

DoMess3 pretension force indicator

Before starting up and use of pretension force indicator this guide book ist to note. Dolezych pretension force indicator should only be used to determine pretension force from 50 mm width lashing straps.

Before any application all moving parts (hinge pin, guides) have to be greased with a standard lubricant to warrant a permanent and efficient function .

How to use the DoMess 3 correctly:

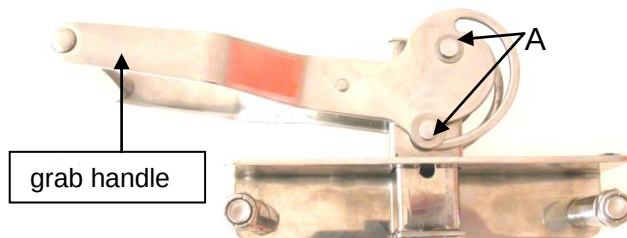
1. By swinging the grab handle you bring the pretension force indicator in starting position (picture 1, bolt position A).
2. To measure the pretension force of a lashing belt, the indicator has to be in the starting position. For this the handle has to be swing 180° (picture 2, bolt position B). Put the indicator on the tensioned lashing belt. The belt strap is guided over the webbing guide bolts I and II to the rear side angle block. (picture 2)
3. Swing the grab handle against the resistance of the lashing strap to 180° till the grab handle is locked in the ending position (picture 3). Now the indicator is in measuring position. The available pretension force STF in the lashing belt is shown by the colour of the circle scale (picture 6-10). Please gather the appropriate pretension force from the overleaf description.
4. You can remove the indicator by swinging the grab handle 180° against the resistance of the notch till the starting position is achieve (picture 4, bolt position B).

It is not allowed to use mechanical support like rods or levers.

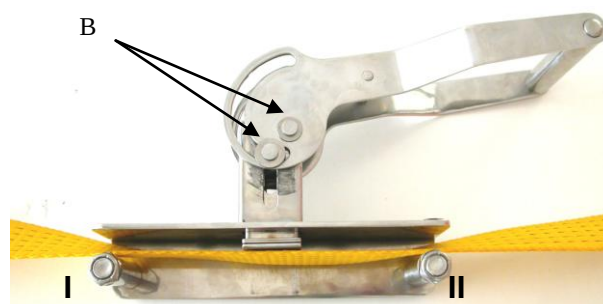
Attention! The belt strap is tensioned! During the move from starting position to measure position and back the lever of the indicator must be hold well.

How to determine pretension forces:On the indicator you can find two colour boards with five coloured fields in each case. The coloured fields include the colour from the assigned pretension force (picture 5).

Attention: The pretension force must not exceed the 50 % of the lashing capacity of the lashing belt.



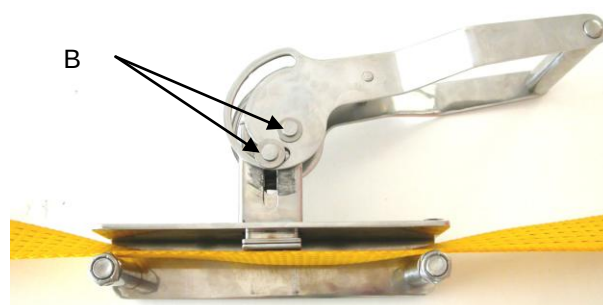
Picture 1: starting position



Picture 2: insert of the indicator



Picture 3: determine pretension force



Picture 4: remove indicator

100 - 250 daN
250 - 500 daN
500 - 750 daN
750 - 1000 daN

Picture 5: colour board of the pretension force

With the help of coloured-rings (picture 6-9) you can read the applied pretension force in the lashing belt. With increase of the pretension force the scale moves up, past at the reading angle „A“. In the changeover the colour-rings achieve:

250 daN from blue to yellow.

500 daN from yellow to red .

750 daN from red to white.

When the white colour-ring is extended ca. 2,5 mm (this correspond to the size of the previous colour-rings) a pretension force from 1000 daN is achieved.

