

Directions for Safety and Accident Prevention



1. Prestressing Operations

As manufacturers of machinery and equipment for the production of prestressed concrete we are endeavoured to make our products as safe as possible. For this purpose we carry out extensive and stringent quality controls to ensure that only absolutely perfect products leave our works.

However, the responsibility for the **safe use** of PAUL products lies with you, the user.

Prestressing, whether done in open beds in precast concrete plants or by post-tensioning on construction sites, can be very dangerous. It, however, does not need to be unsafe, in particular,

- if the necessary safety precautions are taken and the applicable regulations complied with
- if the operations are carried out correctly
- if all the equipment and components are used for the correct purpose and in accordance with the instructions.

To ensure maximum safety at work, please be sure to follow our Directions for Safety and Accident Prevention (B 341.11/1) included in each operating manual.

The most important points contained therein are as follows:

- Prestressing operations must only be carried out by properly trained persons. Never use inexperienced workers or workers who may be impaired by physical condition, drugs or alcohol to work on a prestressing operation.
- Ensure that the operating staff have read and understood the relevant operating instructions and the notes on accident prevention.
- Make sure that all persons who have to carry out stressing operations follow the accident prevention regulations.
- During stressing never stand before or behind the stressing jack, but always beside it. Except for the stressing jack operator persons must stay clear of the stressing bed and a certain safety zone on either side of it and also keep clear of the areas behind the tendons.
- Prepare the protection devices required for covering the prestressing wires/strands immediately after stressing.

(The complete text of the directions for safety and accident prevention - B 341.11/1 - will be sent to you on inquiry.)

2. Special rules to follow in using PAUL Anchor Chucks

1. It is prohibited to use prestressing steel (strand) of an actual strength exceeding 2200 MPa. Please state this on your purchase orders to your suppliers.
2. Only use original PAUL chucks and original PAUL spare parts. Never mix parts made by different manufacturers.
3. Only use carefully cleaned and lubricated chucks. For information on cleaning intervals and cleaning agents, please see Sheet B 246.01/1 and on anchor chucks, B 441.20/1.
4. Never strike a chuck body with metal hammers, rocks, rebars, etc.
5. Never conduct welding or flame cutting operations near bare strand or chucks. Do not ground welding apparatus to strand, chucks or any metal near or in contact with the former.
6. Never use chucks with dirty, corroded or greasy strand.
7. Never use chuck bodies which are dented, cracked or scored by jaws.
8. Never use jaw assemblies which are worn or cracked, especially with cracks at right angles to the axis of the strand (see Sheet B 441.20/1).
9. Only use parts of the same size to reassemble a strand chuck.
10. Never use a splice chuck where the jaws are jammed due to ingress of concrete water.
11. Never use splice chucks before having checked that the body is fully screwed onto the coupling piece. In particular, right-hand helical strands tend to unwind to the left when, in the worst case, the body could loosen from the coupling piece.
12. Always take care that the strands or wires to be coupled are inserted into the splice chuck body as far as possible. For this purpose mark the strands before coupling or use splice chucks with safety coupling pieces which are provided with sight holes allowing to check the correct position of the strand.
13. Never exceed the loads indicated in the tables of the brochure „anchor grips“ (B 146.01/1). The maximum working load of the anchor chucks is stamped into the chuck body. Observe the permissible working load of the jaws used.

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Error and modification reserved.

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