program				•		•			•		•		•	•
10 acceleration and deceleration profiles, unbraked stop possible	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Display of setpoint and actual value	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Preselection of speed or RCF in increments of 10	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Run-time preselection from 10 s to 99 h 59 min, as well as continuous run function	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Simple operation via central potentiometer	•				•	•				•	•	•	•	•
Operating panel with touch function		•	•	•										
Timer function: the centrifuge starts at the pre-set time					•	•	•	•	•	•	•	•	•	•
Page No.	185		183				172							

WHAT IS IN A MODEL NUMBER?

Centrifuges



FC5916R = Fontier 5000 Centrifuge, large universal, 16 000 rpm, refrigerated

FC	5	9	16	R	–	–
Family	Series	Type	Speed (RPM)	refrigeration	Kit	F
FC = Frontier Centrifuge	5 = 5000	3 = mini 5 = micro 7 = small universal 8 = medium universal 9 = large universal	16 = 16 000	blank = non-refrigerated R = refrigerated	blank = only centrifuge K = centrifuge + rotor L = centrifuge + rotor (light / micro kit)	F = floor standing centrifuge

FRONTIER™ 5000 SERIES MULTI PRO

Powerful and Versatile Universal Centrifuges for Virtually Every Lab Application

Application

Centrifugal Separation, General Sample Preparation, Cell Pelleting, Protein Separation, Nucleic Acid Separation, Cell Concentrating, Chemical Separation, Diagnostics, Environmental Sample Preparation, Blood Sample Processing

Display

Backlit Liquid Crystal Display (LCD)

Operation

AC Power (included)

Construction

Corrosion-resistant stainless steel chamber with Polycarbonate/ABS plastic lid

Design Features

Ten acceleration & deceleration rates, selection of running time from 10s to 99h 59min or continuous, quick spin, CFC-free refrigeration system, sample temp. indication (refrigerated models), lid-locking system, over-speed protection, dual imbalance sensing

Shortcut list:

ID – auto rotor identification

Hi – version with higher speed

Vac – Vacutainer®

FA – Conical bottom / Falcon®

FB – Flat bottom

RB – Round bottom

Rim – Skirted conical bottom

Sar – Sarstedt



COMING
SOON IVD



FC5617RF Under Bench



Our multi-purpose centrifuges offer a high-speed centrifugation platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.

The intuitive design of the centrifuges & accessories enable easy access to parameter settings, and quick rotation between applications.

The performance of these centrifuges is propelled by German engineering, and high-quality components for reliable use.

Model	Rotor type	Maximum Speed	Maximum RCF	Maximum Capacity (rotor)	Temperature range	Item N°
FC5917RF	swing out	4 600 rpm	5 204 × g	4 × 1 000 ml	-20°C – 40°C	83041510
	fixed angle	16 010 rpm	26 361 × g	6 × 250 ml		
FC5917RF Under Bench	swing out	4 600 rpm	5 204 × g	4 × 1 000 ml	-20°C – 40°C	83041511
	fixed angle	16 010 rpm	26 361 × g	6 × 250 ml		
FC5830R	swing out	4 000 rpm	2 987 × g	4 × 290 ml	-20°C – 40°C	83041047
	fixed angle	30 000 rpm	65 395 × g	6 × 250 ml		
FC5720R	swing out	5 000 rpm	4 136 × g	4 × 200 ml	-20°C – 40°C	83041045
	fixed angle	20 000 rpm	38 007 × g	6 × 85 ml		
FC5916R	swing out	5 000 rpm	4 807 × g	4 × 750 ml	-20°C – 40°C	30553101
	fixed angle	16 000 rpm	24 325 × g	4 × 500 ml		
FC5916	swing out	5 000 rpm	4 807 × g	4 × 750 ml	—	30553036
	fixed angle	16 000 rpm	26 328 × g	4 × 500 ml		
FC5816R	swing out	4 500 rpm	3 780 × g	4 × 290 ml	-20°C – 40°C	30314818
	fixed angle	16 000 rpm	21 379 × g	6 × 250 ml		
FC5816	swing out	4 500 rpm	3 780 × g	4 × 290 ml	—	30314816
	fixed angle	15 000 rpm	21 379 × g	6 × 250 ml		
FC5718R	swing out	5 000 rpm	4 136 × g	4 × 200 ml	-20°C – 40°C	30314814
	fixed angle	18 000 rpm	23 542 × g	6 × 85 ml		
FC5718	swing out	5 000 rpm	4 136 × g	4 × 200 ml	—	30314812
	fixed angle	18 000 rpm	23 542 × g	6 × 85 ml		
FC5714	swing out	4 500 rpm	3 350 × g	4 × 200 ml	—	30314810
	fixed angle	14 000 rpm	18 624 × g	6 × 50 ml; 30 × 15 ml		

Accessories

Material description	Item N°
Rotor, Swing out, 4 × 1000 ml, ID, Sealable (FC5917RF and FC5917RF Under Bench)	83041512
Bucket, 1 × 1000 ml w/o Cap, 2/pk	83041513
Lid Assembly for bucket 30553121 PC, 2/pk	30553122
O-Ring for bucket 30553121 NBR, 10/pk	30553123
Rack, 1 × 500 ml D69,5 mm FB, 2/pk	83041514
Rack, 1 × 500 ml D96 mm FA, 2/pk	30553124
Rack, 1 × 250 ml D62 mm FB, 2/pk, V1	30553125
Rack, 1 × 250 ml D60 mm FA, 2/pk	83041515
Rack, 1 × 175/225 ml D61 mm FA, 2/pk	30553126
Rack, 3 × 100 ml D41 mm RB, 2/pk	30553127
Rack, 7 × 50 ml D29 mm RB, 2/pk	30553131
Rack, 5 × 50 ml D29 mm FA, 2/pk	30553128
Rack, 5 × 50 ml D29 mm FA w/R, 2/pk	30553129
Rack, 8 × 30 ml D26 mm RB, 2/pk	30553132
Rack, 18 × 15 ml D17mm RB, 2/pk	30553135
Rack, 12 × 15 ml D17mm FA, 2/pk	83041516
Rack, 21 × 10 ml D16 mm RB, 2/pk	30553136
Rack, 35 × 5-7 ml D13 mm RB, 2/pk	83041517
Rack, 27 × 1,8/7 ml D13 mm Vac/Sar, 2/pk	30553139
Rack, 18 × 4/10 ml D16 mm Vac/Sar, 2/pk	30553140
Rack, 38 × 1,1/1,4 ml D8 mm Sar, 2/pk	30559377
Rack, 24 × 1,5/2,0 ml D11 mm, 2/pk	83041040
Bucket 1 × 500 ml or 7 × MTP w/o Lid, 2/pk	83041518
Holder removing aid bucket 83041518, 2/pk	83041519
Rack, 1 × 500 ml D98 mm FB, 2/pk	83041482
Rack, 1 × 500 ml D96 mm FA, 2/pk	30553124
Rack, 2 × 250/290 ml D61 mm FB, 2/pk	83041483
Rack, 1 × 175/225 ml D61 mm FA, 4/pk	83041484
Rack, 3 × 100 ml D40 mm, 2/pk	83041485
Rack, 10 × 50 ml D29 mm RB, 2/pk	83041486
Rack, 10 × 50 ml D29 mm FA, 2/pk	83041487
Rack, 24 × 15 ml D17mm FA, 2/pk	83041488
Rack, 24 × 5 ml D17mm FA, 2/pk	83041489
Rack, 38 × 5,5-12 ml D16 mm Vac/Sar, 2/pk	83041490
Rack, 48 × 2,6-8 ml D13 mm Vac/Sar, 2/pk	83041491
Packages for Round Bucket (FC5917RF and FC5917RF Under Bench)	
Cell Culture Package for 1000 ml Bucket 83041512 Rotor Swing out 4 × 1000 ml ID Sealable; 2 × 83041513 Bucket 1 × 1000 ml w/o Cap 2/pk; 2 × 30553122 Lid Assembly for round bucket 2/pk; 2 × 30553128 Rack 5 × 50 ml D29 mm FA 2/pk; 2 × 83041516 Rack 12 × 15 ml D17 mm FA 2/pk)	83041492
Blood Tubes Package for 1000 ml Bucket 83041512 Rotor Swing out 4 × 1000 ml ID Sealable; 2 × 83041513 Bucket 1 × 1000 ml w/o Cap 2/pk; 2 × 30553122 Lid Assembly for round bucket 2/pk; 2 × 30553139 Rack 27 × 1,8/7 ml D13 mm Vac/Sar 2/pk; 2 × 30553140 Rack 18 × 4/10 ml D16 mm Vac/Sar 2/pk)	83041493
Packages for Rectangular Bucket (FC5917RF and FC5917RF Under Bench)	
Cell Culture Package for 500 ml Bucket 83041512 Rotor Swing out 4 × 1000 ml ID Sealable; 2 × 83041518 Bucket 1 × 500 ml or 7 × MTP w/o Lid 2/pk; 2 × 83041487 Rack 10 × 50 ml D29 mm FA 2/pk; 2 × 83041488 Rack 24 × 15 ml D17 mm FA 2/pk)	83041494
Blood Tubes Package for 500 ml Bucket 83041512 Rotor Swing out 4 × 1000 ml ID Sealable; 2 × 83041518 Bucket 1 × 500 ml or 7 × MTP w/o Lid 2/pk; 2 × 83041491 Rack 48 × 2,6-8 ml D13 mm Vac/Sar 2/pk; 2 × 83041490 Rack 38 × 5,5-12 ml D16 mm Vac/Sar 2/pk)	83041495
Rotor, Swing out, 4 × 750 ml, ID, Sealable (FC5916, FC5916R, FC5917RF and FC5917RF Under Bench)	30553085
Bucket, MTP, 2/pk, V1	30553104
Bucket, MTP, 2/pk, V2	30553119
Bucket, 1 × 750 ml D99 mm FB, 2/pk, V1	30602502
Rack, 1 × 500 ml D96 mm FA, 2/pk	30553124
Rack, 1 × 250 ml D60 mm FA, 2/pk	30772866
Rack, 1 × 250 ml D62 mm FB, 2/pk, V1	30553125
Rack, 1 × 175/225 ml D61 mm FA, 2/pk	30553126
Rack, 3 × 100 ml D41 mm RB, 2/pk	30553127
Rack, 5 × 50 ml D29 mm FA, 2/pk	30553128
Rack, 5 × 50 ml D29 mm FAw/R, 2/pk	30553129
Rack, 7 × 50 ml D29 mm FA, 2/pk	30553130

