



Defender[®] 5000

Standard Bench Scale Bases



Counting function is not legal for trade

Durable Bases for the Most Demanding of Industrial Applications

The OHAUS next generation Defender 5000 R and W Series bases offer two levels of durability for the most demanding of industrial applications. Both bases offer moisture-protected single-point load cells, steel construction, non-slip rubber adjustable feet, removable stainless steel weighing pans, and integrated leveling bubbles. Maximum non-approved resolution of 25,000d meets the needs of industrial weighing applications that require extreme accuracy.

Standard Features:

- **Durably Constructed To Withstand Harsh Industrial Environments**

The R Series features a stainless steel platform, powder-painted steel frame and an aluminum load cell. The W series features a stainless steel platform, frame, and an IP67 washdown stainless steel loadcell.

- **Install Easily with the EasyConnect™ Feature**

The Defender 5000 bases are equipped with an EasyConnect cable, which allows instant configuration with Defender 5000 (TD52) indicators, speeding up installation.

- **Backed by Approvals for Legal-for-Trade Applications**

Defender 5000 bases are NTEP and Measurement Canada certified up to 6,250e which make them ideal for legal-for-trade use.

Ingeniously Practical

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Defender® 5000 Standard Bench Scale Bases

Specifications

Model	D12RQR	D25RQR	D50RQR	D12RTR	D25RTR	D50RTR	D50RQL	D125RQL
Capacity x Default Readability	25 lb × 0.001 lb 12.5 kg × 0.5 g	50 lb × 0.002 lb 25 kg × 1 g	100 lb × 0.005 lb 50 kg × 2 g	25 lb × 0.001 lb 12.5 kg × 0.5 g	50 lb × 0.002 lb 25 kg × 1 g	100 lb × 0.005 lb 50 kg × 2 g		250 lb × 0.01 lb 125 kg × 5 g
Capacity x Certified Readability	25 lb × 0.005 lb 12.5 kg × 2 g	50 lb × 0.01 lb 25 kg × 5 g	100 lb × 0.02 lb 50 kg × 10 g	25 lb × 0.005 lb 12.5 kg × 2 g	50 lb × 0.01 lb 25 kg × 5 g	100 lb × 0.02 lb 50 kg × 10 g		250 lb × 0.05 lb 125 kg × 20 g
Safe Overload Capacity	150% of capacity							
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction							
Linearity/Repeatability	± 2d							
Load Cell Capacity	48 lb / 22 kg	110 lb / 50 kg	220 lb / 100 kg	48 lb / 22 kg	110 lb / 50 kg	220 lb / 100 kg		440 lb / 200 kg
Load Cell Cable	4.9 ft / 1.5 m L × 6-wire	6.5 ft / 2 m L × 6-wire		4.9 ft / 1.5 m L × 6-wire	6.5 ft / 2 m L × 6-wire			
Load Cell Type	350 Ohm, aluminum, single point							
Load Cell Excitation	5-15V DC/AC							
Load Cell Rated Output	2mV/V							
Load Cell Protection	IP67							
Base Dimensions (B × A × C × D × E)	12 × 12 × 3.9 × 2.4 × 13.3 in 305 × 305 × 99 × 60 × 338 mm			12 × 14 × 3.9 × 2.4 × 15.3 in 305 × 355 × 355 × 99 × 60 × 388 mm			18 × 18 × 4.3 × 2.8 × 19.1 in 457 × 457 × 110 × 70 × 485 mm	
Shipping Dimensions (L × W × H)	18.9 × 17.5 × 14.3 in 480 × 445 × 363 mm						39.1 × 26.8 × 9.25 in 994 × 680 × 235 mm	
Net Weight	14.3 lb / 6.5 kg			15.5 lb / 7 kg			18.7 lb / 8.5 kg	
Shipping Weight	17.6 lb / 8 kg			18.7 lb / 8.5 kg			18.7 lb / 8.5 kg	

