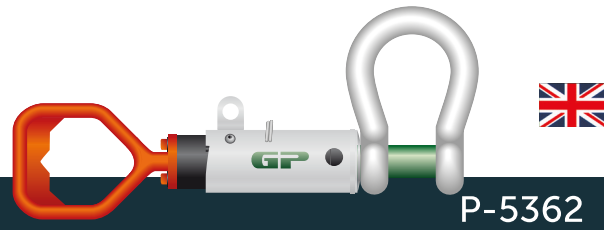


description	quantity
1 shackle body	1
2 shackle pin	1
3 handle (D or Fishtail)	1
4 guide tube	1
5 leveling point	1
6 pin extension	1
7 locking system: notch plate	1
8 locking system: cover	1
9 locking system: locking plate	1
10 locking system: top plate	1
11 locking system: wave spring	1
12 bolt DIN 603	1
13 Nord-Lock washer	5
14 screw DIN 912	4
15 screw DIN 7984	1
16 Nord-Lock washer	1
17 coiled pin DIN 1481	1
18 spring pin	1
19 key ring	1
20 warning tag	1



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The leveling point can be used to level out the shackle during operations. It also functions as a blocking mechanism to prevent the shackle pin from falling out of the guide tube. The spring pin can be used to prevent the shackle pin accidentally blocking the opening of the shackle body when installing the shackle. The opening of the shackle body is guaranteed free for positioning the shackle. The spring pin with warning tag can be installed into the guide tube when the shackle pin is completely retracted into the guide tube. The shackle is in 'open position' as showed in step one of the retrieving steps. To prevent losing the spring pin with warning tag during operation or storage, the spring pin can be tied to the leveling point. For easy handling of the spring pin a floating device like a monkey fist can be attached to it. Using the spring pin and or leveling the shackle with the leveling eye are both features of the Green Pin® ROV Guided Pin Shackles that can be used optionally.

Instructions for use

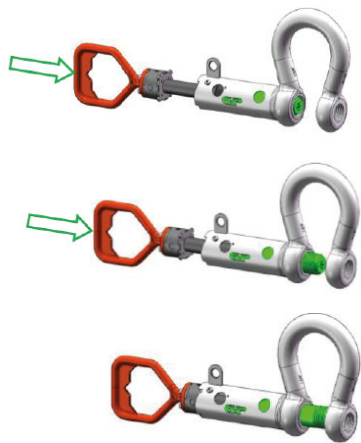
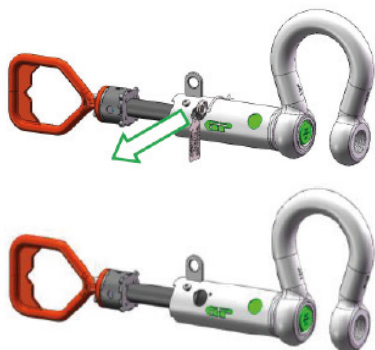


Green Pin® ROV Guided Pin Shackle Assembly Instructions



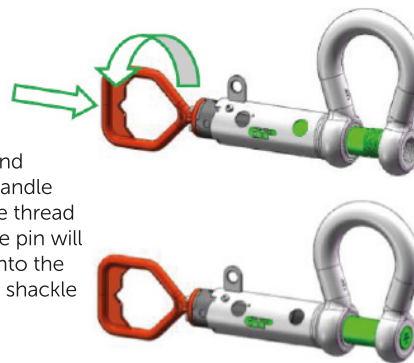
RETRIEVING STEPS

1 Optionally: remove spring pin from the guide tube.

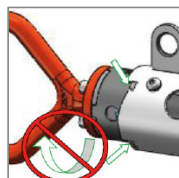


2 By pushing the handle towards the shackle body, the shackle pin will be pushed into the shackle body. This should be done until the shackle pin is completely closing the opening of the shackle body.

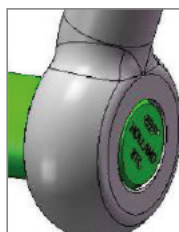
3 By pushing and turning the handle clockwise the thread of the shackle pin will be installed into the thread of the shackle body eye.



