



RANGER[®]7000

Compact Bench Scale



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Top-of-the-Line Compact Scales for Even the Most Complex Industrial Applications

For Ranger 7000, there is one resounding theme: it offers the best of every ingenious feature that make OHAUS industrial products the right tools for your toughest weighing jobs. Ranger 7000 boasts the highest resolution, largest display, most application modes and connectivity options, as well as the largest memory library of any industrial compact bench scale in the OHAUS portfolio.

Standard Features Include:

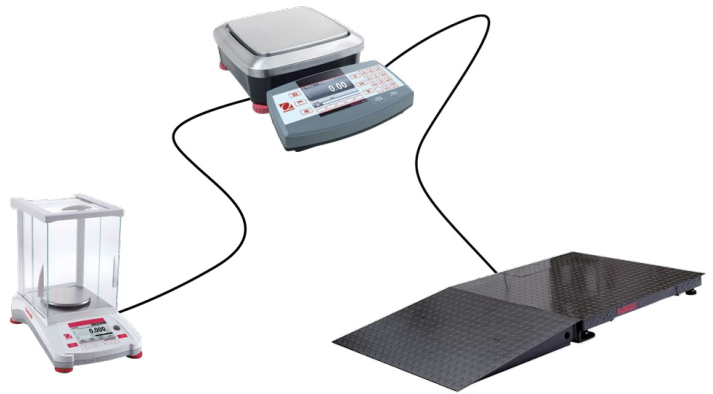
- Simplify complex applications and minimize the need for manual calculations with 10 advanced application modes, peripheral device control and an optional kit for a second scale platform.
- The most precise scale in its class with one-second stabilization time, up to 75,000d or 350,000d display resolution and legal-for-trade certifications.
- Extremely durable scale designed to thrive in rugged industrial environments. Features IP54-rated metal housing and sealed metal terminal.
- With SmarText 2.0 software and a 109 mm graphic display, the advanced functionality of Ranger 7000 is simple to use with minimal training.

RANGER® 7000 Compact Bench Scales

Advanced Features Take Industrial Weighing to the Next Level

With ten advanced application modes, including formulation, sieve analysis and density weighing, Ranger 7000 can meet the weighing and measurement needs of practically any industrial application or manufacturing process. Ranger 7000 contains a 2,000 item library for storage of weighing, check, counting, and filling data and 30 item library for formulation and sieve analysis data, ensuring abundant space for all data storage needs.

With RS232 Cable for Reference Balance and the 2nd Platform / Remote Base Kit, you can connect OHAUS balance for more accurate sampling and a floor scale platform or bench scale base with higher capacity in order to achieve precise results for a job of any size. Results from both scale and remote base can be displayed at the same time. Ranger 7000 can control peripheral equipment through the optional Discrete I/O interface, which can be used for control in Filling and Check applications. The Ranger 7000 also supports three levels of User Management (Admin, Supervisor and Operator) 50 profiles with password protection to prevent unauthorized changes.



Floor scale and balance sold separately

Fast Performance and Legal for Trade Certifications Assure Accurate Results

Ranger 7000 standard models have an extremely precise display resolution up to 75,000d (7,500d certified). This incredible resolution can only be outdone by the Ranger 7000 high resolution models which offer a maximum 350,000d (35,000d certified) resolution. R71MHD35 drives extreme precision with 0.1g readability for demanding industrial processing and testing applications where capacity and high resolution precision is the standard. Standard and High Resolution models feature an extended resolution mode "x10" which increases the display resolution. Standard models have the additional "x20" for more detailed results.

All high resolution models also come standard with AutoCal™ which ensures performance and assists with routine maintenance by automatically calibrating the balance daily. This feature can be turned on or off by the user, depending on the application.

- Self-calibrates the system when it senses a change in temperature, sufficient enough to affect weighing accuracy or every 11 hours.
- Performs routine calibration and reduces the need for external masses

No matter which version you choose, you can be guaranteed that your results will be available in just one second from the time the load is placed on the platform, improving operator efficiency, productivity, and throughput. This ideal combination of features ensures two of the most important aspects of your weighing results: that they are highly accurate, and delivered quickly.



RANGER® 7000 *Compact Bench Scales*

Sturdy Industrial and Modular Design Support Flexible and Heavy-Duty Use

It is a common knowledge that industrial scales are not always delicately handled and Ranger 7000 was built to withstand heavy duty usage. Ranger 7000 has a die-cast sealed metal indicator and housing, ensuring its accurate and long-term operation in even the most demanding industrial environments. The indicator can be separated from the platform and mounted to the wall or bench with the optional mounting kit accessory, allowing you to customize the placement of your scale based on the size and setup of your workstation.

Additionally, a weigh below hook offers the functionality to perform specific gravity tests or weigh items that cannot be easily placed on the weighing platform.



