



SUPERWINCH

WINCH GUIDE
in Association with

Terrafir**Ma**

Serious 4x4 Accessories





The Superwinch story starts back in 1968 in the northeast hills of Connecticut with the manufacture of a complete line of winches for the pleasure boating market. The marine line included the small electric winches the haulamatic which loaded boats up to 8,000lbs and a powered capstan called the Windlass.

The company philosophy was to offer the end-user the most reliable, highest performing winching products all designed via problem solving innovation and from an organization dedicated to customer service. This is still just as true today as it was back in 1968.

In 1985 Superwinch purchased FW Winches Limited based in Tavistock in Devon (formerly Fairey winches), providing additional winch manufacturing capabilities including an overdrive transfer gearbox for the Toyota Land Cruiser and a capstan winch for the Land Rover 110.

Over 3 million winches later, today's global Superwinch team is as dedicated as ever to building on that philosophy with the introduction of the Tiger shark, entry level LT/LP series, the Terra ATV/UTV series and now the game changing Talon series.

Superwinch's global manufacturing facilities have grown to design and produce a broad range of winches from electric 12, 24 and 115 volt planetary gear, right angle gear and worm and gear units, to hefty hydraulic workhorses. The 1,000 to 50,000 lbs capacity winches can be found in diverse industries and applications around the world. These products share Superwinch's common traits of first class design, quality, value and solid construction for safe, simple and reliable operation.

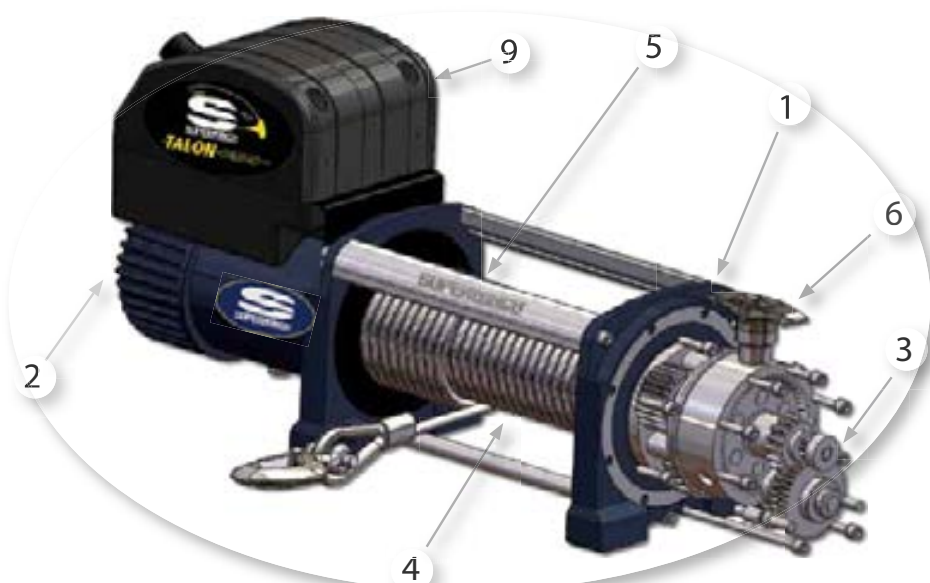
No resting on laurels at Superwinch. The "Get Serious" campaign means just that; Superwinch is serious about continuous improvements, innovative design and timely market response to keep Superwinch, and it's distribution partners and the winch end user on top. Superwinch provides the greatest value proposition in the global winch industry; innovation, function, quality, price and service. That is the Superwinch tradition.

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The all new Talon Performance Series is a game changer and has the potential to alter the outcome of the global winch industry, AKA, The Winch of Prey, designed and engineered by Superwinch

