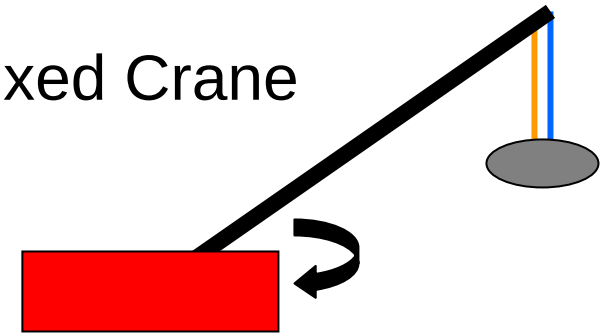
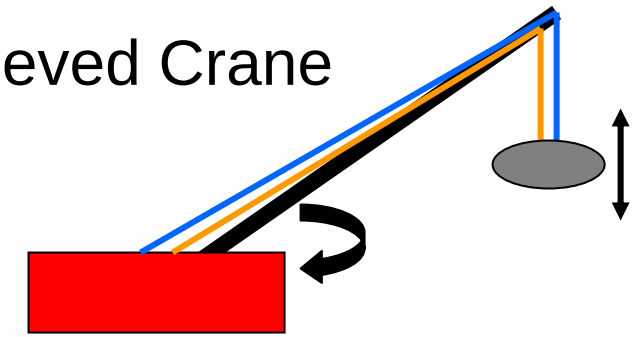
Basic Rigging Configurations

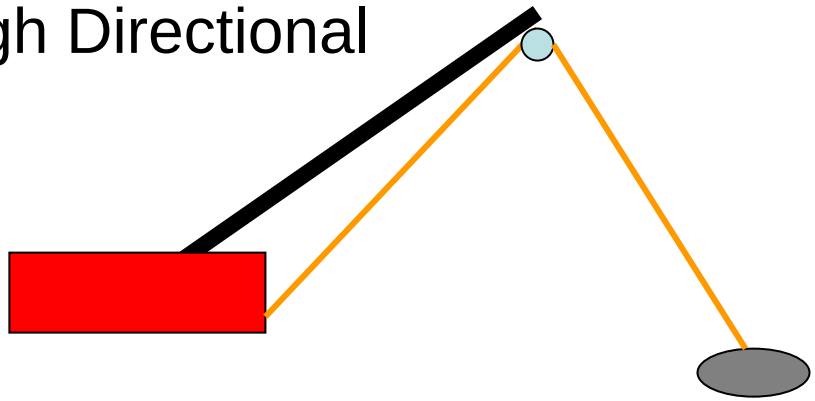
Fixed Crane



Reeved Crane



High Directional



L4

- 500 lb tip load at any angle
- Bag added to L4 in compartment with quick-attack pack and ropes for Aerial Rigging.

Fixed Crane

- Load attached directly to tip via 2 Azteks
- Load cannot exceed 500lbs (2 person operation possible)
- Tag line recommended
- All aerial movements possible since load is only connected to tip