Weight below hook in use



Shown with optional tower mount

Cutting-Edge SmarText™ 2.0 Software Powers the Technologically Advanced Ranger 7000

The SmarText 2.0 interface will guide you through each application and unique features. The on-screen prompts will reduce operator training time and require few steps for a complete configuration.

Ranger 7000 has a bright backlit display and navigation panel that is comprised of a keypad with 5 soft, 8 function, and 12 alphanumeric keys and a 109 mm graphic display, which can be operated in multiple languages. The colorful display indicates at a glance if the weight on the platform is within the target range, making Check Weighing/Counting simple and fast!



Standard Connectivity with Flexible Options

The data produced by the Ranger 7000 can be easily exported through the standard RS232 or USB device port for output to a printer or flash drive. The USB port can be used to support a barcode scanner. Options include Ethernet, a second RS232 and Discrete I/O for driving external equipment. Alibi Memory can be supported with an optional kit.



RANGER® 7000 Compact Bench Scales

Advanced Application Modes



Weighing

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

*Can include statistics with the relative deviation, number of samples and other statistical data.



Density Determination

Determine density of solids. With the weigh below hook, it's possible to perform specific gravity tests for objects that cannot be easily placed on the weighing pan.



Filling

Fill a container to a target weight. Progress bar displays filling status. Connect with Discrete I/O option kit for auto-filling system.



Differential Weighing

Calculate the difference between sample weights and initial weights.



Parts Counting

Count samples of uniform weight. Advanced auto-optimization software recalculates the average piece weight as the overall weight increases.



Dynamic Weighing

Used to weigh an unstable load due to environmental factors. Scale takes an average of weights over a period of time or can use Display Hold to lock the last stable weight on the display.

*A Display Hold feature manually or automatically holds the last stable weight on the display. (Activated by setting time interval of Dynamic Weighing to zero).



Formulation

For compounding and recipe making. Available "compensation mode" which enables recalculation in case component added is outside the tolerance.



Check Weighing/Counting

Compare the weight/count of a sample against target limits. Connect with Discrete I/O option kit for external check lights.



Percent Weighing

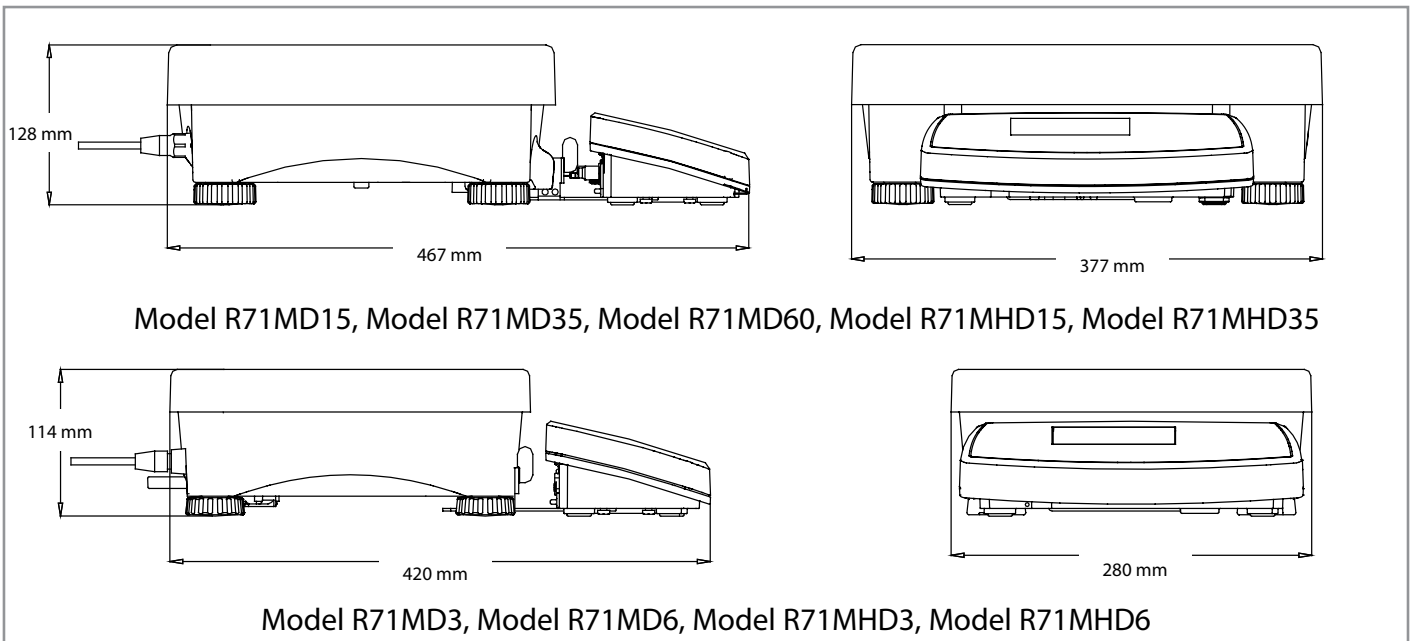
Measure the weight of a sample displayed as a percentage of a pre-established Reference Weight.



