

100 kN UNIVERSAL TESTING SYSTEMS

Comparing the Table Model and Floor Model Options



At the 100 kN force capacity, Instron® now offers a table model version alongside the renowned floor model option for both the 6800 and 3400 Series universal testing systems. The 100 kN force capacity is a common requirement for labs that test high-strength metals and alloys, advanced composites, and aerospace or automotive structures. While primarily built for high-force applications, the table model and floor model systems are equally capable of testing at lower force capacities, offering the versatility to test a range of materials all the way up to 100 kN.

The 100 kN table model and floor model are similar in many ways, but a few key differences can help determine which form factor is right for your lab.



FOOTPRINT

The 100 kN table model is up to 40% smaller compared to the 100 kN floor model.



ACCESSORIES

Nearly all 100 kN test accessories are readily compatible with the floor and table model frames. The floor model offering provides an increased horizontal testing space, which can benefit certain applications.



INSTALLATION

With a reduced footprint, a table model is streamlined for movement through compact doorways. Floor model installations may require specialized rigging services, depending on the lab environment.



ERGONOMICS

Floor model testing systems are available in two height options and feature a contoured entry design that enhances ergonomic positioning for operators. The table model can be adjusted to an optimal working height when used with an adjustable-height workbench.



POWER

The 100 kN table model can be operated using standard wall outlets, providing greater flexibility in lab placement using existing electrical layouts.* Floor models draw additional power, which may require an electrician to upgrade the wiring at your preferred location.

*Standard plug varies by region.

ENHANCED FEATURES UNIQUE TO FLOOR MODELS

- The 100 kN floor model is built with robust components that allow for increased speeds and stiffness. Moreover, it provides a taller and wider test space, ensuring ample room for large fixtures and easy operator access.
- The electrical and mechanical hardware has been relocated away from the test area and now features enhanced protection. This is achieved through improved gasketing and a patent-pending airflow design that minimizes debris ingress.
- Each floor model features a 0.5 in (12 mm) metal work surface treated with an abrasion-resistant coating for durability.

SPECIFICATIONS

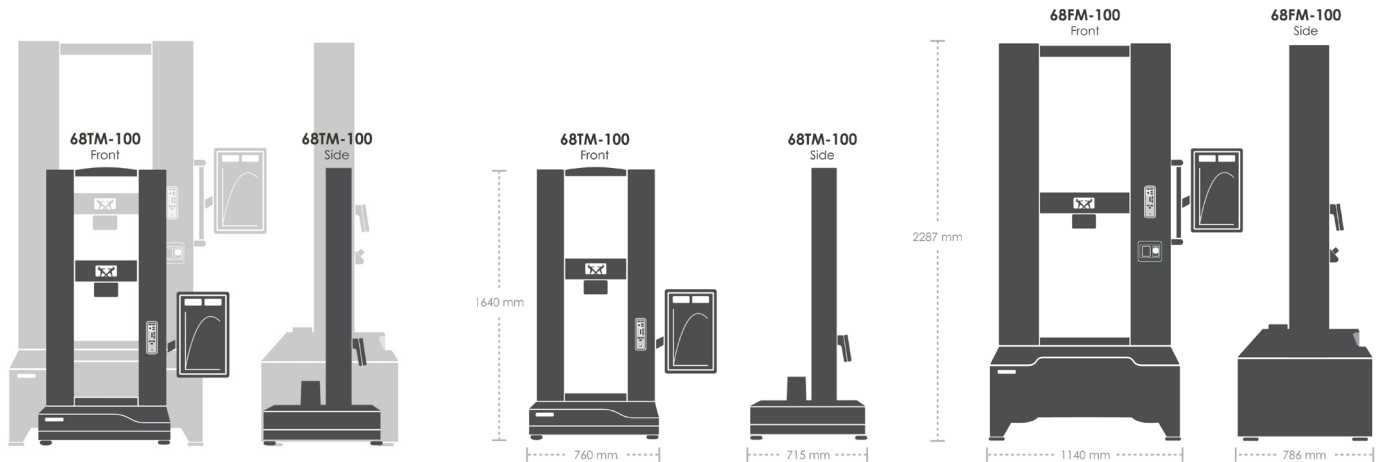


		Table Model	Floor Model
Vertical Test Space (A)	mm	1168 (E1), 1672 (E2)	1494 (E1), 1993 (E2)
	in	46 (E1), 65.8 (E2)	58.81 (E1), 78.46 (E2)
Horizontal Test Space (B)	mm	420	575
	in	16.5	22.6
Maximum Speed	mm/min	508	1016
	in/min	20	40
Frame Axial Stiffness	kN/mm	180	300
	lb/in	1,027,000	1,713,044
Footprint Dimensions (h × w × d)*	mm	1640 × 760 × 715	2287 × 1140 × 786 (E1), 1090 (E2, B2)**
	in	65 × 30 × 28	90 × 44.89 × 30.9 (E1), 41.9 (E2, B2)
Footprint	ft ²	5.80	9.64
	m ²	0.54	0.90
Minimum Power Requirements		100 to 240 VAC, 1PH	208 to 240 VAC, 1PH

* Short base dimensions only. The footprint width is for the system only.

The Operator Dashboard monitor may add 500 mm to the overall width of the frame.

** Extra Height (E2) with Tall Base (B2) footprint also includes stabilizers, adding 304 mm to the depth of the footprint.

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