Material description	Item N°
Rack, 7×50 ml D29 mm RB, 2/pk	30553131
Adapter, 1×25 ml D29 mm FA, 2/pk	83041032
Rack, 8×30 ml D26 mm RB, 2/pk	30553132
Rack, 14×15 ml D17 mm FA, 2/pk	30553133
Rack, 17×15 ml D17 mm FA, 2/pk	30553134
Rack, 18×15 ml D17 mm RB, 2/pk	30553135
Rack, 21×10 ml D16 mm RB, 2/pk	30553136
Rack, 32×7 ml D13 mm RB, 2/pk	30553138
Rack, 27×1,8/7 ml D13 mm Vac/Sar, 2/pk	30553139
Rack, 24×1,5/2,0 ml D11 mm, 2/pk	83041040
Rack, 18×4/10 ml D16 mm Vac/Sar, 2/pk	30553140
Rack, 38×1,1/1,4 ml D8 mm Sar, 2/pk	30559377
Holder, Removing aid for Bucket 30553104, SS, 2/pk	30553105
Lid Assembly for bucket 30553104 PC, 2/pk	30553117
O-Ring for bucket 30553104 SIL, 2/pk	30553118
Lid Assembly for bucket 30602502 PC, 2/pk	30553122
O-Ring for bucket 30602502 NBR, 10/pk	30553123
Rotor, Angle, 4×500 ml, ID (FC5916, FC5916R, FC5917RF and FC5917RF Under Bench)	30553086
Adapter, 1×250 ml D60,5 mm FA, 2/pk	30559416
Adapter, 1×175/225 ml D61,5 mm FA, 2/pk	30559417
Adapter, 1×50 ml D29,5 mm FA, 2/pk	30559419
Adapter, 1×25 ml D29 mm FA, 2/pk	83041032
Adapter, 3×50 ml D29 mm RB, 2/pk	30559420
Adapter, 4×30 ml D25,5 mm RB, 2/pk	30559421
Adapter, 6×15 ml D17 mm FA, 2/pk	30559422
Adapter, 1×250 ml D61,5 mm FB, 2/pk	30564850
Rotor, Swing Out, 4×290 ml, ID (FC5816, FC5816R and FC5830R)	30314820
Rack, 8×4-10 ml D16 mm Vac, 2/pk	30304367
Adapter, 9×1,5/2,0 ml D11 mm, 2/pk	30304368
Screw Cap, Rack of 250 ml Rotor, 2/pk	30314901
O-ring, Rack of 250 ml Rotor, 10/pk	30314902
Rack, 1×290 ml D62 mm FB, 2/pk	83041037
Rack, 1×250 ml D62 mm FB, 2/pk	30314903
Rack, 1×100 ml D41 mm RB, 2/pk	30314904
Rack, 3×50 ml D29 mm RB, 2/pk	30314905
Rack, 3×50 ml D29 mm FA, 2/pk	30314906
Rack, 1×50 ml D34 mm RB, 2/pk, v3	30314907
Rack, 2×50 ml D29 mm Rim, 2/pk	30314908
Rack, 1×50 ml D29 mm Rim, 2/pk, v3	30314909
Adapter, 1×25 ml D29 mm FA, 2/pk	83041032
Rack, 5×25 ml D24,5 mm RB, 2/pk	30314910
Rack, 3×25 ml D24,5 mm Rim, 2/pk	30314911
Rack, 9×15 ml D17 mm RB, 2/pk	30314912
Rack, 7×15 ml D17 mm FA, 2/pk	30314913
Rack, 7×15 ml D17 mm Rim, 2/pk	30314914
Rack, 8×10 ml D16 mm RB, 2/pk	30314915
Rack, 14×5-7 ml D13 mm RB, 2/pk	30314916
Rack, 10×1,6-7 ml D13 mm Vac, 2/pk	30314917
Rotor, Swing out, 4×250 ml, ID (FC5816 and FC5816R)	30314828
Rack, 1×250 ml D62 mm FB, 2/pk	83041039
Rack, 4×50 ml D29 mm FA, 2/pk	30304375
Rack, 10×15 ml D17 mm FA, 2/pk	30314583
Rack, 14×5-7 ml D13 mm Vac/Sar, 2/pk	30314584
Rack, 12×4-10 ml D16 mm Vac/Sar, 2/pk	30314585
Rack, 18×1,1-5 ml D11 mm Sar, 2/pk	83041038
Adapter, 1×25 ml D29 mm FA, 2/pk	83041032
Rotor, Angle, 6×250 ml FB, ID (FC5816, FC5816R, FC5830R, FC5916, FC5916R, FC5917RF and FC5917RF Under Bench)	30314821
Adapter, 15×1,5/2,0 ml D11 mm MTB, 2/pk	30559412
Adapter, 1×175/225 ml D61 mm FA, 2/pk	30559414
Adapter, 8×1,5 ml D11 mm, 2/pk	30304369
Adapter, 5×10 ml D16 mm RB, 2/pk	30304370
Adapter, 4×15 ml D17 mm FA, 2/pk	30304371
Adapter, 2×30 ml D26 mm RB, 2/pk	30304372
Adapter, 1×50 ml D29 mm RB, 2/pk	30304373
Adapter, 1×25 ml D29 mm FA, 2/pk	83041032
Adapter, 1×50 ml D30 mm FA, 2/pk	30304374
Rotor, Swing out, 4×200 ml, ID (FC5714, FC5718, FC5718R and FC5720R)**	83041011
Bucket, 200 ml w/o Cap, BIOSEALS, 2/pk	83041012
Bucket, 200 ml w/Cap, BIOSEALS, 2/pk	83041013
Screw Cap, 200 ml Bucket, BIOSEALS, 2/pk	83041005
O-Ring for 200 ml Bucket, 10/pk	83041015

Material description	Item N°
Rack, 1 × 200 ml D56 mm FA, 2/pk	83041016
Rack, 1 × 100 ml D40 mm RB, 2/pk, V1	83041017
Rack, 1 × 85 ml D38 mm RB, 2/pk, V2	83041018
Rack, 1 × 50 ml D34 mm RB, 2/pk, V3	83041019
Rack, 1 × 50 ml D29 mm RB, 2/pk, V2	83041020
Rack, 1 × 50 ml D29 mm FA, 2/pk, V2	83041021
Rack, 1 × 50 ml D29 mm Rim, 2/pk, V3	83041022
Rack, 1 × 30 ml D25 mm Rim, 2/pk, V2	83041023
Rack, 1 × 30 ml D25 mm RB, 2/pk	83041024
Rack, 4 × 15 ml D17 mm FA, 2/pk	83041025
Rack, 3 × 15 ml D17 mm FA, 2/pk	83041026
Rack, 7 × 15 ml D17 mm RB/Vac, 2/pk, V1	83041027
Rack, 8 × 7 ml D13 mm RB/Vac, 2/pk	83041028
Rack, 4 × 5 ml D17 mm FA, 2/pk	83041029
Rack, 8 × 1,5/2,0 ml D11 mm, 2/pk	83041030
Bucket 2 × 50 ml D29 mm FA w/ Rack, 2/pk, V1	83041031
Rotor, Swing out, 4 × 145 ml, ID (FC5714, FC5718, FC5718R and FC5720R)	30314822
Rack, 1 × 145 ml D50 mm RB, 2/pk	83041035
Rack, 1 × 100 ml D46 mm RB, 2/pk	30314842
Rack, 1 × 85 ml D38 mm RB, 2/pk	30314843
Rack, 1 × 50 ml D34 mm RB, 2/pk	30314844
Rack, 1 × 50 ml D29 mm RB, 2/pk	30314845
Rack, 1 × 50 ml D29 mm FA, 2/pk	30314846
Rack, 1 × 50 ml D29 mm Rim, 2/pk	30314847
Rack, 1 × 30 ml D25 mm Rim, 2/pk	30314848
Rack, 1 × 25 ml D25 mm RB, 2/pk	30314849
Rack, 2 × 15 ml D17 mm FA, 2/pk	30314850
Rack, 1 × 15 ml D17 mm Rim, 2/pk	30314851
Rack, 7 × 15 ml D17 mm RB, 2/pk	30314852
Rack, 9 × 5-7 ml D13 mm RB, 2/pk	30314853
Rack, 10 × 1,5 ml D11 mm, 2/pk	30314854
Rack, 9 × 4,5 ml D12 mm FB, 2/pk	30314855
Rack, 7 × 5-7 ml D13 mm RB, 2/pk	30314856
Rack, 7 × 5-7 ml D13 mm Vac, 2/pk	30314857
Rack, 5 × 4-10 ml D16 mm Sar, 2/pk	30314858
Adapter, 1 × 25 ml D29 mm FA, 2/pk	83041032
Rotor, Swing out, 4 × 100 ml, ID, Sealable (FC5714, FC5718, and FC5718R)	30314823
Bucket, 100 ml w/o Cap, 2/pk	30314860
Bucket, 100 ml w/ Cap, Sealable, 2/pk	30314861
Screw Cap, 100 ml Bucket, Sealable, 2/pk	30314862
O-ring, 100 ml Bucket, Sealable, 10/pk	30314863
Rack, 1 × 100 ml D40 mm RB, 2/pk	30314864
Rack, 1 × 85 ml D38 mm RB, 2/pk, v2	30314865
Rack, 1 × 50 ml D34 mm RB, 2/pk, v2	30314866
Rack, 1 × 50 ml D29 mm RB, 2/pk, v2	30314867
Rack, 1 × 50 ml D29 mm FA, 2/pk, v	30314868
Rack, 1 × 50 ml D29 mm Rim, 2/pk, v2	30314869
Rack, 1 × 30 ml D25 mm Rim, 2/pk, v2	30314870
Rack, 1 × 25 ml D25 mm RB, 2/pk, v2	30314871
Rack, 1 × 15 ml D17 mm FA, 2/pk	30314872
Rack, 2 × 15 ml D17 mm FA, 2/pk, v2	30314873
Rack, 2 × 15 ml D17 mm Rim, 2/pk	30314874
Rack, 4 × 15 ml D17 mm RB, 2/pk	30314875
Rack, 7 × 5-7 ml D13 mm RB, 2/pk, v2	30314876
Rack, 5 × 1,5 ml D11 mm, 2/pk	30314877
Rack, 3 × 10 ml D17 mm Sar, 2/pk	30314878
Rack, 4 × 5-7 ml D13 mm RB, 2/pk	30314879
Rack, 4 × 10 ml D17 mm Vac, 2/pk	30314880
Bucket, 2 × 50 ml D29 mm FA, w/ Rack, 2/pk	30314881
Bucket, 3 × 15 ml D17 mm FA, w/ Rack, 2/pk	30314882
Adapter, 1 × 25 ml D29 mm FA, 2/pk	83041032
Rotor, Angle, 6 × 85 ml RB, ID, Hi (FC5718, FC5718R and FC5720R)	30314825
Adapter, 1 × 15 ml D17 mm RB, 2/pk	30314893
Adapter, 1 × 30 ml D25 mm RB, 2/pk	30314894
Adapter, 1 × 50 ml D29 mm RB, 2/pk, v2	30314895
Adapter, 1 × 50 ml D29 mm FA, 2/pk	30314896
Adapter, 1 × 15 ml D17 mm FA, 2/pk	30314897
Adapter, 2 × 15 ml D17 mm RB, 2/pk	30314898
Adapter, 1 × 16 ml D18 mm RB, 2/pk	30314899
Adapter, 1 × 50 ml D29 mm Rim, 2/pk V4	83041033
Adapter, 1 × 15 ml D17 mm Rim, 2/pk	83041034

