



# Defender™ 3000

Bench Scales



## ***Designed with affordability in mind, but with no compromise on quality!***

The OHAUS Defender™ 3000 Series economy line of bench scales is ideal for general weighing and simple counting applications in production, packaging, warehouse, inventory, shipping and receiving areas. The Defender 3000 Series feature a simple, yet rugged, tubular-frame base design and indicators with tactile keys, backlit LCD display, built-in rechargeable battery operation and flexible mounting capabilities. The Defender 3000 Series is the solution to your weighing applications that require dependability within an affordable budget.

### ***Standard Features Include:***

- Four capacities: 60lb/30kg, 150lb/60kg, 300lb/150kg, and 600lb/300kg
- Maximum Resolution 1:6000-7500d
- 304 stainless steel pan with painted carbon steel frame and aluminum IP67 load cell
- Indicator features a high-impact durable ABS housing with reversible face for either wall, column or table-top mounting
- Adjustable non-slip rubber leveling feet with externally visible level indicator
- Multiple weighing units: lb, oz, lb:oz, kg, g
- Parts counting mode with selectable sample sizes, last sample size and Average Piece Weight data
- 1-in/25mm high LCD weight display with high-contrast backlight
- Built-in RS232 for printing and data connection
- AC adapter and internal rechargeable lead acid battery

# Defender™ 3000 Bench Scales

## Specifications

| Models   | D31P30BR  | D31P60BR   | D31P60BL   | D31P150BL  | D31P150BX  | D31P300BX   |
|--|---|--|--|--|--|---|
| Capacity x Readability (d)                     | 60 lb x 0.01 lb<br>960 oz x 0.2 oz<br>60 lb x 0.2 oz (lb:oz)<br>30 kg x 0.005 kg<br>30000 g x 5 g   | 150 lb x 0.02 lb<br>2400 oz x 0.5 oz<br>160 lb x 0.5 oz (lb:oz)<br>60 kg x 0.01 kg<br>60000 g x 10 g | 150 lb x 0.02 lb<br>2400 oz x 0.5 oz<br>160 lb x 0.5 oz (lb:oz)<br>60 kg x 0.01 kg<br>60000 g x 10 g | 300 lb x 0.05 lb<br>4800 oz x 1 oz<br>300 lb x 1 oz (lb:oz)<br>150 kg x 0.02 kg<br>150000 g x 20 g | 300 lb x 0.05 lb<br>4800 oz x 1 oz<br>300 lb x 1 oz (lb:oz)<br>150 kg x 0.02 kg<br>150000 g x 20 g | 600 lb x 0.1 lb<br>9600 oz x 2 oz<br>600 lb x 2 oz (lb:oz)<br>300 kg x 0.05 kg<br>300000 g x 50 g |
| Maximum Displayed Resolution                   | 1:6000  | 1:7500   | 1:7500   | 1:7500   | 1:7500   | 1:6000  |
| Load Cell Protection                           | IP67  |  |  |  |  |   |
| Base Construction                              | 304 stainless steel pan with painted carbon steel frame, non-slip rubber leveling feet  |  |  |  |  |   |
| Platform Dimensions (WxDx min H)               | 12 x 14 x 4.8 in / 305 x 355 x 123 mm   | 16.5 x 21.6 x 5.4 in / 420 x 550 x 136 mm  | 16.5 x 21.6 x 5.4 in / 420 x 550 x 136 mm  | 19.7 x 25.6 x 5.8 in / 500 x 650 x 147 mm  | 19.7 x 25.6 x 5.8 in / 500 x 650 x 147 mm  | 19.7 x 25.6 x 5.8 in / 500 x 650 x 147 mm   |
| Front View Dimensions (F1 x F2 x F3 x F4 x F5) | 8.2 x 6.5 x 12 x 4.8 x 3 x 10 in<br>210 x 166 x 305 x 123 x 75 x 256 mm   | 8.2 x 6.5 x 16.5 x 5.4 x 3.2 x 14.6 in<br>210 x 166 x 420 x 136 x 80 x 371 mm                        | 8.2 x 6.5 x 16.5 x 5.4 x 3.2 x 14.6 in<br>210 x 166 x 420 x 136 x 80 x 371 mm                        | 8.2 x 6.5 x 19.7 x 5.6 x 3.5 x 17.3 in<br>210 x 166 x 500 x 143 x 90 x 440 mm                      | 8.2 x 6.5 x 19.7 x 5.6 x 3.5 x 17.3 in<br>210 x 166 x 500 x 143 x 90 x 440 mm                      | 8.2 x 6.5 x 19.7 x 5.6 x 3.5 x 17.3 in<br>210 x 166 x 500 x 143 x 90 x 440 mm                     |
| Side View Dimensions (S1 x S2 x S3 x S4 x S5)  | 22.5 x 18.6 x 14 x 12 x 2 in<br>572 x 472 x 355 x 306 x 52 mm   | 36.2 x 26.3 x 21.7 x 19.7 x 2 in<br>920 x 668 x 550 x 500 x 52 mm                                    | 36.2 x 26.3 x 21.7 x 19.7 x 2 in<br>920 x 668 x 550 x 500 x 52 mm                                    | 36.2 x 29.1 x 25.6 x 23.2 x 2 in<br>920 x 740 x 650 x 590 x 52 mm                                  | 36.2 x 29.1 x 25.6 x 23.2 x 2 in<br>920 x 740 x 650 x 590 x 52 mm                                  | 36.2 x 29.1 x 25.6 x 23.2 x 2 in<br>920 x 740 x 650 x 590 x 52 mm                                 |
| Column   | 13.8 in / 350 mm fixed height, tubular painted steel  | 27.6 in / 700 mm fixed height, tubular painted steel   |  |  |  |   |
| Leveling Component                             | Externally visible level bubble and adjustable leveling feet with locking nuts  |  |  |  |  |   |
| Safe Overload Capacity                         | 125% of rated capacity  |  |  |  |  |   |
| Indicator Construction                         | ABS plastic housing   |  |  |  |  |   |
| Weighing Units                                 | lb, oz, lb:oz, kg, g  |  |  |  |  |   |
| Functions                                      | Weighing, Parts Counting  |  |  |  |  |   |
| Weight Display                                 | 6-digit, 7-segment backlit LCD, 1 inch / 25 mm high digits  |  |  |  |  |   |
| Keyboard                                       | 4 function mechanical keys, raised, tactile   |  |  |  |  |   |
| Stabilization Time                             | Within 2 seconds  |  |  |  |  |   |
| Auto-zero Tracking                             | Off, 0.5, 1 or 3 divisions  |  |  |  |  |   |
| Key Zeroing Range                              | 2% or 100% of capacity  |  |  |  |  |   |
| Span Calibration                               | 5 lb/kg to 100% of capacity, user selectable  |  |  |  |  |   |
| Power  | AC adapter with 100-hour internal rechargeable lead acid battery included   |  |  |  |  |   |
| Interface                                      | Bi-directional RS232C   |  |  |  |  |   |
| Operating Temperature Range                    | 14°F to 104°F / -10°C to 40°C, Maximum relative humidity 80 % for temperatures up to 88°F / 31°C, decreasing linearly to 50 % relative humidity at 104°F / 40°C, non condensing |  |  |  |  |   |
| Net Weight                                     | 26 lb / 12 kg   | 42 lb / 19 kg  | 42 lb / 19 kg  | 71 lb / 32 kg  | 71 lb / 32 kg  | 71 lb / 32 kg   |
| Shipping Weight                                | 33 lb / 15 kg   | 51 lb / 23 kg  | 51 lb / 23 kg  | 82 lb / 37 kg  | 82 lb / 37 kg  | 82 lb / 37 kg   |
| Shipping Dimensions                            | 25.3 x 19.6 x 8.5 in / 642 x 497 x 212 mm   | 33.7 x 22.2 x 8.9 in / 857 x 564 x 225 mm  | 33.7 x 22.2 x 8.9 in / 857 x 564 x 225 mm  | 40.2 x 27 x 9.7 in / 1022 x 687 x 247 mm   | 40.2 x 27 x 9.7 in / 1022 x 687 x 247 mm   | 40.2 x 27 x 9.7 in / 1022 x 687 x 247 mm  |

