

# MK52 Negative-Stiffness Optical Vibration Isolation Table Specifications

<b>MK52 - 36" x 48" Frame (91 cm X 122 cm) = Frame Size = 3648</b>						
	MK5201 : 250BM-1 Isolators	MK5202 : 350BM-1 Isolators	MK5203 : 500BM-1 Isolators	MK5204 : 650BM-1 Isolators	MK5205 : 850BM-1 Isolators	MK5206 : 1000BM-1 Isolators
<b>2" Composite Payload Range:</b>	164 lb - 344 lb (74 kg - 156 kg)	348 lb - 544 lb (174 kg - 247 kg)	524 lb - 854 lb (238 kg - 387 kg)	804 lb - 1154 lb (365 kg - 528 kg)		
<b>2" Honeycomb Payload Range:</b>	199 lb - 379 lb (90 kg - 172 kg)	419 lb - 579 lb (190 kg - 262 kg)	559 lb - 889 lb (253 kg - 403 kg)			
<b>4" Honeycomb Payload Range:</b>	147 lb - 327 lb (67 kg - 148 kg)	367 lb - 527 lb (166 kg - 239 kg)	507 lb - 837 lb (230 kg - 380 kg)	787 lb - 1147 lb (357 kg - 520 kg)	1047 lb - 1587 lb (475 kg - 720 kg)	1567 lb - 1887 lb (711 kg - 856 kg)
<b>MK52 - 36" x 60" Frame (91 cm X 152 cm) = Frame Size = 3660</b>						
	MK5201 : 250BM-1 Isolators	MK5202 : 350BM-1 Isolators	MK5203 : 500BM-1 Isolators	MK5204 : 650BM-1 Isolators	MK5205 : 850BM-1 Isolators	MK5206 : 1000BM-1 Isolators
<b>2" Composite Payload Range:</b>	104 lb - 284 lb (47 kg - 129 kg)	324 lb - 484 lb (147 kg - 219 kg)	464 lb - 794 lb (210 kg - 360 kg)	744 lb - 1104 lb (337 kg - 501 kg)	1004 lb - 1544 lb (455 kg - 700 kg)	
<b>2" Honeycomb Payload Range:</b>	147 lb - 327 lb (67 kg - 148 kg)	367 lb - 527 lb (166 kg - 239 kg)	507 lb - 837 lb (230 kg - 380 kg)			
<b>4" Honeycomb Payload Range:</b>	82 lb - 262 lb (37 kg - 119 kg)	302 lb - 462 lb (137 kg - 210 kg)	442 lb - 772 lb (200 kg - 350 kg)	722 lb - 1082 lb (327 kg - 491 kg)	982 lb - 1522 lb (445 kg - 690 kg)	1502 lb - 1822 lb (681 kg - 826 kg)
<b>MK52 - 36" x 72" Frame (91 cm X 183 cm) = Frame Size = 3672</b>						
	MK5201 : 250BM-1 Isolators	MK5202 : 350BM-1 Isolators	MK5203 : 500BM-1 Isolators	MK5204 : 650BM-1 Isolators	MK5205 : 850BM-1 Isolators	MK5206 : 1000BM-1 Isolators
<b>2" Composite Payload Range:</b>	43 lb - 223 lb (20 kg - 101 kg)	263 lb - 423 lb (119 kg - 192 kg)	403 lb - 773 lb (183 kg - 333 kg)	683 lb - 1043 lb (310 kg - 473 kg)		
<b>2" Honeycomb Payload Range:</b>	95 lb - 275 lb (43 kg - 125 kg)	315 lb - 475 lb (143 kg - 215 kg)	455 lb - 785 lb (206 kg - 356 kg)			
<b>4" Honeycomb Payload Range:</b>	17 lb - 197 lb (8 kg - 89 kg)	237 lb - 397 lb (108 kg - 180 kg)	377 lb - 707 lb (171 kg - 321 kg)	657 lb - 1017 lb (298 kg - 461 kg)	917 lb - 1457 lb (416 kg - 661 kg)	1437 lb - 1757 lb (652 kg - 797 kg)
<b>MK52 - 36" x 96" Frame (91 cm X 244 cm) = Frame Size = 3696</b>						
	MK5202 : 350BM-1 Isolators	MK5203 : 500BM-1 Isolators	MK5204 : 650BM-1 Isolators	MK5205 : 850BM-1 Isolators	MK5206 : 1000BM-1 Isolators	