- 1 This is the industry's best truly sealed vehicle recovery winch assembly. All seals on the entire winch from the outermost end of the high performance motor, to the 2-stage planetary and 2 stage spur gearbox, to our ground breaking solenoid, meet the IP67 standard.
- 2 Sealed 5.2 HP and 6.0 HP motors deliver a quick but safe 62 FPM line speed at a low 75 Amp draw. Heat sink styled motor cap maintains low temperatures under the heaviest loads.
- 3 Innovative "Dual-Stop" 100% load-holding brake design provides zero drag on cable in. Located inside the gearbox away from the drum to eliminate heat transfer to the synthetic rope.
- 4 Special steel drum constructed with high tensile strength material to resist the unique loading characteristic of the optional 3/8" x 80' synthetic rope rated at 17,600 lbs ensures a safe pull.
- 5 Laser etched aerodynamically-shaped extruded aluminum tie bars reduce weight. Three (3) tie bar construction adds strength and structural rigidity between drum supports.
- 6 Chrome plated aluminum ergonomic free spool knob lifts and turns effortlessly. Easily rotates in 45° increments for custom applications and "in bumper" applications.
- 7 Ergonomically shaped, hand-held remote with brilliant LED light assists in night-time winching.
- 8 Coiled cord extends to 15', retracts to 4', and includes strap to contain unit for storage. Connects to winch with military style twist-lock plug, sealed to keep the elements out.
- 9 VS4 Solenoid (Vented, Submersible, and Stabilized with Sealed Socket) is simply the best winch solenoid in the world. Located inside a modern styled rugged enclosure
- 10 Solenoid meets IP67 standard, which ensures to keep out water, mud, snow, and dust. Venting feature allows the contacts to resist water and release contact damaging internal condensation.
- 11 Tri-bar bracket includes steel lined rubber insulated mounts to stabilize solenoid, reduce vibration and fatigue. Automotive-style sealed plug ensures a corrosion free connection.
- 12 Covered by a Limited Lifetime Warranty which includes an industry-first 3-year warranty on all electrical components, the absolute BEST in the INDUSTRY!



NEVER USE A WINCH TO SUSPEND A LOAD, NEVER USE A WINCH TO LIFT OR MOVE PEOPLE

TALON 9.5 / 9.5SR

Part Numbers:

9.5	1695200 12V DC (1695300 24V DC)
9.5SR	1695201 12V DC (1695301 24V DC)
9.5NR	1695202 12V DC (no rope)

Specifications

- Rated Line Pull: 9,500 lbs (4,309 kg)
- Motor: Sealed 5.2 hp (3.8 kW) Series Wound
- Gearing: 2-Stage Planetary & 2-Stage Spur
- Gear Ratio: 148:1
- Vented, Sealed Submersible Solenoid with 3-Year Warranty
- Freespooling Clutch: Pull and Turn
- Brake: Automatic/100% Load Holding (outside of drum)
- Wire Rope: 3/8" x 85' (9.5mm x 26m) (9.5)
- Synthetic Rope: 3/8" x 80' (9.5mm x 24.4m) (9.5SR)
- Hook: Heavy Duty/Clevis Pinned/Latched
- Heavy Duty 4-Way Roller Fairlead with Stainless Steel Rollers (9.5)
- Hawse: Anodized Blue Aluminium (9.5SR)
- Remote: 15' Sealed Ergonomic Hand-Held w/Coiled Cord
- Dimensions: 24.22" L x 6.20" D x 10.95" H (615.2mm L x 157.5mm D x 278.15mm H)
- Drum Diameter: 2.5" (63.5mm)
- Drum Length: 8.75" (222.2mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm)
- Installed Weight: 9.5 9.5SR
90 lbs (41 kgs) 65 lbs (30 kgs)
- Shipping Weight: 9.5 9.5SR (9.5)
103 lbs (47 kgs) 78 lbs (35 kgs)
- Limited Lifetime Warranty/3-Year Electrical

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	75	62 (18.9)
9,500 (4,309 kgs)	430	5.0 (1.5)

TALON 9.5i / 9.5i SR

Part Numbers:

9.5i	1695210 12V DC (1695310 24V DC)
9.5iSR	1695211 12V DC (1695311 24V DC)
9.5iNR	1695212 12V DC (no rope)

Specifications

- Rated Line Pull: 9,500 lbs (4,309 kg)
- Motor: Sealed 5.2 hp (3.8 kW) Series Wound
- Gearing: 2-Stage Planetary & 2-Stage Spur
- Gear Ratio: 148:1
- Vented, Sealed Submersible Solenoid with 3-Year Warranty
- Freespooling Clutch: Pull and Turn
- Brake: Automatic/100% Load Holding (outside of drum)
- Wire Rope: 3/8" x 85' (9.5mm x 26m) (9.5i)
- Synthetic Rope: 3/8" x 80' (9.5mm x 24.4m) (9.5iSR)
- Hook: Heavy Duty/Clevis Pinned/Latched
- Heavy Duty 4-Way Roller Fairlead with Stainless Steel Rollers (9.5i)
- Hawse: Anodized Blue Aluminium (9.5iSR)
- Remote: 15' Sealed Ergonomic Hand-Held w/Coiled Cord
- Dimensions: 24.22" L x 6.20" D x 10.66" H (615.2mm L x 157.5mm D x 270.75mm H)
- Drum Diameter: 2.5" (63.5mm)
- Drum Length: 8.75" (222.2mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm)
- Installed Weight: 9.5i 9.5iSR
92 lbs (42 kg) 67 lbs (30 kg)
- Shipping Weight: 9.5i 9.5iSR
105 lbs (48 kg) 80 lbs (36 kg)
- Limited Lifetime Warranty/3-Year Electrical

