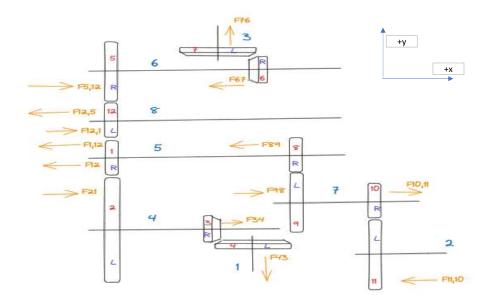
Shaft 1	Directions	Shaft 2	Directions	Shaft 3	Directions	Shaft 4	Directions	Shaft 5	Directions	Shaft 6	Directions	Shaft 7	Directions	Shaft 8	Directions
F4,3 (lb)		F11,10 (lb)		F7,6 (lb)		F2,1 (lb)		F1,2+F1,12 (lb	o)	F6,7 (lb)		F9,8 (lb)		F12,1+F12,5	
475.003142	-у	222.298589	-x	211.112508	+y	133.379154	+x	244.528448	-x	105.556254	-x	111.149295	+x	88.9194357	+x
	-		-		-	F3,4 (lb)		F8,9 (lb)		F5,1 (lb)	_	F10,11 (lb)		_	
						237.501571	+x	111.149295	-x	88.9194357	+x	222.298589	+x		
						Net Thrust		Net Thrust		Net Thrust	_	Net Thrust			
						370.880725	+x	355.677743	-x	16.6368181	-x	333.447884	+χ	]	



Analysis was done based on mode 3 i.e. That is 1, 12,5,6 and 7 has no power flow. I.e. no forces between 1,12 5,6 qand 7.

Mode 1

Shaft 1	Directions	Shaft 2	Directions	Shaft 3	Directions	Shaft 4	Directions
F4,3 (lb)		F11,10 (lb)		F7,6 (lb)		F2,1 (lb)	
475.003142	-у	222.298589	-x	211.112508	+y	133.379154	+x
						F3,4 (lb)	
						237.501571	+x
						Net Thrust	
						370.880725	+x

Shaft 5 Directions		Shaft 6	Directions	Shaft 7	Directions	Shaft 8	Directions	
F1,2+F1,12								
(lb)		F6,7 (lb)		F9,8 (lb)		F12,1+F12,5		
244.528448	-x	105.556254	-x	111.149295	+χ	88.9194357	+x	
F8,9 (lb)		F5,12 (lb)		F10,11 (lb)				
111.149295	-x	88.9194357	+x	222.298589	+x	1		
Net Thrust		Net Thrust		Net Thrust				
355.677743	-x	16.6368181	-x	333.447884	+x			