

	Activities	Procedures	Hazards/Risks	Controls
1	Check crane controls	Carry out visual tests	Crane is not functioning properly	Visually check ropes, sheaves, chains, grippers, hooks and latches, and shackles to ensure those chosen have been inspected and tagged or marked as ok in the Non-Electrical Plant & Equipment Register.
				<ul> <li>All steel slings are checked by outside specialists and tagged every 12 months whilst synthetic or webbing slings are checked every 3 months.</li> <li>Synthetic slings must not</li> </ul>
				show signs of having been stored near chemicals.  • No Green tag – no Use.
				<ul> <li>Red- tagged items are not to be used but reported to the Supervisor.</li> </ul>
				<ul> <li>Tags or Stamping or sewn- in labels should show ID No., WLL, Date of Manufacture.</li> </ul>
		Test-operate crane controls to ensure that they work correctly		<ul> <li>Run through all crane actions such as brakes, as a test. If there are any problems, do not proceed until Supervisor instructs you to.</li> </ul>
				<ul> <li>However the Supervisor must confer with Managing Director if a crane or slings or associated lifting gear appear to be faulty. Faults must be documented in Works Diary and items</li> </ul>



				quarantined and repairs or replacements arranged.
2	Confirm Safe Work Load of crane	Estimate weight to be loaded and ensure that this is within Safe Work Load (SWL or WLL) of crane and slings' capability	Crane failure or sling damage or loss of load	Estimate weight of load and proceed only when load is within capability of the crane's slings and lifting capacity (as shown on tag WLL or SWL).
		Use of two cranes for a tandem lift		• This is not advisable. In the event that a load such as a beam, needs to be lifted using two cranes in tandem, the weight of the load must be within the load limit (SLL) capacity of EACH crane. Note Demag operating instructions specify that a single machine is not designed for work in tandem with another.
3	Sling load	Insert sling "around load"	Load moves or rolls during slinging causing manual handling strain or injury or pinching of body parts.	Ensure adequate     clearance between body     and load being slung, wear     leather gloves and keep     hands clear. Avoid trying     to move the load     manually.
				Use protective pads on the sharp edges of loads to protect chains against wear. Ensure sling is not twisted so that it jolts on movement.
				<ul> <li>Place hook over the load's centre of gravity and position the hook at a suitable height to connect the lifting gear safely. Ensure eye of sling fits freely over the hook.</li> </ul>
				When rotating a load that is on a trestle, ensure that the hook is placed on the correct side, which is

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				opposite to the direction where the load is going
				Ensure that the shortener is placed above the load so that they do not come into contact, resulting in the load rotating unintentionally
			Movement of slings, or slung load causes person slinging to fall or be crushed if standing on truck platform	If standing on truck platform, ensure that you have a path to escape should the slings force you to move.
			Distraction causes     injury	Do not use mobile phones during this activity
4	Clearing the pathway	Check that path of load travel is clear and safe	Trips or slips on oily surfaces or surfaces with shot. Head injuries.	Ensure any grease or oil or shot is removed from the intended path of travel and that no obstacles are present and lighting is adequate. Operator and receiver to wear hard hat during operations.
5	Ensure recipient is ready to receive load	Check with eye/verbal contact that receiver is ready to receive the load	<ul> <li>Recipient unaware of load approaching, causing load to strike other materials or persons</li> </ul>	<ul> <li>Ensure receiver is concentrating on receiving the load e.g. not distracted and in clear sight</li> </ul>
6	Move and transfer load	Operate crane to transfer the load	Wrong controls activated causing injury	Always test the controls in short bursts
			Load or slings cause head injury	Wear head protection
			Load slips away out of sling or chains become damaged	Ensure sling is balanced and load is centrally placed and tighten chains before lifting
				Alert the receiver that the load is coming
			Load moves through noisy areas or areas	Ensure all others are wearing high visibility

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			where others working e.g. welders - causing load to strike other materials or persons	clothing and are made aware of proposed crane operation and stand clear of pathway
				When handling loads that are approaching maximum capacity, test the brake by lifting the load just off the ground.
				Whenever possible, keep a safe distance from the load
				Do not reverse before the crane comes to a stop first.
			Damage to crane or slings	<ul> <li>Do not leave loads suspended without supervision.</li> </ul>
				Do not pull or drag suspended loads at an angle
				<ul> <li>Take care to avoid slamming the load and especially the sling, against other surfaces that can result in sling damage</li> </ul>
7	Place load	Lower and place load	Obstructions at unloading point	Make sure placement area is clear
			Unstable stack	Stack load level and ensure that it cannot roll
				Ensure that load Is not placed in such a manner that my fall or tip after slings have been removed. That is, the main shaft of the steel should be sitting on the trestle or timber underneath. Loads should not be placed and



	left sitting on steel plates that may be welded to the steel shaft (see diagram).
Hook and pendant hanging down	When placing a steel member on the ground, ensure that timbers are placed underneath the steel member. This when the load needs to be picked up again. The sling can be placed around the load, rather than trying to pick it up with the chain hooks only (see diagram).
Falling from heights when adding or removing steel from a stack.	Make sure timber or steel supports are strong enough to carry the weight of the load. If there is the possibility of the steel eventually being more than 2 metres high, then steel SHS sections should be used to stack the bottom few rows of steel because using timber may be insufficient in strength and break.
	Make sure hook and pendant are clear person's height
	When adding or removing any steel from stacks that are more than 2 meters high a portable platform should be manoeuvred next to the stack in order to prevent any fall of more than 2 meters being possible. This also applies when loading or unloading any steel loads on the back of a trailer.

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8	Unsling load	Undo sling to unsling loads	<ul> <li>Load moves or rolls during unslinging causing manual handling strain or injury or pinching of body parts</li> <li>Pendant swings causing injury</li> </ul>		Ensure adequate clearance between body and load being released from sling, wear leather gloves, avoid trying to move the load manually Ensure cable and pendant remain straight and do not swing, wear hard hat.
9	Unloading trucks / Receiving loads & deliveries	Unloading trucks / Receiving loads & deliveries	Falling steel members from truck resulting in crash injury or death	•	Ensure all loads are secured and stable Timber gluts and separators are in place Steel members are stacked neatly Nil loose steel members or components Sufficient spacing for slings or chains to pass rails Only another person to assist in unloading Safety rails or other means of fall prevention in place Exclusion zone around truck set at 3 meters. Do not enter exclusion zine, crane operator, dogman and spotters to ensure no workers enter this area.
10	Store slings	Putting slings into storage	Damage to slings	•	Store sling suspended when not in use, ensuring that they are protected from the weather and in the case of synthetic slings, are away from any chemicals or corrosive substances.

- Supervisor:
- Personal Protective Equipment that must be used: Leather gloves, safety footwear, high visibility vest/shirt, hard hat



This SOP has been developed in consultation with me and I agree to follow it and carry out tasks in a safe manner, reporting any problems to my immediate Supervisor.

<b>Bundy Card</b>	Name	Signature	Date






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