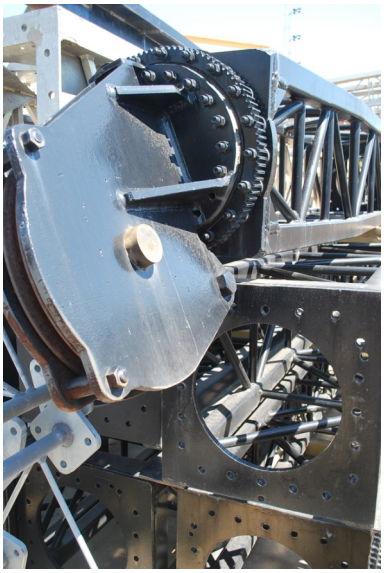
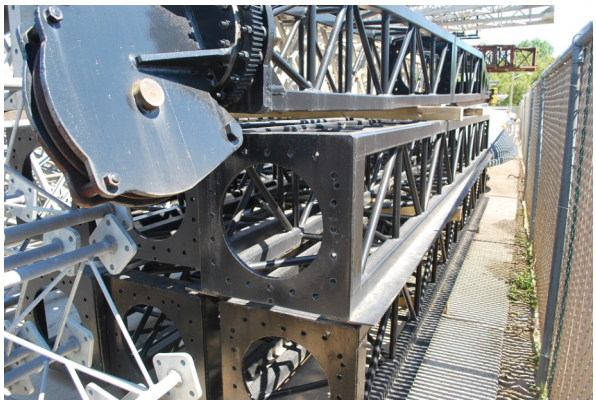
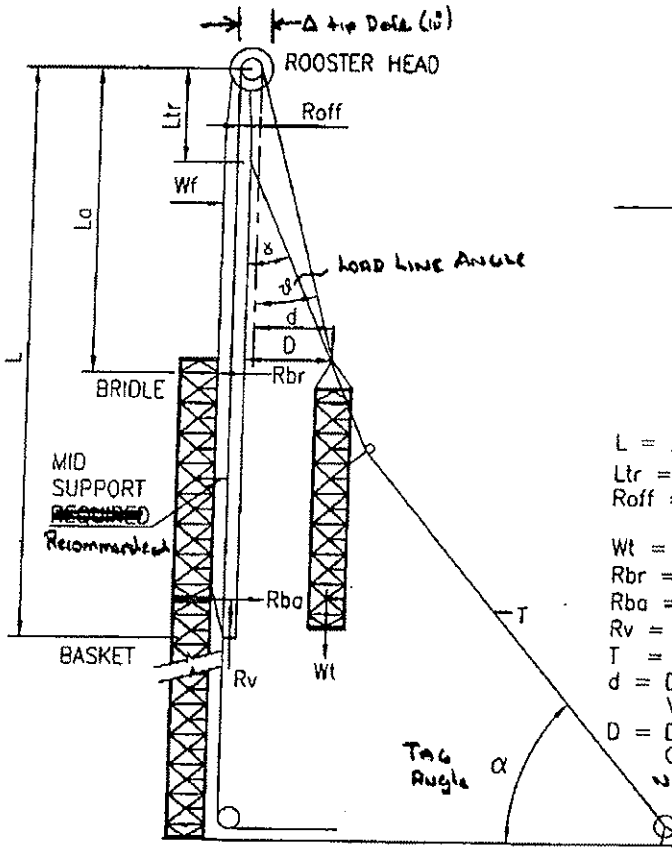
Eisco Gin Pole

- 24” square face by 140’.
- Four Jumper Blocks included

Asking $22,000







E. R. Jones

[redacted]

IDENTIFICATION NO. Pro Com 23" ☒ 6in Pole

POLE SIZE 23" ☒ CLASS C

TS 3x3x1/4" Leg

_____ LOAD LINE SIZE

2 # OF PARTS (Common)

_____ TAG LINE SIZE

_____ JUMP LINE SIZE

_____ ROOSTER HEAD OFFSET FROM POLE ℄ (Roff)

L = 140 ft. OVERALL LENGTH (ROOSTER TO BASKET)

Ltr = N/A ft. HEIGHT FROM BRIDLE TO ROOSTER HEAD (ft.)

