



FLASH 48

FLASH Series

The FLASH 48 is a fully featured update of our FLASH 25 tester with a 48-inch stroke designed to accommodate large parts with heavy loads. The 48 has a standard platform diameter of 12" and is capable of being outfitted with any of our Quick Change Load Cells, for an extremely versatile load capacity range from 2 lb to 15,000 lb. The FLASH 48 was designed from the ground up to be compatible with a variety of other optional features, like a light curtain guard for additional safety or a center length transducer for very accurate testing of small deflection, high-rate parts, like Belleville washers or wave springs.



Quick Change Load Cells

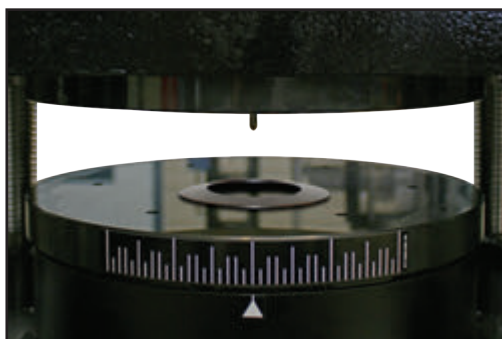
The FLASH 48 is compatible with our Quick Change Load Cells, giving it a very versatile load capacity range. Test very low rate parts with a 2 lb load cell, then switch to a 2,000 lb cell for heavier loads. Quick Change Load Cells can be swapped very quickly, giving the FLASH 48 the ability to test a wide variety of parts with minimal set up time.



Pictured with 4" Ø platform. FLASH 48 Quick Change Load Cells platforms are 8" Ø

Center Length Transducer

The Center Length Transducer is an optional secondary encoder used on the FLASH 48 to test small deflection, high-rate springs, like Belleville Washers or wave springs. When activated, the tester will switch over to this encoder to measure length for parts that are shorter than 0.850 inches, giving extremely accurate readings for small deflection parts with high spring rates.



Testing a Belleville Washer with the Center Length Transducer activated.

Center length transducer clamp in the retracted position (left) and extended position (right).

Standard Features:

- Compression & extension testing of force & length
- Adjustable travel / test speed
- Full color LCD touch screen FLASH interface
- Integrated Windows 7
- Up to 15,000 lb. capacity
- Smart load cells (choose from 7 FLASH 48 cells)
- Compatible with Quick Change Load Cells
- 240 volt Whisper Servo Drive
- NIST traceable digital calibration

Mechanical Features:

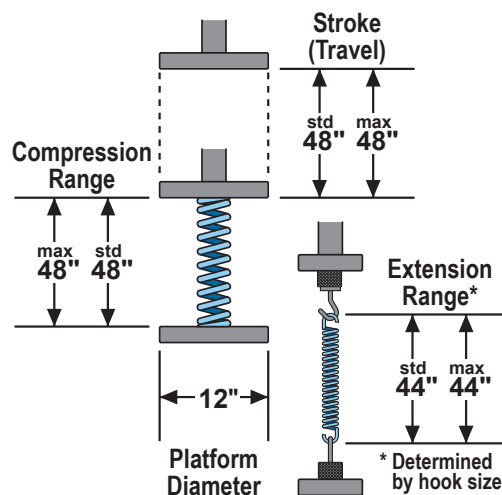
- 4 preloaded / pretensioned ball screws
- Rigid preloaded linear bearings
- 12" Ø platforms
- 3 load cell platform for maximum off center loading
- Pneumatic thru-rod option with up to 6" Ø thru-rod
- Optional center length transducer

Connectivity Features:

- Ethernet port for network data management
- USB for easy printing & software updates
- RS 232 & automation interfaces
- Remote support / diagnostic capability
- VGA output / remote start & operation capability

Safety Features:

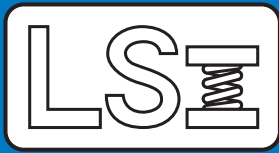
- Easy access to emergency stop button
- On-screen test abort button
- Fully interlocked enclosure
- Polycarbonate shields
- Thru-rod option for buckling springs
- Mechanical overload stops
- Software length & force limits
- Light curtain guard option



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FLASH 48 Force Specifications

