

# **USER MANUAL** **DRUM CLAMP**



***HANDELMAATSCHAPPIJ VLIERODAM B.V.***  
***NIJVERHEIDSWEG 21***

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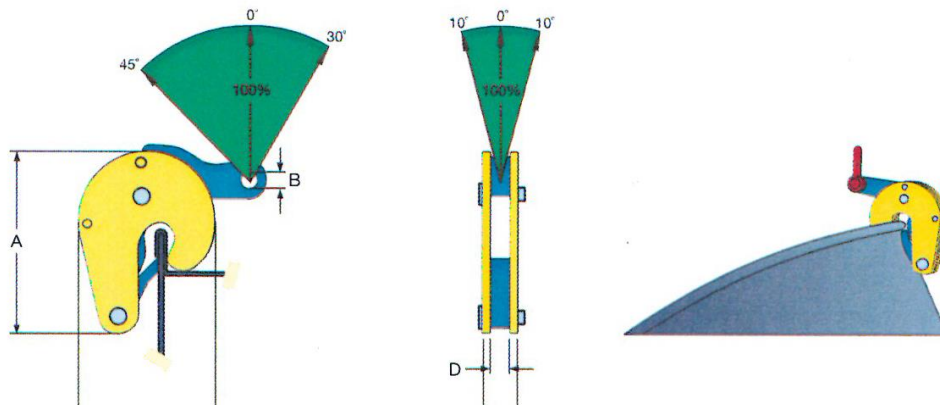
***010 – 5013843***

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## USER MANUAL DRUM CLAMP

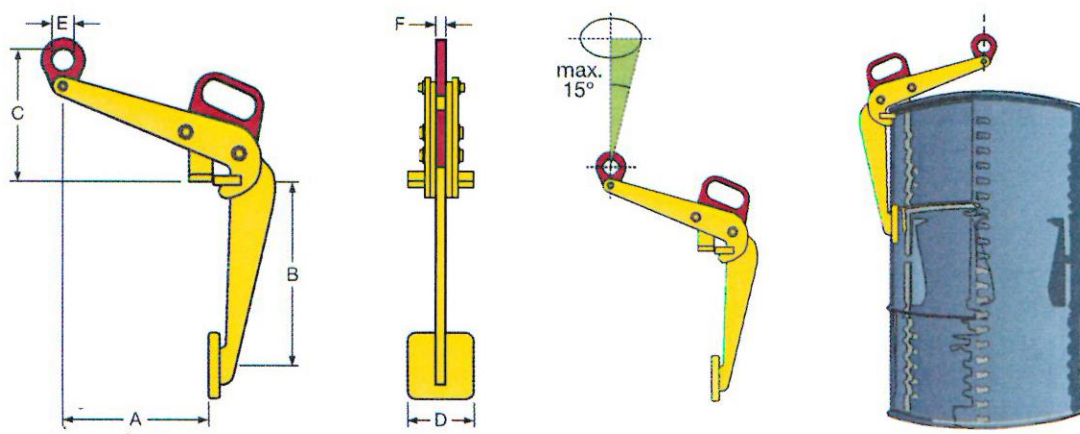
A drum clamp is specifically and exclusively designed for vertical lifting of steel drums and consist of a body, cam & camp ins. We have 2 different kind of clamps ( see images).



This drum clamp ( as image above ) may be used individually or with other clamps using a two-way of four-way intersection. If a drum is hoisted using only one clamp, the drum may get damaged. To avoid this, the drum should be hoisted using two lifting clamps at the same time. To guarantee safe hoisting, the clamp has been pretensioned.

### Use:

Correctly position the clamp on the rim of the drum, in such a way that the toothed segment grips underneath the drum rim. The clamp should remain on the drum rim in pretensioned position. Lifting force may now be applied. When the load has reached its destination, lower the crane hook until the clamp is fully unloaded. This can be verified by the slackness of the hoisting chain and a free movement of the packing gland of the clamp. Push down the packing gland while holding on to the frame. The clamp will open and the drum can be taken away.



When lifting with a ( hook ) drum clamp as image above, the drum must remain in a vertical position.

### Use:

Correctly position the clamp on the rim of the drum, in such a way that the packing gland is securely positioned underneath the drum rim. The load may now be hoisted. When the load has reached its destination, lower the crane hook until the clamp is fully unloaded. This can be verified by the slackness of the hoisting chain and a free movement of the packing gland of the clamp. Push down the packing gland while holding on to the frame. The clamp will open and the drum can be taken away.



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Safety rules:

- 1 The clamp must be inspected and tested once a year by an expert body.
- 2 Never work with an untested clamp.
- 3 Keep your distance when lifting and never stand under the load.
- 4 Do not use the clamp if ( it has been ) damaged.
- 5 Never lift loads heavier than the working load limit ( WLL ), as indicated on the clamp and in the certificate.
- 6 Never lift loads for which the clamps have not been designed.
- 7 When using more than one clamp at the same time, opposite each other, provide lifting slings or chains of a sufficient length to ensure that the angle between the slings or chains does not exceed 60 degrees.
- 8 When simultaneously operating a number of lifting clamps time side by side, please use a lifting beam ( equalizer ) and lifting slings or chains of a sufficient length to ensure that the lifting shackles on the clamps are never subjected to lateral load.
- 9 Remove all grease, oil, dirt, corrosion and mill scale from the barrel/drum at the point where the clamp is to be attached.
- 10 Ensure the clamp(s) is(are) positioned so as to balance the load when it is being lifted.
- 11 The clamp is only suitable for use in normal atmospheric conditions.
- 12 Do not subject the lifting shackle of the lifting clamp to a lateral load for more than ten degrees.
- 13 A free-fall or uncontrolled swinging movement at the crane hook resulting in objects being struck may cause damage to the clamp. If this occurs, check whether the clamp is in good working order before using it again.
- 14 Lifting clamps are not suitable for creating permanent joints.
- 15 Do not modify the clamp ( by welding, grinding, etc.), as this can adversely affect its operation and safety.
- 16 The operating temperature of both lifting clamps ranges from 100°C (212°F) to minus 40°C ( -40°F).
- 17 Ensure that all attachments have been tested and are of the correct tonnage. Make sure that coupling links and shackles are large enough to allow the clamp to move freely in the hook.
- 18 Check whether the clamp has any visible damage and if the clamp can open freely.