Model	D50RTX	D125RTX	D250RTX	D50RQV	D125RQV	D250RQV	D500RQV	D125RTV	D250RTV	D500RTV
Capacity x Default Readability	100 lb × 0.005 lb 50 kg × 2 g	250 lb × 0.01 lb 125 kg × 5 g	500 lb × 0.02 lb 250 kg × 10 g	100 lb × 0.005 lb 50 kg × 2 g	250 lb × 0.01 lb 125 kg × 5 g	500 lb × 0.02 lb 250 kg × 10 g	1000 lb × 0.05 lb 500 kg × 20 g	250 lb × 0.01 lb 125 kg × 5 g	500 lb × 0.02 lb 250 kg × 10 g	1000 lb × 0.05 lb 500 kg × 20 g
Capacity x Certified /Certified Readability	100 lb × 0.02 lb 50 kg × 10 g	250 lb × 0.05 lb 125 kg × 20 g	500 lb × 0.1 lb 250 kg × 50 g	100 lb × 0.02 lb 50 kg × 10 g	250 lb × 0.05 lb 125 kg × 20 g	500 lb × 0.1 lb 250 kg × 50 g	1000 lb × 0.2 lb 500 kg × 100 g	250 lb × 0.05 lb 125 kg × 20 g	500 lb × 0.1 lb 250 kg × 50 g	1000 lb × 0.2 lb 500 kg × 100 g
Safe Overload Capacity	150% of capacity									
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction									
Linearity /Repeatability	± 2d									
Load Cell Capacity	220 lb / 100 kg	550 lb / 250 kg	1,100 lb / 500 kg	220 lb / 100 kg	550 lb / 250 kg	1,100 lb / 500 kg	1,650 lb / 750 kg	550 lb / 250 kg	1,100 lb / 500 kg	1,650 lb / 750 kg
Load Cell Cable	6.5 ft / 2 m L x 6-wire									
Load Cell Type	350 Ohm, aluminum, single point									
Load Cell Excitation	5-15V DC/AC									
Load Cell Rated Output	2mV/V									
Load Cell Protection	IP67									
Base Dimensions (B x A x C x D x E)	24 × 18 × 5.1 × 3.6 × 24.5 in 610 × 457 × 130 × 90 × 633 mm			24 × 24 × 5.1 × 3.6 × 24.5 in 610 × 610 × 130 × 90 × 633 mm				31.5 × 23.6 × 5.2 × 3.6 × 32.3 in 800 × 600 × 132 × 90 × 821 mm		
Shipping Dimensions (L x W x H)	39.1 × 26.8 × 9.25 in 994 × 680 × 235 mm			45.9 × 30.7 × 9.25 in 1165 × 780 × 235 mm						
Net Weight	48.5 lb / 22 kg			68.3 lb / 31 kg				90 lb / 39 kg		
Shipping Weight	52.9 lb / 24 kg			75 lb / 34 kg				92.6 lb / 42 kg		

