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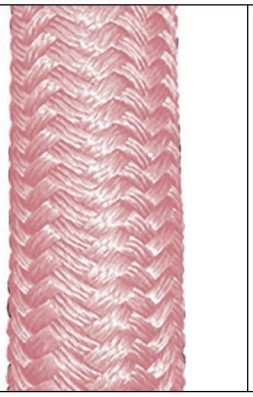
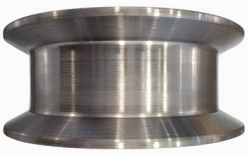
# Mongoose Heavy Duty Tow Strop

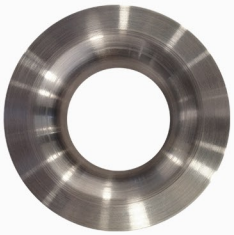
## 12 Strand UHMWPE Vehicle Recovery Strop
with soft eye in each end

***Lightweight and flexible***

***Heavy Duty HT Nylon Body & Eyes***







***Marine grade thimbles available on request***


## Features/Benefits

- Ultra high strength to weight ratio
- **Lightweight and flexible** to reduce the risk of back injuries and assists on site handling
- Low elongation
- **Minimal re-coil** and kinetic energy at break
- Traceability (durable I/D tags)
- Reduced hand injuries i.e. no fish-hooking like wire rope
- Heavy duty tight HT Nylon cover to minimise ingress of grit and assist cleaning
- Highly resistant to wear and flex fatigue
- Strops to 500 Tonne
- Certified to tonnage rating
- Available on request complete with marine grade round thimble
- Colour coding by application available on request

## Range

| BreakForce (tonne) | Finished Diameter (mm) | Eye Size (mm) 1-3m | Eye Size (mm) 6m+ | Approx. unit weight of completed strop (kg) 1m | 3m | 6m | 10m | 15m | 20m |
|---|---|---|---|---|---|---|---|---|---|
| **Fully machine braided cover to body & eyes** | | | | | | | | | |
| 30 | 32 | 300 | 600 | 0.8 | 2.3 | 4.5 | 7.0 | 10.5 | 14.0 |
| 50 | 38 | 300 | 600 | 2.0 | 4.0 | 6.5 | 10.0 | 15.0 | 20.5 |
| 70 | 44 | 300 | 600 | | 4.5 | 7.5 | 13.0 | 17.0 | 28.0 |
| 100 | 48 | 300 | 600 | | 6.0 | 12.0 | 15.5 | 29.5 | 34.0 |
| 150 | 65 | 300 | 600 | | 8.0 | 14.5 | 24.0 | 36.0 | 47.0 |
| 200 | 75 | 300 | 600 | | | 18.3 | 30.5 | 45.5 | 61.0 |
| 250 | 78 | 300 | 600 | | | 22.2 | 37.0 | 55.5 | 74.0 |
| 300 | 82 | N/A | 1000 | | | 26.1 | 43.5 | 65.0 | 87.0 |
| 350 | 86 | N/A | 1000 | | | 30.6 | 51.0 | 76.5 | 102.0 |
| **HD Fire Hose cover to body & eyes** | | | | | | | | | |
| 400 | 92 | N/A | 1000 | | | 35.1 | 58.5 | 87.8 | 117.0 |
| 450 | 102 | N/A | 1000 | | | 39.6 | 66.0 | 99.0 | 132.0 |
| 500 | 108 | N/A | 1000 | | | 44.4 | 74.0 | 111.0 | 148.0 |

## Gross Vehicle Weight (GVW)

| Mongoose Break Force (Tonnes) | DISTRESSED VEHICLES - GVW* Towing from general muddy, slippery conditions | Towing from Medium bogged position in mud | Towing from Heavy to Extreme entrenched position | HILL OR GRADIENT TOWING - GVW* 6° Incline 1m Gradient over 10m distance (1:10) | 11° Incline 1m Graident over 6m distance (1:6) | 18° Incline 1m Gradient over 4m distance (1:4) |
|---|---|---|---|---|---|---|
| 30 | 60 | 30 | 20 | 120 | 64 | 41 |
| 50 | 100 | 50 | 35 | 201 | 106 | 68 |
| 70 | 140 | 70 | 50 | 281 | 148 | 95 |
| 100 | 200 | 100 | 70 | 401 | 212 | 135 |
| 150 | 300 | 150 | 100 | 602 | 318 | 203 |
| 200 | 400 | 200 | 140 | 803 | 424 | 271 |
| 250 | 500 | 250 | 170 | 1004 | 529 | 338 |
| 300 | 600 | 300 | 200 | 1204 | 635 | 406 |
| 350 | 700 | 350 | 245 | 1405 | 741 | 474 |
| 400 | 800 | 400 | 280 | 1606 | 847 | 541 |
| 450 | 900 | 450 | 315 | 1807 | 953 | 609 |
| 500 | 1000 | 500 | 350 | 2007 | 1059 | 676 |