4 The locking system will automatically prevent that the shackle pin can turn counterclockwise and become loose.



5 The shackle pin must be fully screwed into the shackle body. The end of the shackle pin should be flush with the shackle body eye.



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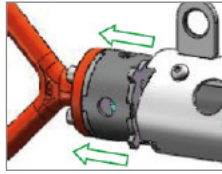
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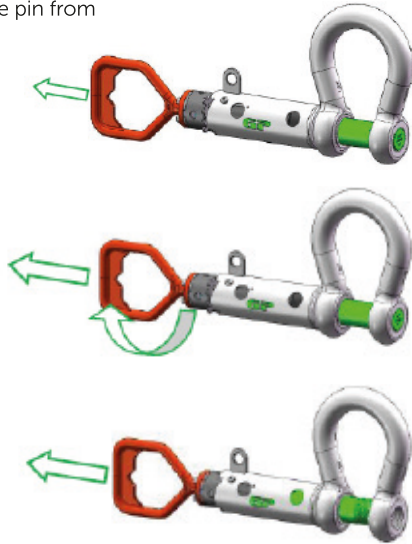
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RELEASING STEPS

1 By pulling the handle from the shackle body, the locking system notch plate will be pulled away from the notches on the end of the guide tube.



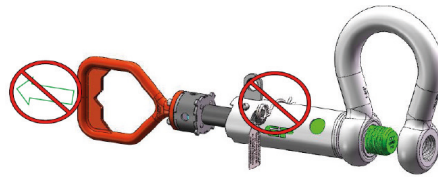
2 Now the handle can be turned counterclockwise to unscrew the shackle pin from the shackle body.



3 When the thread of the shackle pin is completely free the shackle pin can be pulled into the guide tube so the shackle is in open position. The leveling point keeps the shackle pin automatically in the guide tube.



4 **DO NOT** install the spring pin during release operations! It will block the shackle pin and it is not possible to open the shackle completely. This is shown here under.



Inspection

It is required that Green Pin® ROV Guided Pin Shackles are regularly inspected and that the inspection should take place in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and even frequently when the shackles are used in severe operating conditions.

Regular Maintenance

Visual inspection for damages, dirt and function should be carried out prior to use. The Green Pin® ROV Guided Pin Shackle must be inspected regularly for proper functioning and damages by a competent person. The holes in the tube can be used to flush the shackle with fresh water after each use to remove dirt. Keep the shackle in a good condition by lubricating it after rinsing and drying. For inspection it is possible to disassemble the shackle pin from the shackle body and the guide tube. Please note that disassembly and re-assembly of the Green Pin® ROV Guided Pin Shackle may be performed by competent persons only.

Disassembly of Green Pin® ROV Guided Pin Shackles shackle pins

1. Remove the countersunk bolt DIN 603 (12) with Nord-Lock washer (13).
2. Remove the leveling point (5) from the slot of guide tube (4).
3. Unscrew the shackle pin (1) out of the shackle body (2).
4. Remove the shackle pin (2) from the guide tube (4).
5. Inspect all parts for wear and damages.

If all parts are free of wear and damages, the Green Pin® ROV Guided Pin Shackle can be reassembled.

Reassembly of Green Pin® ROV Guided Pin Shackles

1. Mount shackle pin (2) into the guide tube (4).
2. Mount leveling point (5) into the slot of guide tube (4) so that the thread hole of the leveling point (5) is aligned with the hole in the guide tube (4).
3. Mount the countersunk bolt DIN 603 (12) with Nord-Lock washer (13)*.
4. Check if the system is working correctly after reassembling.

The leveling point must be assembled onto the guide tube to prevent the shackle pin from falling out of the guide tube completely.

*) For a good installation of Nord-Lock rings please follow the instructions of Nord-Lock.

Storage

The Green Pin® Guided Pin Shackles can best be stored in open position. Install the spring pin, with warning tag into the guide tube, to prevent losing this part. Slightly oil the shackle after rinsing with fresh water and drying will preserve the shackle and keeps it in good condition.

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Instructions for use

