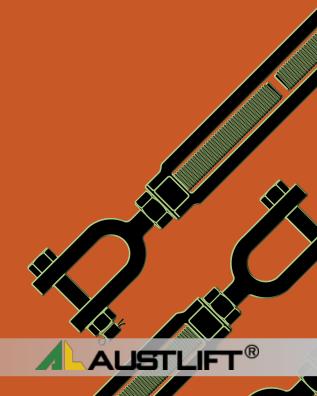
AUSTRALIAN LIFTING CENTRE PTY LTD



1300 100 120

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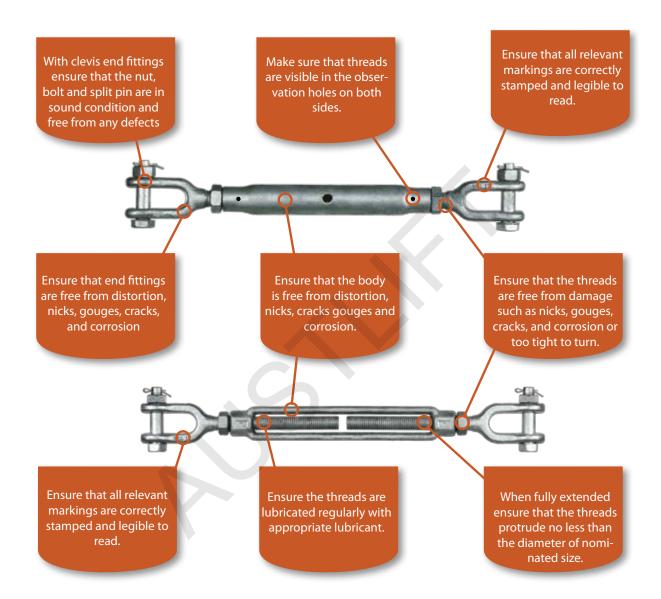
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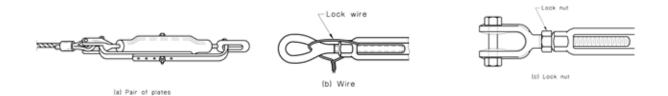




It is recommend that a competent person conduct the above checking of Turnbuckles & Rigging Screws and withdraw from service, if any of the above defects are found and cannot be rectified.



Recommended Turnbuckle locking methods





GENERAL

Turnbuckles & Rigging Screws are used in lifting, tensioning and staying systems to make adjustment to the length of the systems.

TYPES

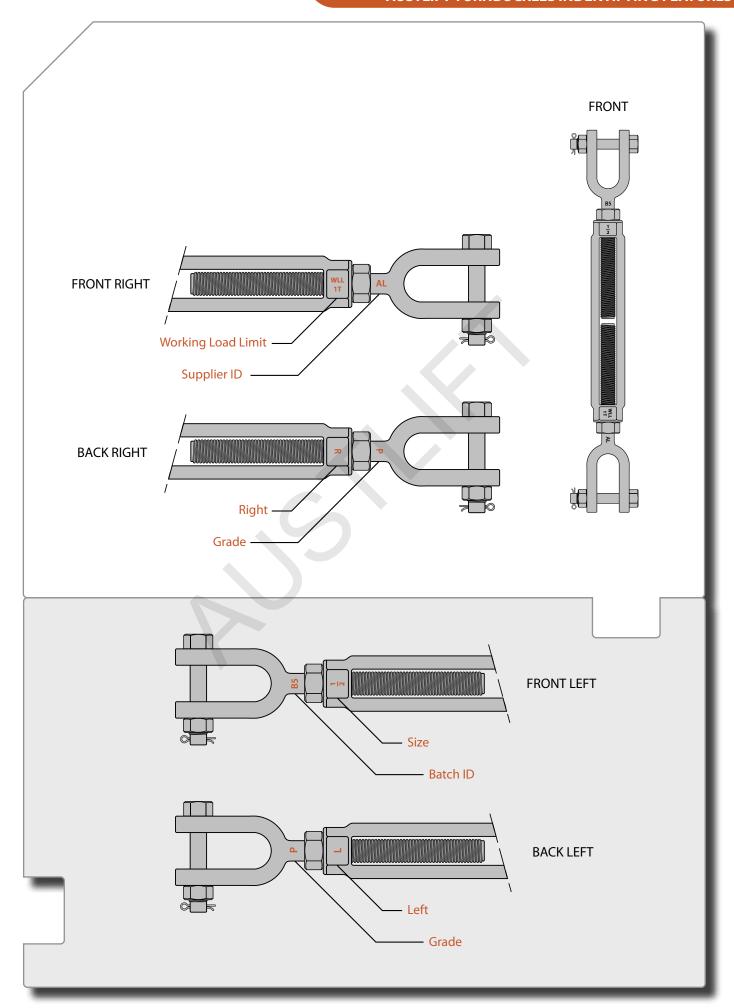
Non-rated Commercial Turnbuckles generally have combinations on end fittings such as eye & eye, hook & eye, stub & stub and hook & hook to tension commercial fittings, Wire Rope assemblies and alike, also available are special purpose buckles for the fencing industries. The most common buckles are made from cast or forged steel in galvanized finish therefore under any circumstance are not to be used for lifting and/or high tension applications.

