Op 31

Mechanical Scissor Grab 203,406,609,610A,1311,760S

Specification –
Mechanically operated scissor grabs of similar design but with dimensionally differing spans. Each is fitted with a patented automatic locking system and a special safety blocking device that limits the closing distance to the minimum jaw span. Rubber pads are fitted to each jaw to ensure an effective and gentle grip on the load.

Operation –
The grab may be hung below an overhead or lorry mounted crane from a lifting eye, rotator or rotator suspension, or alternatively under the forks of a forktruck using the approved lifting/locating yoke.

To grip a load, the grab is lowered down over/around the load. The automatic locking system ensures that the jaws then grip the load when the grab is lifted.
When lifting blocks and stones, ensure that the jaws clamp at a point not higher than 1/3 of the height of the bottom row of blocks. Failure to do this may result in the load slipping.
The lifting movement must be even, without jerks or sudden changes in crane direction in the middle of the movement, to prevent load swing or possible load loss. Depositing the load engages a locking hook automatically, which then holds the jaws open so that the grab can be lifted clear.

Before each lift, care must be taken to ensure that there is no dirt on either load or jaws as this may reduce the lifting capacity of the grab. The capacity is calculated using a co-efficient of friction for dry loads. It must be remembered, therefore, that jaw grip will be impaired by the presence of grease and/or ice on loads. Load and jaw length must be matched so that the load occupies the entire length of the jaws and outer blocks or paving slabs do not protrude beyond the ends of the jaws.

Limitations in use –
Scissor grabs are designed primarily for use with lorry cranes. If the unit is to be used with construction cranes or similar where lifting heights are considerable, special safety precautions must be taken. Contact the supplier if advice is required. Kerb stones, paving flags etc. must be lifted with the jaws on the edges/ends to ensure they don't slide against each other and drop.

Do not lift loads in the excess of the S.W.L.
Do not lift a load above people's heads.
Do not put hands or feet under the load or between scissor arms or jaws.
Do not correct or steer the unit by grasping it at points other than the handles designed for the purpose.
Loads must not be pulled, only lifted.

No change must be made to the scissor grab without the written permission of the manufacturer.
If this condition is not observed, the manufacturer's warranty becomes void.

All lubrication and maintenance must be performed with the scissor grab on a firm surface, unloaded.
All joints must be greased every 35 hours of operation.
Monthly:-
Inspect all screws, bolts and nuts and tighten if necessary.
Inspect jaws (rubber pads) and replace if necessary.
Inspect all split pins and secure if necessary.
Repair rust damage
Inspect for deformation, breakage and fracture. If such damage is observed, contact a repair specialist.
After repair, the unit must be test loaded.

If in doubt consult the manufacturer

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