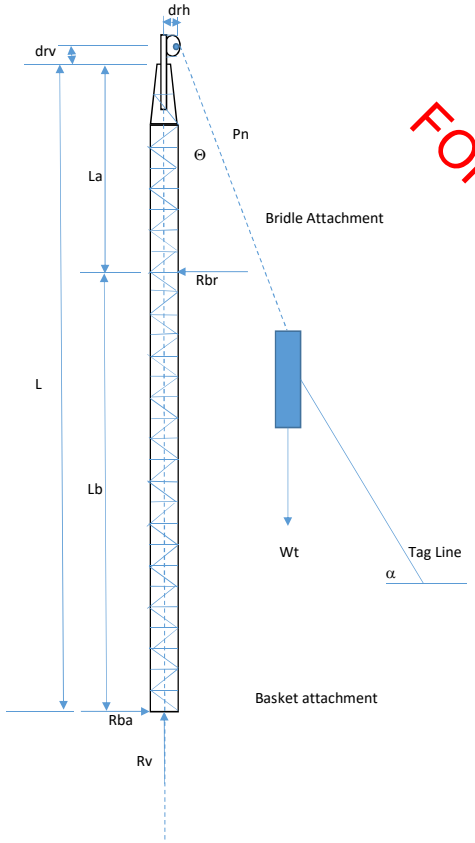
CHARTS ARE POLE SPECIFIC

SERIAL NUMBER _____

Title: 34 inch Square Gin Pole (2-part load line)
143 ft long w/20% cantilever (28.6 ft)
Legs: TS 4 x 4 x 5/16 - 50 ksi Min Yield
Lacing: 1-1/4" sch 40 pipe
Horizontal 1" sch 40 pipe

By: B.Bayless
Gin Pole Model: PS34-143-20
Length: 143 **Class:** D
Date: 30-Jan-17



wt	Total pick load (Sections, Headache Ball, wt of Tag line, etc)
L	Length of gin pole (ft)
La	Length of gin pole above bridle (ft)
Rbr	Horizontal reaction at bridle (lbs)
Rba	Horizontal reaction at basket (lbs)
Rv	Vertical reaction at basket (lbs)
Θ	Load line angle from vertical (deg)
α	Tag line angle from horizontal (deg)
drh	Horizontal distance to sheave pin (in)
drv	Vertical distance to sheave pin (in)

Notes:
1: This load chart is for the capacity of the gin pole and rooster head only, does not consider the capacity of any other rigging components
2: The reactions indicated do not include any impact factor
3: The strength of the gin pole includes an impact factor of 1.2 for the use of IWRC wire rope load line only
4: The maximum operational wind speed used in this chart is 30 mph
5: This gin pole was designed in accordance with TIA-1019A Specifications

Θ (deg)	L (ft)	La (ft)	wt (lbs)	Rv (lbs)	Rba (lbs)	Rbr (lbs)	Tag (lbs)	Δ (in)
3	143	28.6	37,020	75,970	2,387	4,967	2,364	2.60
4	143	28.6	34,110	72,400	2,536	5,633	2,961	3.01
5	143	28.6	31,550	69,280	2,675	6,233	3,493	3.40
6	143	28.6	29,270	66,500	2,804	6,775	3,970	3.75
7	143	28.6	27,230	64,030	2,924	7,268	4,401	4.07
8	143	28.6	25,390	61,800	3,036	7,720	4,794	4.37
9	143	28.6	23,710	59,780	3,140	8,135	5,152	4.64
10	143	28.6	22,180	57,940	3,237	8,517	5,482	4.90

FOR EVALUATION ONLY, NOT TO BE USED