Rated Rigging Screws generally have elongated eyes or clevis end fittings for connection to Shackles, Wire Rope assembles, Anchor Points and the like. Rigging Screw bodies are formed from tubular sections of steel and can have an almost infinite size range and length adjustment. Size and adjustment of Rigging Screws is limited by the available end fittings. The tubular body provides a reservoir for lubricates such as grease which gives the screw an advantage in corrosive applications.

Rated Turnbuckles have the same applications as Rigging Screws, but have a generally smaller size range and shorter adjustment. The advantages of a Turnbuckle is they have a greater ability to be tightened under load as well as providing means for locking while in service.

CARE & USE

- 1. Make sure that the correct Turnbuckle or Rigging Screw is selected for intended use and application.
- 2. Where components are connected to Turnbuckle or Rigging Screw ensure they do not bind and freely articulate so that the system can sit in a straight line when tension is applied.
- 3. When tensioning the body of a Turnbuckle or Rigging Screw ensure that both end terminals and fittings do not rotate .
- 4. Do not tension Turnbuckles or Rigging Screws beyond the specified rating especially smaller sizes.
- 5. Turnbuckles and Rigging Screws are not designed for continuous adjustment under rated load conditions therefore wear on the threads should be considered if used in this way.
- 6. Locknuts, fitted to the ends of the body, are a method of locking, but may not provide positive or reliable locking under all circumstances therefore should inspected regularly.
- 7. High temperatures affect the WLL of the Turnbuckle and Rigging Screw therefore the working load limit should be reduced by 0-200C no reduction, 10% for temperatures between 200-300C, 25% for temperatures between 300-400C, Do not use if for temperatures over 400C. Extremely low temperature applications may present a high risk of failer while loaded below the WLL.
- 8. Threads should be protected from corrosion by affective means.
- 9. Turnbuckles and Rigging Screws should be inspected periodically by a competent person





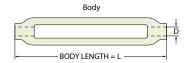
COMMERCIAL TURNBUCKLES



Eye & Eye, Cast Type

- Used in conjunction with Wire Rope assemblies etc for light duty tensioning applications.
- Manufactured from malleable cast steel in zinc plated finish
- Eye and eye end fittings for intended applications.
- Sizes available from 5mm to 25mm.
- NOT FOR LIFTING APPLICATIONS





