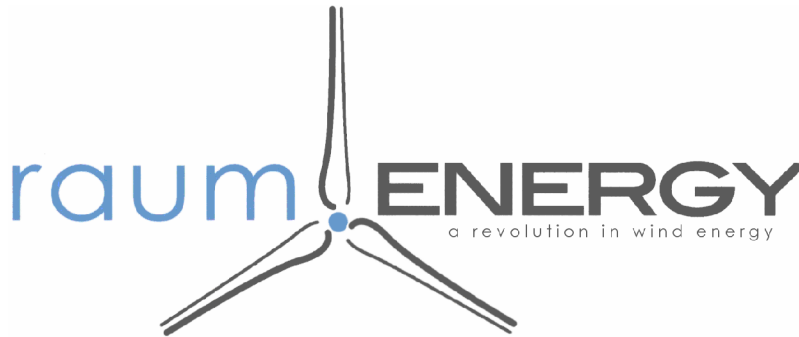
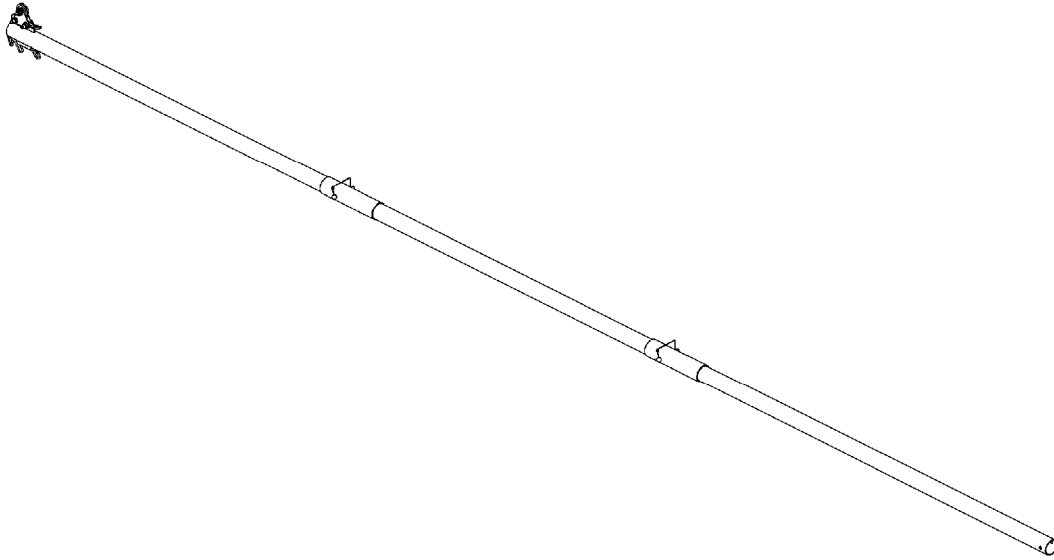


RAUM ENERGY 70' GUY TOWER

STEEL GIN POLE



3718A Millar Ave. N

Saskatoon, SK Canada

S7P 0B1

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1.0 Important

Read this manual entirely before you start construction of the Raum Energy 70' Guy Tower Gin Pole. Failure to accurately follow the steps presented in this manual can result in damage to the foundation, tower and/or turbine.

The following assumptions were made in design of this tower

- There is no seismic activity
- Max wind speed not to exceed 45 m/s (162 Kph or 100 mph)
- No organic soil water under footings, and well drained
- A licensed and insured professional structural engineer was consulted for your soil type and bearing weight

1.1 WARNING

Assembling and lifting a tower/ gin pole can cause injury or death. Carefully read this manual and use safe construction practices. Do not lift tower in winds higher than 20 kph.

Please read this manual in its entirety before attempting to erect the gin pole and/or lift the guy tower.

1.2 Material List

The following parts are included in your Raum Energy Gin Pole Kit. Please review the kit to assure each part is included. If some components are missing, please contact your local Raum Energy dealer immediately.

