DEFENDER™ 3000

Bench Scales

Bench Scales for Basic Industrial Applications

The Defender 3000 Series bench scales are ideal for general weighing, simple counting and checkweighing applications in production, packaging, warehouse, inventory, shipping and receiving areas. The Defender 3000 Series features a simple, yet rugged tubular-frame base design and indicators with tactile keys, multicolor backlit LCD display, AC or battery operation and flexible mounting capabilities.

Unique Features:

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

- Defender 3000 bench scale features a 304-stainless steel platform, powder-coated steel tubular frame, column and aluminum load cell. Indicator features a durable ABS housing and powder coated steel mounting bracket.

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

- Defender 3000 washdown bench scale features a 304-stainless steel platform, frame, column and IP67 load cell. Indicator features a protected 304-stainless steel housing and mounting bracket with IP66 protection rate.

DEFENDER™ 3000 *Bench Scales*

Specifications

Column Mount Bench Scale

Model	i-D33P15B1R1	i-D33P30B1R1	i-D33P60B1R1	i-D33P60B1L2	i-D33P150B1L2	i-D33P150B1X2	i-D33P300B1X2	i-D33P300B1V3	i-D33P600B1V3
Capacity x Default Readability	15 kg x 1 g	30 kg x 2 g	60 kg x 5 g		150 kg x 10 g		300 kg x 20 g		600 kg x 50 g
Maximum Displayed Resolution	1:15,000		1:12,000		1:15,000				1:12,000
Maximum Approved Resolution	1:3,000								
Linearity/Repeatability	±2d								
Indicator	ABS indicator								
Column	330 mm powder-coated steel				680 mm powder-coated steel				980 mm powder-coated steel
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon sealed against moisture								
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)	355 x 305 x 121.8 x 75 x 541.6 x 489.1 mm				550 x 420 x 134 x 80 x 896.1 x 685.6 mm		650 x 500 x 150 x 90 x 894.6 x 784.6 mm		800 x 600 x 154.1 x 90 x 1194.6 x 933.1 mm
Shipping Dimensions (L x W x H)	642 x 497 x 212 mm				857 x 564 x 225 mm		1022 x 687 x 247 mm		1165 x 780 x 235 mm
Approx. Net Weight	10.9 kg				17.5 kg		27.6 kg		46 kg
Approx. Shipping Weight	13.9 kg				21.5 kg		31.1 kg		50 kg

Model	i-D33XW15C1R6	i-D33XW30C1R6	i-D33XW60C1R6	i-D33XW60C1L7	i-D33XW150C1L7	i-D33XW150C1X7	i-D33XW300C1X7
Capacity x Default Readability	15 kg x 1 g	30 kg x 2 g	60 kg x 5 g		150 kg x 10 g		300 kg x 20 g
Maximum Displayed Resolution	1:15,000		1:12,000		1:15,000		
Maximum Approved Resolution	1:3,000						
Linearity/ Repeatability	±2d						
Indicator	304 stainless steel indicator						
Column	330 mm stainless steel			680mm stainless steel			
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon sealed IP67 stainless steel 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)	355 x 305 x 121.8 x 75 x 541.6 x 481.9 mm			550 x 420 x 134 x 80 x 896.1 x 685.6 mm		650 x 500 x 150 x 90 x 894.6 x 784.6 mm	
Shipping Dimensions (L x W x H)	642 x 497 x 212 mm			857 x 564 x 225 mm		1022 x 687 x 247 mm	
Approx. Net Weight	12.3 kg			19.2 kg		31.8 kg	
Approx. Shipping Weight	15.3 kg			23.3 kg		35.3 kg	