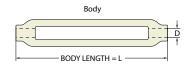


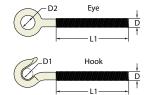
| CODE | SIZE | Wt. | DIMENSIONS | | | | | |
|--------|------|-------|------------|----------|---------|----------|--|--|
| | mm | kg/pc | L mm | L1 mm | D mm | D2 mm | | |
| 401005 | 5 | 0.048 | 70 | 32 | 5 | 8 | | |
| 401006 | 6 | 0.067 | 80 | 35 | 6 | 9 | | |
| 401008 | 8 | 0.13 | 105 | 50 | 8 | 11 | | |
| 401010 | 10 | 0.23 | 130 | 62 | 10 | 16 | | |
| 401012 | 12 | 0.35 | 140 | 65 | 12 | 18 | | |
| 401016 | 16 | 0.90 | 178 | 88 | 16 | 24 | | |
| 401020 | 20 | 1.43 | 215 | 110 | 20 | 28 | | |
| 401022 | 22 | 2.10 | 240 | 120 | 22 | 32 | | |
| 401025 | 24 | 2.62 | 255 | 135 | 24 | 36 | | |

Hook & Eye, Cast Type

- Used in conjunction with Wire Rope assemblies etc for light duty tensioning applications.
- Manufactured from malleable cast steel in zinc plated finish
- Hook and eye end fittings for intended applications.
- Sizes available from 5mm to 24mm.
- NOT FOR LIFTING APPLICATIONS.







| CODE | SIZE | Wt. | | | DIMENSIONS | | |
|--------|------|-------|---------|----------|------------|---------|----------|
| | mm | kg/pc | D mm | D1 mm | D2 mm | L mm | L1 mm |
| 402005 | 5 | 0.034 | 5 | 7 | 8 | 70 | 32 |
| 402006 | 6 | 0.052 | 6 | 8 | 9 | 80 | 35 |
| 402008 | 8 | 0.098 | 8 | 10 | 11 | 105 | 50 |
| 402010 | 10 | 0.226 | 10 | 16 | 16 | 130 | 62 |
| 402012 | 12 | 0.338 | 12 | 18 | 18 | 140 | 65 |
| 402016 | 16 | 0.898 | 16 | 24 | 24 | 178 | 88 |
| 402020 | 20 | 1.595 | 20 | 28 | 28 | 215 | 110 |
| 402022 | 22 | 2.18 | 22 | 32 | 32 | 240 | 120 |
| 402025 | 24 | 2.8 | 24 | 36 | 36 | 255 | 135 |





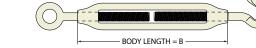
NOT FOR LIFTING APPLICATIONS

Hook & Eye, Forged

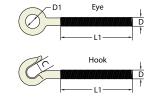
- Suitable for outdoor use in conjunction with Wire Rope assemblies etc for heavy duty tensioning applications.
- Manufactured from forged steel in hot dipped galvanized finish
- Hook and eye end fittings for intended applications.
- Sizes available from 6mm to 32mm.
- NOT FOR LIFTING APPLICATIONS



Hook & Eye



Body



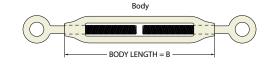
| CODE | SIZE | Wt. | | | DIMENSIONS | | |
|--------|------|-------|---------|---------|------------|---------|----------|
| | mm | kg/pc | B mm | D mm | D1 mm | C mm | L1 mm |
| 402006 | | | | | 11 | | |
| 403006 | 6 | 0.1 | 100 | 6 | 11 | 8 | 48 |
| 403008 | 8 | 0.18 | 125 | 8 | 14 | 10 | 58 |
| 403010 | 10 | 0.31 | 150 | 10 | 18 | 13 | 70 |
| 403012 | 12 | 0.55 | 200 | 12 | 19 | 14 | 95 |
| 403016 | 16 | 1.1 | 250 | 16 | 24 | 18 | 105 |
| 403020 | 20 | 1.94 | 300 | 20 | 26.5 | 22 | 130 |
| 403022 | 22 | 2.64 | 330 | 22 | 34 | 24 | 165 |
| 403025 | 25 | 4 | 350 | 25 | 37 | 26 | 190 |
| 403028 | 28 | 6 | 350 | 28 | 38 | 29 | 160 |
| 403032 | 32 | 10 | 400 | 32 | 38 | 33 | 200 |

