

EXAMINATION CHECKLISTS

It is important to ensure that regular examinations and inspections of lifting gear are undertaken to ensure that equipment is maintained and can continue to be safely used.

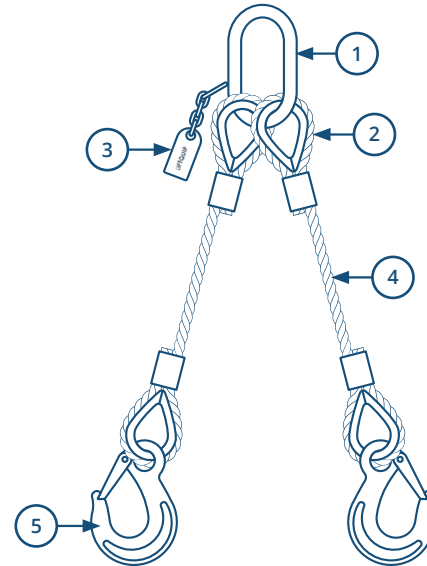
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LIFTQUIP
TECHNICAL LIFTING SOLUTIONS



WIRE ROPE SLING EXAMINATION CHECKLIST

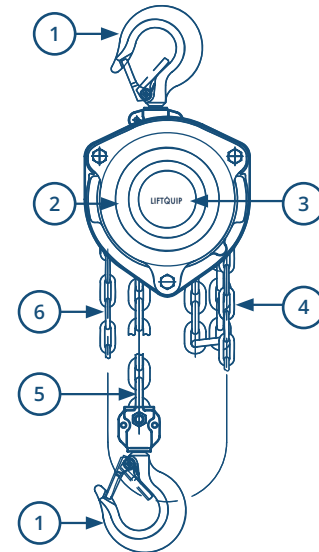
- 1 Check Master Link**
Corrosion, cracks, damage, distortion, elongation, wear, deposits that cannot be removed, security of attachment points and sub-structures, fasteners, welds, sufficient articulation of and space between joining components, etc.
- 2 Check Joining link(s) or Intermediate Master Link(s) or Eye Termination**
Corrosion, cracks, damage, distortion, indentations, elongation, wear, deposits that cannot be removed, security of attachment points and sub-structures, fasteners, welds, link articulation, gauge length, adequacy of lubrication, eye symmetry, broken wires, dead end termination, etc.
- 3 Check Markings**
Presence, accuracy and condition of markings.
- 4 Check Wire Rope**
Kinks, exposure of inner core, flattening, corrosion, broken wires/strands, adequacy of lubrication, etc.
- 5 Check End Termination**
Corrosion, cracks, damage, distortion, opening, of the throat, wear, deposits that cannot be removed, security of attachment points and sub-structures, fasteners, welds, full or partial seizure of rotating components, safety latches, etc.



CHAIN BLOCK EXAMINATION CHECKLIST

- 1 Check Hooks, Suspension and Load**
Corrosion, cracks, damage, distortion, throat opening, security of attachment points and sub-structure, fasteners, welds, safety latches, full or partial seizure of rotating components, etc.
- 2 Check Block Body**
Corrosion, cracks, damage, distortion, wear, security of attachment and sub-structures, fasteners, welds, etc.
- 3 Check Markings**
Presence, accuracy and condition of markings.
- 4 Check Dead End Anchorage & Slack Chain End Stop**
Corrosion, cracks, damage, distortion, elongation, wear, unremovable deposit, security of attachment points and sub-structures.
- 5 Check Load Chain**
Corrosion, damage, distortion, elongation, wear, deposits that cannot be removed, links articulate freely, increase in gauge length, interlink wear, adequacy of lubrication and security of attachment points.
- 6 Check Hand Chain**
Corrosions, cracks, damage, distortion, elongation, wear deposits that cannot be remove and links articulate freely.

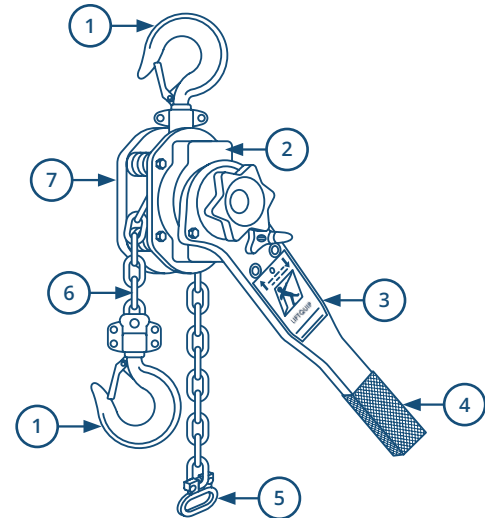
- 7 Check Hoist Mechanism (Internal)**
Brake, pinions, gearbox and bearings; e.g. alignment, corrosion, crack, damage, distortion, wear, adequacy of lubrication, mode of operation, full or partial seizure of rotating components, chain feed smoothly into and away from the load wheel, functionality and mode of operation.



