

DEFENDER 5000

Washdown Bench Scales (Dual Range)



Multifunctional Bench Scale for Standard Industrial Applications

The OHAUS next generation Defender 5000 Series multifunctional bench scale is ideal for a multitude of applications, including production, packaging, inventory and shipping. Built durably and equipped with advanced features such as maximum configurability print output, GMP/GLP data output, library/ user management, and multiple connectivity options - the Defender 5000 Series is designed to handle demanding industrial and commercial applications.

Unique Features:

- Indicator Guides The User with On-Screen Prompts

 See results clearly on the large backlit display. The alphanumeric keypad and function keys allow for a simplified user experience. On-screen prompts and soft keys will guide you through the operation.
- Durably Constructed To Withstand Industrial Environments

 Durably constructed with a stainless steel platform, frame, IP67 loadcell and IP68 indicator, the Defender meets OIML/EC Type approvals.
- Multiple Application Modes and High Storage Capacity for Greater Flexibility
 Features common industrial modes and supports a 50,000 item library and 1,000 user profiles
 which can be downloaded/uploaded for easy set-up (with SD Card.) Also equipped with GMP/GLP
 capability with time/date for result traceability.
- Multiple Connectivity Options for Convenient Data Transfer and Storage
 Results can be stored in the Micro SD card. Data output via built-in RS232 or optional interfaces including RS232/RS485/USB device, Ethernet and Bluetooth/WiFi, Analog Output and Discrete I/O with relays.

DEFENDER[™]**5000** Washdown Bench Scales

Simplified Use

Results can be read easily on the Defender[™] 5000's large transflective dot matrix display, even in bright sunlight. The SmarText 3.0 interface will guide you through all of the Defender[™] 5000's unique and advanced features. With five soft keys, SmartText 3.0 makes an advanced scale very simple to use, and reduces training time for operators.

Durable Construction

With OIML/EC-type approvals, the Defender[™] 5000 can be used for both general and legal-for-trade applications. For standard industrial applications, the Defender[™] 5000 bench scales offer durable performance at a practical price.

Simple Operation

Featuring most common applications including Percent Weighing, Parts Counting with APW optimization, Checkweighing or Checkcounting, Filling and Dynamic Weighing or Display Hold, the Defender™ 5000 meets the weighing and measurement needs of practically every industrial application or manufacturing process. Many application modes eliminate the need for long and complicated manual calculations. GMP/GLP with time/date allows for traceability of results.

Equipped with Micro SD card, the Defender™ 5000 can support storage of up to 50,000 items and 1,000 user profiles. Weighing results can also be stored in Alibi or regular format, addressing all your data storage needs.

Multiple Connectivity Options

Weighing results can be easily exported through the standard RS232 port. Additional connectivity options include a second RS232, RS485 or USB device; USB Host, Ethernet, and WiFi/Bluetooth.

Using the Analog option (either 4-20mA or 0-10V) or two In/four Out discrete I/O, the new Defender™ 5000 indicator can also be used for systems including PLC.







Front Mount Bench Scale Specifications

Model	D52XW6WQDR5	D52XW15WQDR5	D52XW15WQDL5	D52XW30WQDL5	D52XW60WQDL5	D52XW60WQDX5	D52XW150WQDX5	
${\sf Capacity} \times {\sf Readability}$	3/6 kg × 0.2/0.5 g	6/15 kg × 0.5/1 g		15/30 kg × 1/2 g	30/60 kg × 2/5 g		60/150 kg × 5/10 g	
Min APW (g)	0.01	0.025		0.05	0.1		0.25	
Internal Counting Resolution	1:600000							
Certified Model	D52XW6WQDR5-M	D52XW15WQDR5-M	D52XW15WQDL5-M	D52XW30WQDL5-M	D52XW60WQDL5-M	D52XW60WQDL5-M	D52XW150WQDX5-M	
Certified Capacity × Readability	3/6 kg × 1/2 g	6/15 kg	× 2/5 g	15/30 kg × 5/10 g	30/60 kg × 10/20 g		60/150 kg × 20/50 g	
Min APW (g)	0.05	0	.1	0.25	0.5		1	
Internal Counting Resolution	1:120000	1:15	0000	1:120000		1:150000		
Linearity/Repeatability	±2d							
Indicator	TD52XW							
Mount	Stainless steel front-mount bracket with handle							
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon sealed IP67 aluminium loadcell							
Safe Overload Capacity	150% of maximum capacity							
Stabilization Time	Within 1 second							
Operating Temperature Range	-10°C to 40°C							
Scale Dimensions (A x B x C x D x E x F)	305 × 305 × 95 × 60 × 118 × 588 mm 400 × 4		100 × 110 × 70 × 118 × 677 mm		500 × 500 × 120 × 80 × 118 × 772 mm			
Shipping Dimensions (L x W x H)	480 × 445 × 363 mm			800 × 600 × 235 mm		994 × 680 × 235 mm		
Approx. Net Weight	9 kg			17 kg		21 kg		
Approx. Shipping Weight	11 kg		19 kg		24 kg			