Eye & Eye, Forged

- Suitable for outdoor use in conjunction with Wire Rope assemblies etc for heavy duty tensioning applications.
- Manufactured from forged steel in hot dipped galvanized finish
- Eye and eye end fittings for intended applications.
- Sizes available from 6mm to 28mm.
- NOT FOR LIFTING APPLICATIONS



Eye & Eye





| CODE | SIZE | Wt. | DIMENSIONS | | | | | | |
|--------|------|-------|------------|---------|----------|----------|--|--|--|
| | mm | kg/pc | B mm | D mm | D1 mm | L1 mm | | | |
| 404006 | 6 | 0.1 | 100 | 6 | 11 | 48 | | | |
| 404008 | 8 | 0.18 | 125 | 8 | 14 | 58 | | | |
| 404010 | 10 | 0.31 | 150 | 10 | 18 | 70 | | | |
| 404012 | 12 | 0.55 | 200 | 12 | 19 | 95 | | | |
| 404016 | 16 | 1.1 | 250 | 16 | 24 | 105 | | | |
| 404020 | 20 | 1.94 | 300 | 20 | 26.5 | 130 | | | |
| 404022 | 22 | 2.64 | 330 | 22 | 34 | 165 | | | |
| 404025 | 25 | 4 | 350 | 24 | 37 | 190 | | | |
| 404028 | 28 | 6 | 350 | 27 | 38 | 160 | | | |

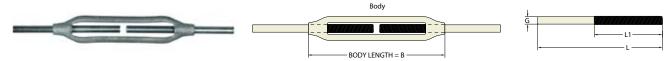




NOT FOR LIFTING APPLICATIONS

Stub & Stub, Forged

- Stub ends allow the flexibility to be welded and customize complicated systems.
- Manufactured from heavy duty forged steel body in hot dipped galvanized finish.
- Available in zinc or black finish stub ends.
- Sizes available from 10mm to 32mm.
- NOT FOR LIFTING APPLICATIONS



*Maximum adjustment = B-2A

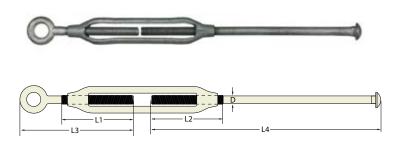
| CC | DDE | SIZE | Wt. | | | | |
|--------|---------|------|-------|---------|-------|-----|----------|
| ZINC | BLACK | mm | kg/pc | B mm | | | L1 mm |
| 405010 | 405010B | 10 | 0.31 | 150 | 8.9 | 130 | 75 |
| 405012 | - | 12 | 0.55 | 200 | 10.68 | 150 | 100 |
| 405016 | - | 16 | 1.1 | 250 | 14.5 | 180 | 125 |
| 405020 | - | 20 | 1.94 | 300 | 18.1 | 220 | 150 |
| 405022 | 405022B | 22 | 3 | 330 | 20.1 | 250 | 165 |
| 405025 | 405025B | 25 | 4 | 350 | 21.7 | 270 | 175 |
| 405028 | 405028B | 28 | 5.5 | 350 | 25.8 | 290 | 190 |
| 405032 | - | 32 | 7 | 400 | 28.85 | 300 | 200 |



NOT FOR LIFTING APPLICATIONS

Fencing Turnbuckles, Forged

- Suitable for outdoor use in conjunction with fence posts etc for heavy duty tensioning applications.
- Manufactured from forged steel in hot dipped galvanized finish in cup head bolt and eye end fittings for intended applications.
- NOT FOR LIFTING APPLICATIONS



| CODE | SIZE | Wt. | DIMENSIONS | | | | | | |
|--------|------|-------|------------|-----|-----|-----|--|--|--|
| | mm | kg/pc | L1 | L3 | L4 | | | | |
| | mm | kg/pc | mm | mm | mm | mm | | | |
| 405035 | 16 | 1.3 | 120 | 130 | 190 | 370 | | | |