Bottom Pipe, QTY = 1

Mid Pipe with sleeve, QTY = 1

Top Pipe with sleeve and anchor, QTY = 1



Bottom



Middle

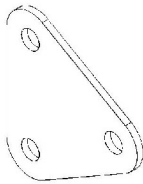
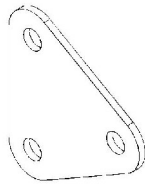
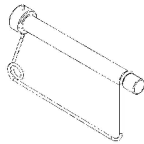
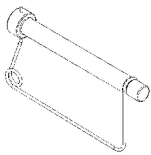


Top

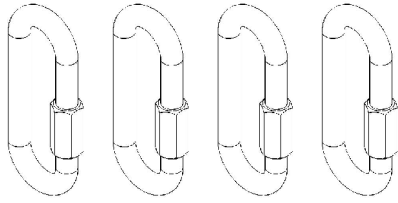
3/4" Latching Pin, QTY = 2

Gin Pulley Links, QTY = 2

Wire Rope Pulley, QTY = 1



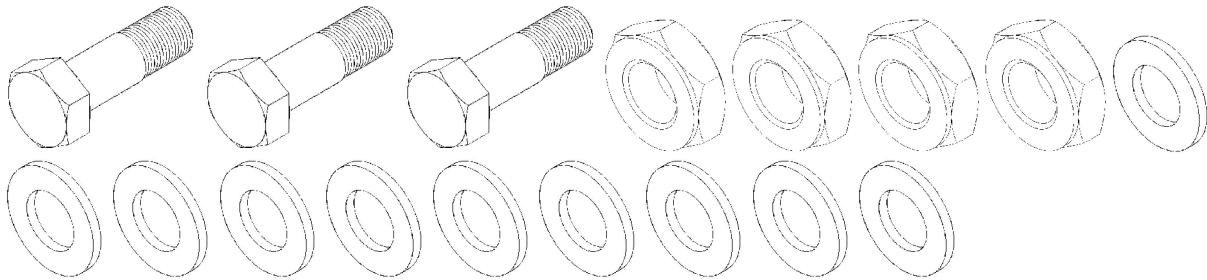
Threaded Connector, QTY = 4



3/4" Bolts , Qty = 3

3/4" Jam Nuts, Qty = 4

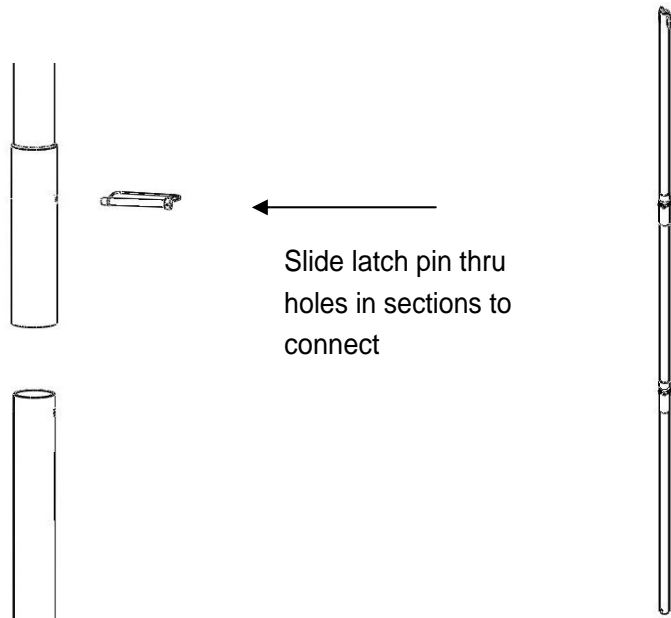
Flat Washers, 0.75", QTY = 10



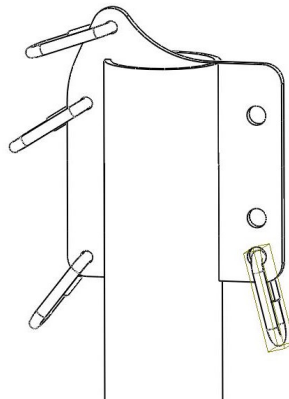
2.1 Assembly Instructions

The Raum Energy Guy Tower Gin pole was designed with a small amount of parts which make it quick and easy to put together.