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Column Mount Bench Scale Specifications

Model	D52XW6WQDR6	D52XW15WQDR6	D52XW15WQDL7	D52XW30WQDL7	D52XW60WQDL7	D52XW60WQDX7	D52XW150WQDX7
Capacity × Readability	3/6 kg × 0.2/0.5 g	6/15 kg × 0.5/1 g		15/30 kg × 1/2 g	30/60 kg × 2/5 g		60/150 kg × 5/10 g
Min APW (g)	0.01	0.025		0.05	0.1		0.25
Internal Counting Resolution	1:600000						
Certified Model	D52XW6WQDR6-M	D52XW15WQDR6-M	D52XW15WQDL7-M	D52XW30WQDL7-M	D52XW60WQDL7-M	D52XW60WQDX7-M	D52XW150WQDX7-M
Certified Capacity × Readability	3/6 kg × 1/2 g	6/15 kg	× 2/5 g	15/30 kg × 5/10 g	30/60 kg	× 10/20 g	60/150 kg × 20/50 g
Min APW (g)	0.05	0	.1	0.25	0.5		1
Internal Counting Resolution	1:120000	1:15	0000	1:120000		1:150000	
Linearity/Repeatability	±2d						
Indicator	TD52XW						
Column	350 mm stainless steel 680 mm stainless steel						
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon sealed IP67 aluminium loadcell						
Safe Overload Capacity	150% of maximum capacity						
Stabilization Time	Within 1 second						
Operating Temperature Range	-10°C to 40°C						
Scale Dimensions (A x B x C x D x E x F)	305 × 305 × 95 ×	5 × 95 × 60 × 604 × 442 mm 400 × 400 × 110 × 70 × 934 × 570 m		570 mm	mm 500 × 500 × 120 × 80 × 934 × 665 mm		
Shipping Dimensions (L x W x H)	480 × 445	480 × 445 × 363 mm		800 × 600 × 235 mm		994 × 680 × 235 mm	
Approx. Net Weight	10	10 kg		20 kg		23 kg	
Approx. Shipping Weight	11	l kg		21 kg		27 kg	

Model	D52XW60WQDV8	D52XW150WQDV8	D52XW300WQDV8	D52XW150WTDV8	D52XW300WTDV8	D52XW600WTDV8		
Capacity × Readability	30/60 kg × 2/5 g	60/150 kg × 5/10 g	150/300 kg × 10/20 g	60/150 kg × 5/10 g	150/300 kg × 10/20 g	300/600 kg × 20/50 g		
Min APW (g)	0.1	0.25	0.5	0.25	0.5	1		
Internal Counting Resolution	1:600000							
Certified Model	D52XW60WQDV8-M	2XW60WQDV8-M D52XW150WQDV8-M D52XW300WQDV8-M D52XW150WTDV8-M D52XW300WTDV8-M		D52XW600WTDV8-M				
Certified Capacity × Readability	30/60 kg × 10/20 g	60/150 kg × 20/50 g	150/300 kg × 50/100 g	60/150 kg × 20/50 g	150/300 kg × 50/100 g	300/600 kg × 100/200 g		
Min APW (g)	0.5	1	2.5	1	2.5	5		
Internal Counting Resolution	1:120000	1:150000	1:120000	1:150000	1:120000			
Linearity/Repeatability	±2d							
Indicator	TD52XW							
Column	980 mm stainless steel							
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon sealed IP67 aluminium loadcell							
Safe Overload Capacity	150% of maximum capacity							
Stabilization Time	Within 1 second							
Operating Temperature Range	-10°C to 40°C							
Scale Dimensions (A x B x C x D x E x F)	610×6	510 × 130 × 90 × 1234 × 7	73 mm	600 × 800 × 132 × 90 × 1234 × 963 mm				
Shipping Dimensions (L x W x H)	1165 × 780 × 235 mm							
Approx. Net Weight	37 kg 45 kg							
Approx. Shipping Weight		42 kg		50 kg				