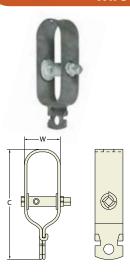


Wire Strainer

Self locking teeth on both sides of frame for firm & quick straining Hot dip galvanized for outdoor application.
NOT FOR LIFTING APPLICATIONS.

| CODE | Wire Rope SIZE | Wt. | DIMENSIONS | | | |
|---------|----------------|-------|------------|--------|--|--|
| | mm | kg/pc | B (mm) | L (mm) | | |
| 405040* | 6 | 0.2 | 42 | 127 | | |

^{*}Deleted stock line available until sold out.





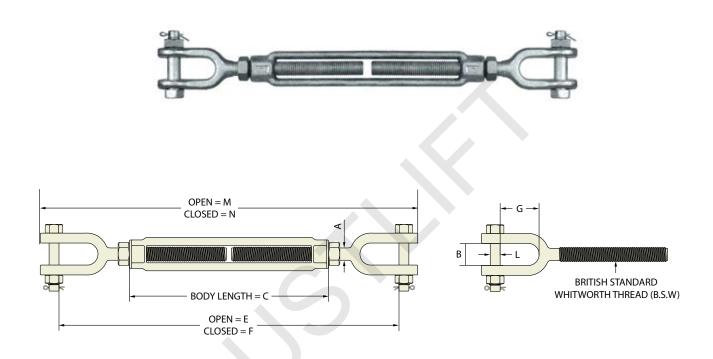
When you choose Austlift™ You choose quality.



Rated Turnbuckle

Jaw/Jaw

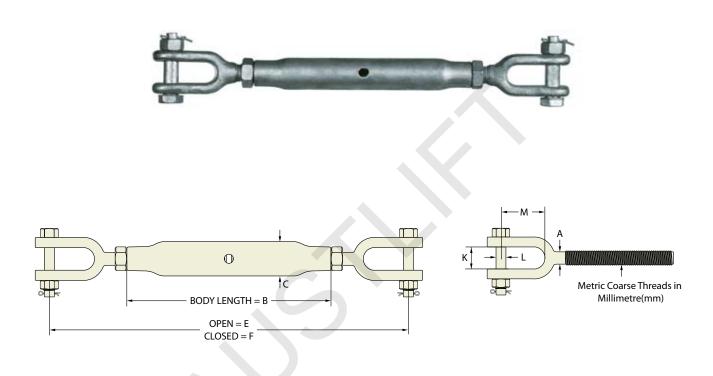
- Generally used for straight or in line tensioning in conjunction with Wire Rope and or Chain assemblies when heavy duty straining and lifting applications are required.
- Manufactured from **Grade P** high tensile material quenched and tempered hot dipped galvanized finish suitable for outdoor use available in imperial sizing and jaw end fittings with Lock Nuts.
- Meets the design requirements of : Federal Specifications FF-T-791 Type1 Form1 Class
- Proof tested to 2 x WLL and Minimum Break Force is 5 x WLL
- Test certificates available upon request
- Suitable for industrial lifting purposes.