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	75	62 (18.9)
9,500 (4,309 kgs)	430	5.0 (1.5)



TALON 12.5 / 12.5SR

Part Numbers:

12.5	1612200 12V DC (1612300 24V DC)
12.5SR	1612201 12V DC (1612301 24V DC)
12.5NR	1612202 12V DC (no rope)

Specifications

- Rated Line Pull: 12,500 lbs (5,670 kg)
- Motor: Sealed 6.0 hp (4.48 kW) Series Wound
- Gearing: 2-Stage Planetary & 2-Stage Spur
- Gear Ratio: 148:1
- Vented, Sealed Submersible Solenoid with 3-Year Warranty
- Freespooling Clutch: Pull and Turn
- Brake: Automatic/100% Load Holding (outside of drum)
- Wire Rope: 3/8" x 85' (9.5mm x 26m) (12.5)
- Synthetic Rope: 3/8" x 80' (9.5mm x 24.4m) (12.5SR)
- Hook: Heavy Duty/Clevis Pinned/Latched
- (12.5) Heavy Duty 4-way Roller Fairlead with Stainless Steel Rollers
- (12.5SR) Hawse: Blue Anodized Aluminium
- Remote: 15' Sealed Ergonomic Hand-Held w/ Coiled Cord
- Dimensions: 24.57" L x 6.2" D x 10.95" H
(624.2mm L x 157.5mm D x 278.15mm H)
- Drum Diameter: 2.5" (63.5mm)
- Drum Length: 8.75" (222.25mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm)
- Installed Weight: 12.5 12.5SR
94 lbs (42 kg) 68 lbs (31 kg)
- Shipping Weight: 12.5 12.5SR
107 lbs (48 kg) 81 lbs (37 kg)
- Limited Lifetime Warranty/3-Year Electrical

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	75	62 (18.9)
12,500 (5,670kgs)	530	3.25 (0.99)

TALON 12.5i / 12.5iSR

Part Numbers:

12.5i	1612210 12V DC (1612310 24V DC)
12.5iSR	1612211 12V DC (1612311 24V DC)
12.5iNR	1612212 12V DC (no rope)

Specifications

- Rated Line Pull: 12,500 lbs (5,670 kg)
- Motor: Sealed 6.0 hp (4.48 kW) Series Wound
- Gearing: 2-Stage Planetary & 2-Stage Spur
- Gear Ratio: 148:1
- Vented, Sealed Submersible Solenoid with 3-Year Warranty
- Freespooling Clutch: Pull and Turn
- Brake: Automatic/100% Load Holding (outside of drum)
- Wire Rope: 3/8" x 85' (9.5mm x 26m) (12.5i)
- Synthetic Rope: 3/8" x 80' (9.5mm x 24.4m) (12.5iSR)
- Hook: Heavy Duty/Clevis Pinned/Latched
- (12.5i) Heavy Duty 4-way Roller Fairlead w/Stainless Steel Rollers
- (12.5iSR) Hawse: Blue Anodized Aluminium
- Remote: 15' Sealed Ergonomic Hand-Held w/Coiled Cord
- Dimensions: 24.57" L x 6.20" D x 10.66" H
(624.2mm L x 157.50mm D x 270.76mm H)
- Drum Diameter: 2.5" (63.5mm)
- Drum Length: 8.75" (222.25mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm)
- Installed Weight: 12.5i 12.5iSR
95 lbs (43 kg) 70 lbs (31 kg)
- Shipping Weight: 12.5i 12.5iSR
108 lbs (48 kg) 83 lbs (37 kg)
- Limited Lifetime Warranty/3-Year Electrical

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	75	62 (18.9)
12,500 (5,670kgs)	530	3.25 (0.99)





TALON Heavy Series

Speed and power make the tough Talon Series winches ideal for recovery and super-duty applications. Available in 14,000 lbs and 18,000 lbs with either steel or synthetic ropes. These 2-stage planetary gear winches are packed with essential and extra practical features for efficient, reliable, and safe winching operations under the heaviest loads.

