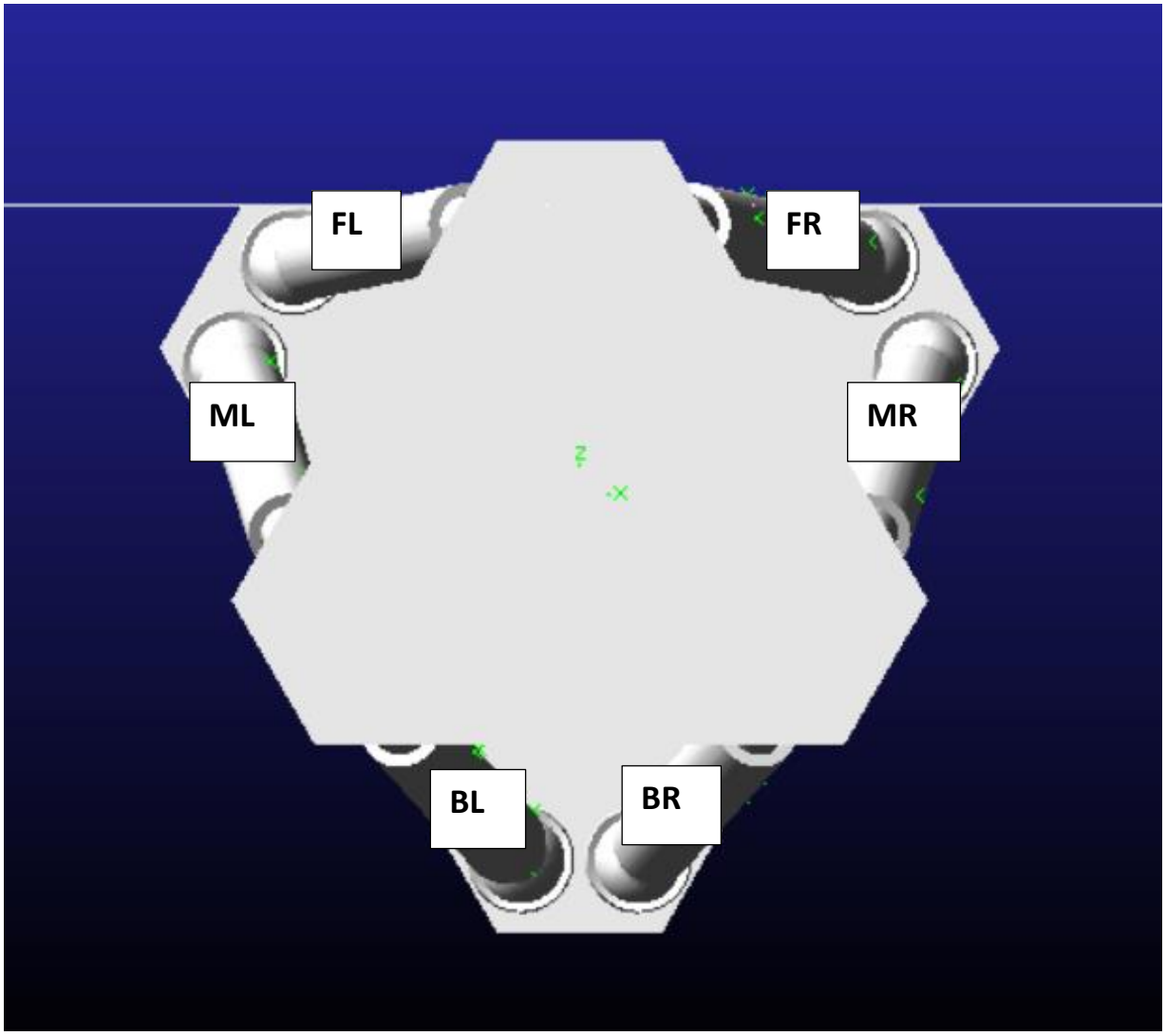

1) upward motion analysis

	Back	Mid	Front
Right	- 0.01 * time	- 0.01 * time	- 0.01 * time
Left	- 0.01 * time	- 0.01 * time	- 0.01 * time

2) downward motion analysis

	Back	Mid	Front
Right	0.01 * time	0.01 * time	0.01 * time
Left	0.01 * time	0.01 * time	0.01 * time