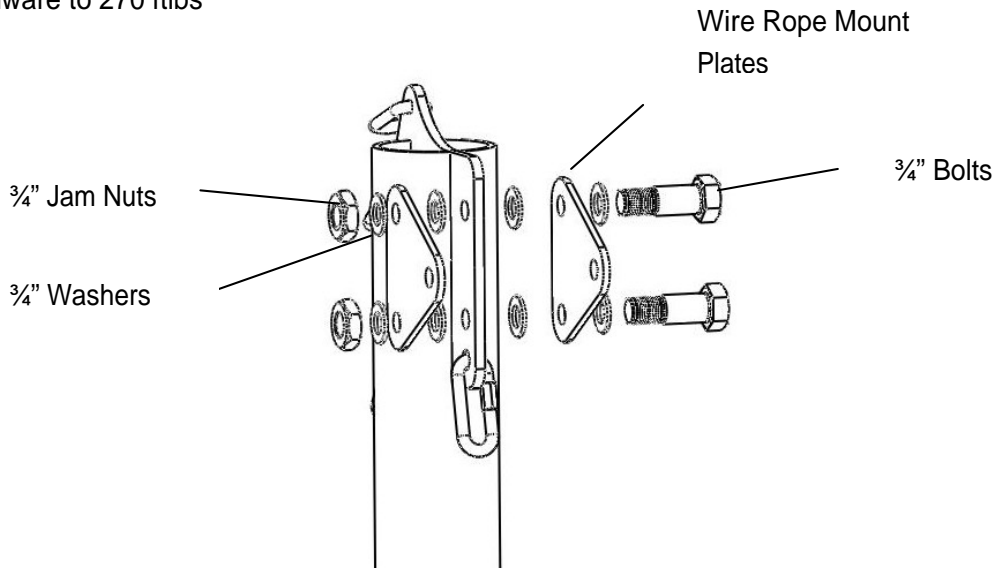
Step 1: The 2 latch pins are used to pin together the bottom/ mid and top sections of the pole. Assure that the bottom pipe is the pipe with no sleeve, and the top pipe is the one with the weld in plate for lifting at the top.



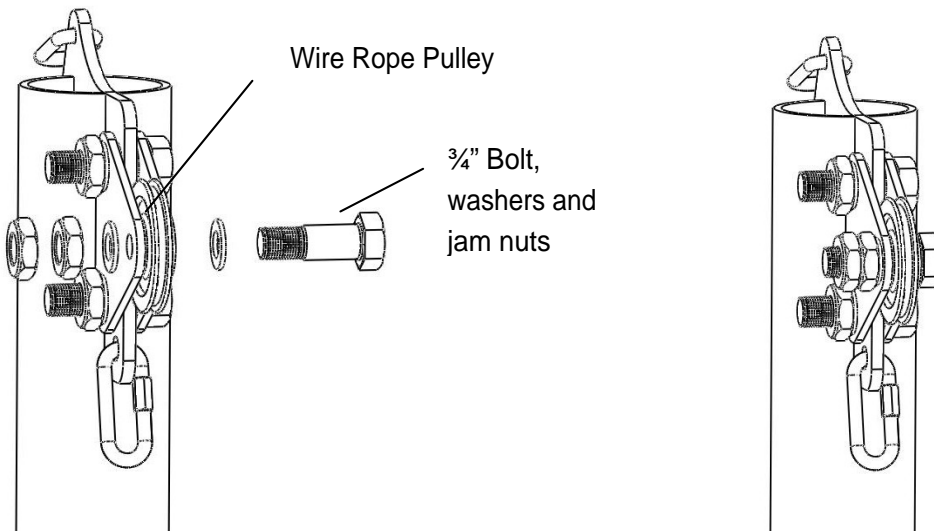
Step 2: Attach the quick connecting links to the mount on the top of the gin pole as shown



Step 3: Bolt on the wire rope mounts using the 3/4" bolts, jam nuts and washers as shown. Torque the 3/4" hardware to 270 ftlbs



Step 4: Now attach the wire rope pulley to the wire rope mounts using the remaining 3/4" hardware, torquing again to 270 ftlbs.



The gin pole is now complete and ready to be used to lift the Raum Energy 70' guyed tower.