



BRISTOL – CARDIFF – READING
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Safe Use Instructions For 2.5 and 5.0ton Pipe Grabs

Suggested Safe Use Instructions for 2.5 and 5.0ton Pipe Grabs

The method of equipment safe use described is only a suggestion, the ultimate safety and responsibility of using the pipe/culvert puller is with the company/responsible person using it.

Specification/Technical Data

<u>Pipe Grab Size</u>	<u>Range of Pipe Sizes</u>	<u>Max SWL</u>
2.5ton	275mm to 1000mm	2.5ton
5.0ton	700mm to 1800mm	5.0ton

General

Authorized Use

- (1) The pipe pulling device is only designed for the use specified in this documentation.
- (2) The pipe puller is only to be operated by personnel who have received training by the hire company, and fully understand its correct use and limits.
- (3) All relevant safety regulations, especially regulations of the declaration of conformity, and additional local health and safety regulations have to be observed.
- (4) The pipe grabs are specially designed for the lifting of reinforced concrete pipes only.
- (5) The pipe grab and all its components must be inspected at regular intervals for damage, and any defects reported and repaired by authorised personnel only.
- (6) Any other use is unauthorized and therefore forbidden.
- (7) Under NO circumstances must anyone attempt to change or alter the settings on the Pipe Grab – all changes must be carried out by Site Equipment Limited.

Information Required for hire of the Pipe Grab:

- (1) **Correct external size of the pipe.**
- (2) **Weight of the pipe you are lifting.**
- (3) **Length of the pipe you are lifting.**
- (4) **Any site restrictions for lifting operation.**
- (5) **Size of excavator/crane lifting pipes.**

Safety Procedures

General

- (1) Before putting the pipe grab into an open trench or excavation, always ensure the area is safe to work in, there is no water present and the excavation has been inspected by a competent person and is safe.
- (2) While using the device be sure that there are no persons in the working area, and the lifting operation is supervised at all times by a suitably qualified person.
DANGER TO LIFE.
- (3) The pipe grab must only be lifted whilst accompanied by a single leg chain c/w swivel locking hook.
- (4) Do not leave the pipe grab in the trench/below ground when not in use.
- (5) The rubber grippers on the grab legs of the pipe grab must be checked for damage before it is used.
- (6) The pipe grab is simply a mechanical lifting device, and must only be used for lifting reinforced pipes.

Protective Equipment

All site induction, and safety procedures and PPE are observed at all times.

The minimum protective equipment to be worn when operating the pipe grab is as follows:

- Hard Hat
- Protective Eyewear
- Gloves
- Boots
- Protective Clothing
- Dust Mask

Visual and Functional Inspection Prior to Use

- (1) Prior to operation, the functioning and the general working condition of the pipe grab must be examined by a trained and competent person.
- (2) All moving parts must be checked to ensure they are moving freely.
- (3) Check all covers on the grab to ensure they are correctly fitted and fastened!
- (4) Check all pins and r clips are correctly positioned and free from defect.
- (5) The locking bar at the top of the pipe grab head must be able to move up and down freely.
- (6) Make sure you have all the correct parts to commence the grabbing and lifting operation.
- (7) The pipe grab is now ready to be lifted onto the pipe for use.
- (10) Pay very close attention to the dangers posed by quickly changing weather conditions.

Lifting the Pipe Grab onto the Pipe

- (1) Attach the single leg chain to the nominated lifting point on the arm of the excavator, it is considered safe practice not to fix to the excavator whilst a bucket is fitted.
- (2) Ensure the bow or d shackle you are using is compatible with the swl of the single leg chain and the pipe grab. **Lifting equipment must be inspected by a qualified lifting inspector before use.**
- (3) Offer the pipe grab onto the pipe, always ensure you place it in a suitable lifting position, taking into consideration the (socket end) of the pipe. When you put the pipe grab onto the pipe, let the grab rest on the pipe, the mechanical locking mechanism then kicks in and locks the grab onto the pipe.
- (4) Ensure the grab is locked to the pipe before lifting away, when you are happy the grab is locked, lift away

- (5) It is considered safe practice not to lift over site personnel.
- (6) If you are using the pipe grab to unload pipes from a delivery vehicle, always ensure the lifting area is fenced off, on all four sides of the vehicle, at least six meter perimeter, all the way around.
- (7) The operating instructions must be available and observed in the workplace at all times.
- (8) Do not remove any data or instruction plates from the pipe grab.

Dis-Engaging Pipe Grab

- (1) When you have successfully lifted the pipe to its final resting place, if it is to a delivery compound area, do not stack pipes on top of each other, they must be secured either side, to ensure they do not roll away.
- (2) If you are lifting the pipe into a trench, first of all make sure no one is in there, and again ensure the pipe is chocked to make sure it doesn't roll, if you are placing the pipe onto bedding material the weight of the pipe will generally compress the material underneath. The pipe grab will now release.
- (3) If you are using a pipe pulling device in the trench in conjunction with the pipe grab, you must ensure the machine takes the weight of the pipe or culvert whilst the pulling operation takes place.
- (4) The pipe grab must be checked regularly by a qualified and competent person, to ensure it is in good working order at all times.

WORK SAFE – HOME SAFE !

Technical Advice and Problem Solving

Site Equipment have many competent trained pipe grab specialists who can give you accurate technical advice, as well as offering a complete training package on all our pipe grab, and lifting equipment.

Bristol Depot: Tel: 0117 982 8239 – Fax: 0117 982 1477

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