<b>2" Composite Payload Range:</b>	142 lb - 302 lb (64 kg - 137 kg)	282 lb - 612 lb (128 kg - 278 kg)	562 lb - 922 lb (255 kg - 418 kg)	822 lb - 1362 lb (373 kg - 618 kg)		
<b>2" Honeycomb Payload Range:</b>	211 lb - 371 lb (96 kg - 168 kg)	351 lb - 681 lb (159 kg - 309 kg)				
<b>4" Honeycomb Payload Range:</b>	108 lb - 268 lb (49 kg - 121 kg)	248 lb - 578 lb (112 kg - 262 kg)	528 lb - 888 lb (239 kg - 403 kg)	788 lb - 1328 lb (357 kg - 602 kg)	1308 lb - 1628 lb (593 kg - 738 kg)	
<b>MK52 - 48" x 60" Frame (122 cm X 152 cm) = Frame Size = 4860</b>						
	MK5202 : 350BM-1 Isolators	MK5203 : 500BM-1 Isolators	MK5204 : 650BM-1 Isolators	MK5205 : 850BM-1 Isolators	MK5206 : 1000BM-1 Isolators	
<b>2" Composite Payload Range:</b>	223 lb - 383 lb (101 kg - 174 kg)	363 lb - 693 lb (165 kg - 314 kg)	643 lb - 1003 lb (292 kg - 455 kg)			
<b>2" Honeycomb Payload Range:</b>	280 lb - 440 lb (127 kg - 200 kg)	420 lb - 750 lb (191 kg - 340 kg)	700 lb - 1060 lb (318 kg - 481 kg)			
<b>4" Honeycomb Payload Range:</b>	194 lb - 354 lb (88 kg - 161 kg)	334 lb - 664 lb (151 kg - 301 kg)	614 lb - 974 lb (279 kg - 442 kg)	874 lb - 1414 lb (396 kg - 641 kg)	1394 lb - 1714 lb (632 kg - 777 kg)	
<b>MK52 - 48" x 72" Frame (122 cm X 183 cm) = Frame Size = 4872</b>						
	MK5202 : 350BM-1 Isolators	MK5203 : 500BM-1 Isolators	MK5204 : 650BM-1 Isolators	MK5205 : 850BM-1 Isolators	MK5206 : 1000BM-1 Isolators	
<b>2" Composite Payload Range:</b>	142 lb - 302 lb (64 kg - 137 kg)	282 lb - 612 lb (128 kg - 278 kg)	562 lb - 922 lb (255 kg - 418 kg)			
<b>2" Honeycomb Payload Range:</b>	211 lb - 371 lb (96 kg - 168 kg)	351 lb - 681 lb (159 kg - 309 kg)	631 lb - 991 lb (286 kg - 450 kg)	891 lb - 1431 lb (404 kg - 649 kg)		
<b>4" Honeycomb Payload Range:</b>	108 lb - 268 lb (49 kg - 121 kg)	248 lb - 578 lb (112 kg - 262 kg)	528 lb - 888 lb (239 kg - 403 kg)	788 lb - 1328 lb (357 kg - 602 kg)	1308 lb - 1628 lb (593 kg - 738 kg)	
<b>MK52 - 48" x 96" Frame (122 cm X 244 cm) = Frame Size = 4896</b>						
	MK5202 : 350BM-1 Isolators	MK5203 : 500BM-1 Isolators	MK5204 : 650BM-1 Isolators	MK5205 : 850BM-1 Isolators	MK5206 : 1000BM-1 Isolators	
<b>2" Composite Payload Range:</b>	0 lb - 141 lb (0 kg - 64 kg)	121 lb - 451 lb (55 kg - 205 kg)	401 lb - 761 lb (182 kg - 345 kg)			
<b>2" Honeycomb Payload Range:</b>	73 lb - 223 lb (33 kg - 106 kg)	213 lb - 543 lb (97 kg - 246 kg)	493 lb - 853 lb (224 kg - 387 kg)	753 lb - 1293 lb (342 kg - 587 kg)		
<b>4" Honeycomb Payload Range:</b>	0 lb - 95 lb (0 kg - 43 kg)	75 lb - 405 lb (34 kg - 184 kg)	355 lb - 715 lb (161 kg - 324 kg)	615 lb - 1155 lb (279 kg - 524 kg)	1135 lb - 1455 lb (515 kg - 660 kg)	