Sieve Analysis

A practice or procedure used to assess the particle size distribution (also called gradation) of a granular material.

Outline Dimensions

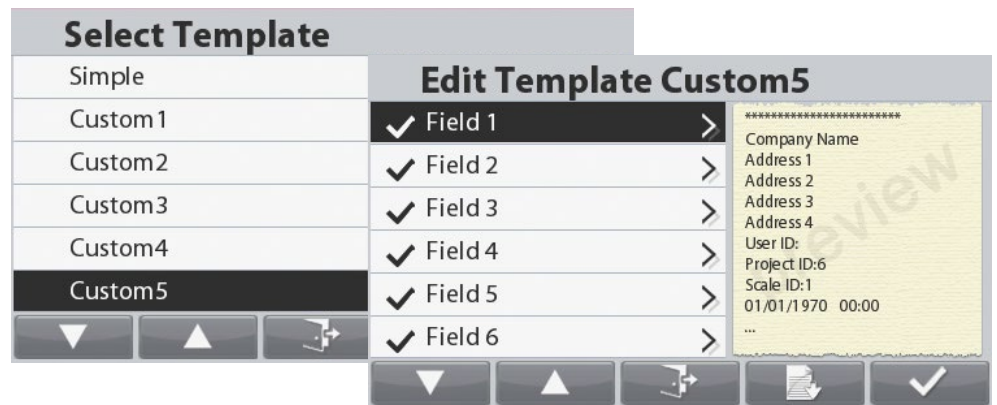


RANGER® 7000 Compact Bench Scales

Print Templates

A total of six print templates are available to ensure you can print out all of the data you need. A quick print Simple Template allows you to get up to speed right out of the box. The other templates can be quickly edited to provide custom outputs – the Ranger includes a pre-defined template for Sieve mode.

Select Zebra barcode label printers can be supported using additional templates.



Other Standard Features and Equipment

Removable stainless steel platform, check weighing background color change (R-Y-G) with selectable operation and audible signal settings, integral weigh below hook, sealed front metal panel, menu lock switch, level indicator, adjustable leveling feet, additional operating languages (IT/ES/FR/DE/EN/CN/ KR/PL/PT/JP), selectable environmental and auto-print settings, stability indicator, selectable brightness settings, auto-dim, auto-sleep, auto tare, chain tare.

Approvals

- **Metrology:** NIST Handbook 44 (NTEP CC 14-033A2), Measurement Canada Weights and Measures Regulations (AM-5940), (Class II, nmax 35000; Class III, nmax 7500)
- **Product Safety:** CSA C22.2 No. 60950-1, UL 60950-1, IEC 60950-1
- **Electromagnetic Compatibility:** FCC Part 15 Class A, ICES-001 Class A, IEC 61326-1 (emissions Class B, immunity Industrial requirements)

Accessories

Alibi Memory Kit.....	80500503
2nd RS232 Kit.....	30037448
19.6 inch / 498mm High Painted Column Kit.....	30095408
Discrete I/O Kit 2 in/4out.....	30097591
Ethernet Kit.....	30037447
Cable Extension Kit, 29.5 ft / 9 m.....	30101495
2nd Platform / Remote Base Kit.....	30097590
Li-ion Rechargeable Battery Kit.....	30041295
SF40A Impact Printer.....	30045641
In Use Cover.....	30135320
RS232 Cable for Reference Balance.....	30057595
Cable, RS232, IBM 9P.....	80500525
Auxiliary Display.....	30472064

RANGER® 7000 Compact Bench Scales

General Specifications

Weighing Units	kg, g, lb, oz, lb:oz, Custom Units
Application Modes	Weighing with Statistics, Parts Counting, Percent Weighing, Check Weighing/Counting, Dynamic Weighing (Display Hold), Filling, Formulation, Differential Weighing, Density Weighing, Sieve Analysis
Display	109 mm / 4.3 in TFT Graphic LCD
Keypad	8 function, 5 soft, 12 numeric membrane keys
Construction	Stainless Steel Platform, Die Cast Housing
Protection	IP54
Stabilization Time	1 second
Zeroing Range	2% or 10% of Capacity
Safe Overload Capacity	150% of Capacity
Interface	Standard RS232, USB Device, USB Host Optional Ethernet, 2 nd RS232, 2 nd Platform Remote Base, 2 In/4 Out Discrete I/O
Power	100-240 VAC / 50/60 Hz Universal Power Supply, rechargeable lithium battery (Optional)
Display Dimensions (W × D × H)	267 × 118 × 72 mm

