LIFTING METHODS
MANUAL HANDY WINCH
ROUNDSLINGSLASHING TIE-DOWN SYSTEMSLASHER PURPOSE SLINGSAccessories
LEVER & CHAIN BLOCK

Unik-Wire Rope, a leading distributor of special high performance wire ropes in Singapore for:

- Tower Cranes, Self Erecting Cranes, High Anchored Cranes
- Telescopic Mobile Cranes
- Deck Cranes, Container Cranes
- Offshore Cranes, Steel Mill Cranes
- Drilling Cranes, Foundation Cranes
- Lattice Boom Cranes, Harbor Mobile Cranes
- Metric & Imperial Sizes
- Non-Rotating Ropes

Cert No: FS 59155
BE EN ISO 9001 : 2008

unikwire.com
WIRE ROPE & WEB SLING LEGGER METHODS

1 LEGGER

u-w1  

u-w4

u-w7

u-w2

u-w5

u-w8

u-w3

u-w6

u-w9

2 LEGGER

u-w10

u-w11

u-w12

u-w13

u-w14

4 LEGGER

u-w15

u-w16

u-w17

u-w18

u-w19

Offshore Container Sling

Web Sling 1 & 2 & 3 & 4 Legger

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The Multiple Leg Sling is basically two or more single leg slings connected by a common link at the lifting end. General Purpose Slings use regular wire rope for the body. The wire rope can be IPS, EIPS, or special high-strength rope such as EEIPS. Because of the Mechanical Splice, IWRC wire rope is preferred. Both 6 x 19 and 6 x 37 Classifications are commonly used.

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>ROPE DIAMETER (IN.)</th>
<th>LOOP SIZE (IN.)</th>
<th>MIN. LEG LENGTH (FT.)</th>
<th>TWO LEGS RATED CAPACITY (TONS)</th>
<th>THREE LEGS RATED CAPACITY (TONS)</th>
<th>FOUR LEGS RATED CAPACITY (TONS)</th>
<th>ROPE DIAMETER (IN.)</th>
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<td>129.0</td>
<td>116.0</td>
<td>95.0</td>
<td>-</td>
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NOTE: The leg angle of Multiple Leg Slings is measured from the horizontal. General Purpose Slings illustrated are typical applications. Other fittings can be used to customize a sling to your specific requirement.
Terminations
Hand spliced or machine swaged slings, with your choice of terminations, can be manufactured and tested (if required) on our premises at short notice. All slings and assemblies permanently marked with safe working loads, based on 5:1 factor of safety.

Machine Swaging:
Aluminium Ferrules Sizes 2mm -102mm
Copper Ferrules Sizes 1mm - 18mm
Steel Ferrules Sizes 6mm - 154mm
Swage Sockets Sizes 3mm - 52mm
Hand Splicing from 2mm - 76mm dia
Spelter Socket from 8mm - 154mm

Endless Slings
15 Double Ferrule Spliced
16 Multi 18-Braided Part Endless Grommets
17 Grommet Sling
WIRE ROPE SLINGS LIFTING METHODS

1. 60° max
2. 60° max
3. 60° max
4. 45° max
5. 60° max
6. 60° max
7. 60° max
8. 60° max
9. 60° max
10. 60° max
11. 60° max
12. 60° max
13. 60° max
14. 60° max

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- Roundslings are available up to 40 metres in circumference/uptil 40 tonnes SF-7
- Heavy duty webbing protection sleeves can be filled, either on the single or double part.

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### Roundslings

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<tr>
<th></th>
<th>STRAIGHT LIFT</th>
<th>CHOCKED LIFT</th>
<th>BASKET HITCH</th>
<th>2-LEGGED SLING</th>
<th>3/4-LEGGED SLING</th>
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<tr>
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<td>M = 0.8</td>
<td>parallel ≠</td>
<td>β = 0-45°</td>
<td>β = 0-45°</td>
<td>β = 0-45°</td>
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<tr>
<td></td>
<td></td>
<td>M* = 2.0</td>
<td>M* = 1.4</td>
<td>M* = 1.4</td>
<td>M* = 1.4</td>
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<tr>
<td></td>
<td></td>
<td>β = 46-60°</td>
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<td>β = 46-600</td>
<td>M* = 2.1</td>
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<tr>
<td></td>
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<td>β = 0-45°</td>
<td>M* = 1.0</td>
<td>β = 0-45°</td>
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<td>β = 46-60°</td>
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#### TYPE

