

GREEN PIN[®] ROV SHACKLES

DESIGNED FOR TOTAL CONTROL



Green Pin® ROV Shackles

Total control for the ROV pilot and engineer

Working with Remotely Operated Vehicles (ROV) at great depths presents a range of unique challenges. The entire range of Green Pin® ROV Shackles has been specially designed for subsea applications, offering ROV pilots and engineers maximum control during lifting operations where a load is released or retrieved. Assembly and disassembly of the shackle is fast and easy with the help of locking systems that are intuitive to use from a distance. The white coating of the shackle bodies also optimizes under water visibility. What's more, intuitive use translates into greater control and enhanced safety.

Complete range developed specifically for subsea applications

Green Pin® offers three types of ROV release shackles and two types of combined release & retrieve shackles. Showpieces in this range are the Green Pin® Guided Pin ROV Shackle and the Green Pin® Locking Clamp ROV Shackle. ROV release shackles are available with spring pins, locking clamps or spring loading.

All shackle bodies are finished with a white coating for optimized visibility in poor light conditions. Furthermore, the pins are finished in the instantly recognizable and characteristic 'Green Pin®' colour. **Green Pin® ROV Shackles: total control, smooth operation and greater safety.**

Please find the animation videos and user manuals on www.greenpin.com



GREEN PIN® GUIDED PIN ROV SHACKLE

**Release & retrieve ROV shackle
(grade 8) with guiding tube**

- 100% straight alignment of shackle pin towards shackle eyes
- Lifting eye on tube helps to balance the shackle
- Optimal safety: locking system prevents loose shackle pin
- Available with D-Handle (shown) or Fishtail Handle
- Suitable for both inline- and side loading



GREEN PIN® LOCKING CLAMP ROV SHACKLE

**Release ROV shackle
(grade 8) with locking clamp**

- Powerful locking system prevents unintentional load release
- Locking system is easy to handle for the ROV pilot
- Secured pin may rotate freely, avoiding unintended clamp unlocking or stuck wire ropes
- LEEA Award winning product
- Suitable for both inline- and side loading



GREEN PIN® TAPERED PIN ROV SHACKLE

**Release & retrieve ROV shackle
(grade 8) with tapered pin**

- Tapered pin for easy underwater assembly
- Easy and safe manipulation of handles by ROV arm
- Pin contains groove to attach it to shackle body with wires
- Available with Fishtail Handle (shown) or D-Handle
- Suitable for both inline- and side loading



GREEN PIN® SPRING PIN ROV SHACKLE

**Release ROV shackle (grade 8)
with spring pins**

- Two spring pins ensure additional safety
- Attach pin to shackle body with wire through groove on pin head



GREEN PIN® SPRING RELEASE ROV SHACKLE

**Release ROV shackle (grade 8)
with spring**

- Single pull release system
- Optional double safety prevents accidental load release
- Faster disassembly of shackles underwater
- Special compression tool (sold separately) is required to assemble the shackle for sizes WLL 42.5t and up

Green Pin® ROV Shackles product types and attributes

	Green Pin® Guided Pin ROV Shackle	Green Pin® Locking Clamp ROV Shackle	Green Pin® Tapered Pin ROV Shackle	Green Pin® Spring Pin ROV Shackle	Green Pin® Spring Release ROV Shackle
Release	✓	✓	✓	✓	✓
Retrieve	✓		✓		
D-handle	✓		✓		
Fishtail handle	✓		✓		
Pin manipulation: rotation	✓		✓		
Pin manipulation: pushing/pulling		✓		✓	✓
In-line loading	✓	✓	✓	✓	✓
Side loading	✓	✓	✓		
Semi-automatic					✓
Polar quality	✓	✓	✓	✓	✓
Temperature range	-60°C - 200°C -76°F - 392°F	-60°C - 200°C -76°F - 392°F	-60°C - 200°C -76°F - 392°F	-60°C - 200°C -76°F - 392°F	-40°C - 200°C -40°F - 392°F
WLL range	12 - 55 tonnes	6.5 - 250 tonnes	6.5 - 55 tonnes	6.5 - 85 tonnes	12 - 150 tonnes



Total control, smooth operation and greater safety

- ✓ Full range of premium quality ROV shackles
- ✓ Developed specifically for subsea applications
- ✓ Different designs for release and retrieve operations
- ✓ White coating optimizes visibility under water
- ✓ Innovative and powerful locking systems
- ✓ Different handle-designs, specially designed for ROV arms



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GREEN TO GO