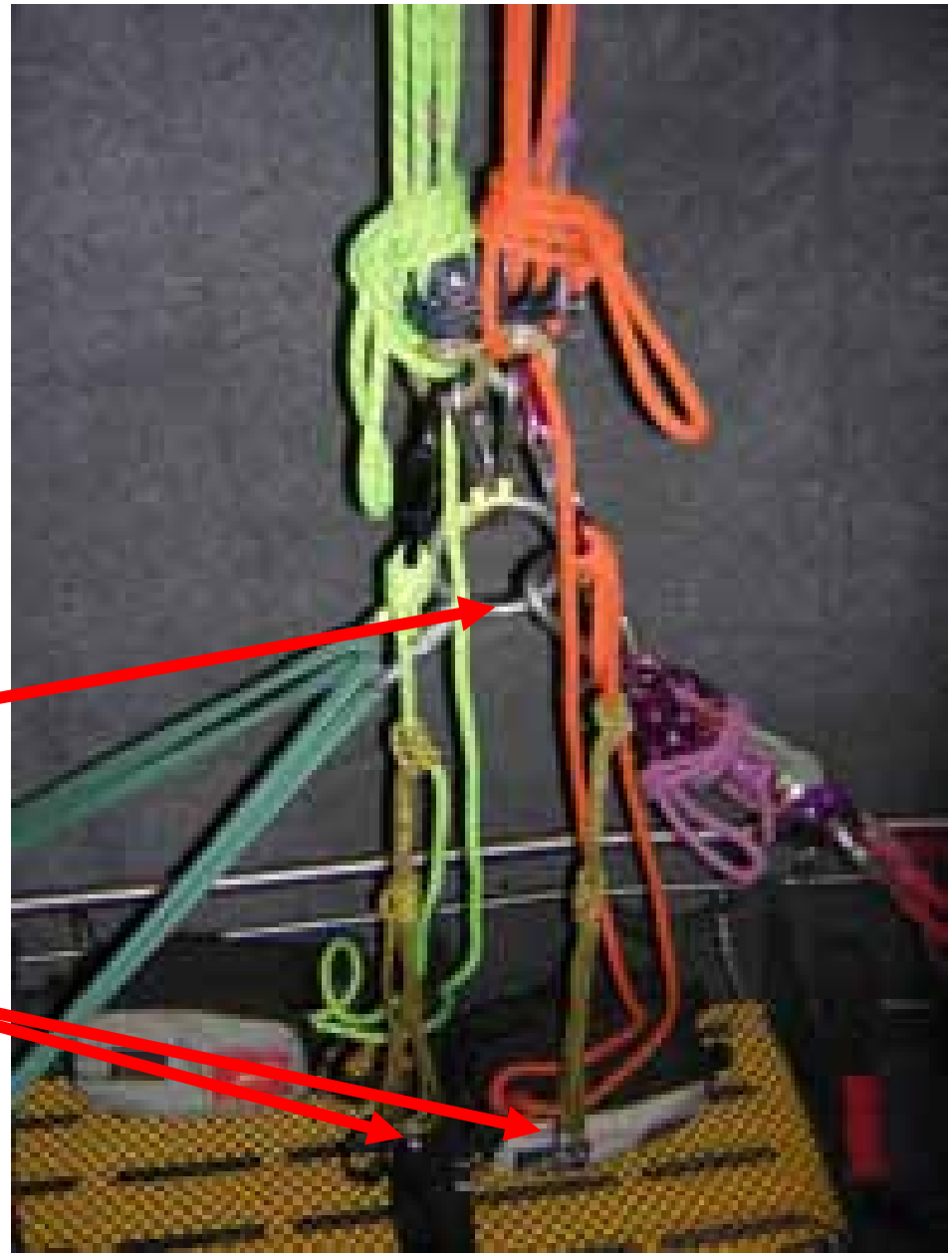
Fixed Crane

- 1st Aztek connection directly to lift bar with carabiner
- 2nd Aztek connected to Black webbing sling (marked L4 Crane Anchor Strap)
- Personal end of 1st Aztek connected to Pt and lower swivel of 1st Aztek to eliminate critical point at the litter ring.
- 2nd personal end connected to rescuer and lower swivel of 2nd Aztek if attending litter during operation.