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<th>KG</th>
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<td>20.000</td>
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Safety factor = 7:1 Available on Request.
**Type A**

1. Polyester Flat Woven Webbing Sling. 1 ply with Soft Eyes.
2. Polyester Flat Woven Webbing Sling. 2 ply with Soft Eyes.
3. Enless Polyester Flat Woven Webbing Sling. Enless 1 ply.
5. Polyester Flat Woven Webbing Sling. 1 ply with reevable steel end fittings.
6. Polyester Flat Woven Webbing Sling. 2 ply with reevable steel end fittings.

**Type B**

**WORKING LOAD LIMITS**

<table>
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<tr>
<th>STRAIGHT LIFT</th>
<th>CHOKE LIFT</th>
<th>BASKET HITCH</th>
<th>2-LEGGED SLING</th>
<th>3/4-LEGGED SLING</th>
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<tr>
<td>M = 1.0</td>
<td>M = 0.8</td>
<td>parallel ≠</td>
<td>β = 0-45°</td>
<td>β = 46-60°</td>
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<td>1.000</td>
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<td>2.000</td>
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<td>10.000</td>
<td>14.000</td>
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</table>

Safety factor = 7:1 Available on Request.
Ratchet lashing are used for fixation cargo while transporting, shifting or moving, storage. After locking, no relax during transportation, safety, saving, light, easy to use, and no damage for cargo.
Material: Polyester Nylon
Manufactured to EN 12195-2 AS/NZS 4380
Working length: As specified
Temperature range: -40ºC - 100ºC
Safety factor 2:1

RATCHET TIE DOWN
Warning:
1. Only use undamaged ratchet lashing, the label indicating the capacity must be clearly legible.
2. Ratchet lashings must not be overload,
3. Do not tie knots in the webbing,
4. Protect the webbing against abrasion and/or cutting by using edge protectors and sleeves for sharp edges,
5. Avoid twisted positioning of the ratchet lashing.
6. Do not place loads on the ratchet lashing, which could cause damage.
7. Ratchet lashings should not be used as a load lifting gear.

1. **75 WIDTH**
   Ratchet Loadbinder fitted with Double J-Hooks. 75 mm

2. **50 WIDTH**
   Ratchet Loadbinder fitted with Double J-Hooks. 50 mm Webbing.

3. **35 WIDTH**
   Ratchet Loadbinder fitted with Double J-Hooks. 35 mm Webbing.

4. **25 WIDTH**
   Ratchet Loadbinder fitted with Double J-Hooks. 25 mm Webbing.

5. **25 / 35 / 50 / 75 WIDTH**
   Ratchet Loadbinder with Endless Belt.
<table>
<thead>
<tr>
<th>MODEL</th>
<th>ZNL-800</th>
<th>ZNL-1600</th>
<th>ZNL-3200</th>
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<td>341</td>
<td>438</td>
<td>438</td>
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<tr>
<td>Rated capacity</td>
<td>800</td>
<td>1600</td>
<td>3200</td>
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<tr>
<td>Rated forward trval (Swing)</td>
<td>≥52</td>
<td>≥55</td>
<td>≥28</td>
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<tr>
<td>it forward and backward</td>
<td></td>
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<tr>
<td>Rope Diameter</td>
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<td>Wire rope safety factor load capacity</td>
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<td>Safety factor &amp; static load capacity</td>
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<td>Max travelling load</td>
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<td>B</td>
<td>426</td>
<td>545</td>
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<tr>
<td>C</td>
<td>238</td>
<td>284</td>
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<td>Net weight</td>
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Chain Hoists

Hand Chain Hoists
HSZ-B SERIES: With a High-hardened special alloy steel load chain and equipped with a thrust bearing on the bottom hook (only for the capacity up to 10 tonne)
Load chain & puller chain can be extended upon requested quote separately.