Material description	Item N°
Rotor, Angle, 6×85 ml RB, ID (FC5718, FC5718R, FC5720R, FC5816, FC5816R, FC5830R, FC5916 and FC5916R)	30314826
Adapter, 1×15 ml D17 mm RB, 2/pk	30314893
Adapter, 1×30 ml D25 mm RB, 2/pk	30314894
Adapter, 1×50 ml D29 mm RB, 2/pk, v2	30314895
Adapter, 1×50 ml D29 mm FA, 2/pk	30314896
Adapter, 1×25 ml D29 mm FA, 2/pk	83041032
Adapter, 1×15 ml D17 mm FA, 2/pk	30314897
Adapter, 2×15 ml D17 mm RB, 2/pk	30314898
Adapter, 1×16 ml D18 mm RB, 2/pk	30314899
Rotor, Angle, 4×85 ml RB, ID, Hi (FC5718, FC5718R, FC5720R, FC5816, FC5816R, FC5830R, FC5916, FC5916R, FC5917RF and FC5917RF Under Bench)	30314827
Adapter, 1×15 ml D17 mm RB, 2/pk	30314893
Adapter, 1×30 ml D25 mm RB, 2/pk	30314894
Adapter, 1×50 ml D29 mm RB, 2/pk, v2	30314895
Adapter, 1×50 ml D29 mm FA, 2/pk	30314896
Adapter, 1×15 ml D17 mm FA, 2/pk	30314897
Adapter, 2×15 ml D17 mm RB, 2/pk	30314898
Adapter, 1×16 ml D18 mm RB, 2/pk	30314899
Rotor, Angle, 10×50 ml FA, ID (FC5718, FC5718R, FC5720R, FC5816, FC5816R, FC5830R, FC5916, FC5916R, FC5917RF and FC5917RF Under Bench)	30314829
Adapter, 1×1,5/2,0 ml D11 mm, 6/pk	30130886
Adapter, 1×7 ml D13,5 mm RB, 2/pk	30130889
Adapter, 1×5 ml D13,5 mm, 2/pk	30130890
Adapter, 1×15 ml D17 mm RB, 2/pk, V2	30472300
Adapter, 1×15 ml D17 mm FA, 2/pk, V2	30472307
Adapter, 1×25 ml D29 mm FA, 2/pk	83041032
Rotor, Angle, 6×50 ml RB/FA, ID (FC5714, FC5718, FC5718R and FC5720R)	30314830
Adapter, 1×1,5/2,0 ml D11 mm, 6/pk	30130886
Adapter, 1×7 ml D13,5 mm RB, 2/pk	30130889
Adapter, 1×5 ml D13,5 mm, 2/pk	30130890
Adapter, 1×30 ml D26 mm, 2/pk	30130891
Adapter, 1×16 ml D18 mm, 2/pk	30130892
Adapter, 1×15 ml D17 mm, 2/pk	30130893
Adapter, 1×15 ml D17 mm RB/FA, 2/pk, v2	30130894
Adapter, 1×25 ml D29 mm FA, 2/pk	83041032
Rotor, Angle, 6×50 ml RB, ID, Hi (FC5718, FC5718R, FC5720R, FC5816, FC5816R, FC5830R, FC5916 and FC5916R)	30314831
Adapter, 1×30 ml D26 mm, 2/pk	30130891
Adapter, 1×16 ml D18 mm, 2/pk	30130892
Adapter, 1×15 ml D17 mm, 2/pk	30130893
Adapter, 1×15 ml D17,5 mm FA, 2/pk	30314892
Rotor, Angle, 30×15 ml RB/FA, ID (FC5714, FC5718, FC5718R, FC5720R, FC5816, FC5816R and FC5830R)	30314832
Adapter, 1×9-10 ml D16 mm Vac/Sar, 2/pk	30211180
Adapter, 1×1,5/2,0 ml D11 mm, 6/pk	30130886
Adapter, 1×7 ml D13,5 mm RB, 2/pk	30130889
Adapter, 1×5 ml D13,5 mm, 2/pk	30130890
Rotor, Angle, 12×15 ml RB/FA, ID (FC5714, FC5718, FC5718R and FC5720R)	30314834
Adapter, 1×1,5/2,0 ml D11 mm, 6/pk	30130886
Adapter, 1×7 ml D13,5 mm RB, 2/pk	30130889
Adapter, 1×5 ml D13,5 mm, 2/pk	30130890
Rotor, Angle, 20×10 ml RB, ID, Hi (FC5718, FC5718R, FC5720R, FC5816, FC5816R, FC5830R, FC5916 and FC5916R)	30314833
Rotor, Angle, 12×5 ml FA, ID, Sealable (FC5714, FC5718, FC5718R)**	83041010
Adapter, 1×1,5/2,0 ml D11 mm, 6/pk	30130886
Adapter, 1×1 ml D12,6 mm Cryo, 6/pk	30130887
Adapter, 1×1 ml D12,6 mm Cryo, 6/pk	30130888
Rotor, Angle, 44×1,5/2,0 ml, ID, V2 (FC5718, FC5718R, FC5720R, FC5816, FC5816R, FC5916 and FC5916R)	30372718
Adapter, 1×0,2/0,4 ml D6 mm, 6/pk	30130884
Adapter, 1×0,5 ml D8 mm, 6/pk	30130885
Rotor, Angle, 30×1,5/2,0 ml, ID, Sealable (FC5714, FC5718, FC5718R, FC5720R, FC5830R, FC5916 and FC5916R)	30314836
Adapter, 1×0,2/0,4 ml D6 mm, 6/pk	30130884
Adapter, 1×0,5 ml D8 mm, 6/pk	30130885
Rotor, Angle, 24×1,5/2,0 ml, ID, BIOSEALS, V1 (FC5714, FC5718, FC5718R, FC5816, FC5816R, FC5720R, FC5916 and FC5916R)	83041238
Adapter, 1×0,2/0,4 ml D6 mm, 6/pk	30130884
Adapter, 1×0,5 ml D8 mm, 6/pk	30130885
Adapter, 1×0,2/0,4 ml D6 mm, 6/pk	30130884
Adapter, 1×0,5 ml D8 mm, 6/pk	30130885
Rotor, Angle, 24×1,52,0 ml, ID, BIOSEALS (FC5720R)	30304361
Rotor, Angle, 12×1,5/2,0 ml, ID (FC5718 and FC5718R)	30314839
Adapter, 1×0,2/0,4 ml D6 mm, 6/pk	30130884
Adapter, 1×0,5 ml D8 mm, 6/pk	30130885
Adapter, 1×1,5 ml for over 16000×g, 6/pk	30314900
Rotor, Swing out, 2×3MTP, w/ bucket, ID	30314824

Material description	Item N°
Bucket, 3 × MTP, 2/pk	30314890
Adapter, 48 × 1,5/2,0 ml D11 mm, 2/pk	30314891
Rotor, Angle, 4 × 8-w PCR Strip, ID (FC5718, FC5718R, FC5720R, FC5916 and FC5916R)	30314841
Vaseline for Rotors	30314586

** ONLY compatible with new software version of the following centrifuges: FC5714 SN117, FC5718 SN188, FC5718R SN119



83041512



83041492



83041493



83041494



83041495



83041513



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83041519



83041484



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83041031

FRONTIER™ 5000 SERIES MICRO

Dependable Benchtop Micro Centrifuges Ideal for High-Speed Lab Applications

COMING SOON **IVD**

Application

Centrifugation

Display

LCD backlight, two lines

Operation

AC Power (included)

Construction

Brushless quiet motor, small footprint

Design Features

High sample throughput, multi-safety control, personal program foundation

Shortcut list:

ID – auto rotor identification

Hi – version with higher speed

Vac – Vacutainer®

FA – Conical bottom / Falcon®

FB – Flat bottom

RB – Round bottom

Rim – Skirted conical bottom

Sar – Sarstedt



Frontier Micro centrifuges offer a 1,5/2ml microtube rotor with a biocontainment option. Additional rotor options support 5ml microtubes, spin columns, PCR stripes, and hematocrit capillary tubes.

Designed for ease of operation, Frontier Micro centrifuges feature convenient control on an intuitive interface, which allows for responsive operation – even when wearing gloves.

Enclosing all their functionalities within a small footprint, Frontier Micro centrifuges save valuable space on the lab bench.

Model	Rotor type	Maximum Speed	Maximum RCF	Maximum Capacity (rotor)	Temperature range	Item N°
FC5515R	fixed angle	15 200 rpm	21 953 × g	44 × 1,5/2,0 ml	-20°C – 40°C	30130868
FC5515	fixed angle	15 200 rpm	21 953 × g	44 × 1,5/2,0 ml	—	30130866
FC5513R	fixed angle	14 500 rpm	17 157 × g	24 × 1,5/2,0 ml	-20°C – 40°C	83041041
FC5513	fixed angle	13 500 rpm	17 317 × g	24 × 1,5/2,0 ml	—	30393187
FC5513 w/R02	fixed angle	13 500 rpm	17 317 × g	24 × 1,5/2,0 ml	—	30370691
FC5513L	fixed angle	14 000 rpm	15 994 × g	18 × 1,5/2,0 ml	—	83041043

Accessories

Material description	Item N°
Rotor, Angle, 24 × 1,5/2,0ml, BIOSEALS, V2 (FC5515 and FC5515R)	30642371
Adapter, 1 × 0,2/0,4ml D6mm, 6/pk	30130884
Adapter, 1 × 0,5ml D8mm, 6/pk	30130885
Rotor, Angle, 30 × 1,5/2,0ml, Sealable (FC5515 and FC5515R)	30130872
Adapter, 1 × 0,2/0,4ml D6mm, 6/pk	30130884
Adapter, 1 × 0,5ml D8mm, 6/pk	30130885
Rotor, Angle, 44 × 1,5/2,0ml V2 (FC5515 and FC5515R)	30372717
Adapter, 1 × 0,2/0,4ml D6mm, 6/pk	30130884
Adapter, 1 × 0,5ml D8mm, 6/pk	30130885
Rotor, Angle, 12 × 5ml, Sealable (FC5515 and FC5515R)	30130873
Adapter, 1 × 1,5/2,0ml D11mm, 6/pk	30130886
Adapter, 1 × 1ml D12,6mm Cryo, 6/pk	30130887
Adapter, 1 × 1,8ml D12,6mm Cryo, 6/pk	30130888
Rotor, Angle, 4 × 8-Place PCR Strip (FC5515 and FC5515R)	30130874
Rotor, Hematocrit, 24 × Capillaries, V2 (FC5515)	83041007
Adapter, 1 × 0,2/0,4ml D6mm, 6/pk	30130884
Adapter, 1 × 0,5ml D8mm, 6/pk	30130885
Rotor, Angle, 24 × 1,5/2,0 ml, BIOSEALS, V1 (FC5513, FC5513R and FC5513-K)	30472302
Rotor, Angle, 24 × 2,0 ml Spin Column, V1 (FC5515 and FC5515R)	83041050
Adapter, 1 × 0,2/0,4ml D6mm, 6/pk	30130884

Material description	Item N°
Adapter, 1 × 0,5ml D8mm, 6/pk	30130885
Rotor, Angle, 24 × 2,0 ml Spin Column (FC5513)	30210898
Rotor, Hematocrit, 24 × Capillaries, V1 (FC5513 and FC5513-K)	30472304
Rotor, Angle, 18 × 1,5/2,0 ml Sealable (FC5513R and FC5513L)	83041006
Adapter, 1 × 0,5 ml D8mm, 6/pk	30130885
Adapter, 1 × 0,2/0,4 ml D6mm, 6/pk	30130884
Rotor, Angle, 4 × 8-Place PCR Strip, V1 (FC5513, FC5513-K and FC5513R)	83041014
Vaseline for Rotors	30314586



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30130885



30130872



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30130888



30130874



83041007



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83041014

FRONTIER™ 5000 SERIES MULTI

Reliable and Compact Multi-Function Centrifuge For Standard Life Science Separation Applications

COMING
SOON **IVD**

Application

Centrifugation

Display

LCD backlight, two lines

Operation

AC Power (included)

Construction

Brushless quiet motor, small footprint

Design Features

Easy installation design

Shortcut list:

ID – auto rotor identification

Hi – version with higher speed

Vac – Vacutainer®

FA – Conical bottom / Falcon®

FB – Flat bottom

RB – Round bottom

Rim – Skirted conical bottom

Sar – Sarstedt



Designed for ease of operation, Frontier™ Multi Centrifuges feature convenient control on an intuitive interface, which allows for responsive operation – even when wearing gloves.

Frontier™ Multi Centrifuges can accommodate standard 50ml and 15ml tubes, including common blood tubes. When used with accessories, rotors can be adapted for sizes as small as 1,5ml.

Enclosing all its functionalities within a small footprint, Frontier™ Multi Centrifuges save valuable space on the lab bench.

Model	Rotor type	Maximum Speed	Maximum RCF	Maximum Capacity (rotor)	Item N°
FC5706	swing out	4 000 rpm	1 878 × g	6 × 5 ml	30130875
	fixed angle	6 000 rpm	4 427 × g	6 × 50 ml	
FC5706 w/R77	fixed angle	6 000 rpm	4 427 × g	12 × 15 ml	30332131
FC5707 w/R05	fixed angle	6 800 rpm	4 445 × g	8 × 15 ml	30393189
FC5707 w/R09	fixed angle	6 800 rpm	4 445 × g	4 × 50 ml	83041073

Accessories

Material Description	Item N°
Rotor, Swing Out, 6 × 5ml RB (FC5706 and FC5706-K)	30130880
Buckets for swing out rotor, 2/pk	30130895
Rotor, Angle, 12 × 15ml RB/FA (FC5706 and FC5706-K)	30130877
Adapter, 1 × 9-10ml D16mm Vac/Sar, 2/pk	30211180
Adapter, 1 × 1,5/2,0ml D11mm, 6/pk	30130886
Adapter, 1 × 7ml D13,5mm, 2/pk	30130889
Adapter, 1 × 5ml D13,5mm, 2/pk	30130890
Rotor, Angle, 6 × 50ml RB/FA (FC5706 and FC5706-K)	30130878
Adapter, 1 × 30ml D26mm, 2/pk	30130891
Adapter, 1 × 16ml D18mm, 2/pk	30130892
Adapter, 1 × 15ml D17mm RB/FA, 2/pk	30130894
Adapter, 1 × 15ml D17mm RB, 2/pk	30130893
Adapter, 1 × 25ml D29mm FA, 2/pk	83041032
Rotor, Angle, 8 × 15ml RB or 4 × 15ml FA (FC5707-K)	30472305
Adapter, 1 × 7ml D13,5mm RB, 2/pk	30130889
Adapter, 1 × 5ml D13,5mm RB, 2/pk	30130890
Adapter, 1 × 1,5/2,0ml D11mm, 6/pk	30130886
Adapter, 1 × 1,1-5ml D15mm Vac/Sar, 2/pk	83041036
Rotor, Angle, 4 × 50ml RB/FA or 15ml RB/FA (FC5707-K and FC5707-K2)	83041009
Vaseline for Rotors	30314586



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FRONTIER™ 5000 SERIES MINI

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

Application

Centrifugation

Operation

AC adapter (included)

Construction

Brushless quiet motor, auto shut-off safety switches

Design Features

One-touch operation

Shortcut list:

ID – auto rotor identification

Hi – version with higher speed

Vac – Vacutainer®

FA – Conical bottom / Falcon®

FB – Flat bottom

RB – Round bottom

Rim – Skirted conical bottom

Sar – Sarstedt



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.