Fixed Crane

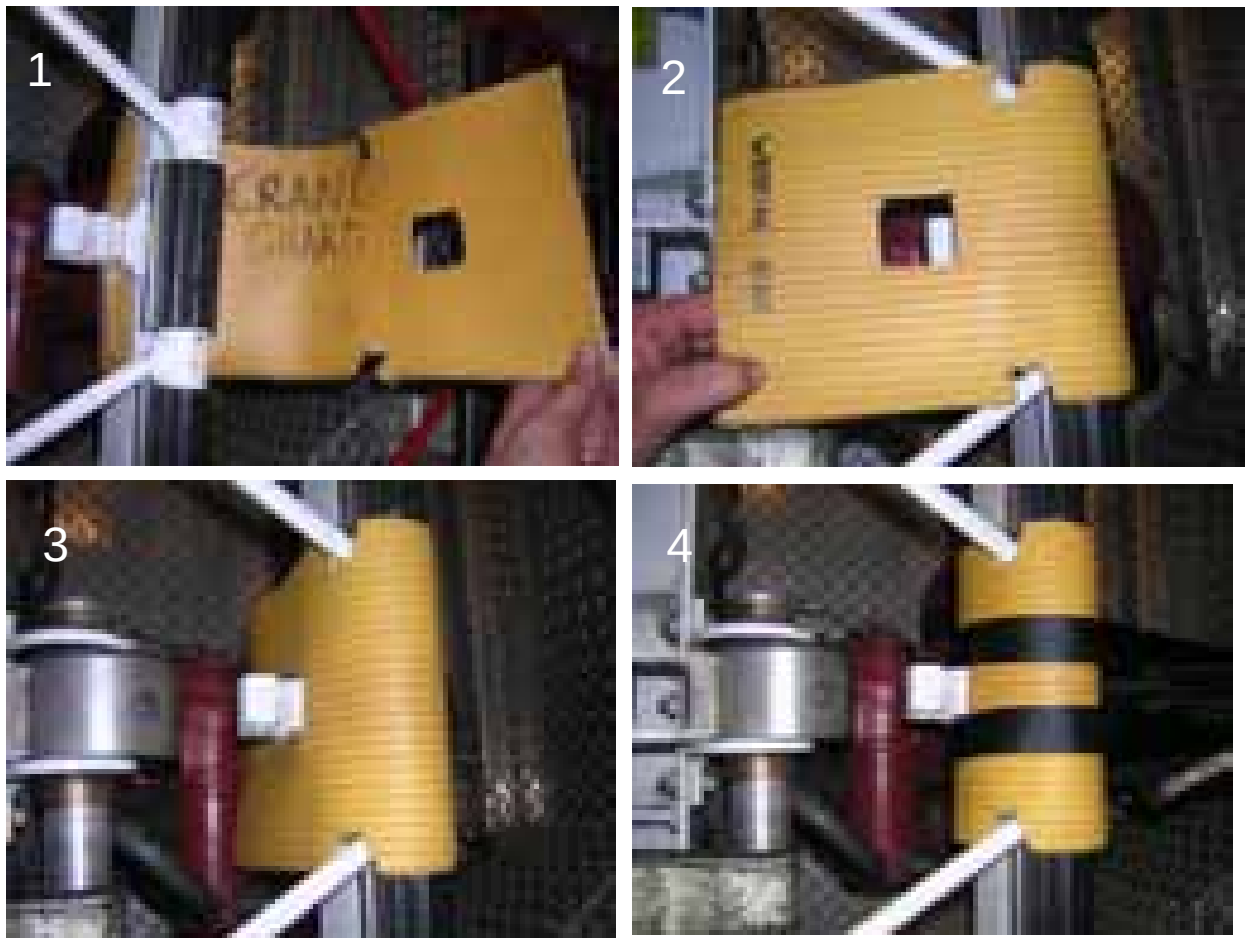
Fixed Crane

- Aztek's connected to ring with blue block so if attended the prusiks can be tended
- Personal end of Aztek used to eliminate critical point of ring for rescuer/patient connection
- If not attended, only 1 personal end needs to be in place
- Azteks secured with 2 half hitches (mule hitch)
- If attended, rescuer attaches to the ring with additional Aztek for their mainline connection as we do with our standard litter configuration. Personal end serves as 2nd point of contact.
- Personal end carabiner connected to swivel, screw link on prusik connected to rescuer/patient harness



Fixed Crane - Anchors

- One anchor is simply the lift bar.
- Special edge guard for padding bed section anchor



Fixed Crane - Anchors

- Webbing strap is wrapped around last rung to keep load centered on aerial.