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<th>Capacity</th>
<th>1/2 ton</th>
<th>1 ton</th>
<th>2 ton</th>
<th>3-5 ton</th>
<th>7 1/2 - 10 ton</th>
<th>15-20 ton</th>
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Trolley
Plain Trolley
Geared Trolley

V Hanger
Suspending Head for Chain Block

Lever Block
HSH-V SERIES Free Chain Brake Removal System
Load chain can be extended upon requested quote separately.
### ALLOY GRADE 80 CHAIN LIFTING METHODS

<table>
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<tr>
<th>FOR CHAIN SIZE MM</th>
<th>SAFE WORKING LOAD</th>
<th>$\beta$ 0 - 45°</th>
<th>45° - 60°</th>
<th>$\alpha$ 0 - 90°</th>
<th>90° - 120°</th>
<th>$\beta$ 0 - 45°</th>
<th>45° - 60°</th>
<th>$\alpha$ 0 - 90°</th>
<th>90° - 120°</th>
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<tr>
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<td>1.5</td>
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**NOTE:** Safety Factor 4:1 above limits refer to normal use and equally loaded sling legs.
A COMPLETE RANGE OF HARDWARE ACCESSORIES

1. Clevis Grab Hook
2. Clevis Clutch
3. Twist Eye Choke
4. Sliding Chok Hook
5. Barrel Hook
6. Excavator Weld-on Hook
7. Web Sling Connector
8. Round Sling Self Locking Hook
9. Weld-on Lifting Point
10. Clevis Sling Hook
11. Clevis C Hook
12. Clevis Self Locking Hook
13. Eye Self Locking Hook
14. Alloy Eye Hoist Hook, with latch
15. Eye Swivel Hook
16. Omega Link Connecting Link
17. Eye Sling Hook Foundry Hook
18. Eye Sling Hook
19. Eye Foundry Hook
20. Swivel Self Locking Hook
21. Clevis Master Link
22. Oblong Master Link
23. Oblong Master Link with Flat
24. D Master Link
25. Enlarge Oblong Master Link
26. Eye Grab Hook
27. Flat Webbing Choker
28. Clevis Cluth - Locking Type
29. Eye Shortening Hook
30. Double End Claw, with fixed pin
31. Clevis Traveling Clutch
32. Eye Container Hook
33. Twist Hook
A COMPLETE RANGE OF HARDWARE ACCESSORIES

- 34 Standard Load Binder
- 35 Ratchet Load Binder
- 36 Transport Chain Grab Hook
- 37 Cargo Bag S.W.L: 1.0 Ton
- 38 Forged Wire Rope Clip
- 39 Fist Grip Clips
- 40 Nissaku M-Type Wire Rope Clip
- 41 Triple Heavy Duty Wire Rope Clip
- 42 Italian Black Wire Rope Clip
- 43 Forged FR-JIS Wire Rope Clip
- 44 Cast-Iron Wire Rope Clip
- 45 Malleable Wire Rope Clip
- 46 Extra Heavy Duty Thimble
- 47 Standard Thimble
- 48 European Thimble
- 49 Forged Replacement Link
- 50 Cable Swedging Tool
- 51 Wire & Cable Cutter
- 52 Chain & Bolt Cutter
- 53 Hook & Hook
- 54 Hook & eye
- 55 Eye & Eye
- 56 Jaw & Hook
- 57 Jaw & Jaw
- 58 Forged Claw Hook
- 59 Stub End
- 60 Chain Swivels
- 61 Regular Swivels
- 62 Jaw End Swivels
- 63 Forged Lug Link

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A COMPLETE RANGE OF HARDWARE ACCESSORIES

64 Latch Kits S-4320
65 Latch SS-4055
66 B.K. Repair Kit
67 Excavator Hook Repair Kit

68 Weldless Ring
69 Weldless Alloy Master Links
70 Weldless Sling Link
71 Forged Alloy Tractor Hook

72 Regular Swivel Hook
73 Forged Alloy Sorting Hook
74 Forged DIN 580 Eye Hook
75 Forged DIN 582 Eye Nut

76 Forged Closed Swaged Wire Rope Socket
77 Forged Open Swage Wire Rope Socket, with Round Pin
78 Forged Open Spelter Wire Rope Socket

79 Mild Steel Link Chain

80 Welded Curb
81 Double Loop Coil
82 Heavy Link
83 Sash

84 Forged Closed Spelter Wire Rope Socket
85 Forged Anchor Shackle, with Bolt Pin
86 Forged Anchor Shackle, with Screw Pin
87 Forged Chain Shackle, with Bolt Pin
88 Grade 80 Lifting Chain