3) Cosine motion

	Back	Mid	Front
Right	-50 * COS(time)	-50 * COS(time)	-50 * COS(time)
Left	-50 * COS(time)	-50 * COS(time)	-50 * COS(time)

4) Sine motion

	Back	Mid	Front
Right	-50 * SIN(time)	-50 * SIN(time)	-50 * SIN(time)
Left	-50 * SIN(time)	-50 * SIN(time)	-50 * SIN(time)

5) Front motion analysis:

L_{bR}	-SQRT(27005.28342 + (time + 41.64319426)**2) +152.596115
L_{bL}	-SQRT(27005.28342 + (time + 41.64319426)**2) +152.596115
Lf_{R}	-SQRT(28604.1361 + (time + 11.64)**2) +152.596115
Lf_{L}	- SQRT(28604.1361 + (time + 11.64)**2) +152.596115
L_{Midr}	-SQRT(25899.98+ (time - 53.286)**2) +152.596115
L_{MidL}	-SQRT(25899.98 + (time - 53.286)**2) +152.596115

5') Front motion analysis (color encoded):

	Back	Mid	Front
Right	-SQRT(27005.28342 + (time + 41.64319426)**2) +152.596115	-SQRT(25899.98 + (time - 53.286)**2) +152.596115	-SQRT(28604.1361 + (time + 11.64)**2) +152.596115
Left	-SQRT(27005.28342 + (time + 41.64319426)**2) +152.596115	-SQRT(25899.98 + (time - 53.286)**2) +152.596115	-SQRT(28604.1361 + (time + 11.64)**2) +152.596115

6) Sideways motion analysis:

1	B	M	F
R	-SQRT(28604.1361 + (time + 11.64)**2) +152.596115	-SQRT(28604.1361 + (time + 11.64)**2) +152.596115	-SQRT(25899.98 + (time - 53.286)**2) +152.596115
L	-SQRT(25899.98 + (time - 53.286)**2) +152.596115	-SQRT(27005.28342 + (time + 41.64319426)**2) +152.596115	-SQRT(27005.28342 + (time + 41.64319426)**2) +152.596115
2	B	M	F
R	-SQRT(25899.98 + (-time - 53.286)**2) +152.596115	-SQRT(27005.28342 + (-time + 41.64319426)**2) +152.596115	-SQRT(27005.28342 + (-time + 41.64319426)**2) +152.596115
L	-SQRT(28604.1361 + (-time + 11.64)**2) +152.596115	-SQRT(28604.1361 + (-time + 11.64)**2) +152.596115	-SQRT(25899.98 + (-time - 53.286)**2) +152.596115
Superposition	B	M	F
R	-SQRT(28604.1361 + (time + 11.64)**2) +152.596115-SQRT(25899.98 + (-time - 53.286)**2) +152.596115	-SQRT(28604.1361 + (time + 11.64)**2) +152.596115-SQRT(27005.28342 + (-time + 41.64319426)**2) +152.596115	-SQRT(25899.98 + (time - 53.286)**2) +152.596115-SQRT(27005.28342 + (-time + 41.64319426)**2) +152.596115
L	-SQRT(25899.98 + (time - 53.286)**2) +152.596115-SQRT(28604.1361 + (-time + 11.64)**2) +152.596115	-SQRT(27005.28342 + (time + 41.64319426)**2) +152.596115-SQRT(28604.1361 + (-time + 11.64)**2) +152.596115	-SQRT(27005.28342 + (time + 41.64319426)**2) +152.596115-SQRT(25899.98 + (-time - 53.286)**2) +152.596115