Defender® 5000 Washdown Standard Bench Scale Bases

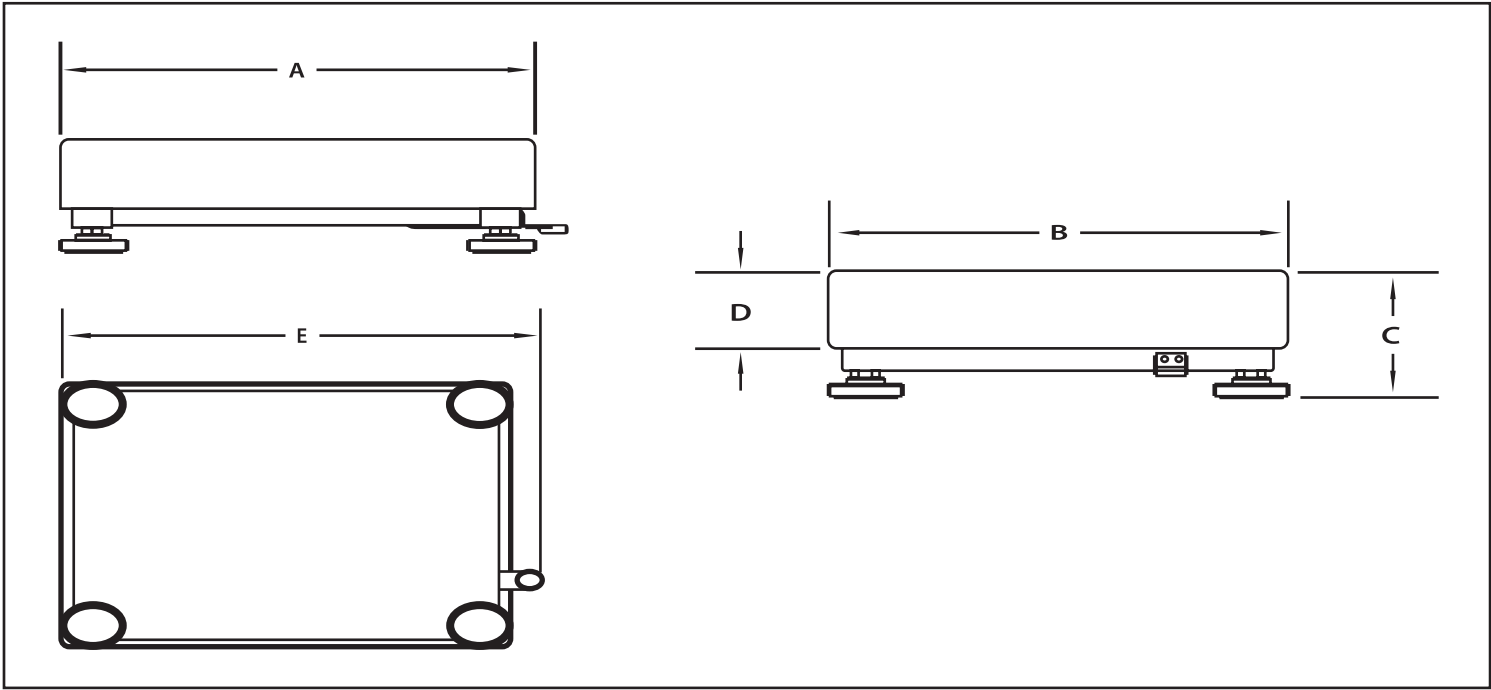
Specifications

Model	D2WQS	D5WQS	D12WQS	D12WQR	D25WQR	D50WQR	D25WQL	D50WQL	D125WQL
Capacity x Default Readability	5 lb × 0.0002 lb 2.5 kg × 0.1 g	10 lb × 0.001 lb 5 kg × 0.5 g	25 lb × 0.001 lb 12.5 kg × 0.5 g		50 lb × 0.002 lb 25 kg × 1 g	100 lb × 0.005 lb 50 kg × 2 g	50 lb × 0.002 lb 25 kg × 1 g	100 lb × 0.005 lb 50 kg × 2 g	250 lb × 0.01 lb 125 kg × 5 g
Capacity x Certified Readability	5 lb × 0.001 lb 2.5 kg × 0.5 g	10 lb × 0.002 lb 5 kg × 1 g	25 lb × 0.005 lb 12.5 kg × 5 g		50 lb × 0.01 lb 25 kg × 5 g	100 lb × 0.02 lb 50 kg × 10 g	50 lb × 0.01 lb 25 kg × 5 g	100 lb × 0.02 lb 50 kg × 10 g	250 lb × 0.05 lb 125 kg × 50 g
Safe Overload Capacity	150% of capacity								
Base Construction	Stainless steel removable weighing platform with stainless steel frame								
Linearity /Repeatability	± 2d								
Load Cell Capacity	13 lb / 6 kg	22 lb / 10 kg	66 lb / 30 kg		110 lb / 50 kg	220 lb / 100 kg	110 lb / 50 kg	220 lb / 100 kg	440 lb / 200 kg
Load Cell Cable	3.2 ft / 1 m L x 4-wire			6.5 ft / 2 m L x 6-wire					
Load Cell Type	350 Ohm, stainless steel, single point								
Load Cell Excitation	5-15V DC/AC								
Load Cell Rated Output	2mV/V								
Load Cell Protection	IP67								
Base Dimensions (B x A x C x D x E)	10 × 10 × 2.9 × 1.8 × 11.1 in 254 × 254 × 74 × 45 × 282 mm			12 × 12 × 3.9 × 2.4 × 12.9 in 305 × 305 × 99 × 60 × 328 mm			18 × 18 × 4.3 × 2.8 × 18.9 in 457 × 457 × 110 × 70 × 480 mm		
Shipping Dimensions (L x W x H)	18.9 × 17.5 × 14.3 in 480 × 445 × 363 mm						39.1 × 26.8 × 9.25 in 994 × 680 × 235 mm		
Net Weight	10 lb / 4.5 kg			13.2 lb / 6 kg			28.7 lb / 13 kg		
Shipping Weight	13.2 lb / 6 kg			18.7 lb / 8.5 kg			33.1 lb / 15 kg		