Model	Rotor type	Maximum Speed	Maximum RCF	Maximum Capacity (rotor)	Item N°
FC5306	fixed angle	6 000 rpm	2 000 × g	8 × 1,5/2,0 ml	30134156

Accessories

Material Description	Item N°
Rotor, Angle, 0,2ml PCR 8 × 4	30129560
Rotor, Angle, 8 × 1,5/2,0ml	30129559
Adapter, 1 × 0,2ml D6mm, 8/pk	30129561
Adapter, 1 × 0,5ml D8mm, 8/pk	30129562



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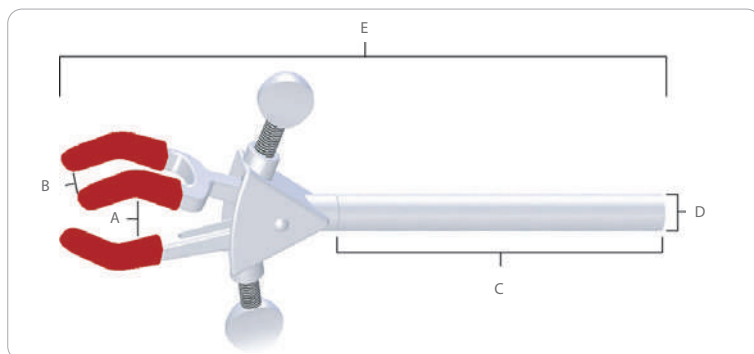
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MULTIPURPOSE CLAMPS

A LabJaws Clamp for Every Application - Choose From Over 85 Options to Hold Everything In Your Lab



Single Adjust Clamps



Dual Adjust Clamps



Corrosion-resistant stainless steel clamps provide excellent chemical resistance, durability, and can be autoclaved. Nickel-plated zinc clamps offer high-tensile strength at an economical price.

Prevent accidents in the lab - versatile multi-purpose LabJaws clamps securely hold glassware and irregularly-shaped objects. Select from a variety of grip sizes, prong styles, and adjustment types.

Choose from a variety of specialized LabJaws clamps with adjustable features to provide an exact fit for labware such as thermometers, thermocouples, columns, funnels, and round bottom flasks.

Ground Glass Joint Reference Chart

Clamp	Joint Size
Small Dual Adjust	10/30, 12/30, 14/20, 19/22, 24/40, 29/42, 34/45
Medium Dual Adjust	14/40, 19/38
Large Dual Adjust	45/50

3-Prong Single Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-ULTRA3SZS	Small	0 to 23 mm	6 mm	102 mm	8 mm	162 mm	30392254
CLM-ULTRA3SZM	Medium	0 to 50 mm	19 mm	127 mm	11 mm	229 mm	30392252
CLM-ULTRA3SZL	Large	0 to 72 mm	29 mm	127 mm	11 mm	260 mm	30392250

3-Prong Dual Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-ULTRA3DZS	Small	0 to 32 mm	6 mm	102 mm	8 mm	152 mm	30392253
CLM-ULTRA3DZM	Medium	0 to 70 mm	19 mm	127 mm	11 mm	222 mm	30392251
CLM-ULTRA3DZL	Large	0 to 103 mm	29 mm	127 mm	11 mm	260 mm	30392249

MULTI-PURPOSE CLAMPS

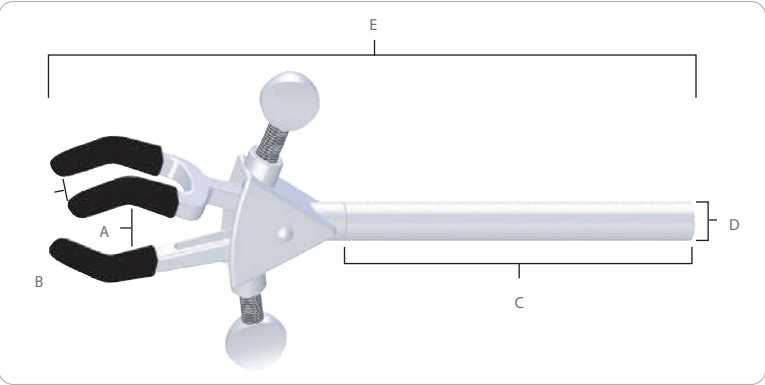
Multi-Purpose Clamps

- Stainless steel, electro-polished finish
- Large dual adjustment range
- Available in three sizes; small, medium, and large

These durable, multi-purpose clamps are made entirely of stainless steel with an electro-polished finish and offer excellent chemical resistance and overall strength. The versatile 3-prong design secures various lab apparatus such as jointed glassware, columns, flasks, and tubes. Dual prong adjustments offer a wide range of motion. Long stainless steel extension arm offers easy positioning and depth adjustment. Autoclavable. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

See the Connectors & Holders section of this catalog, pages 79-79.



3-Prong Stainless Steel Dual Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI3DSS	Small	0 to 48 mm	13 mm	102 mm	10 mm	172 mm	30392354
CLM-MULTI3DSM	Medium	0 to 69 mm	19 mm	127 mm	13 mm	229 mm	30392353
CLM-MULTI3DSL	Large	0 to 102 mm	29 mm	127 mm	13 mm	273 mm	30392352

MULTIPURPOSE CLAMPS

3-Prong Multi-Purpose Clamps

- Large grip adjustment range
- 3-prong construction
- Single or dual adjust
- Nickel-plated zinc

Designed to securely hold every type of laboratory glassware and apparatus. Long, seamless nickel-plated brass tubing attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

See the Connectors & Holders section of this catalog, pages 80-80.

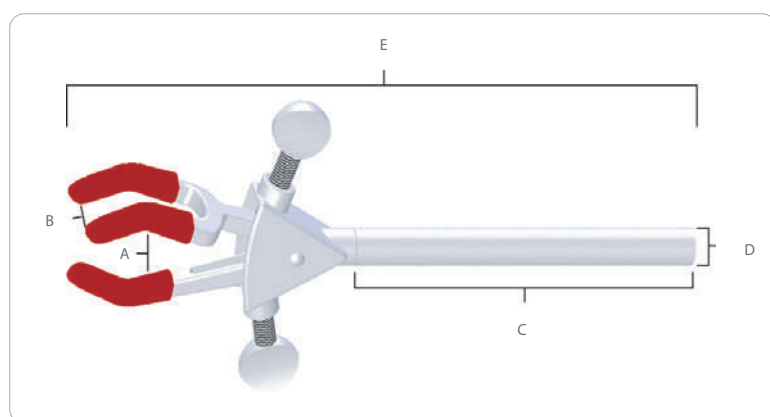


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3-Prong Dual Adjust Clamps



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3-Prong Single Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI3SZS	Small	0 to 39 mm	11 mm	102 mm	8 mm	160 mm	30392205
CLM-MULTI3SZM	Medium	0 to 71 mm	19 mm	127 mm	11 mm	218 mm	30392203
CLM-MULTI3SZL	Large	0 to 108 mm	29 mm	127 mm	11 mm	248 mm	30392200

3-Prong Dual Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI3DZS	Small	0 to 46 mm	11 mm	102 mm	8 mm	168 mm	30392204
CLM-MULTI3DZM	Medium	0 to 69 mm	19 mm	127 mm	11 mm	229 mm	30392201
CLM-MLTEX3DZM	Medium (extended)	0 to 69 mm	19 mm	305 mm	13 mm	406 mm	30392202
CLM-MULTI3DZL	Large	0 to 105 mm	29 mm	127 mm	11 mm	273 mm	30392198
CLM-MLTEX3DZL	Large (extended)	0 to 105 mm	29 mm	305 mm	13 mm	451 mm	30392199

MULTI-PURPOSE CLAMPS

2-Prong Multi-Purpose Clamps

- Stainless steel electro-polished finish or nickel-plated zinc
- Large grip adjustment range
- 2-prong construction
- Single or dual adjust

Designed to securely hold laboratory glassware and apparatus. Extension arm attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Stainless steel clamps are electro-polished and made entirely of stainless steel. They offer exceptional chemical resistance and are autoclavable. Nickel-plated zinc offers a clamp with a high tensile strength at an economical price. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

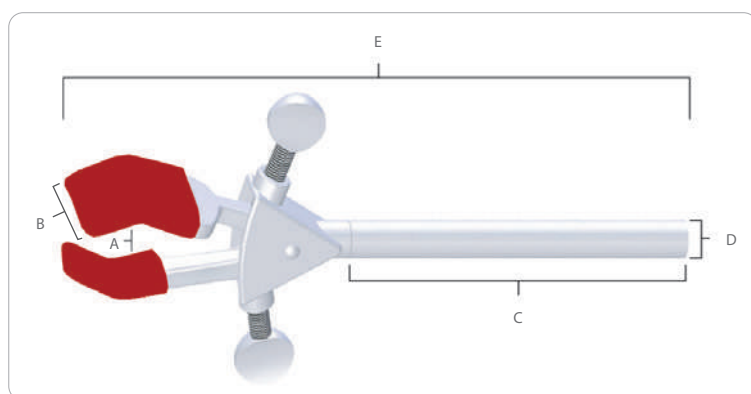
NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

See the Connectors & Holders section of this catalog, pages 81-81.

2-Prong Single Adjust Clamps



2-Prong Dual Adjust Clamps



2-Prong Single Adjust Clamps

Model	Material	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI2SZM	Nickel-plated zinc	Medium	0 to 78 mm	23 mm	127 mm	11 mm	216 mm	30392208
CLM-MULTI2SZL	Nickel-plated zinc	Large	0 to 92 mm	23 mm	127 mm	11 mm	229 mm	30392206

2-Prong Dual Adjust Clamps

Model	Material	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI2DSM	Stainless steel	Medium	0 to 75 mm	23 mm	127 mm	11 mm	229 mm	30392220
CLM-MULTI2DZM	Nickle-plated zinc	Medium	0 to 75 mm	23 mm	127 mm)	11 mm	229 mm	30392209
CLM-MULTI2DSL	Stainless steel	Large	0 to 95 mm	23 mm	127 mm	11 mm	248 mm	30392223
CLM-MULTI2DZL	Nickle-plated zinc	Large	0 to 95 mm	23 mm	127 mm	11 mm	248 mm	30392207

MULTI-PURPOSE CLAMPS

Swivel Clamps

Used to hold apparatus near the lab-frame. Unlike extension clamps, the swivel clamps have an integral holder for attaching to a lab-frame or other apparatus. Built-in holder grips rods up to 19 mm in diameter and is adjustable for forward or reverse-facing adjustment screws. Shaft wing-nut allows the holding angle of the swivel clamp to adjust through 360° of rotation and can be locked in place once desired position is achieved. Stainless steel electro-polished finish or nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.



Model	Material	Description	Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item N°
CLM-SWIVL2SSM	Stainless steel	2-Prong Single Adjust	Medium	0 to 76 mm	23 mm	163 mm	30392226
CLM-SWIVL2SZM	Nickel-plated zinc	2-Prong Single Adjust	Medium	0 to 76 mm	23 mm	163 mm	30392215
CLM-SWIVL2SZL	Nickel-plated zinc	2-Prong Single Adjust	Large	0 to 95 mm	23 mm	180 mm	30392216
CLM-SWIVL3DSM	Stainless steel	3-Prong Dual Adjust	Medium	0 to 69 mm	20 mm	178 mm	30392225
CLM-SWIVL3DZM	Nickel-plated zinc	3-Prong Dual Adjust	Medium	0 to 69 mm	20 mm	178 mm	30392214

Fixed-Position Clamps

Used to hold apparatus near the lab-frame where no adjustment is required after set-up. Built-in holder grips rods up to 19 mm in diameter Fixed-Position Clamps have an integral holder for attachment to the lab-frame or other apparatus. Available in 2-prong or 3-prong. Stainless steel electro-polished finish or nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.