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Specifications

Front Mount Bench Scale

Model	i-D33P15B1R5	i-D33P30B1R5	i-D33P60B1R5	i-D33P60B1L5	i-D33P150B1L5	i-D33P150B1X5	i-D33P300B1X5
Capacity x Default Readability	15 kg x 1 g	30 kg x 2 g	60 kg x 5 g		150 kg x 10 g		300 kg x 20 g
Maximum Displayed Resolution	1:15,000		1:12,000		1:15,000		
Maximum Approved Resolution	1:3,000						
Linearity/Repeatability	±2d						
Indicator	ABS indicator						
Mount	304 stainless steel front-mount bracket with handle						
Base Construction	Stainless steel removable weighing platform, powder-coated steel base construction, aluminum loadcell silicon sealed against moisture						
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)	355 x 305 x 121.8 x 75 x 130 x 645.5 mm			550 x 420 x 134 x 80 x 132.9 x 842 mm		650 x 500 x 150 x 90 x 133 x 941 mm	
Shipping Dimensions (L x W x H)	857 x 564 x 225 mm			1022 x 687 x 247 mm		1022 x 687 x 247 mm	
Approx. Net Weight	10.2 kg			16.1 kg		26.2kg	
Approx. Shipping Weight	12.5 kg			20.1 kg		29.7 kg	

Model	i-D33XW15C1R5	i-D33XW30C1R5	i-D33XW60C1R5	i-D33XW60C1L5	i-D33XW150C1L5	i-D33XW150C1X5	i-D33XW300C1X5
Capacity x Default Readability	15 kg x 1 g	30 kg x 2g	60 kg x 5 g		150 kg x 10 g		300 kg x 20 g
Maximum Displayed Resolution	1:15,000		1:12,000		1:15,000		
Maximum Approved Resolution	1:3,000						
Linearity/Repeatability	±2d						
Indicator	304 stainless steel indicator						
Mount	304 stainless steel front-mount bracket with handle						
Base Construction	Stainless steel removable weighing platform with stainless steel frame, silicon sealed IP67 stainless steel 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)	355 x 305 x 121.8 x 75 x 130 x 645.5 mm			550 x 420 x 134 x 80 x 132.9 x 842 mm		650 x 500 x 150 x 90 x 133 x 941 mm	
Shipping Dimensions (L x W x H)	857 x 564 x 225 mm			1022 x 687 x 247 mm		1022 x 687 x 247 mm	
Approx. Net Weight	11.9 kg			18.1 kg		30.8 kg	
Approx. Shipping Weight	14.3 kg			22.2 kg		34.3 kg	

Indicators

| Model	i-DT33P	i-DT33XW
Construction	ABS housing, painted steel mounting bracket	304 stainless steel housing and mounting bracket
Protection Rate	IP54 with dust cover	IP66
Weighing Units	g, kg, t	
Application Modes	Weighing, Parts Counting, Checkweighing and Totalization	
Display	6-digit, 7-segment LCD display with multi-color backlight, 45 mm high digits	
Check Indicator	3 Color (red, green, yellow) backlight	
Keyboard	4 function keys	
Auto-zero Tracking	Off, 0.5 d, 1 d or 3 d	
Zeroing Range	2% or 100% of capacity	
Interface	RS232 included, Optional USB, Ethernet	
Power	100-240 VAC / 50/60 Hz Universal Power Supply or C cell battery (Not included) or internal rechargeable battery (optional)	100-240 VAC / 50/60 Hz Universal Power Supply, hardwired or standard rechargeable battery
Battery Life	Up to 360 hours continuous use with backlight off (C cell battery) or up to 100 hours continuous use with backlight off (optional rechargeable battery)	Up to 100 hours continuous use with backlight off(rechargeable battery)
Calibration	Zero, Span or 3 point-Linear	

