

Rooster Head Information
 Identification/Name: Antenna Pipe Rooster Head
 Manufacturer: Tuf-Tug Products
 Load Class: A
 Max. Lifted Load ^a: 250 lbs
 Sheave Size: 4"
 Sheave Bearing Type: Steel Roller

Synthetic Load Line
 Min Line Size: 3/8"
 Max Line Size: 5/8"
 Impact Factor ^b: 1.7

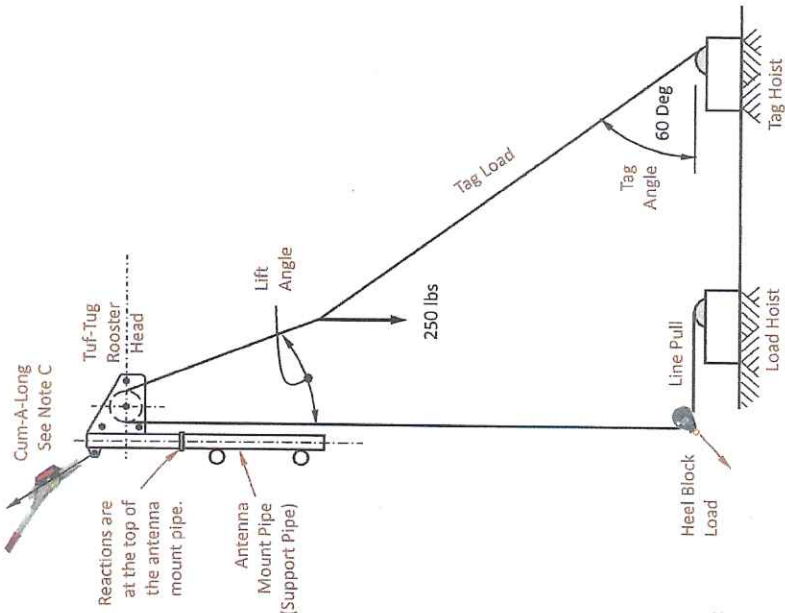
Steel Load Line
 Min Line Size: 3/8"
 Max Line Size: 1/2"
 Impact Factor ^b: 1.25

Type 2 – Rooster Head with Trolley Tag
 • Standoff distance of the load can only be controlled by varying the horizontal distance to the load hoist.
 • Max Lift Angle occurs as the load is being lifted from ground level.
 • Lift Angle approaches zero as the load reaches the rooster head.
 • Max Hoist Line Angle occurs as the load reaches the rooster head.
 • Hoist Line Angle approaches zero as the load is being lifted from the ground.

Type 3 – Rooster Head with Direct Tag
 • The load chart provides values for a 60 degree tag angle.
 • Additional loads applied to the rooster head can be determined using a Rigging Calculator such as the one at <http://www.esystemstraining.com/wordpress/wp-content/uploads/2015/11/Rigging-Template-with-Trolley-System-Loads-Version-5.6.xlsm>

a Gross Load is the lifted weight plus all rigging weight and block friction. Support Pipe Loads are based on a Gross Load of 250 lbs. Multiply the Support Pipe Loads by the calculated Gross Load and Divide by 250 to get the actual reactions at the top of the antenna mount pipe.
b Impact Factor applies to the load increase to be applied to the supporting structure to verify that it is sufficient to support the applied loads.

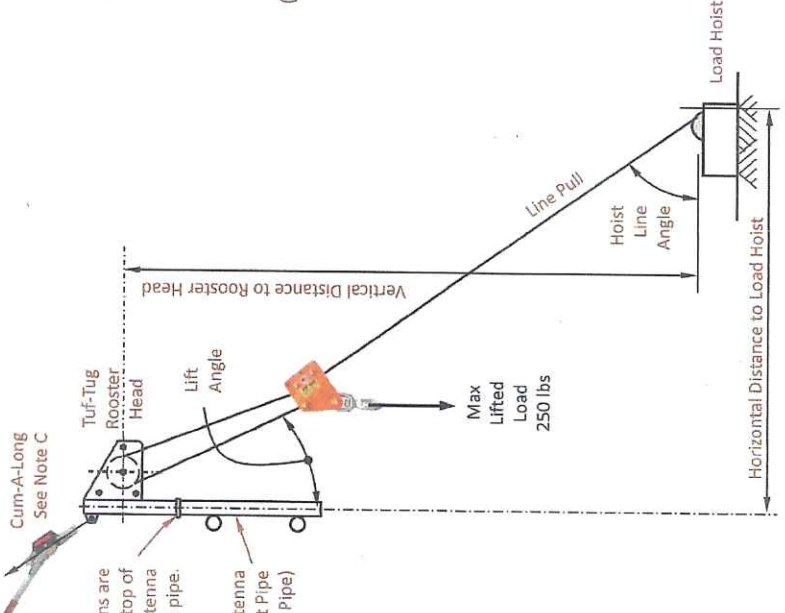
c The majority of the load applied to the rooster head can be transferred to the supporting tower structure by positioning a cum-a-long or other adjustable lift device between the tab on the back of the rooster head and the supporting tower. For Type 2 lifts, the angle of the adjustable lift device, measured from vertical, should be within +10 degrees of the Maximum Lift Angle. For Type 3 lifts the angle of the adjustable lift device should be within +10 degrees of the Lift Angle with a maximum angle from vertical of 45 degrees.
d When the requirements of Note C above are met the lift can be considered a Class I. If these requirements are not met the lift might be a Class IV, requiring the services of a Qualified Engineer.



Type 2 – Rooster Head with Trolley Tag

Loads in Lbs and Ft-Lbs

Lift Angle	Support Pipe Loads		Tag Load	Heel Block Load
	Vertical	Horizontal		
2.5	541	12	209	383
5	590	26	235	418
7.5	650	43	267	462
10	725	63	306	517
12.5	821	90	356	587
15	949	125	423	682
17.5	1130	174	518	818
20	1394	246	656	1016



Type 3 – Rooster Head with Direct Tag

Loads in Lbs and Ft-Lbs

Max Lift Angle	Max Hoist Line Angle	Horizontal Vertical	Max Line Pull	Support Pipe Loads	
				Vertical	Horizontal
5	8.75%	500	44	211	211
10	17.63%	500	87	235	235
15	26.79%	500	129	258	258
20	36.40%	500	171	280	280
25	46.63%	500	211	302	302
30	57.74%	500	250	323	323
35	70.02%	500	287	343	343
40	83.91%	500	297	362	362