LEVER HOIST EXAMINATION CHECKLIST

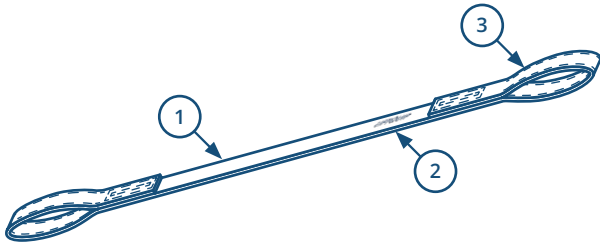
- 1 Check Hooks, Suspension and Load**
Corrosion, cracks, damage, distortion, throat opening, security of attachment points and sub-structure, fasteners, welds, safety latches, full or partial seizure of rotating components, etc.
- 2 Check Hoist Body**
Corrosion, cracks, damage, distortion, wear, security of attachment and sub-structures, fasteners, welds, etc.
- 3 Check Markings**
Presence, accuracy and condition.
- 4 Check Operating Lever**
Corrosion, cracks, damage, distortion, full or partial seizure of rotating components and adequacy of lubrication.
- 5 Check Dead End Anchorage & Slack Chain End Stop**
Corrosion, cracks, damage, distortion, elongation, wear, unremovable deposit, security of attachment and sub-structures.
- 6 Check Load Chain**
Corrosion, cracks, damage, distortion, elongation, wear, deposits that cannot be removed, links articulate freely, increase in gauge length, interlink wear, adequacy of lubrication and security attachment points.

- 7 Check Hoist Mechanism**
Brake, pinions, gearbox and bearings; e.g. alignment, corrosion, crack, damage, distortion, wear, adequacy of lubrication, mode of operation, full or partial seizure of rotating components, chain feeds smoothly into and away from the load wheel, functionality and mode of operation.



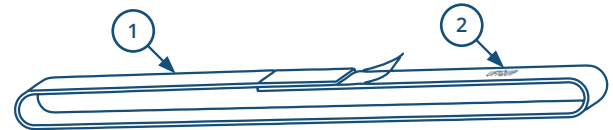
FLAT SLING EXAMINATION CHECKLIST

- 1 Check Webbing**
Damage, tears, cuts, abrasions, friction burns, heat damage, chemical attack, U.V. degradation, heat damage, soiling, mildew, broken or worn stitching in load-bearing splices, knots in any part of the sling.
- 2 Check Markings**
Presence, accuracy and condition of markings.
- 3 Check End Eyes (where applicable)**
Damage, tears, cuts, abrasions, friction burns, heat damage, chemical attack, U.V. degradation, heat damage, soiling, mildew, broken or worn stitching in load-bearing splices.



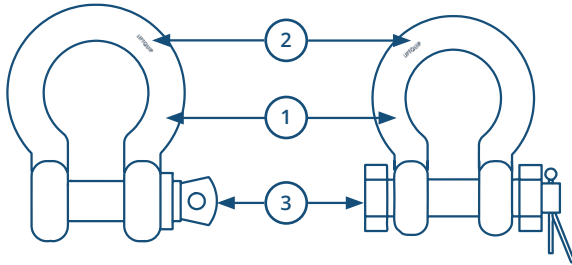
ROUND SLING EXAMINATION CHECKLIST

- 1 Check Outer Sleeve**
Damage, tears, cuts, holes, abrasions, friction burns, heat damage, chemical attack, U.V. degradation, integrity of stitching, excessive soiling, etc.
- 2 Check Markings**
Presence, accuracy and condition of markings.



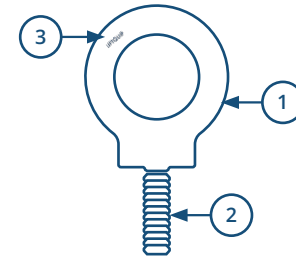
SHACKLE EXAMINATION CHECKLIST

- 1 Check Body**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, thread form, deposits that cannot be removed, etc.
- 2 Check Markings**
Presence, accuracy and condition of markings.
- 3 Check Pin, Nut, and Cotter (where applicable)**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, thread form, deposits that cannot be removed, etc.



