

Man- Basket for cranes

Design Specifications



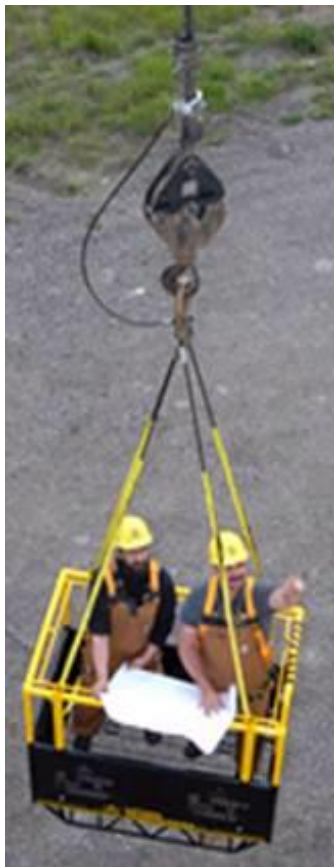
- Man baskets must be designed by a qualified engineer.
- Baskets have to be capable of supporting their own weight and 5 times the maximum intended load, both of which should be clearly indicated on the basket (see Data plate).
- The wire rope supporting the basket must be capable of supporting at least 7 times the intended load.
- Basket design must minimize tipping.
- A guardrail system must be in place, to contain operators and passengers, along with anchor points for safety harnesses.
- Toe-boards around the floor of the platform itself and/or a tool tray must be in place to avoid tools or supplies being accidentally kicked off the platform.
- Access gates should open inward and have safety latches that prevent accidental opening.
- Additionally, man basket design should allow adequate headroom for workers.
- Hooking systems that attach the basket to the crane line must be able to be closed and locked.

Safety Work Instructions




- Only workers trained in the task to be performed should be permitted in the man basket when it is hoisted.
- Bridles, links and shackles are parts of the rigging system supporting the man basket must be used only for that purpose, and all hooks and attachment mechanisms must be capable of closing and locking to avoid the possibility that a hook may open while the basket is suspended.
- All controls and safety device, on the mobile crane and the man basket, should be checked to ensure they are working properly.
- Before entering or leaving the basket ensure the basket is secured .
- Workers should keep all body parts inside the man basket while it is being lifted and during the work.
- Workers should wear all required PPE's and especially a personal fall arrest system should be worn at all times.
- After workers enter the basket, but before they are fully hoisted, the man basket should be lifted a few (inches, cm) and inspected to ensure rigging lines are clear of obstructions and are not bended, the primary rigging attachment is centered over the basket, weight is spaced evenly in the basket, and that the crane remains stable.




Safety Checks




- Basket and all the attached rigging system have to be checked before each work.
- All unsafe remarks has to be resolved before starting the work.
- Before each new job including the use of a man basket, the platform should be loaded to its anticipated weight for the upcoming job and lifted to the height of each location where work will be performed









Required checklist




- 






Is there a risk assessment done taking into account the hazards coming from the elevated position and the tasks to be done?
- 






Is a lift plan been developed on the basis of the HIRA?
- 






Is the mobile crane checklist filled out correctly and is the crane operating properly?
- 






Is a valid mobile crane test certificate on site?
- 






Is the Man - Basket checked and in safe conditions?
- 






Is the Man - Basket well fixed onto the crane hook and is the hooking systems closed and locked?
- 






Are Cables, Bridles and Shackles, the parts of the rigging system in safe conditions (no rust, cable bending, ...)?
- 






Are safety harnesses, lanyards and their accessories in good condition?
- 






Are all PPE as required for work worn?
- 






Is the demarcation to restrict access around the work area in place and adapted to the work?
- 



Is the work to be realized in a restricted area?
- 



If YES, are the needed authorizations filled out and signed
- 



Is a lockout to realize before the work?
- 



If YES, is it done following the ArcelorMittal Standard ?
- 



Is clear communications between the Crane Operator and the Worker in the man basket guaranteed?
- 



Is a standby person present all a long the work and is he well trained?

This document has to be used as a help before starting the work or performing a SFA