Roff = _____ ft. DISTANCE FROM LOAD LINE TO CENTER OF POLE AT ROOSTER

Wt = GROSS LOAD (lbs.) [Lifted Weight + All Rigging]

Rbr = HORIZONTAL REACTION AT BRIDLE (lbs.)

Rba = HORIZONTAL REACTION AT BASKET (lbs.)

Rv = VERTICAL REACTION AT BASKET (lbs.)

T = TAG LINE FORCE (lbs.)

d = DISTANCE LOAD LINE CAN MOVE FROM NO LOAD VERTICAL AT BRIDAL

D = DISTANCE LOAD LINE CAN MOVE FROM OUTER FACE OF POLE AT BRIDAL

NOTE: Rooster Head Capacity Not Evaluated Assumes New A325 Bolts

LOAD CHART Wt (lbs) 2 supports / Flexible Tower Supports

PARAMETERS		La = 40' K = 3.9	La = 50' K = 3.5	La = 60' K = 3.1	La = 70' K = 2.8	La = K =	La = K =
Load Angle ϑ = 3° Tag Angle α ≤ 60° N/A	Wt	11,100 lb	8,600 lb	6,800 lb	5,200 lb		
	Rbr	1,400 lb	1,300 lb	1,260 lb	1,230 lb		
	Rba	610 lb	620 lb	660 lb	760 lb		
	Rv	30,800 lb	27,000 lb	24,000 lb	21,000 lb		
	T	1,300 lb	1,000 lb	800 lb	600 lb		
	D/A	35" / 6.2"	42" / 7.1"	48" / 8"	54" / 8.5"		
Load Angle ϑ = ° Tag Angle α ≤ ° N/A	Wt						
	Rbr						
	Rba						
	Rv						
	T		1° Load Line Angle				
	d/D	Special Light Situation (Must Be Monitored in Field) *					
Load Angle ϑ = 1° Tag Angle α ≤ 70° N/A	Wt	14,000 lb	10,600 lb	10,500 lb	← K=2.7		
	Rbr	900 lb	850 lb	1,020 lb	MID-SUPPORT REQUIRED		
	Rba	500 lb	500 lb	620 lb	LOAD LINE TIE SUPPORT REQ'D		
	Rv	34,600 lb	29,200 lb	29,040 lb	Impact 1.25		
	T	750 lb	570 lb	570 lb	F.S. = 2.04		
	D/A	18" / 5" *	20" / 5.5" *	22" / 7.5"	Tip Defl max = 7½"		

NOTES:
- Max Working Pole Wind Speed Limit 30 mph.
- Refer to separate chart for conversion of degrees to distances.
- The gross load shall be reduced by 50% when lifting personnel.

