

Manual Section 4	Issue Date 03/17/16	Revision Date 06/15/21	Policy Number LLCP-043
	Spiders		

PURPOSE

This document applies to the set-up of Spiders and work practices associated with this operation. This guideline has been developed to promote safe practices concerning the use of Spiders on Company and Customer sites.

SCOPE

All LLC Companies including, Blanchard Industrial, LLC, GIS Engineering, LLC, Grand Isle Shipyard, Inc., and GWIS, Mack Steel, NuWave, Sun Industries; hereafter identified as “Company”.

DEFINITIONS

- Spider – Air driven portable workbasket. (Picture of Spider in Attachment 2)
- Spider Competent Person – Personnel specifically trained with the competencies to both train personnel in the operation of the spider and to rig up the spiders for work.

REFERENCE DOCUMENTS

- Fall Hazard Management
- Crane & Rigging Policies
- Spider Manufacturers Operators Manual

NOTE: It is not intended for this document to be all-inclusive in regards to the safe operation of a Spider as this document shall be considered as a guideline. For specific information concerning the use of Spiders and training competencies, please reference the latest versions of the manufacturers operators’ manual as noted above.

PROCESS

While scaffolding is the preferred method of access to “At Height” work locations, it is recognized that Spiders allow for a safe method of accessing locations that will require short work durations.

To ensure consistency and Safety, the Spider Competent Person is identified by this document to provide approval for work planned with the use of Spiders. Should the Spider Competent Person need HSE advice on how the work should be conducted, the Corporate HSE Department should be consulted prior to the commencement of work.

The following conditions must be adhered to if work is to commence on Spiders:

- The Spider Competent Person must train any person(s) planning to work in a Spider to a competent level.
- The minimum number of personnel in the work party is two (one person in spider and one person watching hoses, lines, etc. from the ground area or from above.
- Worksite barriers shall be put in place to restrict access to the work area.
- Pre-operation checks (Attachment 1) of the spider shall be done prior to use.
- The air supply hose shall be routed to prevent constriction and loss of airflow.
- Spider identification unique tags are on all hose connections.
- The air supply hose shall be secured to the spider to ensure it cannot be jerked to disengage.
- 100% tie-off. Use life line and rope grab with 3-foot lanyard. Work vests shall also be worn when working over water. Lifeline should be hung as close as possible.

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- Vertical lifelines shall be attached to an appropriate anchor point.
- Suspension rigging shall be attached to an appropriate anchor point.
- Before entering the spider, the control lever shall be activated to take up tension on the suspension line and keep the basket stabilized on the deck.
- An emergency rescue plan shall be developed and rescue materials shall be in the immediate vicinity of the work location.
- Once the spider is at the desired height to do the work, it should be anchored to prevent swaying.
- Perform daily inspection using spider inspection form.
- No two Spiders will operate entirely the same. The make, model, and controls may be identical, but in no way insures identical responses by each Spider. Always become familiar with each Spider prior to its use. Anytime a control fails to respond, STOP all operations until the cause is identified and corrective measures are taken as needed.
- Ensure integrity of tie-off points for spider and lifeline as well as all rigging (i.e., shackles, cables, lanyards, ropes, clamps).
- Never tie-off around sharp edges.
- Tie 1" air supply line to spider frame to prevent rupture or breaking off at valve.
- The spider is for personnel and basic hand tools only. Not to be used for lifting or moving equipment. Never exceed maximum working load.
- When putting suspension cable through grating, always use 2" schedule pipe or greater, with a length that allows the pipe to extend over two beams and/or appropriate supports.
- Pipe and/or tie-off points protruding through decks shall be flagged.
- Flag off areas below to prevent access to hazardous work areas.
- Always hold onto framework inside the spider while moving and never to the outer rail to avoid pinch points.
- Do not climb into spider without it being held steady by a co-worker and/or tied off.
- You should never stand on the toe plate mid rail or top rail while working from a spider.
- Continually inspect cable during use. Ensure proper drum spooling and inspect cable for damage. Never use tension holder as a brake.
- **Welding, cutting or burning shall not be performed from the spider without an arc guard.** An additional safety precaution that should be considered to prevent arcing would be the use of rubber to insulate attachment points.

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Attachment 1 Safety Checklist

Operators and users of this equipment shall be able to answer "YES" to all of the following questions each time before using this equipment.