EYEBOLT / LIFTING POINT EXAMINATION CHECKLIST

- 1 Check Body**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, thread form, deposits that cannot be removed, etc.
- 2 Check Thread**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, concentricity, thread form, deposits that cannot be removed, etc.
- 3 Check Markings**
Presence, accuracy and condition of markings.
- 4 Check Link where applicable**
Corrosion, cracks, damage, distortion, opening of the throat, wear, security of attachment points and sub-structures, fasteners, welds, articulation, etc

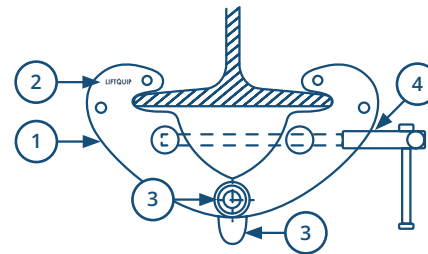


GIRDER TROLLEY EXAMINATION CHECKLIST

- 1 Check Trolley Structure/Buffers and End Stops**
Corrosion, cracks, damages, distortion, wear, security of attachment point and sub-structures, fasteners, welds, components, etc.
- 2 Check Travel Drive Wheels**
Alignment, corrosion, cracks, damage, distortion, wear, adequacy of lubrication, functionality and mode of operation, full or partial seizure of rotating components.
- 3 Check Marking**
Presence, accuracy and condition.
- 4 Check Hand Chain**
Corrosion, cracks, damage, distortion, elongation, wear, deposits that cannot be removed, link articulation, etc.
- 5 Check Safety Devices**
Functionality and mode of operations, corrosion, cracks, damage, distortion, wear, security of attachment points and sub-structure, fasteners, welds, etc.
- 6 Check Load Suspension Point**
Corrosion, cracks, damage, distortion, throat opening, wear, security of attachment points, and substructures, fasteners, welds, etc.

BEAM CLAMP EXAMINATION CHECKLIST

- 1 Check Beam Clamp Structure**
Corrosion, cracks, damage, distortion, wear, security of attachment points and sub-structures, fasteners, welds, components, etc.
- 2 Check Marking**
Presence, accuracy and condition of markings.
- 3 Check Load Suspension Point**
Corrosion, cracks, damage, distortion, throat, opening, wear, security of attachment points and substructures, fasteners, welds, full or partial seizure of rotating components, safety latches, etc.
- 4 Check Operating Mechanism (where applicable)**
Corrosion, cracks, thread, damage, distortion, elongation, wear, full and partial seizure of rotating components.



MAGNETIC LIFTER EXAMINATION CHECKLIST

- 1 Check Suspension Point**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 2 Check Magnet / Housing**
Corrosion, cracks, damage, distortion, wear, etc.
- 3 Check Operating Lever (where applicable)**
Corrosion, cracks, damage, distortion, wear, full or partial seizure of rotating components, adequacy of lubrication, etc.
- 4 Check Markings**
Presence, accuracy and condition of markings.
- 5 Check Electrical Control Panel & Wiring (where applicable)**
Functionality and mode of operation, insulation, continuity, etc
- 6 Check Power Feed System / Batteries (where applicable)**
Security of electrical connections, functionality and mode of operation, condition, leaks, ability to hold charge, insulation, continuity, etc.

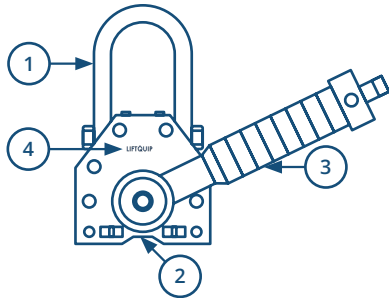
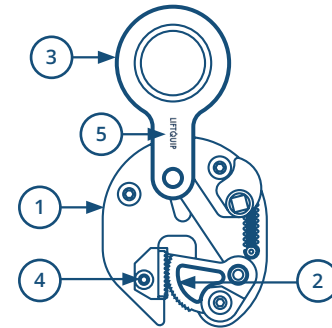


PLATE CLAMP EXAMINATION CHECKLIST

- 1 Check Main Body**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 2 Check Jaws**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 3 Check Suspension Point**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 4 Check Clamping Mechanism**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, adequacy of lubrication, functionality and mode of operation, full or partial seizure of rotating components.
- 5 Check Marking**
Presence, accuracy and condition of markings.