Technical Specifications

Model	R71MD3	R71MD6	R71MD15	R71MD35	R71MD60
Capacity × Readability	3 kg × 0.0005 kg 3,000 g × 0.05 g 6 lb × 0.0001 lb 96 oz × 0.002 oz	6 kg × 0.0001 kg 6,000 g × 0.1 g 15 lb × 0.0002 lb 240 oz × 0.005 oz	15 kg × 0.0002 kg 15,000 g × 0.2 g 30 lb × 0.0005 lb 480 oz × 0.01 oz	35 kg × 0.0005 kg 35,000 g × 0.5 g 70 lb × 0.001 lb 1,120 oz × 0.02 oz	60 kg × 0.001 kg 60,000 g × 1 g 150 lb × 0.002 lb 2,400 oz × 0.05 oz
Minimum Recommended APW	0.0025 g	0.005 g	0.01 g	0.025 g	0.05 g
Minimum Recommended Sample Weight	1 g	2 g	4 g	10 g	20 g
Maximum Displayed Resolution	1:60,000	1:75,000	1:75,000	1:70,000	1:75,000
Internal Counting Resolution	1:1,200,000	1:1,500,000	1:1,500,000	1:1,400,000	1:1,500,000
Certified Capacity × Readability	3 kg × 0.0005 kg 3,000 g × 0.5 g	6 kg × 0.001 kg 6,000 g × 1 g	15 kg × 0.002 kg 15,000g × 2 g	35 kg × 0.005 kg 35,000 g × 5 g	60 kg × 0.01 kg 60,000 g × 10 g
Certified Minimum APW	0.025 g	0.05 g	0.1 g	0.25 g	0.5 g
Certified Minimum Sample Weight	10 g	20 g	40 g	100 g	200 g
Certified/Approved Resolution	1:6,000		1:7,500	1:7,000	1:6,000
Linearity/Repeatability	±2d				
Base Housing Dimensions (W × D × minH)	280 × 280 × 114 mm		377 × 311 × 128 mm		
Platform Dimensions (W × D × H)	280 × 280 × 31 mm		377 × 311 × 48mm		
Net Weight	6.8 kg		9.9 kg		
Shipping Weight	8.5 kg		13.4 kg		
Shipping Dimensions	605 × 405 × 244 mm		665 × 525 × 330 mm		
Calibration	Span or Linear				
Battery Life	12 hours continuous use				

Model	R71MHD3	R71MHD6	R71MHD15	R71MHD35
Capacity × Readability	3 kg × 0.0001 kg 3,000 g × 0.01 g 6 lb × 0.00002 lb 96 oz × 0.0005 oz	6 kg × 0.00002 kg 6,000 g × 0.02 g 15 lb × 0.00005 lb 240 oz × 0.001 oz	15 kg × 0.0001 kg 15,000 g × 0.1 g 30 lb × 0.0002 lb 480 oz × 0.005 oz	35 kg × 0.0001 kg 35,000 g × 0.1 g 70 lb × 0.0002 lb 1,120 oz × 0.005 oz
Min. Recommended APW	0.0005 g	0.001 g	0.005 g	
Min. Recommended Sample Weight	0.2 g	0.4 g	2 g	
Maximum Displayed Resolution	1:300,000	1:300,000	1:150,000	1:350,000
Internal Counting Resolution	1:6,000,000	1: 6,000,000	1: 3,000,000	1: 7,000,000
Certified Capacity × Readability	3 kg × 0.0001 kg 3,000 g × 0.1 g	6 kg × 0.0002 kg 6,000 g × 0.2 g	15 kg × 0.001 kg 15,000 g × 1 g	35 kg × 0.001 kg 35,000 g × 1 g
Certified Minimum APW	0.005 g	0.01 g	0.05 g	
Certified Minimum Sample Weight	2 g	4 g	20 g	
Certified/Approved Resolution	1:30,000	1:30,000	1:15,000	1:35,000
Linearity/Repeatability	± 2d			
Display Housing Dimensions (W × D × H)	267 × 118 × 72 mm			
Base Housing Dimensions (W × D × minH)	280 × 280 × 114 mm		377 × 311 × 128 mm	
Platform Dimensions (W × D × H)	210 × 210 × 12 mm		377 × 311 × 48mm	
Net Weight	7.2 kg		10.9 kg	
Shipping Weight	9.2 kg		14.4 kg	
Shipping Dimensions	605 × 405 × 244 mm		665 × 525 × 330 mm	
Calibration	AutoCal™, Span or Linear			
Battery Life	9 hours continuous use			

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



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