decklash™
lashing system for deck cargo
Checkmate is a unique, privately owned and dynamic business with a proud history which has now established itself as a leader in its chosen fields.

Well into its fourth decade Checkmate is still very much a family business with four key trading divisions; Safety, Lifting, Flexible Engineering and Energy.

Our entrepreneurial style of management allows each business to run as a stand alone entity but it has the support, security and depth of the entire Checkmate Group. This culture inspires smart thinking, pride and value within our team.

Whether you are a new customer or longstanding partner Checkmate welcomes you to the next generation.

- **SAFETY**
  From the ground up Checkmate is built around a “SAFE” ethos, from conception of design, our business culture and ultimate user safety.

- **INNOVATION**
  Our values are simple; DON’T duplicate - Innovate; ask the right questions; think outside the box; never believe a solution can’t be found and never stop learning.

- **CAPABILITIES**
  Our capabilities result from a powerful combination of technical knowledge, attitude, experience and determination. Ranging from design, testing, manufacturing, installation, training and consultation.

- **SERVICE**
  Providing excellent service to our customers is the driving force behind what we do at Checkmate. We supply technically innovative, cost effective products derived from knowledge and experience.

- **CUSTOMERS**
  Our growth and continued development has only been made possible by the outstanding commitment and loyalty of our customers. This co-operation has led to several long term partnerships being developed both in the UK and around the World.

- **QUALITY**
  In addition to ISO 9001:2008, ABS, Lloyds Register and LEEA we have our own in house test facilities which are used extensively in product and material development.
Why decklash

• In today’s fast moving charter market port-stay time is lost revenue.
• Extra weight is reduced capacity and increased labour.
• During normal transit deck cargos shift and in extreme conditions may need to be jettisoned.
• At present there is NO safe way to release a dangerous cargo without risking life, especially in heavy seas.
• Conventional chain systems damage cargo.

The decklash system

The Checkmate decklash system is a revolutionary new product. Designed specifically for large deck cargo’s, the system utilises a unique double barrel winch for increased take up. High grade carbon steel that will not suffer fatigue from continuous loading or thermal change and Polyester webbing that has been structured to withstand heavy wear and abrasion whilst giving very low extension rates. Nominal > 5%.

This results in a class leading tough and durable product. Holding ABS classification. Independently tested to exceed both I.M.O A.715(17) and TP2534.

Damage caused by traditional methods of lashings are potential claims.

Principal Features

• 15t MBL
• Double Barrel Take-Up
• 4m Capacity on drums
• 36mm Socket dives
• Heavy Stainless Springs
• Rapid tensioning via ratchet handle
• Kick release for fast discharge
• PU coated Polyester webbing
• Low stretch webbing Nominal > 5%
• Light weight 14kg and portable

Complies with I.M.O A.715(17) and TP2534.
Testing

To meet the testing requirements laid down under I.M.O A.715(17) and TP2534. The decklash system must have a min breaking load of 13.6MT. The decklash has pushed the boundaries further and sets a new bench mark at 15MT. The system showed no signs of deformation or webbing damage.

In addition the specially designed Polyester webbing has been abrasion tested to verify its wear properties and durability.
decklash at work

After extensive sea trials and thorough commercial evaluation of the decklash system, it has proven to be the lashing system of choice for some of the World’s premier deck cargo carriers.

During the evaluation phase stevedores reported up to a 40% saving in port-stay time and found the equipment to be lighter, safer and more user friendly than traditional chain systems.

The only Type Approved webbing decklashing in the World.
Installing decklash

1 USAGE
The Checkmate Decklash is a device used to restrain deck cargo when used onboard ocean going vessels. To ensure correct operation, the units should be evenly distributed along the length of the load at a distance that takes into account the weight and type of cargo, reference must be made to the vessel’s cargo securing manual. The Decklash unit is tensioned by simply rotating the shaft, and quick released by hitting the release lever as described below.