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Bottom TV Antenna Lift For

P1&3

Emi R
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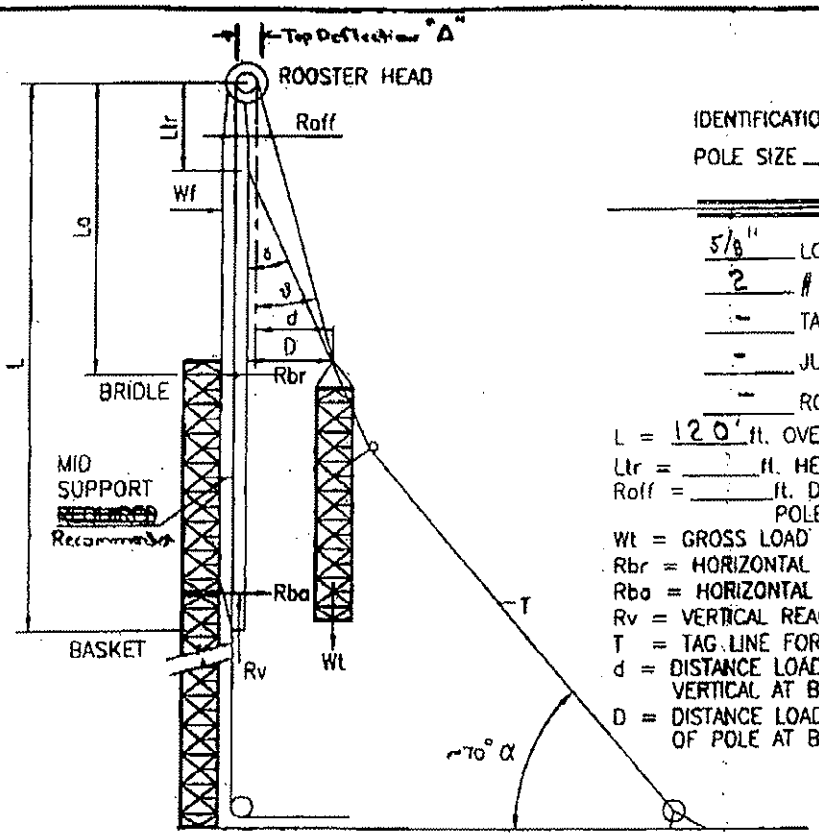

IDENTIFICATION NO. ProCom 23" ☒ Pole

POLE SIZE 23" SQ. CLASS C

5/8" LOAD LINE SIZE

2 # OF PARTS

- TAG LINE SIZE

- JUMP LINE SIZE

- ROOSTER HEAD OFFSET FROM POLE ℄ (Roff)

L = 120' ft. OVERALL LENGTH (ROOSTER TO BASKET)

Ltr = _____ ft. HEIGHT FROM BRIDLE TO ROOSTER HEAD (ft.)

Roff = _____ ft. DISTANCE FROM LOAD LINE TO CENTER OF POLE AT ROOSTER

Wt = GROSS LOAD (lbs.) [Lifted Weight + All Riging]

Rbr = HORIZONTAL REACTION AT BRIDLE (lbs.)

Rbo = HORIZONTAL REACTION AT BASKET (lbs.)

Rv = VERTICAL REACTION AT BASKET (lbs.)

T = TAG LINE FORCE (lbs.)

d = DISTANCE LOAD LINE CAN MOVE FROM NO LOAD VERTICAL AT BRIDAL

D = DISTANCE LOAD LINE CAN MOVE FROM OUTER FACE OF POLE AT BRIDAL

LOAD CHART Wt (lbs)

Special Engineered Lift For a Bottom

See Page 2 of 3 & 3 of 3 For Rooftown Details

Limit of Pole Load Line Angle 1½° max w/50' over Bridle

Load Angle θ = 1½°
Tag Angle α = 70°
Rs = 1

Wt	10,500 lb					
Rbr	1,005 lb					
Rbo	560 lb					
Rv	29,500 lb					
T	870 lb					
D/A	25" / 7"	← Field Monitor				

NOTES:
- Max Working Pole Wind Speed Limit 30 mph.
- Refer to separate chart for conversion of degrees to distances.
- The gross load shall be reduced by 50% when lifting personnel.

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Load Chart

Model	Overall Length (L)	Pole Weight (est.)	Typical Capacity Max	Min
GPA10-055	55'	1200 lb	1000 lb	700 lb
GPA12-066	66'	1900 lb	3000 lb	2100 lb
GPA16-088	88'	4000 lb	5000 lb	3500 lb
GPA18-100	100'	6600 lb	8000 lb	5600 lb
GPA20-120T	120'	11000 lb	13000 lb	9100 lb
GPA24-140T	140'	14000 lb	18000 lb	12600 lb
GPA30-160T	160'	22000 lb	30000 lb	21000 lb
GPA36-180T	180'	32000 lb	40000 lb	28000 lb