1. All seals on the entire winch from the outermost end of the high performance motor to the edge of the 2-stage planetary and 2 stage spur gearbox all meet the IP67 standard.

2. Fastest line speed in its class; sealed 5.2 HP and 6.0 HP motors deliver a quick 25 FPM line speed at a low 75 Amp draw.

3. Four-planet planetary gear sets for added strength and durability. Robust ball and roller bearing construction.

4. Steel drum supports for ultimate strength; can be mounted foot down or foot forward, versatility provides multiple industrial mounting options.

5. Innovative "Dual-Stop" 100% load holding brake design provides zero drag on cable in. Located inside the gearbox away from the drum to eliminate heat transfer to synthetic rope.

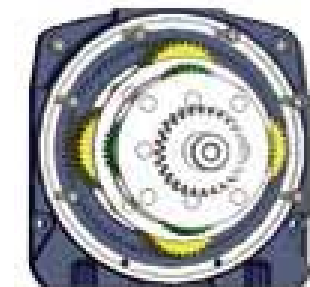
6. Covered by a Limited Lifetime Warranty which includes an industry first 3-year warranty on all electrical components, the absolute BEST in the INDUSTRY!

7. Chrome plated aluminum ergonomically free spool knob lifts and turns effortlessly. Easily rotates in 45° increments for commercial and industrial applications.

8. Ergonomically shaped hand-held sealed remote with brilliant LED light assists in late night job site or road side winching.

9. Coiled cord extends to 15' and retracts to 4' . Includes strap to contain unit for storage. Connects to winch with military style twist lock plug, sealed to keep elements out.

10. VS4 Solenoid (Vented, Submersible, and Stabilized Solenoid with Sealed Socket) is the best winch solenoid in the world. Venting feature allows solenoid to resist water and releases contact damaging internal condensation. Tri-bar bracket includes steel-lined rubber insulated mounts to stabilize solenoid, reduces vibration and fatigue.



TALON 14.0 / 14.0SR

Part Numbers:

14.0	1614200 12V DC (1612300 24V DC)
14.0SR	1614201 12V DC (1614301 24V DC)
14.0NR	1614202 12V DC (no rope)

Specifications

- Rated Line Pull: 14,000 lbs (6,350 kg)
- Motor: Sealed 5.2 hp (3.8 kW) Series Wound
- Gearing: 2-Stage Planetary & 2-Stage Spur
- Gear Ratio: 346:1
- Vented, Sealed Submersible Solenoid with 3-Year Warranty
- Freespooling Clutch: Pull and Turn
- Brake: Automatic/100% Load Holding (outside of drum)
- Wire Rope: 1/2" x 90' (13mm x 27.43m) (14.0)
- Synthetic Rope: 1/2" x 90', (13mm x 27.43mm) (14.0SR)
- Hook: Heavy Duty/Clevis Pinned/Latched
- (14.0) Heavy Duty 4-way Roller Fairlead with Stainless Steel Rollers
- (14.0SR) Hawse: Anodized Blue Aluminium
- Remote: 15' Sealed Ergonomic Hand-Held w/ Coiled Cord
- Dimensions: 27.15" L x 8.46" D x 11.57" H
(698.5mm L x 215.5mm D x 294.21mm H)
- Drum Diameter: 3.5" (88.9mm)
- Drum Length: 8.75" (222.25mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm) &
10" x 6.5" (254mm x 165.1mm)
- Installed Weight: 14.0 14.0SR
170 lbs (77.1 kg) 145 lbs (65.7 kg)
- Shipping Weight: 14.0 14.0SR
183 lbs (83 kg) 158 lbs (71.6 kg)
- Limited Lifetime Warranty/3-Year Electrical

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	75	25 (7.62)
14,000 (4,309 kgs)	345	4.25 (1.29)

TALON 18.0 / 18.0SR

Part Numbers:

18.0	1618200 12VDC (1618300 24VDC)
18.0SR	1618201 12VDC (1618301 24VDC)
18.0NR	1618202 12V DC (no rope)