7) circular motion analysis

Straight Cos Motion	Back	Mid	Front
Right	-SQRT(27005.28342 + (50*COS(time) + 41.64319426)**2) +152.596115	-SQRT(25899.98 + (50*COS(time) - 53.286)**2) +152.596115	-SQRT(28604.1361 + (50*COS(time) + 11.64)**2) +152.596115
Left	-SQRT(27005.28342 + (50*COS(time) + 41.64319426)**2) +152.596115	-SQRT(25899.98 + (50*COS(time) - 53.286)**2) +152.596115	-SQRT(28604.1361 + (50*COS(time) + 11.64)**2) +152.596115
Sideways SIN wave Motion	B	M	F
R	-SQRT(28604.1361 + ((0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115 - SQRT(25899.98 + (-(0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115	-SQRT(28604.1361 + ((0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115- SQRT(27005.28342 + (-(0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115	-SQRT(25899.98 + ((0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115- SQRT(27005.28342 + (-(0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115
L	-SQRT(25899.98 + ((0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115- SQRT(28604.1361 + (-(0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115	-SQRT(27005.28342 + ((0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115- SQRT(28604.1361 + (-(0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115	-SQRT(27005.28342 + ((0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115- SQRT(25899.98 + (-(0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115
Superposition Circular Motion	B	M	F
R	-SQRT(28604.1361 + ((0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115 - SQRT(25899.98 + (-(0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115- SQRT(27005.28342 + (50*COS(time) + 41.64319426)**2) +152.596115	-SQRT(28604.1361 + ((0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115- SQRT(27005.28342 + (-(0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115- SQRT(25899.98 + (50*COS(time) - 53.286)**2) +152.596115	-SQRT(25899.98 + ((0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115- SQRT(27005.28342 + (-(0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115- SQRT(28604.1361 + (50*COS(time) + 11.64)**2) +152.596115
L	-SQRT(25899.98 + ((0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115- SQRT(28604.1361 + (-(0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115- SQRT(27005.28342 + (50*COS(time) + 41.64319426)**2) +152.596115	-SQRT(27005.28342 + ((0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115- SQRT(28604.1361 + (-(0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115- SQRT(25899.98 + (50*COS(time) - 53.286)**2) +152.596115	-SQRT(27005.28342 + ((0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115- SQRT(25899.98 + (-(0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115- SQRT(28604.1361 + (50*COS(time) + 11.64)**2) +152.596115

8) Helical motion analysis

Superposition Circular Motion	B	M	F
R	- 5 *time	- 5 *time	- 5 *time
L	- 5 *time	- 5 *time	- 5 *time
Superposition Circular Motion	B	M	F
R	-SQRT(28604.1361 + ((0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115 -SQRT(25899.98 + (-(0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115-SQRT(27005.28342 + (50*COS(time) + 41.64319426)**2) +152.596115	-SQRT(28604.1361 + ((0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115-SQRT(27005.28342 + (-(0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115-SQRT(25899.98 + (50*COS(time) - 53.286)**2) +152.596115	-SQRT(25899.98 + ((0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115-SQRT(27005.28342 + (-(0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115-SQRT(28604.1361 + (50*COS(time) + 11.64)**2) +152.596115
L	-SQRT(25899.98 + ((0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115-SQRT(28604.1361 + (-(0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115-SQRT(27005.28342 + (50*COS(time) + 41.64319426)**2) +152.596115	-SQRT(27005.28342 + ((0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115-SQRT(28604.1361 + (-(0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115-SQRT(25899.98 + (50*COS(time) - 53.286)**2) +152.596115	-SQRT(27005.28342 + ((0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115-SQRT(25899.98 + (-(0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115-SQRT(28604.1361 + (50*COS(time) + 11.64)**2) +152.596115
Superposition Helical Motion	B	M	F
R	-SQRT(28604.1361 + ((0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115 -SQRT(25899.98 + (-(0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115-SQRT(27005.28342 + (50*COS(time) + 41.64319426)**2) +152.596115 - 5 *time	-SQRT(28604.1361 + ((0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115-SQRT(27005.28342 + (-(0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115-SQRT(25899.98 + (50*COS(time) - 53.286)**2) +152.596115 - 5* time	-SQRT(25899.98 + ((0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115-SQRT(27005.28342 + (-(0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115-SQRT(28604.1361 + (50*COS(time) + 11.64)**2) +152.596115 - 5 * time
L	-SQRT(25899.98 + ((0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115-SQRT(28604.1361 + (-(0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115-SQRT(27005.28342 + (50*COS(time) + 41.64319426)**2) +152.596115 - 5 * time	-SQRT(27005.28342 + ((0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115-SQRT(28604.1361 + (-(0.5773502692 * 50 * SIN(time)) + 11.64)**2) +152.596115-SQRT(25899.98 + (50*COS(time) - 53.286)**2) +152.596115 - 5 * time	-SQRT(27005.28342 + ((0.5773502692 * 50 * SIN(time)) + 41.64319426)**2) +152.596115-SQRT(25899.98 + (-(0.5773502692 * 50 * SIN(time)) - 53.286)**2) +152.596115-SQRT(28604.1361 + (50*COS(time) + 11.64)**2) +152.596115 - 5 * time