



RANGER®7000

Compact Bench Scale



Top-of-the-Line Compact Scales for Statistics Quality Control

Statistics mode (SQC) is designed to help manufacturers monitor and maintain product quality in industries such as food, pharmaceuticals, and many manufacturing environments. Weight verification is a widely used statistical quality control technique. The Ranger 7000 application includes built-in functionality for real-time data analysis, trend tracking, and quality compliance.

Unique Features:

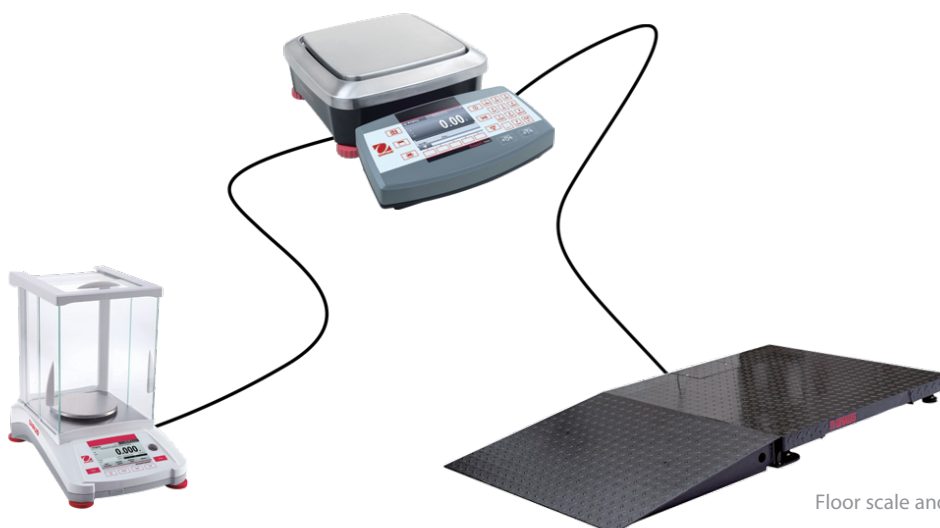
- Advanced counting software to increase the accuracy of part average piece weights (APWs), the ability to store up to 2 000 items in the Library, and the ability to support both barcode readers and label printers for enhanced parts management.
- Delivers class-leading precision with one-second stabilization, ensuring rapid, repeatable measurements—critical for high-throughput Statistics sampling.
- The large 109 mm colour graphic display clearly shows the operator the information for the current batch and weights. The programmable keys work with the display to guide users through operation. All keys can be locked to minimise operator input errors.

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Advanced functionality designed to ensure consistent quality standards

Precision at Every Step – Statistics mode of Ranger 7000!

- **The Statistics Library** stores up to 30 items, enabling quick access to key parameters such as part number, description, density, tolerance limits, tolerance mode, and tare type. All stored data can be easily downloaded to a PC and managed using the new OHAUS ScaleMate™ software for seamless integration and control.
- **Two tolerance modes** are available: Legal and Free:
- In **Legal mode**, tolerance limits are automatically set according to the Directive pre-packaged product. In **Free mode**, users can customize tolerance limits to meet their specific requirements.
- **The sampling quantity** is automatically determined based on the lot size, eliminating the need for manual calculation, but can also be defined manually if necessary.
- **The Integral Check** ensures consistent quality by automatically verifying every pre-packaged product for weight accuracy and compliance.
- Supporting **up to 5 lines** weight analysis, operating independently for seamless switching and improved efficiency.
- **The five tare modes** provide an ideal solution for quality control of pre-packaged products: Free Tare, Average Tare, Preset Tare, Empty/Full, Tare Full/Empty Tare.
- **Statistical results** can be customized and printed for record-keeping or further analysis.
- **Durable aluminum die-cast housing** hold up to daily industrial use.
- The number of samples is automatically determined based on the batch size, **eliminating the need for calculation**, but can also be entered manually if necessary.
- **Full control** ensures consistent quality by automatically verifying the accuracy of the weight and conformity of each product.



Floor scale and balance sold separately

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SmarText™ 2.0 Makes the Advanced Ranger 7000 Easy to Configure and Use

The SmarText 2.0 interface simplifies operation, making the advanced Ranger 7000 incredibly intuitive—reducing training time and boosting productivity. Its vibrant color display ensures clarity, instantly showing real-time data.

–Dynamic Color-Coded Alerts and Real-Time Statistical Feedback:

The display instantly indicates accept (green), under limit (yellow), or over limit (red) results, ensuring quick pass/fail decisions. It provides instant visibility into the current check status, enabling proactive monitoring and decision-making.

Softkeys allows operators to quick configure the Statistics parameters, manage lot information, seamless switch between production lines without delay or start / stop checks instantly for efficient batch processing.