Specifications

- Rated Line Pull: 18,000 lbs (8,165 kg)
- Motor: Sealed 6.0 hp (4.48 kW) Series Wound
- Gearing: 2-Stage Planetary & 2-Stage Spur
- Gear Ratio: 346:1
- Vented, Sealed Submersible Solenoid with 3-Year Warranty
- Freespooling Clutch: Pull and Turn
- Brake: Automatic/100% Load Holding (outside of drum)
- Wire Rope: 1/2" x 90' (13mm x 27.43m) (18.0)
- Synthetic Rope : 1/2" x 90' (13mm x 27.43mm) (18.0SR)
- Hook: Heavy Duty/Clevis pinned/Latched
- (18.0) Heavy Duty 4-way Roller Fairlead with Stainless Steel Rollers
- (18.0SR) Hawse: Anodized Blue Aluminium
- Remote: 15' Sealed Ergonomic Hand-Held w/ Coiled Cord
- Dimensions: 27.5" L x 8.46" D x 11.57" H
(698.5mm L x 215mm D x 294.21mm H)
- Drum Diameter: 3.5" (88.9mm)
- Drum Length: 8 .75" (222.25mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm) &
10" x 6.5" (254mm x 165.1mm)
- Installed Weight: 18.0 18.0SR
172 lbs (78 kg) 147 lbs (66 kg)
- Shipping Weight: 18.0 18.0SR
185 lbs (83.9 kg) 160 lbs (72.5 kg)
- Limited Lifetime Warranty/3-Year Electrical

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	75	25 (7.62)
18,000 (4,309 kgs)	415	2.5 (0.76)





The Rock 98 rock crawling winch is a lightweight, very low profile and narrow winch that fits in between the frame of Rock Crawling and Challenge vehicles, with an industry-leading rating of 9,800lbs and multiple mounting options.

Designed with the brake outside the drum to reduce rope melting heat build up, the Rock 98 comes with 50 feet of synthetic rope, heavy-duty blue anodized aluminium hawse fairlead, a large 'Gunnebo' latched hook, and Superwinch's exclusive S3 Sealed Submersible Solenoid with 3-year Warranty (the best in the industry).

The winch will be delivered with the solenoid control box installed to the left facing over the motor (Off-Set Configuration), the customer has the option to relocate the control box in a location to suit the application and winch mounting position on the vehicle.

- **9,800 lbs of pulling power in a small, lightweight package!**
- **Weights 28 lbs less with Dyneema™ synthetic rope**
- **4" narrower for smaller modified competition vehicles**
- **Free-spool knob rotates in 45° increments for custom applications**
- **Industrial grade, oversized, safety yellow latched hook**
- **Three solenoid box installation options**
 - Offset (solenoid over motor, as shipped)
 - Centerline (solenoid over drum, kit included)
 - Competition (solenoid remotely mounted, kit included)



ROCK 98

Part Number:

1698201 12V DC (**1698301** 24V DC)

Specifications

- Rated Line Pull: 9,800 lbs (4,445 kg)
- Motor: Sealed 5.2 hp (3.8 kW) Series Wound
- Gearing: 2-Stage Planetary & 2-Stage Spur
- Gear Ratio: 148:1
- Vented, Sealed Submersible Solenoid with 3 year warranty
- Freespooling Clutch; Pull and Turn
- Brake: Automatic/100% Load Holding (outside of drum)
- Synthetic Rope 3/8" x 50' (9.5mm x 15.24m)
- Hook: Heavy Duty/Clevis Pinned/Latched/Yellow
- Hawse: Blue Anodized Aluminium
- Remote: 15' Sealed Ergonomic Hand-Held w/Coiled Cord
- Dimensions: 20.22" L x 6.2" D x 10.95" H (513.60mm L x 157.50mm D x 278.15mm H)
- Drum Diameter: 2.5" (63.5mm)
- Drum Length: 4.75" (120.75mm)
- Mounting Bolt Pattern: 6" x 4.5" (152.4mm x 114.3mm)
- Installed Weight: 62 lbs (28 kg)
- Shipping Weight: 75 lbs (34 kg)
- Limited Lifetime Warranty/3-Year Electrical

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	75	62 (18.9)
9,800 (4,445)	445	4.8 (1.46)





The “Entry Level” waters are dark, full of bottom feeders and are soon to be consumed by a winch series destined to raise the bar for the winch marketplace!