Fixed Crane – Attended Operation

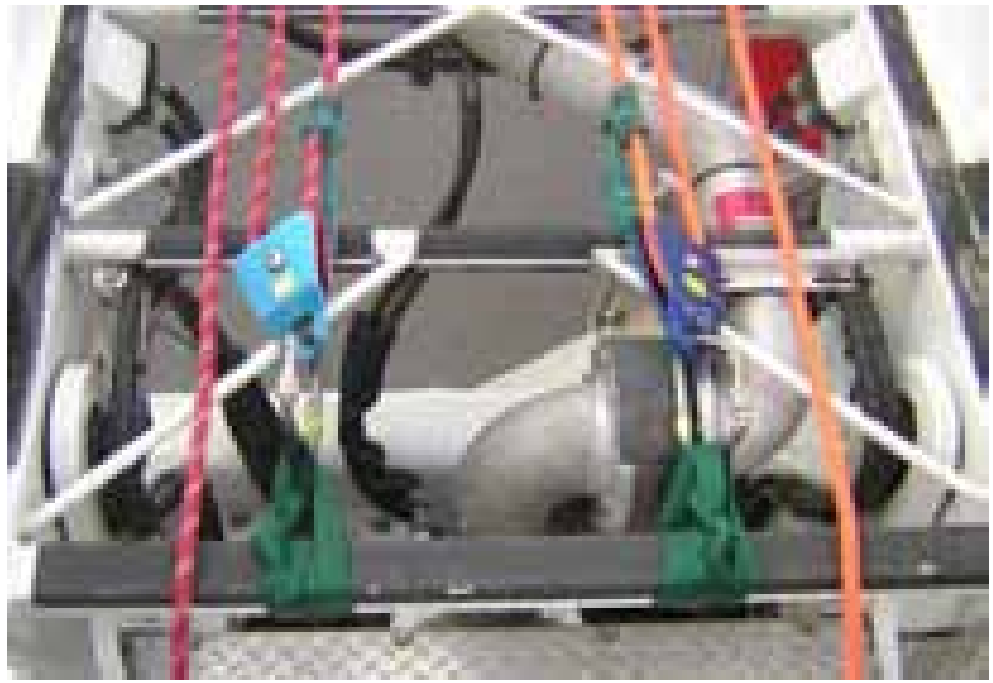
- Rescuer connected to litter in same manner as all high angle operations.
- Rescuer can easily operate both Azteks simultaneously if needed to raise/lower litter.
- Load the aerial with the Azteks and not by using hydraulics to avoid shock loading the system. Once rescue package is supported by aerial then the rescue package can be moved by the hydraulics.

Reeved Crane

- Allows for raising/lowering litter greater distances
- Non-attended operation
- Raise/Lower is operated from turntable
- Limited to 1 person load (due to potential force multiplier on tip since the rope is anchored at turntable)
- 2 identical tensioned main lines. No belay line.
- Each main shares the load and serves as a backup to each other creating our 2 rope system and reducing the potential shock load if 1 main line was to fail.
- Rescue package is connected to mainlines as it is for other high angle operations.