FLASH 48 Load Cells - Force Specifications				Quick Change Load Cells - Force Specifications																				
Part No.		Capacity	Resolution		Part No.		Capacity	Resolution																
			0-20% FS	20-100% FS				0-20% FS	20-100% FS															
	FLASH 48 - 500 lb 025-0000-0262-03 (TUL) 025-0000-0262-16	500 lb	0.02 lb	0.2 lb		QC Cell - 2 lb 025-0000-0814-00	2 lb	0.0001 lb	0.001 lb															
		227 kg	0.01 kg	0.1 kg			907 g	0.02 g	0.2 g															
		2,224 N	0.1 N	1 N			8.9 N	0.0002 N	0.002 N															
	FLASH 48 - 1,000 lb 025-0000-0262-02 (TUL) 025-0000-0262-14	1,000 lb	0.02 lb	0.2 lb		QC Cell - 11 lb 025-0000-0814-01	11 lb	0.0002 lb	0.002 lb															
		454 kg	0.01 kg	0.1 kg			5 kg	0.1 kg	1 g															
		4,448 N	0.1 N	1 N			49 N	0.001 N	0.01 N															
	FLASH 48 - 2,000 lb 025-0000-0262-01 (TUL) 025-0000-0262-15	2,000 lb	0.05 lb	0.5 lb		QC Cell - 22 lb 025-0000-0814-02	22 lb	0.05 lb	0.5 lb															
		907 kg	0.02 kg	0.2 kg			10 kg	0.2 kg	2 g															
		8,896 N	0.2 N	2 N			98 N	0.002 N	0.02 N															
	FLASH 48 - 3,000 lb 025-0000-0262-00 (TUL) 025-0000-0262-10	3,000 lb	0.1 lb	1 lb		QC Cell - 66 lb 025-0000-0814-03	66 lb	0.001 lb	0.01 lb															
		1,361 kg	0.05 kg	0.5 kg			30 kg	0.5 kg	5 g															
		13,345 N	0.5 N	5 N			294 N	0.005 N	0.05 N															
	FLASH 48 - 6,000 lb 025-0000-0262-06 (TUL) 025-0000-0262-11	6,000 lb	0.2 lb	2 lb		QC Cell - 110 lb 025-0000-0814-04	110 lb	0.002 lb	0.02 lb															
		2,722 kg	0.1 kg	1 kg			50 kg	0.001 kg	0.01 kg															
		26,690 N	1 N	10 N			489 N	0.01 N	0.1 N															
	FLASH 48 - 10,000 lb 025-0000-0262-07 (TUL) 025-0000-0262-12	10,000 lb	0.2 lb	2 lb		QC Cell - 200 lb 025-0000-0814-05	200 lb	0.005 lb	0.05 lb															
		4,536 kg	0.1 kg	1 kg			91 kg	0.002 kg	0.02 kg															
		44,482 N	1 N	10 N			890 N	0.02 N	0.2 N															
	FLASH 48 - 15,000 lb 025-0000-0262-09 (TUL) 025-0000-0262-17	15,000 lb	0.5 lb	5 lb		QC Cell - 500 lb 025-0000-0814-08	550 lb	0.01 lb	0.1 lb															
		6,804 kg	0.2 kg	2 kg			249 kg	0.005 kg	0.05 kg															
		66,723 N	2 N	20 N			2,447 N	0.05 N	1 N															
Accuracy = ± Full Scale Resolution x 2					QC Cell - 750 lb 025-0000-0814-09	750 lb	0.02 lb	0.2 lb																
FLASH 48 Length Specifications FLASH 48 - Length Specifications <table><tr><th colspan="2">Standard Resolution</th><th colspan="2">High Resolution*</th></tr><tr><th>Resolution</th><th>Accuracy (±)</th><th>Resolution</th><th>Accuracy (±)</th></tr><tr><td>0.0005 in</td><td>0.001 in</td><td>0.0001 in</td><td>0.0005 in</td></tr><tr><td>0.01 mm</td><td>0.02 mm</td><td>0.001 mm</td><td>0.01 mm</td></tr></table> *Requires 025-1000-0234-02						Standard Resolution		High Resolution*		Resolution	Accuracy (±)	Resolution	Accuracy (±)	0.0005 in	0.001 in	0.0001 in	0.0005 in	0.01 mm	0.02 mm	0.001 mm	0.01 mm	340 kg	0.01 kg	0.1 kg
						Standard Resolution		High Resolution*																
				Resolution	Accuracy (±)	Resolution	Accuracy (±)																	
0.0005 in	0.001 in	0.0001 in	0.0005 in																					
0.01 mm	0.02 mm	0.001 mm	0.01 mm																					
3,336 N	0.1 N	1 N																						
					QC Cell - 1,000 lb 025-0000-0814-10	1,000 lb	0.02 lb	0.2 lb																
						454 kg	0.01 kg	0.1 kg																
						4,448 N	0.1 N	1 N																
					QC Cell - 1,500 lb 025-0000-0814-11	1,500 lb	0.1 lb	1 lb																
						680 kg	0.05 kg	0.5 kg																
						6,672 N	0.5 N	5 N																
					QC Cell - 2,000 lb 025-0000-0814-12	2,000 lb	0.1 lb	1 lb																
						907 kg	0.05 kg	0.5 kg																
						8,896 N	0.5 N	5 N																
Accuracy = ± Full Scale Resolution x 2				Accuracy = ± Full Scale Resolution x 2																				



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