





Model #	Capacity (lb)	Deflection (in.)	Natural Frequency (Hz)	β
LLB130	5	0.0006	28500	0.0001
	10	0.0006	28500	0.0002
	25	0.0007	42000	0.0002
	50	0.0006	52000	0.0003

<sup>\*</sup>FN results are based on calculation of deflection & weight scene on Sensor arm.

## Natural Frequency & Frequency Response Equation's:

Natural Frequency (FN) = 
$$3.13 \sqrt{\frac{1}{\frac{\beta}{Capacity}} \bullet Deflection}}$$
 (Hz)

Frequency Response with load (FR) = 
$$3.13 \sqrt{\frac{1}{\beta + AppliedLoad} \bullet Deflection}}$$
 (Hz)

\*Where eta values are obtained by Futek Engineers

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