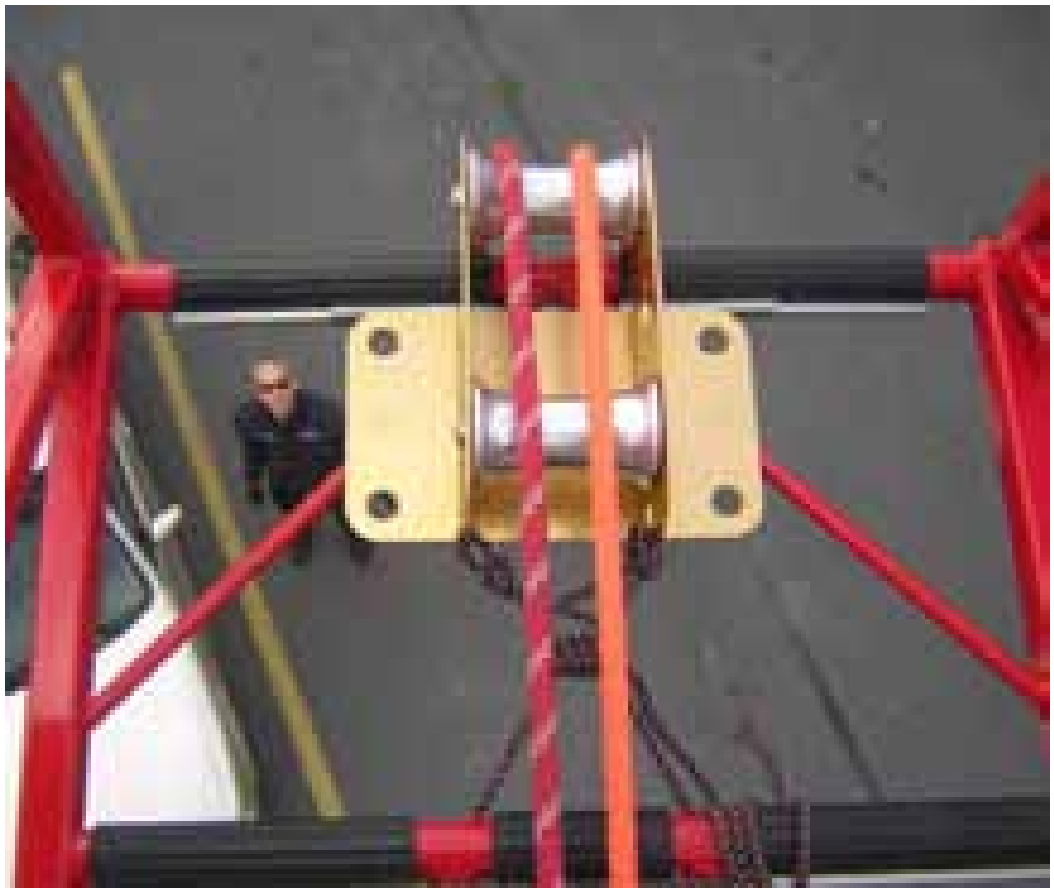
Reeved Crane
Turntable Rigging

- 2 mirrored 3:1 haul systems
- To lower system is run in reverse
- To raise system is run as usual
- Anchored on 2” square tube at base of aerial.
- Create a 3 bight anchor around tubing with webbing in aerial rigging bag (yellow, custom length for this application). Place webbing around aerial at points marked with yellow tape.
- Use prusiks and 2 prusik minding pulleys in this bag
- Travelling pulley will need to be obtained from R4 rigging or cache bag. Use swivel pulley.



Reeved Crane – Tip Rigging

- Use gold roof roller with hooks on it
- 6mm cord tied around rung, frapped to cinch tight and secured with 2 half hitches.
- Both main lines run over roller and connected to rescue package.



Reeved Crane – Operation

- All aerial movements possible. If extending/retracting be aware that the rescue package will raise or lower if the main lines are locked off at turntable.
- Tag line is recommended
- Maintain same tension on both mainlines if possible to avoid potential shock load of aerial if a mainline was to fail.
- 4 person operation at turntable
  - 1 person on aerial controls
  - 1 person on each main line
  - 1 person observing main lines watching for pulleys catching on rungs and making sure pulleys don't travel over tip during lowering operation.
- If long lower is expected (longer than aerial is extended) than a reset will be necessary. To avoid overloading aerial the MA reset must take place only on sections of the aerial that can support additional weight. Consult the aerial loading chart on turntable for where this can take place. (ie. If at 10° then additional 250# can be put on bed section only).

High Directional

- Coming Soon.