

TECH REPORT #208:

TENSION SYSTEM DUAL BASEPLATE OPERATION

When using the $FX-6000T^{\text{\tiny TM}}$ and $FX-5000T^{\text{\tiny TM}}$ Tension System in dual baseplate operation, the user may notice a drop in the overall programmed % elongation, depending upon the desired % elongation and frequency of the regimen. This drop is due to the vacuum source being shared between both baseplates.

It is, therefore, recommended that users reduce the frequency of such a regimen to 0.5 Hz or lower. A lower frequency will allow the Tension System the correct amount of time to intake and exhaust the vacuum, which, in turn, gives the system enough time to reach the desired % elongation.

For example, if an Tension System is connected in the dual baseplate configuration using the BioFlex 25 mm Loading Stations and a regimen is programmed with the following variables:

Waveform = Sine % Elongation = 20% Frequency = 1 Hz

The maximum % elongation achieved might only be 10%. Reducing the frequency of the regimen to 0.5 Hz will produce an achievable % elongation of 18%.

The maximum allowable **% elongation** for dual baseplate operation with the Tension System is as follows:

Platform	Frequency		
	1.0~Hz	0.5~Hz	
BioFlex: 25 mm	10.0 %	18.0 %	
BioFlex: 28 mm	6.5 %	11.0 %	
BioFlex: 31 mm	2.0 %	3.5 %	
Tissue Train: Arctangle	10.0 %	16.0 %	
UniFlex: Arctangle	5.0 %	8.5 %	
HT BioFlex	7.0 %	11.5 %	