STAINLESS STEEL SUS304

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88 Grade 80 Lifting Chain
A COMPLETE RANGE OF HARDWARE STAINLESS STEEL ASSESSORIES

89 European Type Dee Shackle
90 European Type Bow Shackle
91 Long Dee Shackle
92 Twist Shackle
93 US Type Anchor Shackle
94 US Type Dee Shackle
95 JIS Type Dee Shackle
96 JIS Type Bow Shackle
97 Plate Bow Shackle
98 Plate Dee Shackle
99 Plate Twist Shackle
100 Jaw Swage Terminal
101 Toggle S3400
102 Jaw Terminal with Screw
103 Rigging Screw Jaw/Jaw
104 Rigging Screw Jaw/Sawage Stud
105 Turnbuckle with Terminal/Swivel Toggle
106 Turnbuckle with Jaw/Swivel Toggle
107 Fork Swageless Terminal
108 Eye Swage Terminal
109 Eye Terminal with Thread
110 Eye Terminal with Thread and Washer
111 Turnbuckle Din 1480
112 Turnbuckle European Type
113 Turnbuckle European Type
114 Rigging Screw Body
115 Turnbuckle with Stub Ends
116 Turnbuckle DIN1478 Hook and Hook
117 Turnbuckle DIN1478 Eye and Eye
118 Turnbuckle DIN1478 Eye and Hook
A COMPLETE RANGE OF HARDWARE STAINLESS STEEL ACCESSORIES

119 Swage Stud
120 Swage Dome Head
121 DIN 741 Wire Rope Clips
122 US Type Wire Rope Clips
123 Simplex Wire Rope Clip
124 Duplex Wire Rope Clip
125 Thimble DIN 6899A
126 US Thimble G-411
127 US Thimbles G-414
128 Thimbles European Commercial
129 Tube Thimbles
130 European Swivel Eye and Eye
131 European Swivel Eye and Jaw
132 US Thimbles European Commercial
133 Snap Hook with Eyelet S2450X
134 Snap Hook S2450
135 Snap Hook with Screw
136 Snap Hook with Screw
137 D Type Snap Hook with Screw
138 Snap Hook with Eyelet and Screw
139 Simple Snap Hook
140 Spring Hook
141 Quick Link S7350
142 Wide Jaw Quick Link
A COMPLETE RANGE OF HARDWARE STAINLESS STEEL ACCESSORIES

143 Delta Shaped quick Link
144 Pear Shaped quick Link
145 Carabine Type Quick Link
146 DIN 582 Eye Nut
147 DIN 580 Eye Bolt
148 Eye Bolt long screw with Nut

149 Stainless Steel Cleat
150 Spring Snap
151 Pelican Hook S2831
152 Fixed Snap Shackle
153 Swivel Snap Shackle Round Head
154 Swivel Snap Shackle Jaw Head
155 Welded Round Ring

156 D Ring
157 Triangle Ring
158 “S” Hook
159 Eye Slip Hooks
160 Clevis Grab Hook 330
161 Swiveling Round Eye Bolt Snap

162 Swiveling Round Eye Bolt Snap
163 Swivel Trigger Snap Strap Eye
164 Pulleys Single Wheel
165 Pulleys Double Wheel
166 S249 Eye Snap Rigid Eye End
167 S251 Eye Snap Swivel Eye End
A COMPLETE RANGE OF HARDWARE ACCESSORIES

CARGO TROLLEY

MOVABLE LOAD LEVER

CABLE SOCKS & GRIPS
Size: 8mm - 76mm
HYDRAULIC CUTTER / LIFTING CLAMP / BLOCK

1. Hydraulic Cutter (QY30)
2. Hydraulic Cutter (QY48)
3. Spare Repair Kit Hydraulic Cutter

4. Horizontal Clamp
   Rated load: 1T/2T/3T
   Clamping range (mm)
   1-13/3-22/12-35

5. Horizontal I Beam Clamp
   Rated load: 1T/2T/3T/5T

6. Vertical Clamp
   Rated load: 1T/2T/3T/5T/7T/10T
   Jaw Opening (mm)
   0-20/0-30/0-35/0-45/0-50/0-50

7. Beam Clamp
   Rated load: 1T/2T/3T/5T/10T

8. Pallet Clamp
   Rated capacity: 2T

9. YBO Snatch Block
   75mm-200mm

10. ALPS Single/Double Snatch Block
    75mm-250mm

11. ALPS Single/Double Snatch Block
    75-250mm

12. Steel Plate Lifting Clamp
    • This clamp allows for heavy-duty simultaneous loading multilayer steel plate.
    • Load limit: 3-15 tones in pair
    • Material: High quality mild alloy steel.
    • Maximal Proof Load is 2 times the Working Load Limit
    Minimum Ultimate Strength is 5 times the Working Load limit.