The capacity of a gin pole is a function of three primary variables. These include:

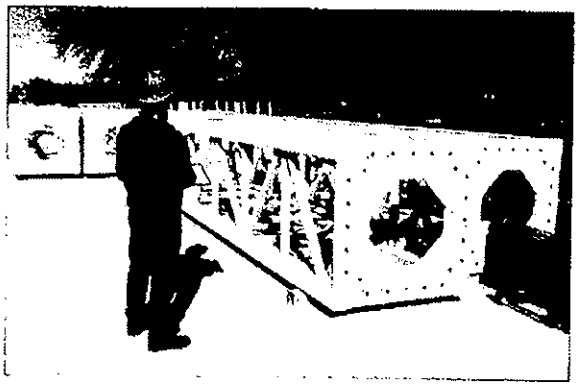
1. Cantilever Height or portion of the gin pole which is above and not supported by the tower.
2. Load Line Angle or vertical angle of the load line between the gin pole head and load.
3. Tag Line Angle or the angle between horizontal and the tag line.

Other variables include:

1. Overall length of the gin pole.
2. The ratio between the overall length and the portion supported by the tower.
3. The flexibility of the supporting structure.
4. The number and location of the supports connecting the gin pole to the support structure.
5. The amount of horizontal movement permitted of the load line between the gin pole head and the bridle.

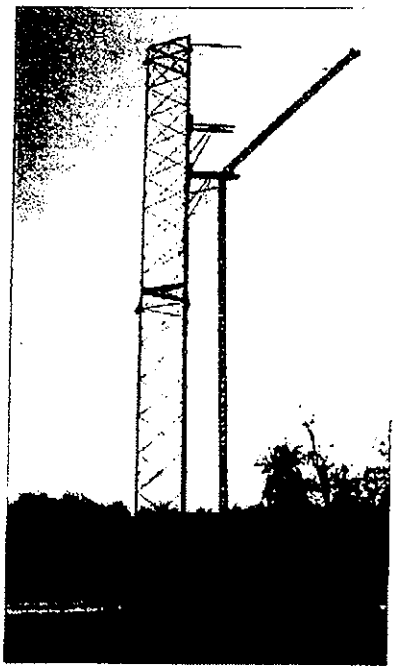
Special Engineering Picks can exceed maximum chart values. Contact ERI Structural Engineering Division for details.

Tracks are optional for GPA10, 12, 16 and 18 poles and mandatory for GPA20, 24, 30 and 36 poles.



Custom 48" Gin Pole rated for 60,000 lb

Special engineered pick

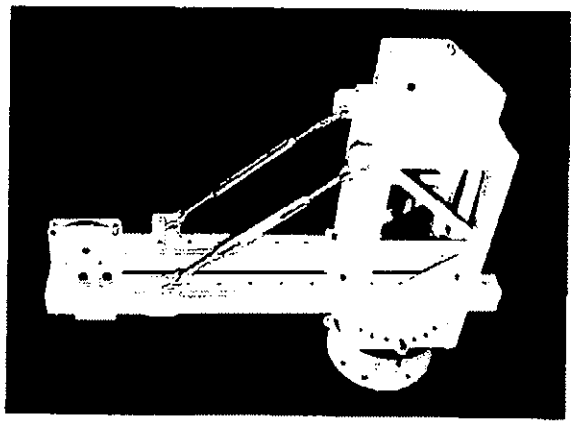


ERI in conjunction with NATE spearheaded both the theoretical and clinical research which resulted in the TIA/EIA-222 Standard governing Gin Pole design and safe use.

NATE National Association Tower Erectors ®

Voting Member since 1996

Pictured is an example of the apparatus used to determine suitable design parameters by testing gin poles to their ultimate strength and resulting failure.



Optional extended turn head with "AVON" Ball Bearing

60 Years 1943 - 2003

Since 1943 ERI has provided the broadcast industry with superior products and service.

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