Model	TD52XW				
Construction	304 stainless steel with sand blasted surface treatment				
Protection	IP68				
Weighing Units	kg, g, lb, oz, lb:oz, metric tonnes, short ton, custom unit				
Application Modes	Weighing, Percent weighing, Piece Counting with Optimized APW, Checkweighing/Checkcounting, Filling, Dynamic Weighing/Display Hold				
Display	Dot matrix LCD with white LED backlight, 256 x 80 pixels				
Keyboard	6 function, 5 quick, 12 alpha numeric membrane switches				
Auto-zero Tracking	Off, 0.5 d, 1 d or 3 d				
Zeroing Range	2% or 100% of capacity				
Interface	Standard RS232, Optional Ethernet, WiFi/Bluetooth, RS232/RS485/USB, USB Host, Analog output, 2 In/4 Out digital I/O				
Power	100-240 VAC / 50/60 Hz Universal Power Supply, Rechargeable Lithium battery (Optional)				
Battery Life	20 hours continuous use				
Calibration	Zero, Span or 3 point-Linear				

Application Modes



Determine the weight of items in the selected unit of measure.



Parts Counting: Count samples of uniform weight. Advanced autooptimization software recalculates the average piece of weight as the overall weight increases.



Checkweighing/Counting: Compare the weight/count of a sample against target limits. Connect with Discrete I/O and Light Tower Kit for external check lights.



Percent Weighing:

Measure the weight of a sample displayed as a percentage of a preestablished reference weight.



Fill a container to a target weight. Progress bar displays filling status. Connect with Discrete I/O option kit for auto-filling system.



Dynamic Weighing and Display Hold: Weigh an unstable load. Scale takes an average of weights over a period of time. The Display Hold feature manually and automatically holds the last stable weight on the display.

Other Standard Features and Equipment

User-configurable resolution up to dual range 15,000d/3,000e, 150% overload capacity 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, 100-240 VAC 50/60 Hz internal universal power supply - Lithium Ion rechargeable battery with 20 hour standard continuous use (optional), 304-grade stainless steel platform and frame, stainless steel IP68 indicator, IP67 load cell, non-slip adjustable rubber feet, a Wheel Kit option is also available for scales up to 300 kg.

Additional Features

A total of six print templates are available to ensure you can print out all of the data you need. A simple template is predefined for quick printing, as well as five templates you can customize so you can print the exact information necessary for your application - eliminating confusion and time to sift through excess unnecessary data.

Compliance

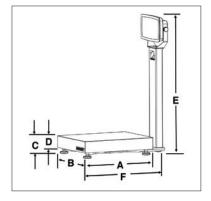
- Metrology: OIML R76 (Indicators: Certificate R76-2006-A-NL1-18.13, Load Cells: Certificates R60/2000-NL1-12-41, R60/2000-NL1-12-42, R60/2000-NL1-12-43, R60/2000-NL1-14.24)
- Product Safety: IEC/EN 61010-1:CAN/CSA C22.2 61010-1: UL61010-1
- Electromagnetic Compatibility: IEC/EN 61326-1 Class B, basic environments; FCC Part 15 Class B; Canada ICES-003 Class B
- Compliance Marks: CE; CSA; RCM

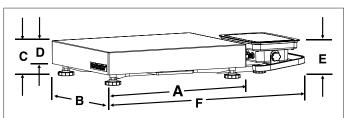
Accessories

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Battery Kit, Li-ion, TD52	30424405	M16 Gland with Ferrite, to TD52	
USB Host for Dongle, TD52	30424406	Micro SD Card, 8G	
Light Tower, R-Y-G, IP65, 24VDC	30424021	Analog Output Kit, TD52 ³ 30424403	
In-use Cover Kit, TD52P	30424022	Second RS232/RS485/USB Kit, TD52 ³ 30424404	
In-use Cover Kit, TD52XW	30424023	I/O with Relay (2 In/4 Out) ³ 30097591	
In-use Cover set (10), TD52P	30469948	WiFi/BT Dongle, OHAUS ² (Requires 30424406)30412537	
In-use Cover set (10), TD52XW	30469949	Ethernet Kit, D52 ²	
Printer Holder Kit, D52	30424025	Wheel Kit ¹ (up to 300 kg models)30372146	
Wall Mount Kit, SST, TD52XW	30424026	Wheel Kit, SST ⁷	
Wall Mount Kit, CS, TD52P	30424027	Printer SF40A	
LC Extension Cable, 9 meters, D52 ¹	30424409	USB ² 30572923	

1 Cannot be used for legal-for-trade applications

Outline Dimensions





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The management system governing the manufacture of this product is ISO 9001:2015 certified.



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

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