2 SAFETY
When tensioning or releasing the Decklash unit care must be taken to keep hands away from all moving parts. The ratchet lever may cause a trapping or pinching hazard, therefore hands must be kept clear from this area when tightening the Decklash.

3 OPERATION
For the operation of the Decklash it is necessary to load and tension the webbing using the procedure set out below. This is to ensure that the required tension can be achieved with the minimum effort from the operator. Figure 1 details the different components of the Decklash which are used in the tightening process.

3.1 Positioning
The Decklash must be positioned on top of a deck load, with the webbing laying at 90 degrees to the direction of the load, as shown in Figure 2. The webbing must pull in line with the Decklash unit with no twists. Position the Decklash over the centre of the deck cargo, spaced evenly between each side. Throughout the tightening process aim to keep the Decklash positioned towards the centre of the load as much as possible.

3.2 Inserting Webbing
The deck terminations of the webbing must be secured at a certified anchorage point and brought up the sides and across the top of the cargo. Care must be taken to ensure the webbing is not twisted at any point along its length. Consider the two shafts as shaft one and shaft two. Do not touch the release handles during the tightening process.

1. Feed webbing over the cross bolt then up through the slot in the shaft as far as possible. Lay the excess webbing back along its length, and pull ALL the slack or loose material through the slot in the shaft. Do this for both shafts. Figure 2 shows the Decklash with taut webbing on the left and slack webbing on the right. The webbing must be taut on both sides before proceeding to the next step.

Figure 2: Pull slack webbing through both shafts

2. Use ratchet to tighten either shaft by 1½ turns, this is now shaft one.

3. Take up any slack webbing through the slot in other shaft, which is now shaft two. tighten.
4. Fit both ratchets to shaft two, see Figure 3, and ensure the ratchet direction lever is set so both ratchets will tighten the webbing.

Figure 3: Tighten with ratchets

5. Tighten the Decklash using the ratchet levers provided, therefore loading shaft two with webbing. If more than 2½ turns can be made by hand then the webbing should be released and pulled through the shaft slot by hand to take up the slack material, as in step 1.

6. To create the tension required for sea passage, fit both ratchets to shaft one, check that ratchet levers are set to tighten.

7. Align handles to each other, at approximately 45° to the horizontal.

8. Slide large handle assembly over end of both ratchets down to the ratchet head, as shown in Figure 4.

9. Create full tension on the Decklash by pulling down on large handle to obtain at least two notches on the Decklash ratchet, and more if possible. Do not touch the release lever during the tightening process.

10. Remove the large handle first by sliding off of the ratchets, then remove the ratchets.

11. Once the above procedure has been completed on all Decklash units, return the handle and ratchets to the designated area for storage.

3.3 Re-Tensioning
During passage the deckload may shrink and settle, and require re-tensioning of the Decklash units to ensure the cargo is properly restrained. To re-tension the device, take up any slack webbing with the ratchets on shaft two, the shaft with the larger number of turns of webbing. Load the ratchets and large handle onto shaft one, as in steps 6 to 8, Figure 4, and tighten by two notches. Remove large handle and ratchets and store in the designated area.

3.4 Releasing
To release the Decklash use a heavy hammer and hit the release lever as shown in Figure 5. Due to shifting of the load and the tension in the webbing a heavy hit may be required to release the ratchet. Keep feet clear of the Decklash unit while this is done. Do not use more than one handle to release the tension. Once the initial tension is released, hold the release lever in the open position and pull out the webbing to unwind it from the shaft, as shown in Figure 6. Repeat on other shaft to completely remove the webbing from the unit. Release webbing from one shaft at a time.

4 MAINTENANCE
The Decklash unit must be washed with fresh water before storage under deck. This is to remove any salt contamination. Following this every unit must be sprayed with a lubricant spray, such as light oil or white grease, to protect the unit during storage. Each unit must be inspected by hand before each use, to ensure that all nuts are in place and not loose.

5 STORAGE
The Decklash unit must be stored in the maintenance room, or appropriate container, when not in use, in an area free from loose dirt and water.