## Features

ABS plastic housing with internal rib reinforcements, reversible front/rear cover, backlit LCD weight display, tactile mechanical keys, built-in bidirectional RS232C with manual/continuous/interval printing, hardware configuration lockout switch, internal lead-acid rechargeable battery and AC adapter. Software included for parts counting mode with selectable sample sizes, selectable span calibration points, averaging level, auto-zero tracking, battery saving auto-off, Geo Code geographical gravity calibration adjustment and software menu lockouts. Stainless steel pan with painted carbon steel tubular frame, non-slip rubber leveling feet with locking nuts, externally visible level bubble, aluminum IP67 load cell, down-stops for overload protection, hollow tubular painted steel columns.

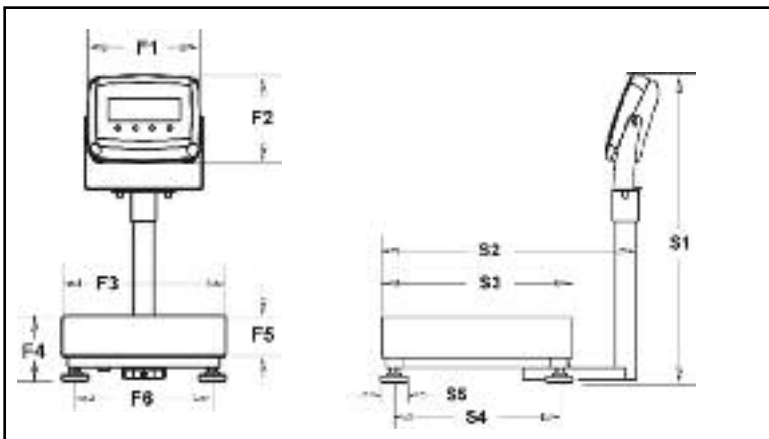
## Accessories

Call OHAUS for information on printer and cable accessories

## Compliance

- Safety and EMC: EN60950, EN61326, FCC Class A, CE (AC adapter), cUL<sub>US</sub>
- Quality: OHAUS quality management system registered to ISO 9001:2000

## Outline Dimensions



## OHAUS CORPORATION

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