- Has all the equipment been inspected in accordance with the Operator's Manual and all necessary maintenance work been completed by trained and knowledgeable personnel?
- Has (have) the suspension line(s) been inspected by trained and knowledgeable person?
- Will it (they) support a load of at least six (6) times the hoists rated nameplate load?
- Have the suspension line, rigging, and safety tie-back lines been properly assembled, spaced, and installed by a trained and knowledgeable person? Will each rigging support a load of at least four (4) times the hoists rated nameplate load?
- Is each person equipped with and wearing a safety harness and an independently hung safety line that is in good condition and free of defects?
- Is the equipment carrying no more load (consisting of persons and material) than prescribed by the equipment rated working load?
- Is each person using this equipment trained in its use and knowledgeable of all local, state and federal regulations pertaining to the use of scaffolding, "General Safety and Health Provisions," and "Personal Protective and Life Saving Equipment?"
- Is each person in good health, of sound mind, and not influenced by drugs or alcohol?
- Are all labels in good condition?
- Is there an operator's manual with the hoist and is the manual in good condition with all pages intact?

WARNING
Answering "NO" to any of the question listed above could result in Serious Injury or Death to the user and others who are working in the vicinity of the worksite.

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Attachment 2



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Customer _____ **Date** _____

Location _____ **Serial Numbers** _____

Competent Person _____

Note: The purpose of this check list is to provide useful reminders to a competent person inspecting suspended scaffold rigging and equipment. Always be sure to follow the manufacturer's instructions and any federal, state/provincial, and local regulations that apply. It is required that the competent person complete this form for each stage and every rigging operation **BEFORE ANYONE OPERATES** the equipment and/or before leaving the job site. The original document must be filed with the associated rental contract, in the branch customer files.

SUPPORT SYSTEMS	Yes	N/A
The structure is able to support the loads (roof deck, bearing walls etc.).		
Weight is spread out correctly, roof and parapet are protected as needed		
Loose lumber / plywood has been secured against wind conditions		
Suspension points are spaced the same as the hoists / verified by tape measure- Both are spaced @ _____ ft		
Clamps and hooks are seated and tightened correctly		
Outriggers are rated for the application, correct # of counterweights attached		
OBS frames or other beam supports are assembled per manufacturer's / supplier's instructions		
Caster brakes are locked or when required, the wheels are chocked		
All suspension rigging points can support 4 times the hoist capacity		
Tiebacks are properly configured, attached, and tied to adequate anchor point.		
The support equipment is clear of electrical power lines and obstacles that will interfere with the sa operation.		
The wire rope is long enough to reach the bottom of the drop (plus 4 feet for traction hoist or 4 turn on the drum).		
Suspension wire rope is in good condition and suspended correctly.		
Power cord has strain relief at source and at all connections , all edges it passes over are padded		
After load is applied, check that all fittings / fist grips are secure and torqued to specifications		
All loose items have been removed from area and secured		

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SUSPENDED EQUIPMENT	Yes	N/A
Lifelines are independently tied back to an adequate anchor point and padded to protect from abrasion.		
Lifelines and fall protection equipment have been inspected and are in good condition.		
A safety zone directly below the scaffold has been properly identified.		
Hoist/stirrup and platform connections properly secured with Grade 5 bolts, thread-locking nuts or cotter pins used		
All accessories (platform connections, wall rollers, toe boards, guard rails) of the scaffold have been installed and tightened with the proper hardware. Cotter/hitch pins installed.		
Hoists are in proper operating condition per manufacturer's instructions. The wire rope is reeved properly.		
On drum hoists, check that the rope is terminated at the drum properly, and the wraps are in good order.		
Step down transformers provided on the stage are secured by safety chain to the platform.		
Power cord has strain relief at platform and at all connections.		
The power supplied at the hoist is enough to operate it properly. Power has been checked with an in line meter, under load. Continuity to ground has been verified.		
The suspended equipment is clear of electrical power lines and obstacles that will interfere with the safe operation.		
Handrails positioned at 42 inches above platform deck		
Toe Boards have been installed on all platform edges.		
Mesh (wire or plastic) has been installed on platform between toe board & top handrail.		
Welding protection has been installed.		
Operators manual attached to each hoist		
Platform has been raised to a suspended position. Re-torque wire rope fittings & check support system		