Model	Material	Description	Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item N°
CLM-FIXED2SSM	Stainless steel	2-Prong Single Adjust	Medium	0 to 77 mm	23 mm	133 mm	30392230
CLM-FIXED2SZM	Nickel-plated zinc	2-Prong Single Adjust	Medium	0 to 77 mm	23 mm	133 mm	30392218
CLM-FIXED3DSM	Stainless steel	3-Prong Dual Adjust	Medium	0 to 69 mm	20 mm	146 mm	30392229
CLM-FIXED3DZM	Nickel-plated zinc	3-Prong Dual Adjust	Medium	0 to 69 mm	20 mm	146 mm	30392217

SPECIALTY CLAMPS

Thermometer Swivel Clamp

Holds glass tubes and thermometers 114 mm from support rod. Clamp features safety adjust spring plate jaws that adjust to any angle with locking wing-nut. Built-in holder grips rods up to 19 mm in diameter. Lightweight, rust, and corrosion-resistant. Nickel-plated construction.

Model	Min. to Max. Grip Size	Overall Length	Item N°
CLS-THMSWZ	6 to 8 mm	159 mm	30392238

Thermometer / Thermocouple Extension Clamp

Lightweight clamp holds glass tubing, thermometers or thermocouples up to 178 mm from support rod. Tightening wing-nut applies tension to the nickel-plated jaws.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

See the Connectors & Holders section of this catalog, pages 83-83.

Model	Min. to Max. Grip Size	Ext Arm Length	Arm Dia.	Overall Length	Item N°
CLS-THMEXZ	6 to 12 mm	127 mm	11 mm	210 mm	30392239

Wall Clamp

Ideal for securing fermentation tubes, burets or other small objects to walls where no frames are available. Integral self-tapping screw secures clamp to wall. Nickel-plated construction.

Model	Min. to Max. Grip Size	Overall Length	Item N°
CLS-WALLCZ	5 to 10 mm	80 mm	30392244

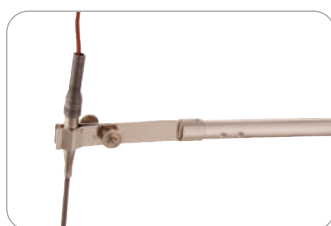
Water Bath Clamps

Holds a variety of apparatus, including glass tubes and thermometers onto glass water bath walls. Built-in holder grips walls of varying thickness, up to 9 mm. Knurled thumbscrew tightens jaws to hold objects firmly. Nickel-plated zinc construction. Large water bath clamp is supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Model	Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item N°
CLS-WBATHZS	Small	5 to 10 mm	N/A	89 mm	30392240



30392238



30392239



30392244



30392240

SPECIALTY CLAMPS

For the items listed below an additional holder must be purchased in order to attach clamps to frames or other apparatus. See the Connectors & Holders section of this catalog, pages 84-84.

Chain Clamps

Holds large round or irregular shaped objects firmly, yet gently, to lab-frames and rods. Quick and secure slip-on chain connection with large, easy-to-turn adjusting knob. Extension arm allows user to vary distance from the frame. Available as stainless steel clamp, constructed entirely of stainless steel with electro-polished finish or nickel-plated zinc clamp with strong, chromed-brass chain.

Stainless Steel

Model	Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-CHAINSL	Large-5	35 to 280 mm	127 mm	13 mm	206 mm	30392224

Nickel-Plated Zinc

Model	Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-CHAINZM	Small	35 to 170 mm	127 mm	13 mm	188 mm	30392235
CLS-CHAINZL	Large-5	35 to 280 mm	127 mm	13 mm	206 mm	30392259
CLS-CHNEXZL	Large-12	35 to 280 mm	305 mm	13 mm	384 mm	30392260

Column Clamps

These sturdy, easily adjusted, multi-purpose clamps are ideal for holding large cylindrical glassware and similar objects. A large, flat thumbscrew/worm-drive permits maximum tightening or removal in minimum time. Clamp is constructed of corrosion-resistant stainless steel. Ideal for chromatography columns.

Model	Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-COLMNSS	Small	65 to 89 mm	211 mm	11 mm	282 mm	30392314
CLS-COLMNSM	Medium	91 to 114 mm	211 mm	11 mm	315 mm	30392315
CLS-COLMNSL	Large	64 to 140 mm	211 mm	11 mm	338 mm	30392316
CLS-COLMNSX	X-Large	92 to 165 mm	211 mm	11 mm	368 mm	30392317

Nester Extension Clamps

Securely holds large or small glass distillation columns and odd-shaped glassware. Constructed of stainless steel with strong, chromed-brass band and chain.

Model	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-NESTXS	50 to 102 mm	152 mm	10 mm	262 mm	30392318

PVC Coated Open Extension Rings

Ideal for supporting funnels, round bottom flasks, reaction vessels, and other apparatus that require lower support. Opening in PVC coated aluminium ring allows for easy removal of sample container. PVC coating protects glassware. Long extension arm permits depth adjustment of the open ring from the lab-frame or ring stand.

Model	Ring Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-OPENRPS	76 mm	254 mm	9 mm	328 mm	30392346
CLS-OPENRPM	102 mm	305 mm	9 mm	404 mm	30392347
CLS-OPENRPL	127 mm	305 mm	11 mm	427 mm	30392348

Open Rings

Lightweight rings mount funnels, boiling flasks, and other irregular shaped objects to lab-frames. Open ring section allows items to pass in and out of support area easily, reducing risk of breakage. Aluminium construction.

Model	Ring Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-OPENRAS	76 mm	58 mm	9 mm	132 mm	30392343
CLS-OPENRAM	102 mm	58 mm	9 mm	158 mm	30392344
CLS-OPENRAL	127 mm	61 mm	11 mm	183 mm	30392345



30392224



30392235



30392259



30392260

SPECIALTY CLAMPS

Buret Holders

Stainless steel electro-polished finish or nickel-plated zinc construction. Double Buret Clamp holds any size buret from micro to 100 ml capacity. Simply compress the scissor-like mechanism, insert buret and gently release to grip. Numbers and graduation on buret remain easy to read. For height adjustments, recompress mechanism and slide buret up or down and gently release. Clamp unit with built-in reinforced hook connector attaches to optional standard support rod. Adjusting nut faces forward for easy use. Stainless steel or aluminium support rod attaches to optional porcelain base.

Support Rod (Dia. x L): 13 x 578 mm

Porcelain Base (L x W x H): 178 x 330 x 25 mm

Stainless Steel

Model	Description	Item N°
CLS-BTDBLS	Double Buret Clamp (only)	30392227
CLS-RODS	Support Rod (only)	30392233
CLS-STRODS	Support Stand with Rod	30392232
CLS-BTSETS	Double Buret Clamp & Support Stand with Rod (complete)	30392231

Nickel-Plated Zinc

Model	Description	Item N°
CLS-BTDBLZ	Double Buret Clamp (only)	30392234
CLS-STRODA	Support Stand with Rod	30392312
CLS-BTSETA	Double Buret Clamp & Support Stand with Rod (complete)	30392313

Kettle Clamps

Holds flask and cover together firmly. Three insulated spring-activated clamping arms. Stainless steel springs. For use on reaction kettles.

Model	Flask Size	Inside Dia.	Item N°
CLS-KTLCLS	500 ml, 1000 ml	125 mm	30392365
CLS-KTLCLM	2000 ml, 3000 ml, 4000 ml	142 mm	30392366

Electrode Support Clamp

Permits suspension of electrodes over beaker for potentiometric titrations. Holds any electrode clamp at desired level. Built-in nickel-plated zinc holder grips rods up to 19 mm in diameter.

Model	Overall Length	Item N°
CLS-ELECTZ	178 mm	30392242

Suspension Clamp

Holds thermometers, potash bulbs or drying tubes 114 mm from support rod. Machine tapered, nickel-plated brass hook won't bend, rust, or corrode. Built-in holder grips rods up to 19 mm in diameter.

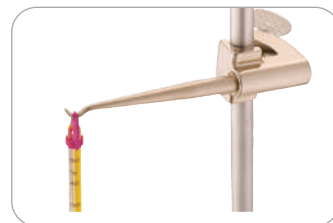
Model	Overall Length	Item N°
CLS-SUSPNB	137 mm	30392243



30392238



30392365

30392242 ELECTRODE
HOLDER NOT INCLUDED

30392243

SPECIALTY CLAMPS

Ultra Flex Support Systems have unique flexible arms that are extremely versatile and can be placed in virtually any position or angle. Ultra Flex comes in three different systems; base plate, lab-frame connector, and bench clamp. Each system includes a 2-Prong Clamp Head, 3-Prong Clamp Head, Spring Clamp Head, nickel-plated flex arm in 305 mm or 457 mm length, and utility wrench. 2-prong and 3-prong clamp heads also supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

2-PRONG CLAMP HEAD



3-PRONG CLAMP HEAD



SPRING CLAMP HEAD



Arm Length	Ultra Flex 12 Ultra Flex 18	305 mm 457 mm
Arm Diameter		13 mm
Max. Grip Size	2-Prong Clamp Head 3-Prong Clamp Head Spring Clamp Head	75 mm 69 mm 13 mm

Ultra Flex Support System with Base Plate

OHAUS Ultra Flex Support System with Base Plate is constructed of all metal and designed with a stable, painted steel base plate with chemical resistant black finish that fits easily on bench tops or in fume hoods. Base plate measures 127×127×12,7 mm.

Model	Description	Item N°
CLS-FLEXSM	Ultra Flex 12 with Base Plate	30400011
CLS-FLEXSL	Ultra Flex 18 with Base Plate	30400014

Ultra Flex Support System with Lab-Frame Connector

Ultra Flex Support System with Lab-Frame Connector securely attaches to support stands, lab-frames, or any support rod up to 19 mm in diameter. Ideal for use in fume hoods. Lab-frame connector is made of cast alloy.

Model	Description	Item N°
CLS-FLEXLM	Ultra Flex 12 with Lab-Frame Connector	30400013
CLS-FLEXLL	Ultra Flex 18 with Lab-Frame Connector	30400016

Ultra Flex Support System with Bench Clamp

Ultra Flex Support System with Bench Clamp easily attaches to the side of your lab bench or counter top, which helps utilize more space in your lab. Bench clamp is constructed of aluminium.

Model	Description	Item N°
CLS-FLEXBM	Ultra Flex 12 with Bench Clamp	30400012
CLS-FLEXBL	Ultra Flex 18 with Bench Clamp	30400015



30400014



30400013



30400015

SPECIALTY CLAMPS

Bench Clamp

Aluminium bracket with arm fastens quickly and firmly to any convenient shelf. Accepts 13 mm rods vertically and horizontally, to which ordinary rings and clamps attach, leaving bench surface clear for apparatus.

Model	Clamp Opening	Depth of Grip	Overall Length	Item N°
CLC-SHGRPA	43 mm	51 mm	197 mm	30392311

Double Jaw Utility Clamp

Swivels 360° and locks securely in desired position. These 2-prong clamps have a medium and a large clamp on each end. Nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Model	Description	Min. to Max. Grip Size	Prong Width	Overall Length	Item N°
CLS-DBJAWZ	Medium 2-Prong	0 to 76 mm	23 mm	222 mm	30392236

Accessories

Description	Item N°
Medium 2 Prong Sleeves, Vinyl	30400253
Medium 2 Prong Sleeves, Fiberglass	30400254
Large 2 Prong Sleeves, Vinyl	30400255
Large 2 Prong Sleeves, Fiberglass	30400256
Small 3 Prong Sleeves, Vinyl	30400257
Small 3 Prong Sleeves, Fiberglass	30400258
Medium 3 Prong Sleeves, Vinyl	30400259
Medium 3 Prong Sleeves, Fiberglass	30400260
Large 3 Prong Sleeves, Vinyl	30400261
Large 3 Prong Sleeves, Fiberglass	30400262
Small 3 Prong Sleeves, Vinyl Black	30400263
Medium 3 Prong Sleeves, Vinyl Black	30400264
Large 3 Prong Sleeves, Vinyl Black	30400265



30392311



30392236

CONNECTORS & HOLDERS

Regular Holder

Stainless steel electro-polished finish or nickel-plated zinc construction. Ideal for holding clamps to lab-frames. Use wherever clamping at 90° is required.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-REGLRS	Stainless steel	0 to 18 mm	30392219
CLC-REGLRZ	Nickel-plated zinc	0 to 18 mm	30392197

Jumbo Holder

Stainless steel electro-polished finish or aluminium construction. Ideal for holding clamps to lab-frames or ring stands.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-JUMBOS	Stainless steel	0 to 21 mm	30392357
CLC-JUMBOA	Aluminium	0 to 21 mm	30392196

Heavy-Duty Holder

For mounting stirrers and other apparatus. Holder is constructed of strong aluminium alloy; fitted with oversized knobs for very secure positioning. Rods supported on 102 mm long surface to avoid vibration and wobble.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-ULTRAA	Aluminium	6 to 24 mm	30400045

Swivel Holder

Two rod holders with center swivel capacity allow tilting of clamps at any angle in parallel planes. Outside adjustment screw allows close proximity between items being held. Stainless steel electro-polished or nickel-plated zinc construction.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-SWIVLS	Stainless steel	0 to 19 mm	30392228
CLC-SWIVLZ	Nickel-plated zinc	0 to 19 mm	30392213

All-Position Clamp Holder

Surpasses standard holding capabilities. The all-position clamp holder permits adjustment at any angle in any plane. Holders are set at 90° to each other, connected by a 90° connector, allowing 360° rotation. Nickel-plated zinc construction.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-ALLPSZ	Nickel-plated zinc	0 to 19 mm	30392248

Clamp Holder

Clamp is ideal for gripping 2 rods at 90°. Oversized thumbscrews make securing rods fast and easy.

