

Rocksteady® quick connect lifting tool



Secure offshore lifts in seconds

The Rocksteady® quick connect lifting tool delivers rapid, secure and repeatable connections for lifting offshore and subsea infrastructure.

Designed to reduce vessel time and manual handling, this offshore lifting tool enables safer operations and shorter lift cycles in demanding offshore environments.

- **Save time**
Use a single tool for all lifting operations to avoid repetitive and time-consuming rigging operations. Rocksteady uses standard lifting interfaces, so you maintain complete control and flexibility.
- **Easy to operate**
Long range handheld remote control, crane cabin integration or direct hydraulic operation; the Rocksteady® lift tool will be a seamless addition to your lifting operations.
- **Tough and reliable**
Rocksteady® is a field proven design ready for rough handling, wear and tear. The lock function can be easily inspected and maintained offshore; and you have manual override in the event of hydraulic supply issues.
- **Safe as a shackle**
Quality manufacture from forged products with load transferred under machined shoulders. Rocksteady is designed and delivered to offshore lifting regulations, with individual load test and 100% NDT. Rocksteady® has tested redundant barriers against releasing while loaded; and features clear visual indication of lock/unlock status to provide a quick reference to all personnel that a lift is safe to proceed.
- **Bending tolerant**
The certified capacity includes a 5° offset angle to give you maximum confidence in dynamic lifting applications. Higher lift angles, lateral loading, free-rotation and azimuth locking can also be accommodated.

Standard product range

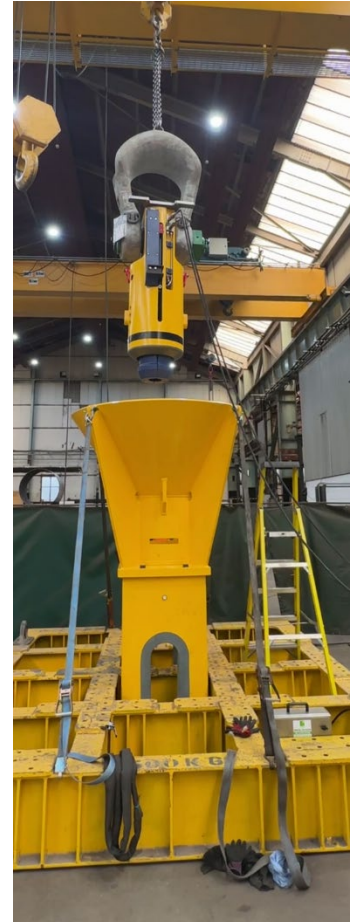
Specification	Value							
Safe Working Load (SWL, t)	500	1000	1500	2000	2500	3000	3500	4000
Dynamic Amp. Factor (DAF)	1.2	1.2	1.15	1.15	1.15	1.1	1.1	1.1
Dynamic Load Rating (DLR, t)	600	1200	1725	2300	2875	3300	3850	4400
Proof load (t)	630	1240	1850	2460	3070	3680	4290	4900
Minimum Break Load (MBL, t)	2400	4800	6900	9200	11500	13200	15400	17600
Weight (kg)	910	2530	4370	6600	9230	11380	14360	17620
Diameter (mm)	480	675	810	930	1040	1115	1205	1290

Values are in metric tonnes, where indicated. DLR is with 5° sling angle applied at top of shackle, fixed plane.



General specifications

Specification	Value
Description	Rocksteady heavy offshore lift tool, built-in HPU with remote control as standard. Optionally direct hydraulic operation from crane hydraulic service or dedicated hose reel and deck HPU.
Design & manufacture	• DNVGL-ST-0378 - Standard for offshore and platform lifting appliances • Proof load, volumetric and surface NDT, 3.2 certs, CE marking • Forged and machined low alloy steel load path components, no welds or threads in load path
Applications	• Offshore wind MP & TP lifting tools • Hammers, drilling and piling equipment • Crane shock absorbing devices • Oil & gas decommissioning lifts • Marine riser installation and retrieval
Control	• Radio remote control with offshore certified belly unit with duplex communications for live status, lock position and battery • 100 m line of sight, with option for crane boom repeater units for 300 m range • Option / contingency: direct hydraulic via hoses • Subsea: acoustic remote control and ROV hot stab
Tested and designed performance	• Fail-safe mechanical interlock prevents disconnect while loaded • Offset and 15° angled connection • High speed impact (3 m/s) • Connect / disconnect endurance (no galling, no wear)
Safety against release while loaded	• Mechanically impossible to release when loaded • Lock sensing with redundant position and end stop sensors • Operator lock verification via daylight bright alarm beacons on the tool and on radio remote control unit • Fail in position actuator (POCV) • Safety relay isolation of HPU
Receptacle options	• Padeye (shackle interface) • Clevis or trunnions for slings • Fixed / integrated via bolted flange, welded or machined into payload • Self-righting receptacle with free-stroke • Telescoping for hammer/crane isolation



Technical specifications

Specification	Value
Hydraulics	- Linear hydraulic cylinder, typ. <60s to lock / unlock. - NOP 100 bar, MWP 230 bar - Offshore biodegradable hydraulic fluid
Working life	10 years, 4,000 vertical lifts at SWL
Operating temperature	-10°C to 45°C
Coating	3-layer epoxy external faces - Retouchable zinc rich primer only on loaded surfaces (e.g. shackle pin hole) - Actuating components: PTFE plus grease
Depth rating	0 m - Submersible as an option
Lights & camera	- Switchable from remote control 2 x LED spotlight units each min. 1500 lumens - Base case: Camera feed on belly unit - Option: Integrated with client vessel's IP camera / CCTV system
Battery life	- Based on 10 lifts (lock / unlock cycles) per day, with camera and lights: - RSL2000 and above: 6 days - RSL1500 and below: 3 days 70 A, full charge typ. 4 hours - Recharge 20% in 30 minutes (for up to 2 days operation) - Charging rate may be reduced in low / high temperatures.

