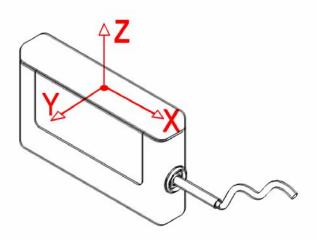


Deflection & Natural Frequency



Material	Capacity (lb)	Fz Deflection (in.)	Natural Frequency (Hz)	β
(AL*)	300	0.002	4,100	0.0781

^{*}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) =
$$3.13 \sqrt{\frac{1}{\frac{\beta + AppliedLoad}{Capacity}}} \bullet Deflection$$
 (Hz)

*Where eta values are obtained by Futek Engineers

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