Multifunctional Stainless Steel Washdown Bench Scale for Standard Industrial Applications

The OHAUS next generation Defender 5000 Series multifunctional washdown 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 is designed to simplify demanding industrial and commercial applications.

Standard Features:

- **Indicator Guides The User with On-Screen Prompts**
  See results clearly on the large backlit display. The alpha-numeric 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 Harsh 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 MicroSD card. Data output by built-in RS232 or optional interfaces including 2nd RS232/485/USB Device, Ethernet, Bluetooth/WiFi, Analog Output and Discrete I/O with relays.

Ingeniously Practical
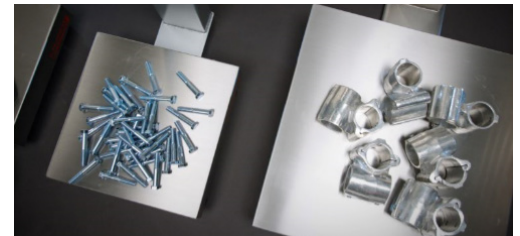
Defender® 5000 *Washdown Bench Scales*

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 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; Ethernet, and WiFi/Bluetooth.

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

Indicator Specifications

	TD52XW
Construction	304 stainless steel with sand blasted surface treatment
Protection	IP68
Weighing Units	lb, oz, lb:oz, kg, g, metric ton, short ton, custom unit
Application Modes	Basic weighing, Percent weighing, Piece Counting with Optimized APW, Animal weighing/Dynamic weighing, Check weighing
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, 2nd RS232/RS485/USB, Analog output, 2 In/4 Out digital I/O
Power	100-240 VAC / 50/60 Hz Universal Power Supply, hardwired, rechargeable lithium battery (Optional)
Battery Life	20 hours continuous use
Calibration	Zero, Span or 3 point-Linear

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Column Mount Bench Scale Specifications

Model	D52XW6WQDR6	D52XW15WQDR6	D52XW15WQDL7	D52XW30WQDL7	D52XW60WQDL7
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
Min APW (g)	0.01	0.025		0.05	0.1
Internal Counting Resolution	1:600000				
Linearity/Repeatability	± 2d				
Indicator	TD52XW				
Column	374 mm stainless steel		704 mm stainless steel		
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 aluminum loadcell				
Base Dimensions	305 × 305 mm		400 × 400 mm		
Safe Overload Capacity	150% of maximum capacity				
Stabilization Time	Within 1 second				
Operating Temperature Range	-10℃ to 40℃				
Scale Dimensions (B × A × C × D × E × F)	305 × 305 × 95 × 60 × 604 × 442 mm		400 × 400 × 110 × 70 × 934 × 570 mm		
Shipping Dimensions (L × W × H)	480 × 445 × 363 mm		800 × 600 × 235 mm		
Approx. Net Weight	10 kg		20 kg		
Approx. Shipping Weight	11 kg		21 kg		

Model	D52XW60WTDL7	D52XW150WTDL7	D52XW60WQDX7	D52XW150WQDX7	D52XW60WQDV8
Capacity × Readability	30/60 kg × 2/5 g	60/150 kg × 5/10 g	30/60 kg × 2/5 g	60/150 kg × 5/10 g	30/60 kg × 2/5 g
Min APW (g)	0.1	0.25	0.1	0.25	0.1
Internal Counting Resolution	1:600000				
Linearity/Repeatability	± 2d				
Indicator	TD52XW				
Column	704 mm stainless steel				1004 mm stainless steel
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 aluminum loadcell				
Base Dimensions	400 × 500 mm		500 × 500 mm		610 × 610 mm
Safe Overload Capacity	150% of maximum capacity				
Stabilization Time	Within 1 second				
Operating Temperature Range	-10℃ to 40℃				
Scale Dimensions (B × A × C × D × E × F)	400 × 500 × 120 × 80 × 934 × 665 mm		500 × 500 × 120 × 80 × 934 × 665 mm		610 × 610 × 130 × 90 × 1234 × 773 mm
Shipping Dimensions (L × W × H)	994 × 680 × 235 mm				1165 × 780 × 235 mm
Approx. Net Weight	22 kg		23 kg		37 kg
Approx. Shipping Weight	25 kg		27 kg		42 kg

Model	D52XW150WQDV8	D52XW300WQDV8	D52XW150WTDV8	D52XW300WTDV8	D52XW600WTDV8
Capacity × Readability	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)	0.25	0.5	0.25	0.5	1
Internal Counting Resolution	1:600000				
Linearity/Repeatability	± 2d				
Indicator	TD52XW				
Column	1004 mm stainless steel				
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon-sealed IP67 aluminum loadcell				
Base Dimensions	610 × 610 mm		600 × 800 mm		
Safe Overload Capacity	150% of maximum capacity				
Stabilization Time	Within 1 second				
Operating Temperature Range	-10℃ to 40℃				
Scale Dimensions (B × A × C × D × E × F)	610 × 610 × 130 × 90 × 1234 × 773 mm		600 × 800 × 132 × 90 × 1234 × 963 mm		
Shipping Dimensions (L × W × H)	1165 × 780 × 235 mm				
Approx. Net Weight	37 kg		45 kg		
Approx. Shipping Weight	42 kg		50 kg		

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Application Modes

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

Parts Counting: Count samples of uniform weight. Advanced auto-optimization 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 pre-established reference weight.

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, 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.
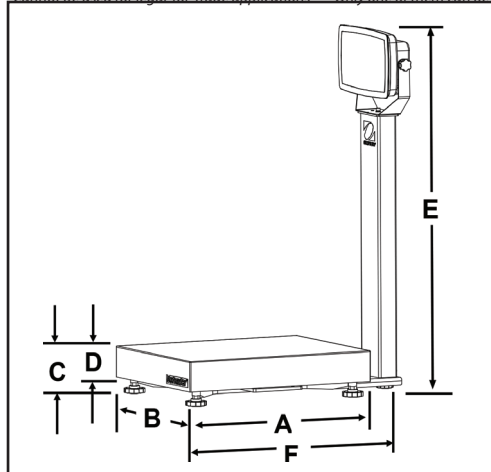
Compliance

• **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

Battery Kit, Li-ion, TD52 30424405

USB Host for Dongle, TD52 .30424406

Light Tower, 3 Colors, 243mm, IP65
(Requires 30097591) 30424021

In-use Cover Kit, TD52P 30424022

In-use Cover Kit, TD52XW 30424023

In-use Cover set (10), TD52P 30469948

In-use Cover set (10), TD52XW 30469949

Printer Holder Kit, D52 30424025

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

Analog Output Kit, TD52[3] 30424403

Second RS232/RS485/USB Kit, TD52[3] 30424404

I/O with Relay (2 In/4 Out)[3] .30097591

WiFi/BT Dongle, OHAUS[2] **(Requires 30424406)** 30412537

Ethernet Kit, D52[2] 30429666

Wheel Kit, Defender Series[1] .30372146

Printer SF40A 30045641

[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