Standard Connectivity with Flexible Options

The Ranger 7000 comes standard with a RS232 and USB Device port for connecting to printers and additional hardware.

It also has a USB Host port that can be used to store data on a USB drive or connect to a barcode scanner.

Options include a second RS232 or Ethernet port, 2 in/4 out Discrete I/O for driving equipment and relays, a Remote Base Kit for connecting to a 2nd bench or floor base, RS232 cable to connect to a reference balance, internal Li-ion rechargeable battery, a column kit to mount the indicator above the base, a 9 m/27' indicator cable extension kit, indicator in-use cover, and auxiliary display.

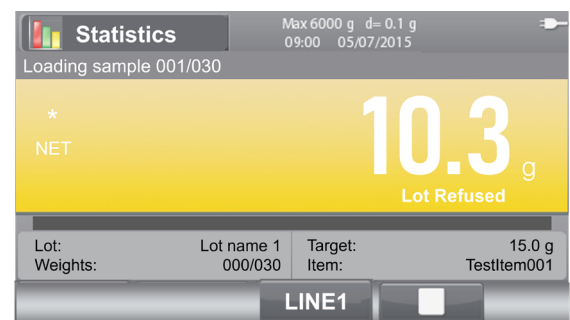
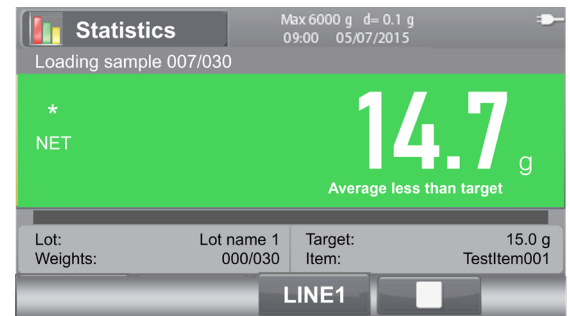


Image for illustration purpose only

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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 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
Zero 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 Scale, 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

Models	R71MD3	R71MD6	R71MD15	R71MD35	R71MD60
Capacity × Readability	3 kg × 0.00005 kg 3 000 g × 0.05 g	6 kg × 0.0001 kg 6 000 g × 0.1 g	15 kg × 0.0002 kg 15 000g × 0.2 g	35 kg × 0.0005 kg 35 000 g × 0.5 g	60 kg × 0.001 kg 60 000 g × 1 g
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: 60 000	1: 75 000	1: 70 000	1: 60 000
Internal Counting Resolution	1: 1 200 000	1: 1 500 000	1: 1 500 000	1: 1 400 000	1: 1 500 000
Certified Models	R71MD3-M	R71MD6-M	R71MD15-M	R71MD35-M	R71MD60-M
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				
Calibration	Span or Linear				
Battery Life	12 hours continuous use (Optional)				
Platform Dimensions (W × D × H)	280 × 280 × 31 mm		377 × 311 × 48mm		
Base Housing Dimensions (W × D × minH)	280 × 280 × 114 mm		377 × 311 × 128 mm		
Shipping Dimensions (W × L × H)	605 × 405 × 244 mm		665 × 525 × 330 mm		
Net Weight	6.8 kg		9.9 kg		
Shipping Weight	8.5 kg		13.4 kg		

RANGER® 7000 Compact Bench Scale

Technical Specifications

Models	R71MHD3	R71MHD6	R71MHD15	R71MHD35
Capacity x Readability	3 kg × 0.00001 kg 3 000 g × 0.01 g	6 kg × 0.00002 kg 6 000 g × 0.02 g	15 kg × 0.0001 kg 15 000 g × 0.1 g	35 kg × 0.0001 kg 35 000 g × 0.1 g
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 Models	R71MHD3-M	R71MHD6-M	R71MHD15-M	R71MHD35-M
Certified Capacity x 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			
Calibration	AutoCal™, Span or Linear			
Battery Life	9 hours continuous use (Optional)			
Platform Dimensions (W × D × H)	210 × 210 × 12 mm		377 × 311 × 48 mm	
Base Housing Dimensions (W × D × minH)	280 × 280 × 114 mm		377 × 311 × 128 mm	
Display Dimensions (W × D × H)	267 × 118 × 72 mm			
Shipping Dimensions	605 × 405 × 244 mm		665 × 525 × 330 mm	
Net Weight	7.2 kg		10.9 kg	
Shipping Weight	9.2 kg		14.4 kg	

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.....	.30064202
In Use Cover.....	.30135320
RS232 Cable for Reference Balance.....	.30057595
Cable, RS232, IBM 9P.....	.80500525
SF-110B printer.....	.30708371
Light tower, R-Y-G, IP65, 12-24VDC.....	.31015035

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