* The weight of a vehicle in tow based in Tonnes

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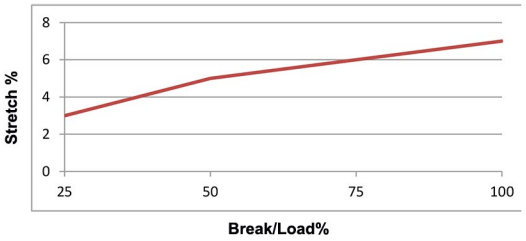
## Technical Data & In Use Examples

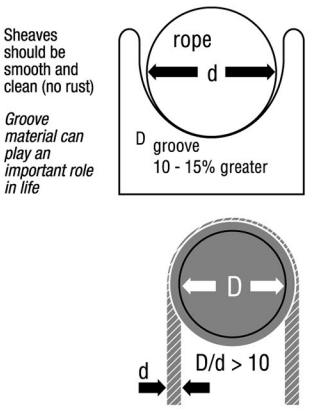
### As used in Pacific Aluminium Gove Operation

**Stretch vs Break Load**

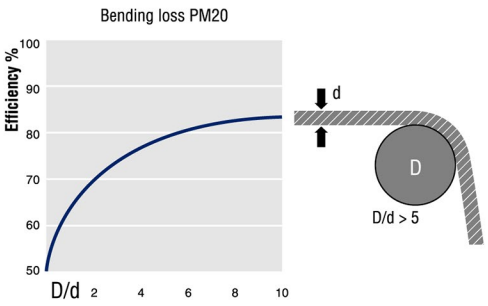



### As used in P.N.G.

**Rope properties; bending fatigue**

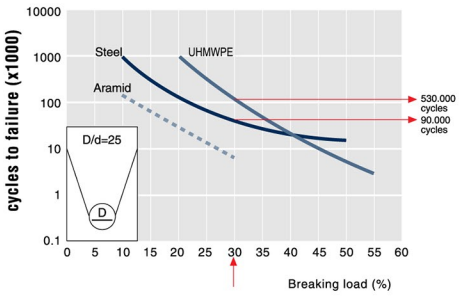



**Rope properties; static bending**

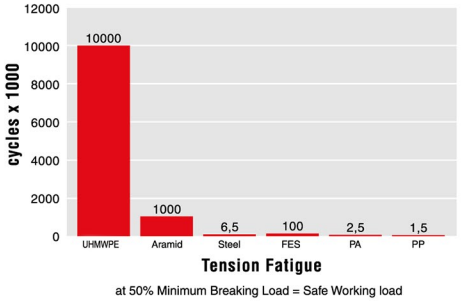



### Suitable for Light Vehicle Recovery

**Bending fatigue**




**Rope properties; tension fatigue**




### Fibre Characteristics

| Fibre:Type | Description | Specific Gravity | Sensitive to | Resistant to | Heat Reaction | Strength & Elongation |
|---|---|---|---|---|---|---|
| **Nylon** (Polyamide) | Continuous Filament | 1.14 | Strong acids and oxidising agents, soluble in formic, sulphuric acids and phenolic compounds | Alkalis, alcohols, esters, hydrocarbons and most bleaches | Softens 229°C Melts 249°C - 260°C | Elongation Dry 40%. Wet 35%. 90-95% strength ratio wet/dry |
| **UHMWPE** Ultra High Molecular Weight Polyethylene (UHMWPE) | Continuous Filament | 0.97 g/cm3 | Strong oxidising agents, Chlorosulfonic & Nitric acids at high temperatures. Slightly affected by Sodium Hydroxide (pH>14) | Most acids & alkalis, cold alcohols, ethers, esters, ketones & bleaches | Softens 144°C Melts 152°C | Equivalent wet/dry strength ratio. Elongation 4% at Break |