Aerospace Tooling

Proof Load Machine Spec Sheet

Proof Load Text Machine

Height 1931 mm

Vertical daylight 1330 mm

Distance between columns 420 mm

Width 864 mm

Depth 572 mm
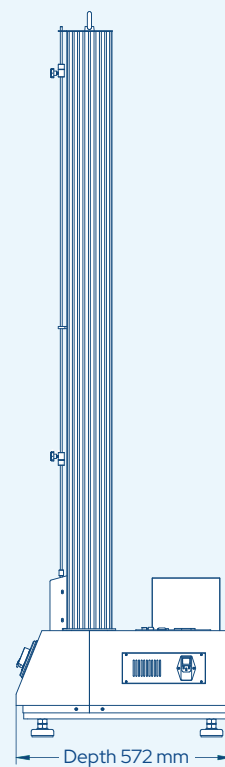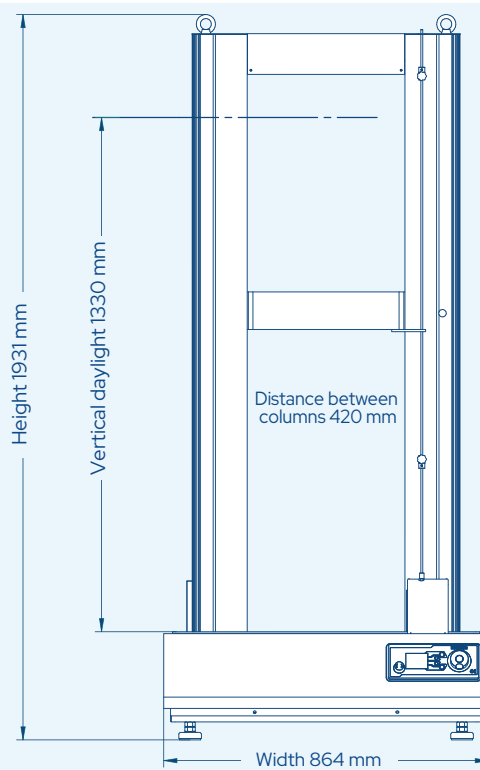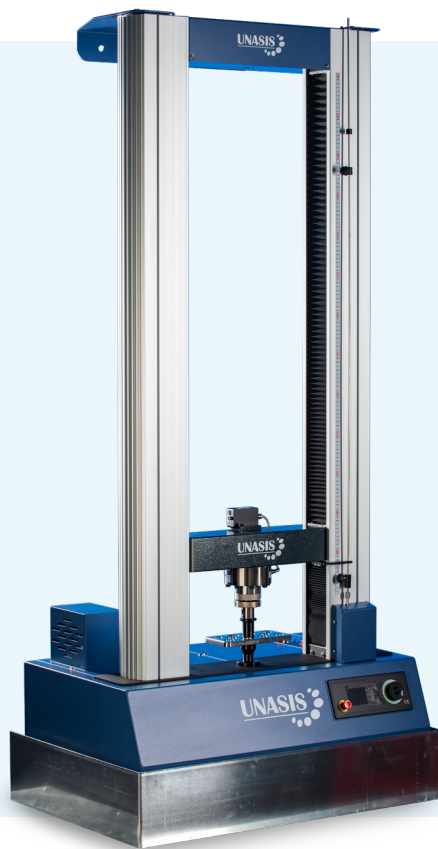
Unasis 50 dimensions

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Specifications

UNASIS		PROOF LOAD TEST MACHINE
Rated capacities	kN	50
	kfg	5000
	lbf	11000
Number of ballscrews		2
Data-acquisition rate		500 Hz
Internal sampling rate (load)		20 kHz
Displacement*		
Crosshead travel ⁂		1100mm (43.3")
Resolution		1 µm
Accuracy		±0.1% of indicated position or ±10 microns, whichever is greatest
Speed		
Calibrated Speed range	mm/min	0.01 - 400 to 25 kN†† 0.01 - 250 from 25 kN to 50 kN† / ††
	in/min	0.0004 - 15.7 to 25 kN†† 0.0004 - 9.8 from 25 kN to 50 kN† / ††
Speed resolution		0.001 mm/min (0.00004 in/min)
Accuracy		±2% of indicated speed or ±20 µ/min, whichever is greater
Dimensions		
Distance between columns		420 mm (16.5")
Throat depth‡		–
Height		1931 mm (76")
Width		864 mm (34")
Depth		572 mm (22.5")
Vertical daylight ⁂		1330 mm (52.4")
Weight		285 kg (628 lbs)
Electrical supply		
Voltage		230V AC 50 Hz or 110V AC 60 Hz
Maximum power requirements		450 watts
Enhanced Load Sensors (ELS)		
Accuracy		When calibrated as part of a system, ±0.5% of reading down to 2% of range, suitable for use with Class 0.5 systems according to the requirements of ISO 7500-1
Resolution		1:50000 filtered from 24 bit
Environment specification		
Operating temperature		10°C to 40°C
Operating relative humidity		30% - 80% (non-condensing)

* Correction for system compliance is available
⁂ Measured without fixtures

† OmniTest 10, 25 & 50. Max time when set to travel at 0.01 mm/min (0.0004 in/min) = 10 minutes when working at constant force.
†† OmniTest 50. Slowest speed: 0 - 35 kN = 0.01 mm/min (0.0004 in/min), 35 - 40 kN = 0.1 mm/min (0.004 in/mm), 40 - 45 kN = 1 mm/min (0.04 in/min), 45 - 50 kN = 10 mm/min (0.4 in/min) when working at constant force.
‡ Measured on centreline of load sensor

Software and communications	50
Connectivity	USB port, extensometer input, 2 x low voltage additional sensor inputs with future expansion capability
PC requirements (recommended)	Intel Core i5 processor, 8 GB RAM, one USB 2.0 or 3.0 port, SSD hard drive with 10 GB free space, screen resolution 1920x1080 full HD
PC requirements (minimum)⁂	Intel/AMD dual core processor with 2 GHz or faster clock speed, 4 GB RAM, one USB 2.0 or 3.0 port, hard drive with 10 GB free space, screen resolution 1080x720
Operating system (OS)	Compatible OS: Windows 7 or Windows 10 (32 or 64 bit) Recommended OS: Windows 10 Pro 64 bit
Data output	You can export as PDF, XLSX, CSV, TXT, Email and image files

⁂ Although the minimum specification will allow VectorPro to operate, the user experience is not guaranteed to be optimal.

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