Model	Material	Min. to Max. Grip Size	Overall Length	Item N°
CLC-CLMPHA	Aluminium	0 to 17 mm	70 mm	30392195



30392219



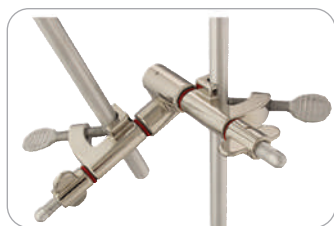
30392357



30400045



30392228



30392248



30392195

CONNECTORS & HOLDERS

Hook Connector

Stainless steel electro-polished finish or nickel-plated zinc construction. Simple, versatile, and easy-to-use. Hook connectors allow one-handed assembly of two components with one adjustment screw.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-HOOKCS	Stainless steel	0 to 13 mm	30392358
CLC-HOOKCZ	Nickel-plated zinc	0 to 13 mm	30392258

End-to-End Connector

Extend the length of lab-frame rods. Strong aluminium alloy connector permits end-to-end joining of rods. Precision boring of connector ensures perfect alignment of rods. Corrosion resistant. Comes with two set screws.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-EN2ENA	Aluminium	0 to 13 mm	30392264

Rod End Connector

Holds rods firmly at 90°. Use when semi-permanent installations are required. Comes with two set screws and is precision bored for close fit. Stainless steel electro-polished finish or nickel-plated zinc construction.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-RDENDS	Stainless steel	0 to 13 mm	30392222
CLC-RDENDZ	Nickel-plated zinc	0 to 13 mm	30392256

S-Connector

Stainless steel electro-polished finish or nickel-plated zinc construction. Clamp is ideal for constructing lab-frames or other supports requiring the connection of two perpendicular rods. Clamp connects two 13 mm rods at a 90° angle and features separate adjustment screws for each rod location.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-SCONNS	Stainless steel	0 to 13 mm	30392355
CLC-SCONNZ	Nickel-plated zinc	0 to 13 mm	30392257

Frame Connector (Pack of 12)

Improved contour delivers simplicity and strength. Angled adjustment screws allow easy set-up and prevents misalignment. Smooth, rounded surfaces are easy-to-clean. Small size maximizes lab-frame space. Bright dipped aluminium finish sealed with silicon for maximum protection against corrosion.

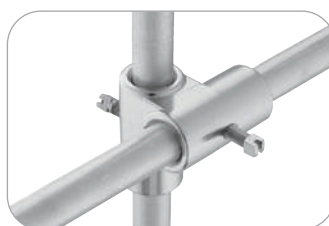
Model	Material	Min. to Max. Grip Size	Item N°
CLC-LTTCEA	Aluminium	0 to 13 mm	30392255



30392358



30392264



30392222



30392355



30392255

CONNECTORS & HOLDERS

Universal Stirrer Mounting Bracket

Use to mount stirrers and other devices to lab-frames. Aluminium mounting bracket with attachment screws.

Model	Max. Weight Mounted	Min. to Max. Grip Size	Item N°
CLC-UNSMBA	2,27 kg	0 to 20 mm	30392265

Multi-Rod Connector

Maximum adjustment capability within one connector. Two adjustment rods fit into the oval hole in the connector, preventing turning when tightened. Side and front 13 mm holes allow creation of a variety of configurations. Nickel-plated zinc construction.

Model	Min. to Max. Rod Size	Item N°
CLC-MTRODZ	0 to 13 mm	30392262

Horizontal Mounting Bars with Coupler

Threaded end for direct installation into channels. Comes with spring coupler for use in steel 41 mm channels. Locking nut included. Use with steel channel frames.

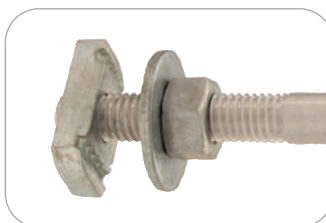
Model	Bar Length	Item N°
CLC-HTZMBA05	51 mm	30392266
CLC-HTZMBA10	102 mm	30392267
CLC-HTZMBA15	152 mm	30392268
CLC-HTZMBA20	203 mm	30392269



30392265



30392262



30392268

RODS, FRAMES, & SUPPORTS

A LabJaws Clamp for Every Application – Choose From Over 85 Options to Hold Everything In Your Lab

Corrosion-resistant lab-frames, rods, and connectors are available in premium stainless steel offering high chemical-resistance and durability. Aluminium offers reliable strength at a lighter weight.

Simplify lab set up - 13 lab-frame kit options are available with four designed to fit in fume hoods. Build your own support system choosing from a wide selection of rods, bases, and connectors.

Lab-lifts are convenient adjustable lifting platforms. Exceptional strength and durability for holding small lab equipment such as glassware, hot plates, and water baths at different heights.

Lab Frame Foot

Stainless steel electro-polished finish or nickel-plated zinc construction. Strong, durable lab-frame foot is designed for mounting lab-frames permanently to bench tops, fume hoods, walls, and floors. Spilled fluids roll right off the smooth body contour, minimizing contamination and easing clean-ups. Features a set screw and includes three 19 mm mounting screws.



Model	Material	Min. to Max. Grip Size	Dimensions (Dia. x H)	Item N°
CLR-LFOOTS	Stainless steel	0 to 13 mm	58 x 32 mm	30392356
CLR-LFOOTZ	Nickel-plated zinc	0 to 13 mm	58 x 32 mm	30392263

Frame Rods

Everything you need to customize a lab-frame to your laboratory space. Quality construction throughout. Frame rods are available in many lengths and materials.

Aluminium

Center-less ground for a precise fit. These hard aluminium rods provide a smooth fit with lab-frames. Corrosion resistant with chamfered ends for easy location.

Stainless Steel

Heavy-duty, top-of-the-line rods provide maximum strength and durability. Constructed of 303 stainless steel.



Model	Material	Rod Diameter	Rod Length	Item N°
CLR-RODA004	Aluminium	13 mm	41 mm	30392271
CLR-RODA005	Aluminium	13 mm	51 mm	30392272
CLR-RODA015	Aluminium	13 mm	152 mm	30392273
CLR-RODA030	Aluminium	13 mm	305 mm	30392274
CLR-RODA046	Aluminium	13 mm	457 mm	30392275
CLR-RODA061	Aluminium	13 mm	610 mm	30392276
CLR-RODA091	Aluminium	13 mm	914 mm	30392277
CLR-RODA122	Aluminium	13 mm	1219 mm	30392278
CLR-RODA152	Aluminium	13 mm	1524 mm	30392279
CLR-RODA183	Aluminium	13 mm	1829 mm	30392280
CLR-RODA244	Aluminium	13 mm	2438 mm	30392281
CLR-RODAX	Aluminium	13 mm	3660 mm	30392333
CLR-RODS004	Stainless Steel	13 mm	41 mm	30392293
CLR-RODS005	Stainless Steel	13 mm	51 mm	30392294
CLR-RODS015	Stainless Steel	13 mm	152 mm	30392295
CLR-RODS030	Stainless Steel	13 mm	305 mm	30392296
CLR-RODS046	Stainless Steel	13 mm	457 mm	30392297
CLR-RODS061	Stainless Steel	13 mm	610 mm	30392298
CLR-RODS091	Stainless Steel	13 mm	914 mm	30392299
CLR-RODS122	Stainless Steel	13 mm	1219 mm	30392300
CLR-RODS152	Stainless Steel	13 mm	1524 mm	30392301
CLR-RODS183	Stainless Steel	13 mm	1829 mm	30392302
CLR-RODS244	Stainless Steel	13 mm	2438 mm	30392303

RODS, FRAMES, & SUPPORTS

LabJaws offers the widest choice of standard lab frames available, plus the accessories to custom-fit any laboratory with the right frame for the job. Standard Lab-Frame sets are available in five sizes. Options of traditional center-less ground aluminium, non-corroding fiberglass, or tough stainless steel rods are available. Nickel-plated zinc connectors and lab-frame feet are standard with all kits.

Small Lab-Frame

Vertical mounting, great for glassware set-ups in small laboratories or where space is limited. Frame measures 610×610 mm. Base is 457 mm wide for stability. Base may be permanently mounted to bench top with screws (included).

Components:

- (8) 51 mm Rods
- (2) 457 mm Rods
- (8) 610 mm Rods
- (18) S-Connectors
- (4) Rod End Connectors
- (4) Lab-Frame Feet



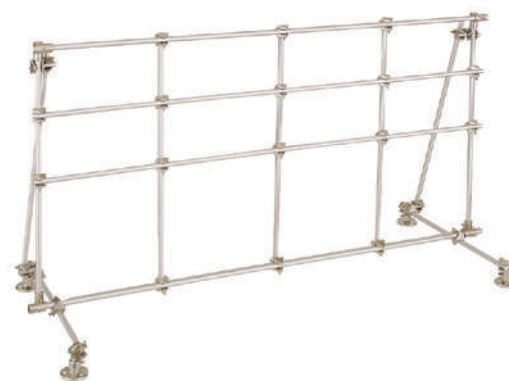
Model	Material	Frame Dimensions	Base Dimensions	Item N°
CLR-FRAMEAS	Aluminium	61×61 cm	457 mm wide	30392304
CLR-FRAMESS	Stainless Steel	61×61 cm	457 mm wide	30392323

Medium Lab-Frame

Horizontal or vertical mounting, convenient for distillation or general set-up. Frame measures 610×1219 mm. Base is 457 mm wide for stability.

Components:

- (8) 51 mm Rods
- (2) 457 mm Rods
- (7) 610 mm Rods
- (4) 1219 mm Rods
- (35) S-Connectors
- (4) Rod End Connectors
- (4) Lab-Frame Feet



Model	Material	Frame Dimensions	Base Dimensions	Item N°
CLR-FRAMEAM	Aluminium	610×1219 mm	457 mm wide	30392305
CLR-FRAMESM	Stainless Steel	610×1219 mm	457 mm wide	30392324

Large Lab-Frame

This 1219×1219 mm frame is ideal for complex glassware set-ups. Base is 457 mm wide for stability.

Components:

- (10) 51 mm Rods
- (3) 457 mm Rods
- (2) 914 mm Rods
- (10) 1219 mm Rods
- (38) S-Connectors
- (4) Rod End Connectors
- (6) Lab-Frame Feet



Model	Material	Frame Dimensions	Base Dimensions	Item N°
CLR-FRAMEAL	Aluminium	1219×1219 mm	457 mm wide	30392306
CLR-FRAMESL	Stainless Steel	1219×1219 mm	457 mm wide	30392325

RODS, FRAMES, & SUPPORTS

Extra-Large Lab-Frame

Versatile, adaptable Extra-Large Lab-Frame measures 1219×1829 mm and may be used either horizontally or vertically.

Components:

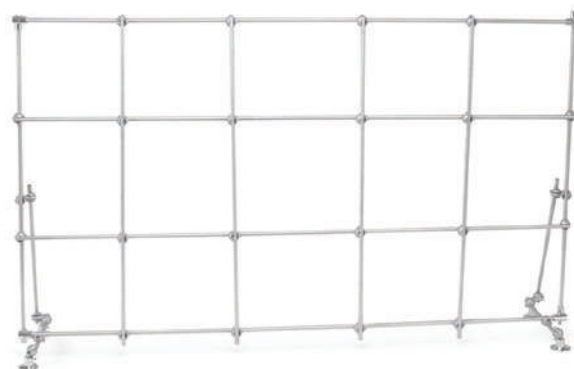
- (6) 51 mm rods
- (6) 305 mm rods
- (2) 610 mm rods
- (7) 1219 mm rods
- (5) 1829 mm rods
- (45) S-Connectors
- (4) Rod End Connectors
- (8) Lab-Frame Feet



Model	Material	Frame Dimensions	Item N°
CLR-FRAMEAX	Aluminium	1219×1829 mm	30392307
CLR-FRAMESX	Stainless Steel	1219×1829 mm	30392326

Fume Hood Kits

Choose from four kits specifically designed to fit within laboratory fume hoods. All components are constructed of stainless steel with the exception of the Frame Connectors which are made of aluminium with a silicon finish.