Field of application:

With DoMess 3 is designed to determine the pretension force of the following lashing belt systems:

50 mm lashing belt systems „DoZurr 4000“ and „DoZurr 5000“.

With a free clamping length of the belt strap from 1,5 m to 4 m the display accuracy is ± 15 daN.

Environmental influences like extreme high or extreme low temperature could involve to measuring inaccuracy.

Starting up of the lashing belt:

Please note the Dolezych-guide book for lashing belts.

Depositing criteria:

We recommend a constant visual inspection before and after each use.

In case of signs from disadvantage DoMess 3 must be taken out of operation or returned to the producer for reparation.

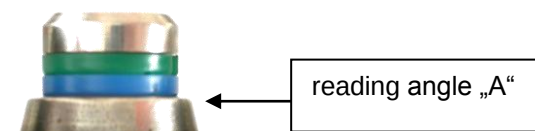
For example:

- Denting, corrosion and fracture on load-bearing parts
- Forming, cracks, strong signs from abrasion particularly on the hinge pin
- The check size of the hinge pin is outside the specified range.

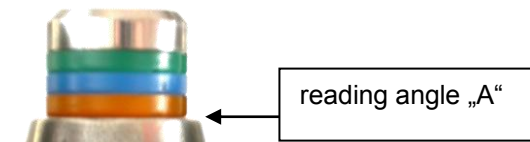
Particularly we advise to the following effective regulations and technical controls:

- DIN EN 12195-1 calculation of lashing force
- DIN EN 12195-2 lashing straps made of man-made fibres
- VDI-guideline 2700 ff load securing on road vehicles
- If necessary please consider separate treatments like transport of hazardous goods, transport by german federal railways or transport by sea.

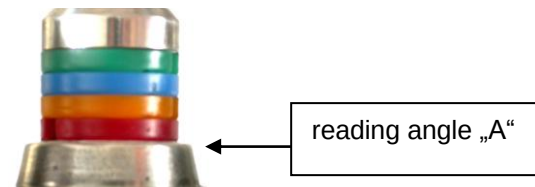
All rights and technical changes subject.



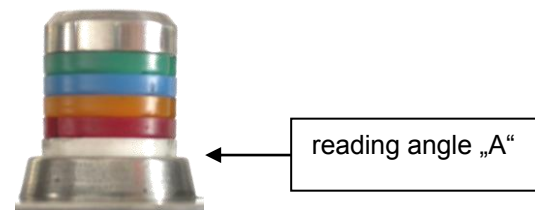
Picture 6: coloured-ring scale S_{TF} 250 daN



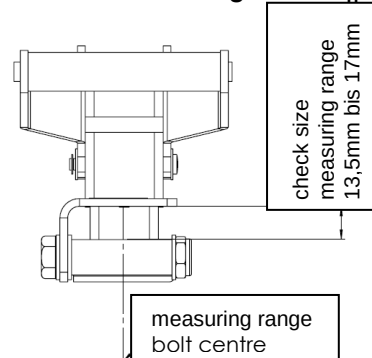
Picture 7: coloured-ring scale S_{TF} 500 daN



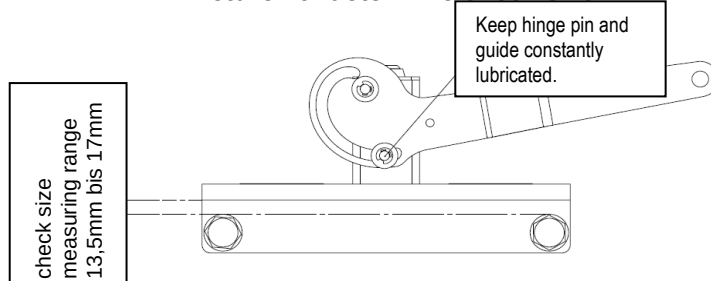
Picture 8: coloured-ring scale S_{TF} 750 daN



Picture: coloured-ring scale S_{TF} 1000 daN



Picture 10: determine check size



Picture 11: determine check size, oiling of the guide