VACUUM LIFTER EXAMINATION CHECKLIST

- 1 Check Suspension Point, Pads, frame and connection plates**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 2 Check Vacuum System**
Functionality and mode of operation, security of hoses, leaks
- 3 Check Safety devices, gauges, warning devices, non-return valves, etc**
Functionality and mode of operation.
- 4 Check Slewing, tilting, sliding, etc. devices**
Corrosion, cracks, damage, distortion, wear, adequacy of lubrication, functionality and mode of operation, full or partial seizure of rotating components.
- 5 Check Marking**
Presence, accuracy and condition of markings.
- 6 Check Power feed system, air supply, electrical supply, battery (where applicable)**
Security of electrical connections, functionality and mode of operation, condition, leaks maintains charge, insulation, continuity, security of hose connections, etc.

DRUM LIFTER EXAMINATION CHECKLIST

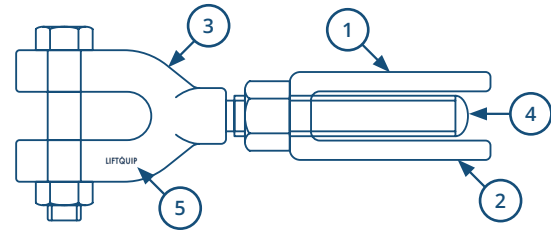
- 1 Check Grab Structure**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 2 Check Clamping Pads**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 3 Check Suspension Point**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 4 Check Pivot Pins and Bushes/Bearings**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, adequacy of lubrication, functionality and mode of operation, full or partial seizure of rotating components.
- 5 Check Marking**
Presence, accuracy and condition of markings.

CREEPER WINCH EXAMINATION CHECKLIST

- 1 Check Hooks, Suspension and Load**
Corrosions, cracks, damage, distortion, throat opening, security of attachment points and sub-structures, fasteners, welds, full or partial seizure of rotating components, safety latches, etc.
- 2 Check Operating Levers**
Corrosion, cracks, damage, distortion, wear, full/partial seizure of rotating components, adequacy of lubrication, etc.
- 3 Check Markings**
Presence, accuracy and condition.
- 4 Check Winch Body**
Corrosion, cracks, damage, distortion, wear, security of attachment points and sub-structures, fasteners, welds, etc.
- 5 Check Winch Mechanism**
Alignment, corrosion, cracks, damage, distortion, wear, adequacy of lubrication, leaks, functionality and mode of operation, full or partial seizure of rotating components, wire rope feeds smoothly into and away from the winch rope guides, etc
- 6 Check Wire Rope(s)**
Corrosion, cracks, damage, wear, kinks, broken wires, adequacy of lubrication, rope fit, specification and condition, wire rope feeds smoothly into and away from winch rope guides, security of attachment points and substructures, fastener, welds, etc.

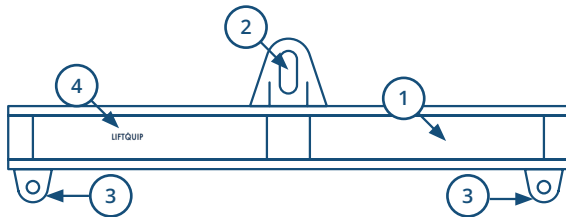
RIGGING SCREW & TURNBUCKLE EXAMINATION CHECKLIST

- 1 Check Body**
Wear, distortion, damage, excessive nicks or gouges, cracks and thread form.
- 2 Reduction in Size**
A 10% reduction of the original or dimension at any point
- 3 Check Pin/Jaw or Eye Terminations**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, thread form, pin, etc
- 4 Check Screw Thread and Nut**
Wear, distortion, damage, gouges, cracks, corrosion, etc..
- 5 Check Marking**
Presence, accuracy and condition of markings.
- 6 Modification**
Evidence of unauthorized welding or modification



LIFTING & SPREADER BEAM EXAMINATION CHECKLIST

- 1 Check Main Body**
Wear, distortion, damage, nicks, gouges, cracks, corrosion.
- 2 Check Suspension Points**
Wear, distortion, damage, nicks, gouges, cracks, corrosion.
- 3 Check Attachment Points**
Wear, distortion, damage, nicks, gouges, cracks, corrosion.
- 4 Check Marking**
Presence, accuracy and condition of markings.
- 5 Check Shackles, Slings & Attachments (where applicable)**
Security of the fittings, refer to applicable section.
- 6 Check Slewing, Tilting, Sliding devices (where applicable)**
Corrosion, cracks, damage, distortion, wear, functionality and mode of operation, adequacy of lubrication, full or partial seizure of rotating components, etc.