Model	1,22 m Fume Hood Kit Components: - (8) 51 mm rods - (2) 305 mm rods - (2) 457 mm rods - (4) 914 mm rods - (4) 965 mm rods - (30) Frame Connectors - (4) Rod End Connectors - (4) Lab-Frame Feet Frame: 914×965 mm Base: 305 mm wide	1,52 m Fume Hood Kit Components: - (8) 51 mm rods - (2) 305 mm rods - (2) 457 mm rods - (5) 914 mm rods - (4) 1270 mm rods - (34) Frame Connectors - (4) Rod End Connectors - (4) Lab-Frame Feet Frame: 914×1270 mm Base: 305 mm wide	1,83 m Fume Hood Kit Components: - (8) 51 mm rods - (2) 305 mm rods - (2) 457 mm rods - (6) 914 mm rods - (4) 1575 mm rods - (38) Frame Connectors - (4) Rod End Connectors - (4) Lab-Frame Feet Frame: 914×1575 mm Base: 305 mm wide	2,44 m Fume Hood Kit Components: - (10) 51 mm rods - (3) 305 mm rods - (2) 457 mm rods - (8) 914 mm rods - (4) 2184 mm rods - (45) Frame Connectors - (4) Rod End Connectors - (6) Lab-Frame Feet Frame: 914×2184 mm Base: 305 mm wide
Item N°	30392329	30392330	30392331	30392332

RODS, FRAMES, & SUPPORTS

Support Stands

Support Stands are made entirely of 303 stainless steel. They have a durable base that can accommodate vessels up to 457 mm in diameter within the "U". The base area is 451 mm across x 267 mm deep overall. The stainless steel support rod is 16 mm in diameter and is screwed to the support base. Two additional threaded holes in the base legs accommodate rods, enabling the stand to support two mixers. The "U" shape of the base should be turned from the mixing apparatus when the two outside rods are in use. This balances the weight, preventing the base from tipping.

Model	Description	Item N°
CLR-STRODS058	Support Stand with 584 mm Rod	30400030
CLR-STRODS071	Support Stand with 711 mm Rod	30400031
CLR-STRODS091	Support Stand with 914 mm Rod	30400032
CLR-STRODS102	Support Stand with 1016 mm Rod	30400033
CLR-STRODS122	Support Stand with 1219 mm Rod	30400034
CLR-STRODS152	Support Stand with 1524 mm Rod	30400035

Support Stand Stabilizer Knobs

Support Stand Stabilizer Knobs can be added to the two additional threaded holes in the base legs to secure the stand to a bench top.

Model	Description	Item N°
CLR-SKNOB	Support Stand Stabilizer Knobs (2 per pack)	30400044

Heavy-Duty Support Stands

Heavy-Duty Support Stands have a four point cast iron base with stainless steel support rod. They are designed to accommodate vessels up to 30,5 cm in diameter to sit close to the support rod. They have rubber cushions on each of the four corners. The base area is 41,9 cm across x 30,5 cm deep overall. They are ideal for Heavy-Duty Mixers, page 95.

Model	Description	Item N°
CLR-STRODC046	Heavy-Duty Support Stand with 457 mm Rod	30392334
CLR-STRODC058	Heavy-Duty Support Stand with 584 mm Rod	30392335
CLR-STRODC071	Heavy-Duty Support Stand with 711 mm Rod	30392336
CLR-STRODC091	Heavy-Duty Support Stand with 914 mm Rod	30392337
CLR-STRODC102	Heavy-Duty Support Stand with 1016 mm Rod	30392338
CLR-STRODC122	Heavy-Duty Support Stand with 1219 mm Rod	30392339
CLR-STRODC152	Heavy-Duty Support Stand with 1524 mm Rod	30392340

Replacement Support Rods

Model	Description	Diameter	Item N°
CLR-SPRODS046	457 mm Stainless Steel Rod	16 mm	30400036
CLR-SPRODS058	584 mm Stainless Steel Rod	16 mm	30400037
CLR-SPRODS071	711 mm Stainless Steel Rod	16 mm	30400038
CLR-SPRODS091	914 mm Stainless Steel Rod	16 mm	30400039
CLR-SPRODS102	1016 mm Stainless Steel Rod	16 mm	30400040
CLR-SPRODS122	1219 mm Stainless Steel Rod	16 mm	30400041



SUPPORT STAND



SUPPORT STAND STABILIZER KNOBS



HEAVY-DUTY SUPPORT STAND



REPLACEMENT SUPPORT RODS

RODS, FRAMES, & SUPPORTS

Cast Iron Support Stands

Cast iron support stand bases are constructed with black enamel finish for chemical resistance and durability. All bases feature a built-in support rod holder with locking knob that accepts a 13 mm diameter support rod. U-shaped base features three built-in support rod holders and accommodates vessels up to 127 mm in diameter.

Note: Support rods are not included.

Rectangular Base Support Stand, Cast Iron

Model	Description	Dimensions	Item N°
CLR-RBASECS	Rectangular Base (only)	102 × 152 mm	30392359
CLR-RBASECM	Rectangular Base (only)	127 × 203 mm	30392360
CLR-RBASECL	Rectangular Base (only)	152 × 229 mm	30392361
CLR-RBASECX	Rectangular Base (only)	203 × 254 mm	30392362

Tripod Base Support Stand, Cast Iron

Model	Description	Overall Footprint Diameter	Item N°
CLR-TBASEC	Tripod Base (only)	375 mm	30392363

U-Shaped Base Support Stand, Cast Iron

Model	Description	Dimensions	Item N°
CLR-UBASEC	U-Shaped Base (only)	178 × 178 mm	30392364

Aluminium Support Rods

Model	Description	Diameter	Item N°
CLR-RODA030	305 mm Aluminium Rod	13 mm	30392274
CLR-RODA046	457 mm Aluminium Rod	13 mm	30392275
CLR-RODA061	610 mm Aluminium Rod	13 mm	30392276
CLR-RODA091	914 mm Aluminium Rod	13 mm	30392277

Stainless Steel Support Rods

Model	Description	Diameter	Item N°
CLR-RODS030	305 mm Stainless Steel Rod	13 mm	30392296
CLR-RODS046	457 mm Stainless Steel Rod	13 mm	30392297
CLR-RODS061	610 mm Stainless Steel Rod	13 mm	30392298
CLR-RODS091	914 mm Stainless Steel Rod	13 mm	30392299



RECTANGULAR BASE SUPPORT STAND



TRIPOD BASE SUPPORT STAND



U-SHAPED BASE SUPPORT STAND



ALUMINIUM SUPPORT RODS



STAINLESS STEEL SUPPORT RODS

RODS, FRAMES, & SUPPORTS

Round Support Plate

Aluminium plate supports beakers, mantles and petri dishes. Fits standard lab-frames using connectors or holders, shown on pages 97-97.

Model	Description	Distance from Rod	Item N°
CLR-PLATEAR	152 mm	66 mm	30392342

Support Plates

Designed to hold hotplates, stirrers, hotplate-stirrers, and other apparatus to lab-frames or ring stands. Aluminium construction offers strength and durability. Support plates include a non-skid rubber mat and a built-in holder that grips rods up to 19 mm in diameter.

Model	Size	Plate Dimensions	Distance from Rod	Item N°
CLR-PLATEAS	Small	241 × 165 mm	48 mm	30392349
CLR-PLATEAL	Medium	324 × 229 mm	48 mm	30392350
CLR-PLATEAX	Large	400 × 305 mm	48 mm	30392351

OHAUS Aluminium Lab-Lifts

- Exceptional stability and durability
- Aluminium construction
- Three convenient sizes

Aluminium Lab-Lifts provide stable height adjustment for various items in the lab such as flasks, baths, and small equipment. Top and bottom decks are constructed of anodized aluminium. Internal supports and drive screws are constructed of stainless steel. Oversized sure-grip adjustment knobs provide smooth and accurate height adjustment. Lab-Lifts accept optional Support Rod Kit which mounts to the upper deck.



Model	Deck Size	Min. to Max. Height	Max. Load*	Item N°
CLR-LBLFTA010	102 × 102 mm	64 to 127 mm	29,94 kg	30400007
CLR-LBLFTA015	152 × 152 mm	76 to 248 mm	59,87 kg	30400008
CLR-LBLFTA020	203 × 203 mm	76 to 248 mm	79,83 kg	30400009
CLR-LBLFTA025	254 × 254 mm	89 to 330 mm	84,37 kg	30400010

*NOTE: Maximum load rating represents static weight only. Static weight is the amount a unit can hold, not lift.

OPTIONAL ACCESSORIES

432 mm Support Rod Kit

Ideal for creating an adjustable support stand for mounting various items such as thermometer clamps, temperature probes, flask and column clamps. This kit allows you to mount a 432 mm threaded vertical support rod to the upper deck of a 152 × 152 mm, 203 × 203 mm, 254 × 254 mm, 305 × 305 mm or 406 × 406 mm Lab-Lift by screwing the rod into the pre-drilled hole.

432 mm Support Rod Kit includes:

- 25 – 432 mm Stainless Steel Rod
- 1 – Jam Nut
- 1 – Flat Washer



Model	Description	Rod Diameter	Item N°
	432 mm Support Rod Kit	13 mm	30400050



ROUND SUPPORT PLATE



SUPPORT PLATES

RODS, FRAMES, & SUPPORTS

OHAUS Heavy-Duty Lab-Lifts

- Stainless steel construction
- Seven convenient sizes to choose from
- Autoclavable and chemical resistant

These Heavy-Duty, Stainless Steel Lab-Lifts are ultra-stable lifting platforms with exceptional strength and durability. Constructed of stainless steel, Lab-Lifts are designed for use in extreme environments and high load applications. Equipped with oversized, sure-grip adjustment knobs that provide extra leverage for easy height adjustments. Durable construction allows lifts to be autoclaved or chemically cleaned. Ideal for use in fume hoods or bench tops and holds a variety of items such as glassware, hotplates, baths, and magnetic stirrers.



Model	Deck Size	Min. to Max. Height	Max. Load*	Item N°
CLR-LBLFTS008	76 × 76 mm	64 to 127 mm	45,36 kg	30400000
CLR-LBLFTS010	102 × 102 mm	64 to 127 mm	45,36 kg	30400001
CLR-LBLFTS015	152 × 152 mm	76 to 248 mm	60,33 kg	30400002
CLR-LBLFTS020	203 × 203 mm	76 to 248 mm	102,97 kg	30400003
CLR-LBLFTS025	254 × 254 mm	89 to 330 mm	112,04 kg	30400004
CLR-LBLFTS030	305 × 305 mm	102 to 495 mm	45,36 kg	30400005
CLR-LBLFTS041	406 × 406 mm	102 to 495 mm	45,36 kg	30400006

*NOTE: Maximum load rating represents static weight only. Static weight is the amount a unit can hold, not lift.

OPTIONAL ACCESSORIES

432 mm Support Rod Kit

Ideal for creating an adjustable support stand for mounting various items such as thermometer clamps, temperature probes, flask and column clamps. This kit allows you to mount a 432 mm threaded vertical support rod to the upper deck of a 152 × 152 mm, 203 × 203 mm, 254 × 254 mm, 305 × 305 mm or 406 × 406 mm Lab-Lift by screwing the rod into the pre-drilled hole.

432 mm Support Rod Kit includes:

- 25 – 432 mm Stainless Steel Rod
- 1 – Jam Nut
- 1 – Flat Washer



Model	Description	Rod Diameter	Item N°
	432 mm Support Rod Kit	13 mm	30400050

Ratchet Tool

Designed to add extra leverage to your 305 × 305 mm or 406 × 406 mm Lab-Lift. This recommended Ratchet Tool easily attaches to the actuating rod to allow easy, accurate adjustments.