| CODE | SIZE | WLL | Wt. | | | | | DIMEN | ISIONS | | | |
|---------|-----------|------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | mm,inch | Т | kg/pc | A mm | B mm | C mm | E mm | F mm | G mm | M mm | N mm | L mm |
| 406010 | 10, 3/8" | 0.54 | 0.37 | 9.65 | 12.7 | 152 | 410 | 258 | 22.1 | 441 | 289 | 8 |
| 406012 | 12,1/2" | 1 | 0.71 | 12.7 | 16 | 152 | 470 | 292 | 26.9 | 508 | 330 | 10 |
| 406016 | 16,5/8" | 1.59 | 1.56 | 16 | 19 | 229 | 662 | 401 | 33.3 | 715 | 454 | 13 |
| 406016C | 16,5/8" | 1.59 | 1.23 | 16 | 19 | 152 | 509 | 325 | 3.3 | 562 | 378 | 13 |
| 406020 | 20,3/4" | 2.36 | 2.98 | 19.1 | 23.4 | 305 | 851 | 508 | 38.1 | 917 | 574 | 16 |
| 406022 | 22,7/8" | 3.27 | 3.71 | 22.4 | 28.7 | 305 | 892 | 543 | 44.5 | 967 | 618 | 19 |
| 406025 | 25,1" | 4.54 | 5.53 | 25.4 | 30 | 305 | 933 | 577 | 52.5 | 1018 | 662 | 22.5 |
| 406032 | 32,1"1/4 | 6.89 | 9.36 | 31.8 | 44.5 | 305 | 1012 | 644 | 71.5 | 1119 | 750 | 28 |
| 406038 | 38,1"1/2 | 9.71 | 13.9 | 38.1 | 52 | 305 | 1054 | 673 | 71.5 | 1181 | 800 | 35 |
| 406045 | 45,1"3/4 | 12.7 | 24.5 | 44.5 | 60 | 457 | 1356 | 899 | 86 | 1503 | 1046 | 41 |
| 406051 | 51, 2" | 16.8 | 42.8 | 51 | 63.5 | 610 | 1766 | 1157 | 93.5 | 1949 | 1339 | 50.8 |
| 406064 | 64, 2″1/2 | 27.2 | 75 | 63.5 | 73 | 610 | 1854 | 1244 | 113 | 2087 | 1478 | 57 |

Jaw/Jaw

- Generally used for straight or in line tensioning in conjunction with Wire Rope and or Chain assemblies when heavy duty straining and lifting applications are required.
- Manufactured from **Grade L/P** high tensile material quenched and tempered hot dipped galvanized finish suitable for outdoor use available in metric sizing and jaw end fittings with lock nuts.
- Meets the design requirements of AS2319 Proof tested to 2 x WLL and Minimum Break Force is 6 x WLL
- Test certificates available upon request.
- Suitable for industrial lifting purposes.



| CC | DE | SIZE | WLL | Wt. | DIMENSIONS | | | | | | | |
|------------|------------|------|----------|-------|------------|---------|---------|---------|---------|---------|---------|---------|
| Grade P | Grade L | mm | T P/L | kg/pc | A mm | B mm | C mm | E mm | F mm | K mm | M mm | L mm |
| 407010 | 407010L | 10 | 0.6/0.3 | 0.48 | 10 | 152 | 21 | 349 | 235 | 11 | 21 | 8 |
| 407012 | 407012L | 12 | 1/0.5 | 0.98 | 12 | 229 | 25 | 524 | 343 | 19 | 35 | 10 |
| 407016 | 407016L | 16 | 1.6/0.75 | 1.4 | 16 | 229 | 27 | 550 | 361 | 22 | 51 | 12 |
| 407020 | 407020L | 20 | 2.5/1.25 | 2.3 | 20 | 229 | 34 | 550 | 387 | 22 | 48 | 16 |
| 407024 | 407024L | 24 | 4/2.5 | 4.85 | 24 | 356 | 42 | 822 | 556 | 32 | 65 | 22 |
| 407027 | 407027L | 27 | 5/3 | 5.75 | 27 | 356 | 45 | 822 | 559 | 32 | 65 | 22 |
| 407033 | 407033L | 33 | 8/5 | 8.08 | 33 | 381 | 51 | 872 | 604 | 38 | 76 | 24 |
| 407039 | 407039L | 39 | 10/6 | 13.5 | 39 | 407 | 57 | 949 | 670 | 47 | 90 | 32 |
| 407048 | 407048L | 48 | 16/10 | 23 | 48 | 407 | 76 | 977 | 743 | 51 | 121 | 42 |

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