Model	D50WTX	D125WTX	D250WTX	D50WQV	D125WQV	D250WQV	D500WQV
Capacity x Default Readability	100 lb × 0.005 lb 50 kg × 2 g	250 lb × 0.01 lb 125 kg × 5 g	500 lb × 0.02 lb 250 kg × 10 g	100 lb × 0.005 lb 50 kg × 2 g	250 lb × 0.01 lb 125 kg × 5 g	500 lb × 0.02 lb 250 kg × 10 g	1000 lb × 0.05 lb 500 kg × 20 g
Capacity x Certified Readability	100 lb × 0.02 lb 50 kg × 10 g	250 lb × 0.05 lb 125 kg × 50 g	500 lb × 0.1 lb 250 kg × 50 g	100 lb × 0.02 lb 50 kg × 20 g	250 lb × 0.05 lb 125 kg × 50 g	500 lb × 0.1 lb 250 kg × 50 g	1000 lb × 0.2 lb 500 kg × 100 g
Safe Overload Capacity	150% of capacity						
Base Construction	Stainless steel removable weighing platform with stainless steel frame						
Linearity /Repeatability	± 2d						
Load Cell Capacity	330 lb / 150 kg	660 lb / 300 kg	1,100 lb / 500 kg	330 lb / 150 kg	660 lb / 300 kg	1,100 lb / 500 kg	1,650 lb / 750 kg
Load Cell Cable	6.5 ft / 2 m L x 6-wire						
Load Cell Type	350 Ohm, stainless steel, single point						350 Ohm, aluminum, single point
Load Cell Excitation	5-15V DC/AC						
Load Cell Rated Output	2mV/V						
Load Cell Protection	IP67						
Base Dimensions (B x A x C x D x E)	24 × 18 × 5.1 × 3.6 × 24.5 in 610 × 457 × 130 × 90 × 633 mm			24 × 24 × 5.1 × 3.6 × 24.5 in 610 × 610 × 130 × 90 × 633 mm			
Shipping Dimensions (L x W x H)	39.1 × 26.8 × 9.25 in 994 × 680 × 235 mm			45.9 × 30.7 × 9.25 in 1165 × 780 × 235 mm			
Net Weight	52.9 lb / 24 kg			68.3 lb / 31 kg			
Shipping Weight	59.5 lb / 27 kg			75 lb / 34 kg			

Defender[®] 5000 Standard Bench Scale Bases

Dimensions



Compliance

- **Metrology:** Measurement Canada (NoA AM-6107); NTEP (CC 18-077), Class III
- **Compliance Marks:** CE

Construction

- R Series Base: 304-grade stainless steel platform, sand grey powder coated steel frame, aluminum load cell, level indicator
- W Series Base: 304-grade stainless steel platform, stainless steel frame, stainless steel IP67 load cell, stainless steel level indicator

Accessories

- Column Kit, 35 cm, CS, D5230424410
- Column Kit, 68 cm, CS, D5230424411
- Column Kit, 98 cm, CS, D5230424412
- Column Kit, 35 cm, SST, D5230424413
- Column Kit, 68 cm, SST, D5230424414
- Column Kit, 98 cm, SST, D5230424415
- Front Mount Kit, D5230424024
- Print Holder Kit, D5230424025
- LC Extension Cable, 9 meters, D52¹.....30424409
- Load Cell Cable Adapter Kit, to D52 Base30429931
- Wheel Kit, Defender Series (for bases up to 300 kg)¹ ...30372146

¹ Cannot be used for legal-for-trade applications

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

