



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 rechargeable 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.
- This tough industrial 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 Bench Scales

Specifications

Column Mount Bench Scale

Model	i-D33P15B1R1	i-D33P30B1R1	i-D33P60B1R1	i-D33P60B1L2	i-D33P150B1L2
Capacity x Default Readability	15 kg x 2 g	30 kg x 5g	60 kg x 10 g		150 kg x 20 g
Maximum Displayed Resolution	1:7,500	1:6,000		1:7,500	
Linearity/Repeatability	±1d				
Indicator	ABS indicator				
Column	330 mm powder-coated steel			680 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	
Shipping Dimensions (L x W x H)	642 x 497 x 212 mm			857 x 564 x 225 mm	
Approx. Net Weight	10.9 kg			17.5 kg	
Approx. Shipping Weight	13.9 kg			21.5 kg	

Model	i-D33P150B1X2	i-D33P300B1X2	i-D33P300B1V3	i-D33P600B1V3
Capacity x Default Readability	150 kg x 20 g	300 kg x 50 g	300 kg x 50 g	600 kg x 100 g
Maximum Displayed Resolution	1:7,500	1:6,000		
Linearity/Repeatability	±1d			
Indicator	ABS indicator			
Column	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)	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	
Shipping Dimensions (L x W x H)	1022 x 687 x 247 mm		1165 x 780 x 235 mm	
Approx. Net Weight	27.6 kg		46 kg	
Approx. Shipping Weight	31.1 kg		50 kg	

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Specifications

Front Mount Bench Scale

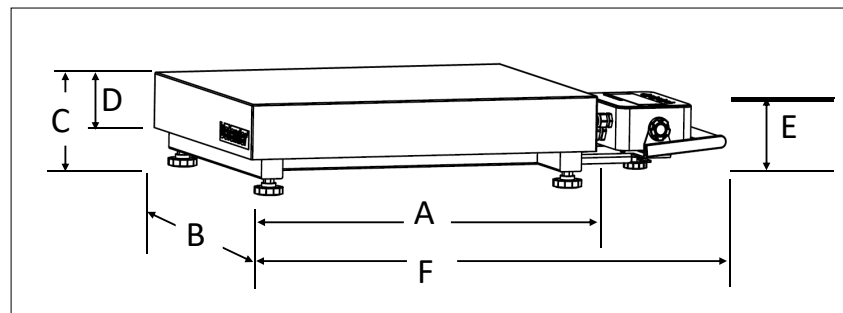
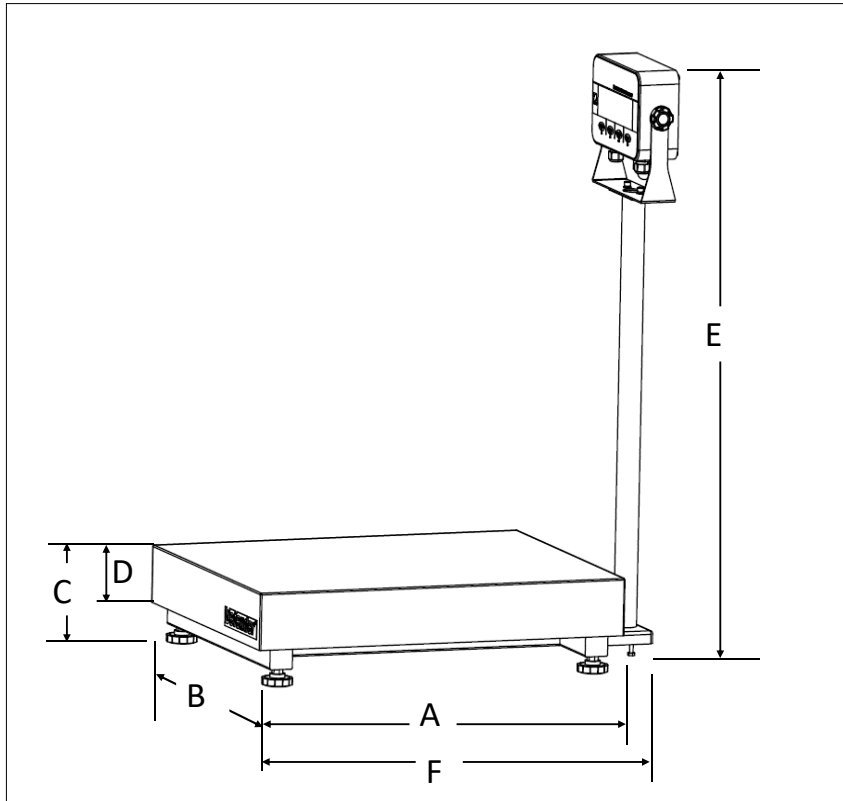
Model	i-D33P15B1R5	i-D33P30B1R5	i-D33P60B1R5	i-D33P60B1L5	i-D33P150B1L5	i-D33P150B1X5	i-D33P300B1X5
Capacity x Default Readability	15 kg x 2 g	30 kg x 5g	60 kg x 10 g		150 kg x 20 g		300 kg x 50 g
Maximum Displayed Resolution	1:7,500	1:6,000			1:7,500		1:6,000
Linearity/Repeatability	±1d						
Indicator	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	

Indicators

Model	i-DT33P
Construction	ABS housing, painted steel mounting bracket
Protection Rate	IP54 with dust cover
Weighing Units	Kilogram, Gram, Pound, Ounce, Pound: Ounce
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 Standard Rechargeable battery
Battery Life	Up to 100 hours continuous use with backlight off
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

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

- **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)
- **Compliance Marks:** CE, UKCA
- **Other:** WEEE, RoHS

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