Model	Description	Item N°
	Ratchet Tool	30400049



RATCHET TOOL

RODS, FRAMES, & SUPPORTS

Cylinder Bench Clamps

Rugged cast aluminium clamps safely secure gas cylinders to benches, tables or other flat surfaces up to 64 mm thick. The 25 mm wide, 1372 mm long nylon strap features a nickel-plated, non-slip spring catch and buckle for easy adjustment around cylinders from 102 to 356 mm in diameter. Models 711 and 716 available with or without a "Secure Cylinder" safety message strap.

Model 711 Bench Clamp

This bench clamp has a large tightening handle for mounting to any flat surface up to 64 mm thick. A nylon pad prevents damage to the bench or table surface. Two tapered mounting screw holes are provided for permanent attachment to bench-top.

Model	Description	Dimensions L×W×H (closed)	Cylinder Diameter	Item N°
CLR-711	Model 711 Bench Clamp with Strap	83 × 133 × 165 mm	102 to 356 mm	30400020
CLR-711M	Model 711 Bench Clamp with Safety Message Strap	83 × 133 × 165 mm	102 to 356 mm	30400021

Model 716 Bench Clamp

This bench clamp is similar to Model 711, but includes a sturdy safety chain for extra security. Chain measures 1245 mm.

Model	Description	Dimensions L×W×H (closed)	Cylinder Diameter	Item N°
CLR-716	Model 716 Bench Clamp with Strap & Chain	83 × 133 × 165 mm	102 to 356 mm	30400026
CLR-716M	Model 716 Bench Clamp with Safety Message Strap & Chain	83 × 133 × 165 mm	102 to 356 mm	30400027

Model 712 Heavy-Duty Bench Clamp

This bench clamp has two screw clamps to tighten for extra firm mounting to any flat surface up to 45 mm thick with a 32 mm overhang. Especially convenient for temporary storage situations. Rugged cast aluminium bench clamp features a 25 mm wide, 1372 mm long nylon strap with nickel-plated, non-slip spring catch buckle to hold cylinders from 102 to 356 mm in diameter. This clamp is not available with a safety message strap.

Model	Description	Dimensions L×W×H (closed)	Cylinder Diameter	Item N°
CLR-712	Model 712 Heavy-Duty Bench Clamp with Strap	83 × 152 × 114 mm	102 to 356 mm	30400022



MODEL 711 BENCH CLAMP



MODEL 716 BENCH CLAMP



MODEL 712 HEAVY-DUTY BENCH CLAMP

RODS, FRAMES, & SUPPORTS

Model 715 Wall Bracket

Cylinder wall-mount brackets are constructed of cast aluminium and contoured to allow cylinders to fit firmly along the support edge. Recessed screw holes at each side of the bracket allow for easy wall mounting. Features a 25 mm wide, 1372 mm long nylon strap with nickel-plated, non-slip spring catch and buckle for fast, easy adjustment. Available with or without a "Secure Cylinder" safety message strap. For cylinders from 102 to 356 mm in diameter.

Model	Description	Dimensions L×W×H	Cylinder Diameter	Item N°
CLR-715	Model 715 Wall Bracket with Strap	48×206×118 mm	102 to 356 mm	30400024
CLR-715M	Model 715 Wall Bracket with Safety Message Strap	48×206×118 mm	102 to 356 mm	30400025

Model 717 Wall Bracket

This wall bracket is similar to Model 715, but includes a sturdy safety chain for extra security. Chain measures 1245 mm.

Model	Description	Dimensions L×W×H	Cylinder Diameter	Item N°
CLR-717	Model 717 Wall Bracket with Strap & Chain	48×206×118 mm	102 to 356 mm	30400028
CLR-717M	Model 717 Wall Bracket with Safety Message Strap & Chain	48×206×118 mm	102 to 356 mm	30400029



MODEL 715 WALL BRACKET



MODEL 717 WALL BRACKET

Model 703 Stand

This cast aluminium stand hinges open and has 4 thumbscrews to tightly grip cylinders from 203 to 229 mm in diameter.

Model	Description	Cylinder Diameter	Dimensions (Dia.×H)	Item N°
CLR-703	Model 703 Stand	203 to 229 mm	464×152 mm	30400018

Model 704 Adjustable Stand

Heavy-duty, cast aluminium stand with adjustable "L" brackets hold cylinders from 152 to 235 mm in diameter. Hinges open for installation without lifting the cylinder or disturbing connections. Prevents accidental tipping. Hinges open for easy, no-lifting installation.

Model	Description	Dimensions (Dia.×H)	Cylinder Diameter	Item N°
CLR-704	Model 704 Adjustable Stand	470×191 mm	152 to 235 mm	30400019

Model 713 Portable Stand

This cast iron portable cylinder stand offers a sturdy cylinder stand and a convenient cylinder dolly all-in-one. This cylinder stand is designed in two interlocking halves and can be installed without lifting the tank. Built-in rubber wheels for easy mobility. Three thumbscrews tightly grip cylinder.

Model	Description	Dimensions (Dia.×H)	Cylinder Diameter	Item N°
CLR-713	Model 713 Portable Stand	394×76 mm	178 to 235 mm	30400023



MODEL 703 STAND



MODEL 704 ADJUSTABLE STAND



MODEL 713 PORTABLE STANDCLAMP

FLOW CONTROL CLAMPS

LabJaws flow control devices offer selection and quality. They are finely machined to deliver accurate regulation or interruption of fluid flow. Every flow control device resists corrosion and rust. Hosecocks offer easy one-hand operation. Convex bearing surfaces and rounded edges protect tubing. Pinchcocks are designed to quickly start and stop flow and provide complete closure without damaging tubing. Operated with a simple squeeze. Nickel-plated construction (unless otherwise noted).

Regular Hosecock

Adjustment screw with oversized head for accurate regulation. Built-in side lugs for foot mounting. Tubing retainer screw.

Stainless Steel

Model	Min. to Max. Grip	Dimensions (W×H - open)	Item N°
CLF-HKRGs	0 to 17 mm	37×62 mm	30392221

Nickel-Plated Zinc

Model	Min. to Max. Grip	Dimensions (W×H - open)	Item N°
CLF-HKRGZ	0 to 17 mm	37×62 mm	30392210

MISC. NON-ELECTRICAL PRODUCTS

Inoculating Turntables

OHAUS hand-operated inoculating turntables produce almost concentric circles of bacterial colonies that are evenly distributed across petri dishes. Cast iron turntables are coated with gray baked acrylic enamel.

The 76 mm high, small turntable accommodates 100 mm petri dishes. It has a tripod base to bring work approximately to eye level. It has a center disk covered with non-skid rubber lining.

The large turntable accommodates 100 mm or 150 mm petri dishes. It has a height of only 32 mm ideal for steadying a forearm on the work surface while plating. The large turntable contains two circular sections. The top section has a raised gripper lip as well as a recessed center disk covered with non-skid rubber lining.

Model	Description	Dimensions (Dia.×H)	Item N°
CLN-INOTTS	Small Turntable	114×77 mm	30400046
CLN-INOTTL	Large Turntable	150×32 mm	30400047

Slide Staining Rack

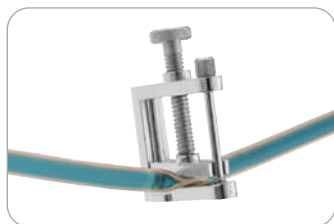
Constructed of stainless steel, the OHAUS Slide Staining Rack will resist corrosion under normal use. Adjustable to fit trays or sinks up to 533 mm inside.

Model	Description	Dimensions (L×W)	Item N°
CLN-STNRK	Slide Staining Rack	603×89 mm	30400048

Airejector

Rapid air removal evacuates 1 liter of air to 711 mm of vacuum in 30 seconds. Works with compressed air sources to 60 psi. Nickel-plated construction.

Model	Description	Length	Item N°
CLN-AIREJ	Airejector	140 mm	30392367



30392221



INOCULATING TURNTABLES



SLIDE STAINING RACK



AIREJECTOR



Laboratory Instruments

METERS SELECTOR GUIDE

	Pen Meters												
	ST10	ST20	ST20M-B	ST20M-C	ST10C	ST20C	ST10T	ST20T	ST10S	ST20S	ST10R	ST20R	ST20D
pH	•	•	•	•									
Cond.			•	•	•	•							
TDS			•				•	•					
ORP											•	•	
Salinity				•					•	•			
DO													•
Temp.		•	•	•		•		•		•		•	•

WHAT IS IN A MODEL NUMBER?

Starter Pen Meters



ST20S = Starter, Mid Pen Meter, Salinity

ST	20	S
Family	Model	Parameter
ST = Starter	20 = Mid Pen Meter 10 = Low Pen Meter	None = pH C = Conductivity T = TDS S = Salinity R = ORP D = Dissolved Oxygen M = Multi-Parameter

STARTER PEN METERS

Accurate Electrochemistry Measurement At Your Fingertips

Application

pH, oxidation-reduction potential (ORP), conductivity, dissolved oxygen (DO), salinity, total dissolved solids (TDS), temperature measurement

Display

Liquid crystal display (LCD) display with secondary information line (on select models)

Operation

4 1,5V batteries (included)

Construction

ABS Housing

Design Features

Easily replaceable electrodes, automatic shut off feature



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 feature an IP67 waterproof design that can prevent water damage when dropped into liquid.

Model	Material description	Item N°
ST10	pH pen meter, resolution 0.1 pH	30073970
ST20	pH pen meter, resolution 0.01 pH, temperature display	30073971
ST10C-A	Conductivity pen meter, measurement range 0.0 – 199.9 μ S/cm	30073972
ST10C-B	Conductivity pen meter, measurement range 0.0 – 1999 μ S/cm	30073973
ST10C-C	Conductivity pen meter, measurement range 0.0 – 19.99 mS/cm	30073974
ST20C-A	Conductivity pen meter, measurement range 0.0 – 199.9 μ S/cm, temperature display	30073975
ST20C-B	Conductivity pen meter, measurement range 0.0 – 1999 μ S/cm, temperature display	30073976
ST20C-C	Conductivity pen meter, measurement range 0.0 – 19.99 mS/cm, temperature display	30073977
ST10T-A	TDS pen meter, measurement range 0.0 – 100 mg/L	30073978
ST10T-B	TDS pen meter, measurement range 0.0 – 1000 mg/L	30073979
ST20T-A	TDS pen meter, measurement range 0.0 – 100 mg/L, temperature display	30073980
ST20T-B	TDS pen meter, measurement range 0.0 – 1000 mg/L, temperature display	30073981
ST10S	Salinity pen meter, measurement range 0.0 – 10.0 ppt	30073982
ST20S	Salinity pen meter, measurement range 0.0 – 80 ppt, temperature display	30073983
ST10R	ORP pen meter, measurement range -1000 mV to 1000 mV	30073984
ST20R	ORP pen meter, measurement range -1000 mV to 1000 mV, temperature display	30073985
ST20D	DO pen meter, polarographic, measurement range 0.0 to 19.9 mg/L, temperature display	30073986
ST20M-B	ST20M-B Multi Parameter Pen Meter	30393199
ST20M-C	ST20M-C Multi Parameter Pen Meter	30393200

Electrodes and Sensors

Material description	Item N°
Replaceable pH electrode compatible with ST10 pen meter	30087992
Replaceable pH electrode compatible with ST20 pen meter	30087993
Replaceable probe compatible with ST10C-A and ST10T-A pen meters	30087994
Replaceable probe compatible with ST10C-B and ST10T-B pen meters	30087995
Replaceable probe compatible with ST10C-C and ST10S pen meters	30087996
Replaceable probe compatible with ST20C-A and ST20T-A pen meters	30087997
Replaceable probe compatible with ST20C-B and ST20T-B pen meters	30087998
Replaceable probe compatible with ST20C-C and ST20S pen meters	30087999
Replaceable electrode compatible with ST10R pen meter	30088020
Replaceable electrode compatible with ST20R pen meter	30088021
Replaceable probe for ST20D	30222083
Replaceable electrode for ST20M-B	30393203
Replaceable electrode for ST20M-C	30393204



ST10



ST20



ST10C-A



ST10C-B



ST10C-C



ST20C-A



ST20C-B



ST20C-C



ST10T-A



ST10T-B



ST20T-A



ST20T-B



ST10S



ST20S



ST10R



ST20R



ST20D



ST20M-B



ST20M-C



Handwriting practice lines consisting of 20 horizontal lines. Each line is preceded by a short horizontal line segment on the left side, serving as a starting point for writing.

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- ✓ Once your order is placed you will receive instant order acknowledgment and a confirmed delivery date within 24 hours so that you can provide your customers with accurate information

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Track your order easily

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