13. Horizontal Plate Clamp
    Rated load: 4T/6T/8T/10T
    In Pair. Jaw Opening
    50mm - 100mm

14. Permanent Magnetic Lifter
    Capacity: 100 Kg - 6000 Kg

15. Galvanized Single & Double Malleable Iron Block
    Size: 75mm - 250mm
1. Cotton Rope 16 Ply Braided
2. PE Hollow Braided Orange U.S. Coast Guard Line Rope
3. Seizing Twine - Manila Ball
4. PE Rope Black 3-Strand
5. PE Rope 3-Strand
6. Tarred Marline Ball
7. Grade 3 Manila Rope
8. PP-DAN 4 Strand
9. Nylon Blue Double Braided
10. Nylon 16 Ply Braided
11. PP Mono 3 Strand
12. Polyester White & Blue Double Braided
13. Tiger Rope
14. PP Multi 3 Strand
15. White & Gold Nylon Double Braided
# High-Performance Steel Wire Ropes

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>3 x F(40)</th>
<th>4 x 39 SES+FC</th>
<th>4 x WS(36)+FC</th>
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**Tensile Strength:**
- 3-strand non-rotating crane hoisting/tuffing
- 4-strand non-rotating crane hoisting/Kelly Bar
- 4-strand non-rotating crane hoisting
- Multi-strand non-rotating steel wire rope

**Minimum Breaking Strength:**
- Right Hand lay

**Specifications:**
- Diameter (mm)
- Weight Kg/100m
- Minimum Breaking Strength kN
- Weight Kg/100m
- Minimum Breaking Strength kN
- Weight Kg/100m
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- Minimum Breaking Strength kN
## High-Performance Steel Wire Ropes

<table>
<thead>
<tr>
<th>Multi-strand non-rotating crane hoisting</th>
<th>6-strand crane hoisting/luffing crane hoisting/Kelly Bar crane hoisting/luffing</th>
<th>8-strand non-rotating crane hoisting/luffing</th>
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<tbody>
<tr>
<td>Tensile strength: 1960 N/mm² compacted</td>
<td>Tensile strength: 1770 N/mm² Non-compacted Right hand Lang lay</td>
<td>Tensile strength: 1960 N/mm² Non-compacted Right/left hand Lang lay</td>
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<td><strong>Weight</strong> kg/100m</td>
<td><strong>Minimum breaking strength kN</strong></td>
<td><strong>Weight</strong> kg/100m</td>
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<td>35(W) x 7</td>
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<tr>
<td>8-strand non-rotating crane hoisting/luffing</td>
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<td>Tensile strength: 1960 N/mm²</td>
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<td>Compacted Right hand Lang lay</td>
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EVERSTRONG TESTING CENTRE PTE LTD

Email: enquiry@everstrongtc.com  Website: www.everstrongtc.com
Tel: +65 6863 3574  Fax: +65 6861 7041

Type of Inspection & Testing
Visual Inspection
Destructive Test
Proof Load Test

3rd Party Witness Certification
MOM PE, ABS
DNV, LLOYD’S
BV, RINA

Non Destructive Test
Magnetic Particle Testing - MPI
Ultrasonic Testing - UT

Rental & Supply of Testing Equipment (Calibrated)
Spreader (c/w slings & shackless)
Water Bag, Load Cell
Test Bed, Spooler Machine

Spreader Bar 20T, 50T, 250T. Rent or hire

Vehicles from Unik-Wire

Lifeboat Block Hook
On-site Socking

On-site Clamping
Load Cell Rent or Hire

Spreader Bar 80T

Lifting Eye Plate MPI

On-site/offshore spooler machine

80t Spreader Bar

Dynaline Reader

Dynaline Reader

Dynaline Reader

Dynaline Reader

Dynaline Reader

Dynaline Reader

Spreader Bar 80T

Spreader Bar 80T

Spreader Bar 80T

Spreader Bar 80T