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Outline Dimensions
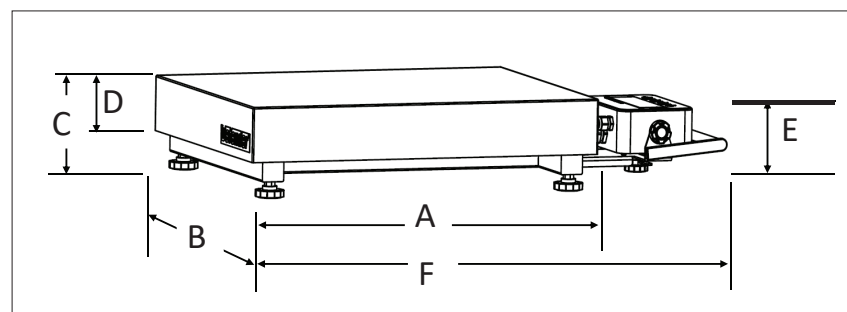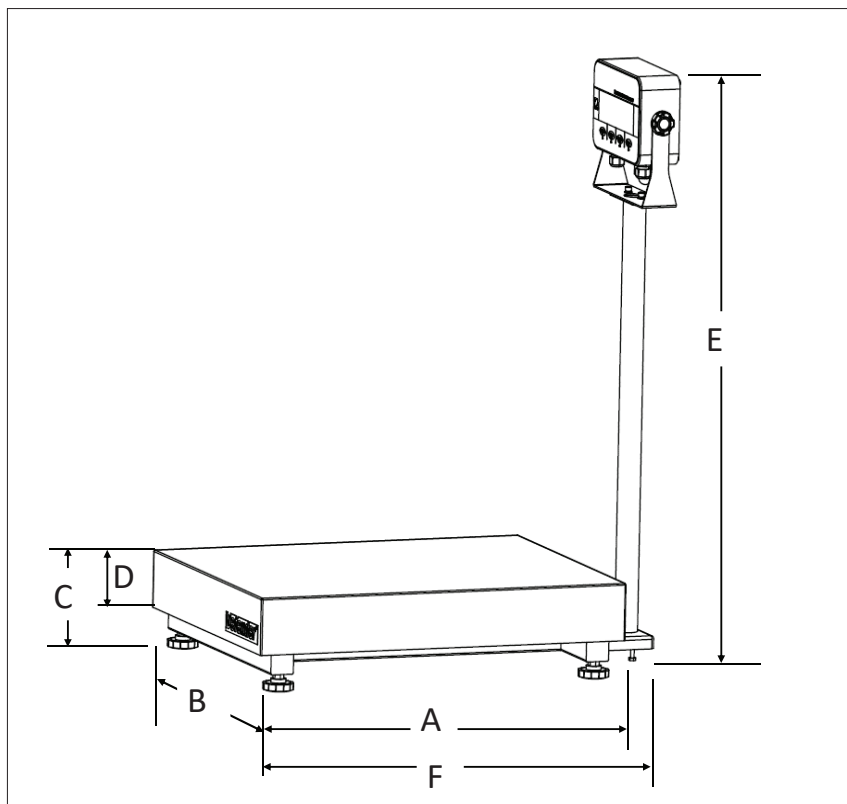
Accessories

Ethernet Kit. 30429666
USB Device Kit i-DT33. 30699120
Dust Cover (5) i-DT33. 30699121
Wheel Kit, Defender Series 30372146
Wheel Kit SST Defender Series. 30616409
Carrying Handle Kit, SST i-DT33. 30696600
SF40A Printer. 30045641
Cable RS232 i-DT33P. 80500525
Rechargeable Battery Kit i-DT33P 30699122
DB9 Adapter, Male to Male. 30692384

Column Kit for i-DT33 indicator:
Column Kit, 330 mm, SST. 30696595
Column Kit, 680 mm, SST. 30696596
Column Kit, 330 mm, CS. 30696597
Column Kit, 680 mm, CS. 30696598
Column Kit, 980 mm, CS. 30696599

Column Kit for DT52 indicator:
Column Kit, 350 mm, CS. 30424410
Column Kit, 680 mm, CS. 30424411
Column Kit, 980 mm, CS. 30424412
Column Kit, 350 mm, SST. 30424413
Column Kit, 680 mm, SST. 30424414

Compliance

• **Metrology:** NMI R 76; OIML R 76

• **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 A; Canada ICES-003 Class A

• **Ingress Protection:** IEC 60529 – IP54 (for indicator with dust cover), IEC 60529 – IP65 (for load
  cell), IEC 60529 – IP66 (for i-DT33XW), IEC 60529 – IP54 (for i-DT33P with dust cover),
  IEC 60529 – IP67 (for i-DxC1y), IEC 60529 – IP65 (for i-DxB1y)

• **Compliance Marks:** CE, CSA, RCM

• **Other:** WEEE, RoHS