A **VAN BEEST** BRAND



Instruction manual
Green Pin® Catch Shackle BN

REVISION 1.0

Green Pin® Catch Shackle BN

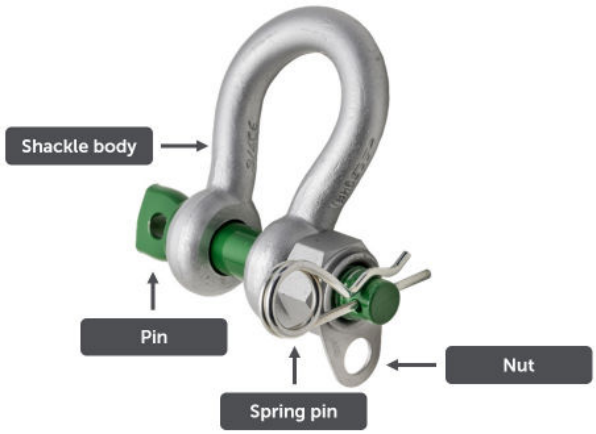
1. General

The Green Pin® Catch Shackle BN prevents the accidental dropping of the shackle components; shackle body, spring pin, nut, and bolt. Each component of this innovative shackle has an attachment point to connect it to a lanyard.

2. Technical details

Product code:	G-4163H
Material:	High tensile steel, Grade 6, quenched and tempered
Safety factor:	MBL equals 6 x WLL
Standard:	EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271, Type IVA, Class 3, Grade A and comply with ASME B30.26
Finish:	hot dipped galvanized
Temperature range:	-40°C up to +200°C (-40°F up to +392°F)
Certification:	2.1 2.2 3.1 MTC³ CE

3. How to prevent components from falling



To prevent the components from falling, connect a lanyard to:

- Nut
  The plate attached to the nut rotates freely. This ensures that the lanyard attached to it does not tangle up. This makes assembly and disassembly of the nut easier.
- Shackle body
- Bolt
- Spring pin

Attach the other end(s) of the lanyards to an anchoring point. Or link the nut, pin, and spring pin to the shackle body and link the shackle body to an anchoring point to prevent the assembly from falling.

Example:



Position nut

The nut must be installed as shown in the picture below.



If the nut is accidentally mounted the other way round, with the plate close to the shackle body, this does not provoke a safety hazard, but the plate might rotate less easily. See the below picture.





The threaded section of the shackle pin is long enough to guarantee full engagement with the threading of the nut in both situations.

In a regular lifting operation, the nut does not bear any load at all, it just keeps the shackle pin in place. To attach the components to an anchoring point, a standard lanyard with appropriate strength can be used. Many different styles and brands are available in the market that can be used for this purpose.

4. Instructions for use and periodical inspection

Select the correct WLL of the Green Pin® Catch Shackle BN for your application. If extreme circumstances or shock loading may occur, this must be taken into account when selecting the correct shackle size.

The Green Pin® Catch Shackle BN should be inspected before use and during your periodical inspections to ensure that:

- the lanyards are connected to the appropriate components, to prevent them from falling;
- all markings are legible;
- the body and pin are both of the same brand and type;
- the body and pin are both of the correct size;
- never use a Green Pin® Catch Shackle BN without a securing pin;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the threads of the pin and the body are undamaged;
- the body and the pin are not distorted or unduly worn;
- the body and pin are free from nicks, gouges, cracks, and corrosion;
- shackles may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a shackle by machining, welding, heating, or bending as this will affect the WLL;
- the plate on the nut needs to rotate freely. This makes the assembly and disassembly of the nut easier.

5. Inspection

The Green Pin® Catch Shackle BN must be regularly inspected 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 more frequently when the shackles are used in severe operating conditions.

SHACKLES AT 300 FEET?
HERE IS OUR CATCH.

- Prevents accidental dropping of shackle components
- All components can be tethered
- Reduces number of injuries and deaths
- For all types of tethering methods
- Co-developed with DROPS-organization



greenpin.com

VAN BEEST B.V.
Head Office
Industrieweg 6
3361 HJ Sliedrecht
The Netherlands
Telephone +31 184 41 33 00
E-mail sales@vanbeest.eu

VAN BEEST GmbH
Märkische Straße 115/117
44141 Dortmund
Germany
Telephone +49 231 58 44 230
E-mail sales@vanbeest.eu

VAN BEEST FRANCE S.A.S.
1 impasse du Patureau de Jalonne
63250 Celles sur Durolle
France
Telephone +33 (0)4 73 51 89 51
E-mail sales@vanbeest.eu

VAN BEEST USA, L.L.C.
US main office
5615 W. Fuqua, Building B
Houston, TX 77085
United States

Chicago office
158 South Pinnacle Drive
Romeoville, IL 60446
United States

Telephone +1 713 674 57 53
E-mail sales.us@vanbeest.com

VAN BEEST DO BRASIL
Rua Alexandre Dumas, 1711, 5th Floor
Chácara Santo Antônio,
04717-004 Sao Paulo-SP Brazil
Telephone +55 (11) 2599 8364
E-mail vendas@vanbeest.com.br