CRANE CAGE / WORK BOX EXAMINATION CHECKLIST

- 1 Check Crane Cage Structure**
Wear, distortion, damage, nicks, gouges, cracks, corrosion etc.
- 2 Check Lifting Points and Fork Pockets**
Straightness, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 3 Check Marking**
Presence, accuracy and condition of markings.
- 4 Check Anchor Points**
Wear, distortion, damage, nicks, gouges, cracks, corrosion, etc.
- 5 Check Self-Closing mechanism on door (where applicable)**
Corrosion, cracks, damage, distortion, wear, adequacy of lubrication, mode of operation, functionality and locking.

ELECTRIC HOISTS / WINCH EXAMINATION CHECKLIST

- 1 Check Hooks, Suspension and Load**

Corrosion, cracks, damage, distortion, throat opening, security of attachment points and sub-structures, fasteners, welds, full and partial seizure of rotating components, safety latches, etc.
- 2 Check Structure**

Corrosion, cracks, damage, distortion, wear, security of attachment points and sub-structures, fasteners, welds.
- 3 Check Markings**

Presence, accuracy and condition.
- 4 Check Mechanism**

Including motor, brake, couplings, gearbox, drum, chain, wheel and bearings Alignment, corrosion, cracks, damage, distortion, wear, adequacy of lubrication, functionality and mode of operation, full or partial seizure of rotating components, lifting media fit (i.e rope, chain, etc.).
- 5 Check Electrical Control Panel and Wiring**

Functionality and mode of operation, insulation, continuity, security of electrical connections.
- 6 Check Operator Controls**

Functionality and mode of operation, insulation, continuity, security of connections, cracks, damage, distortion and wear.
- 7 Check Wire Rope(s) / Chain(s), terminations and anchorages, guides, sheaves/pins, bearings, bottom block and hooks**

Wire ropes: corrosion, cracks damage, distortion, wear, kinks, broken wires, adequacy of lubrication, rope fit, reeving, specification and condition, Chain: Corrosion, cracks, damage, distortion, elongation, wear and deposits that cannot be removed, links articulate freely, increase in gauge length, interlink wear. Terminations and anchorages: full or partial seizure of rotating components, safety latches, security of attachment points and sub-structures, fasteners, welds, anchorages, etc.
- 8 Check Power feed system / electric / pneumatic/ hydraulic system**

Functionality and mode of operation, security of hose / wire connections, where applicable, leaks, etc
- 9 Check Lifting Media (wire rope, chain, etc.)**

Corrosion, cracks, damage, distortion, wear, kinks, broken wires, lubrication, fit, reeving, specification and condition, full or partial seizure of rotating components, safety latches, security of attachment points and sub-structures, fasteners, welds, etc.
- 10 Check RCI / RCL devices**

Functionality and mode of operation, calibration, etc.

ELECTRIC OVERHEAD CRANE EXAMINATION CHECKLIST

- 1 Check End carriage assemblies and structures**
Alignment, corrosion, cracks, damage, wear, security of attachment points and sub-structures, fasteners, welds, etc.
- 2 Check Long travel brakes, drives, wheels, bearings and axles**
Alignment, corrosion, cracks, damage, distortion, wear, adequacy of lubrication, mode of operation, full or partial seizure of rotating components, etc.
- 3 Check Bridge Beams**
Alignment, deflection, corrosion, cracks, damage, distortion, wear, security of attachment points and sub-structures, fasteners, welds, etc.
- 4 Check Crab assembly and structure**
Alignment, corrosion, cracks, damage, distortion, wear, security of attachment points and sub-structures.
- 5 Check Cross travel brakes, drives, wheels, bearings and axles**
Alignment, corrosion, cracks, damage, distortion, wear, adequacy of lubrication, mode of operation, full or partial seizure of rotating components, etc.
- 6 Check Hoist Mechanism including motor, brake, couplings, gearbox, drum and bearings**
Alignment, corrosion, cracks, distortion, wear, lubrication, mode of operation, full or partial seizure of rotating components, lifting media connection.
- 7 Check Lifting Media (wire rope, chain, etc.)**
Corrosion, cracks, damage, distortion, wear, kinks, broken wires, lubrication, fit, reeving, specification and condition, full or partial seizure of rotating components, safety latches, security of attachment points and sub-structures, fasteners, welds, etc.
- 8 Check Electrical Wiring and Control Panel**
Functionality, mode of operation, insulation, continuity, security of connections.
- 9 Check Operator Seating, Cab and Operator Controls**
Obstructions, tidiness, functionality and mode of operation, electrical connection, cracks, damage, distortion
- 10 Check Limit Switches**
Functionality, mode of operation and calibration.