Create the MK52 with the options you desire:

MK52XX-WWLL-TT (MK52XX = Isolator size, WWLL = Frame Size, TT = Table Top option)



**Table Top Options = TT**

-21 Composite (2") w/white plastic laminate	-40 Honeycomb (2") /no holes	-80 SPILLPRUF Honeycomb (4") /no holes
-22 Composite (2") w/stainless laminate	-45 SPILLPRUF Honeycomb (2") 1/4-20 x 1" centers	-85 SPILLPRUF Honeycomb (4") 1/4-20 x 1" centers
-23 Composite (2") w/black plastic laminate	-46 SPILLPRUF Honeycomb (2") M6 x 25mm centers	-86 SPILLPRUF Honeycomb (4") M6 x 25mm centers
-24 Composite (2") w/anti-static laminate	*Other table top options available	

## New MK52 Negative-Stiffness Optical Vibration Isolation Table



**MK52 Table Under 5'**

Minus K Technology, a leading manufacturer of vibration isolation products has partnered with Kinetic Systems, Inc in designing a new, versatile, ultra-low-natural-frequency optical table isolation system. The MK52 negative-stiffness optical table achieves 0.5 Hz or lower vertical and horizontal natural frequencies without limiting its ability to support static loads. When adjusted to a 0.5 Hz natural frequency, the MK52 achieves 93% isolation efficiency at 2 Hz, 99% at 5 Hz, and 99.7% at 15 Hz.

The MK52 Optical Vibration Isolation Table can be configured for a wide variety of locations and applications — wherever external vibrations can adversely affect the operation of sensitive equipment. Ultra-low natural frequencies, high internal structural frequencies, and excellent vertical and horizontal isolation efficiencies make the system well-suited to applications such as analytical balances, cell injection, confocal microscopes, patch clamping, optical microscopes, wafer probing, sensor calibration, and laser applications in fields such as semiconductor processing, telecommunications, aerospace engineering, and medical research.

The MK52 is also ideal for applications requiring high resolution, such as Raman spectroscopy, atomic force microscopy (AFM), AFM-Raman integration, and micro-hardness testing.

Customization options include guard rails, padded armrests, overhead equipment shelves, monitor stands, non-isolated shelves for supporting equipment off the tabletop, seismic restraints, auxiliary work surfaces, retractable casters, Faraday Cages, and tabletop enclosures to protect against harsh manufacturing environments.

The MK52 is available in table sizes up to 4' x 8' with gross load capacities up to 2000 pounds (909Kg) (larger optical table sizes will be considered). Tables are constructed with a 3/16" thick ferromagnetic stainless steel top skin, 3/16" thick carbon steel bottom skin, and plated-steel precision honeycomb core.



**MK52 Table Over 5'**

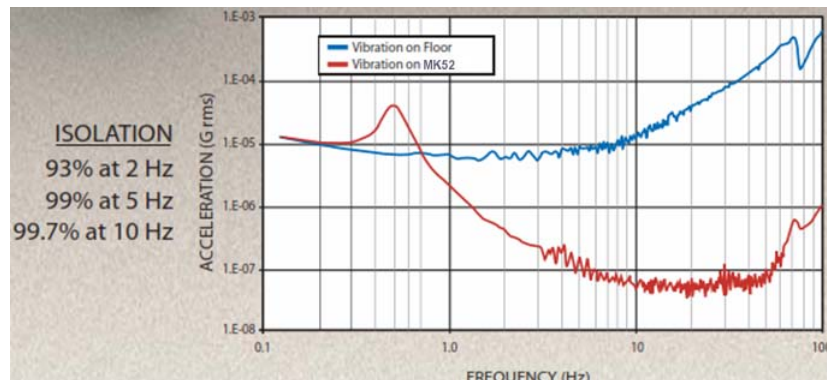


Table top options include: composite with stainless steel, anti-static or plastic laminate; SPILLPRUF honeycomb with or without holes (Metric or English) up to 18" thick; steel or granite.

For a complete list of available accessories, please refer to our website at [www.minusk.com](http://www.minusk.com).

Give us your *Vibration Isolation* Challenge