Superwinch is redefining the entry level winch market with the new Tiger Shark Series with “Standard Issue” features and benefits designed specifically for the enthusiast-level consumer.

Created from everything Superwinch has learnt over the past 40+ years, the Tiger Shark brings unmatched functionality, quality and value.

Here is what separates the Tiger Shark Series apart from the pretenders:



9,500 lbs to 17,500 lbs of Rated Line Pull Five winches to bite almost any application

- Weather Sealed 5.2 HP to 6.5 HP Motors Reduces damage from rain, snow and blowing dust
- Heavy-Duty 3-Stage and 4-Stage Gearboxes Handles stress and torque on demand
- Heavy-Duty Drum Supports Load tested all the way to stall
- Weather Sealed Solenoids Reduces damage from rain, snow and blowing dust
- Severe-Duty Textured Finish Resists harsh outdoor and off-road abuse
- Heavy-Duty Rubber Hand-held Remote Field proven design provides effortless switching
- Stainless Steel Tie Bars and Hardware Great appearance & resists damage from rain and snow
- Heavy-Duty Fairlead with Stainless Steel Rollers Brushed finish endures weather and wire rope abuse
- Ergonomically Shaped Freespool Control Easy to grip and effortless to operate

TIGER SHARK 9500

Part Number:

Tiger Shark 9500: **1595200** 12V DC

Specifications

- Rated Line Pull: 9,500 lbs (4,309 kg)
- Motor: Sealed 5.2 HP (3.8 kW) Series Wound
- Gearing: 3-Stage Planetary
- Gear Ratio: 218:1
- Weather-Sealed Solenoid
- Freespooling Clutch: Ergo, Pull and Turn
- Brake: Mechanical, Automatic load holding
- Wire Rope: 21/64" x 94' (8.3mm x 28m)
- Hook: Heavy Duty / Clevis Pinned / Latched
- Heavy Duty Roller Fairlead with Stainless Steel Rollers
- Remote Control: 12' Rubber Hand-Held
- Dimensions: 20.83" L x 6.3" W x 9.23" H
(529.0mm L x 160.0mm W x 234.5mm H)
- Drum Diameter: 2.5" (63.5mm)
- Drum Length: 9.0" (228.6mm)
- Mounting Bolt Pattern: 10" x 4.5" (254 mm x 114.3 mm)
- Installed Weight: 90 lbs (41 kg)
- Shipping Weight: 97 lbs (44.0 kg)
- Limited 2 Year Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	80	19.0 (5.7)
9,500 (4,309 kgs)	340	4.0 (1.2)

TIGER SHARK 11500

Part Number:

Tiger Shark 11500: **1511200** 12V DC

Specifications

- Rated Line Pull: 11,500lbs (5,216 kg)
- Motor: Sealed 6.0 HP (4.48 kW) Series Wound
- Gearing: 3-Stage Planetary
- Gear Ratio: 218:1
- Weather-Sealed Solenoid
- Freespooling Clutch: Ergo, Pull and Turn
- Brake: Mechanical, Automatic load holding
- Wire Rope: 3/8" x 85' (9.5mm x 26m)
- Hook: Heavy Duty / Clevis Pinned / Latched
- Heavy Duty Roller Fairlead with Stainless Steel Rollers
- Remote Control: 12' Rubber Hand-Held
- Dimensions: 20.83" L x 6.3" W x 9.23" H
(529.0mm L x 160.0mm W x 234.5mm H)
- Drum Diameter: 2.5" (63.5 mm)
- Drum Length: 9.0" (228.6mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm)
- Installed Weight: 94 lbs (42 kg)
- Shipping Weight: 101.4 lbs (46 kg)
- Limited 2 Year Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	80	19.0 (5.7)
11,500 (4,309 kgs)	410	2.0 (0.6)





Tiger Shark Large Chassis available in 13,500 lbs, 15,500 lbs and 17,500 lbs Rigorously designed, these winches are fully capable machines. Get the peace of mind that only a winch designed, engineered and tested at Superwinch's laboratory can provide!

Check out these "STANDARD ISSUE" features:

- Engineered and load tested all the way to stall – it's the only way to know what a winch is fully capable of
- Ultra-tough 4-stage planetary gear box handles stress and torque on demand.
- Severe-Duty textured finish resists harsh outdoor and off-road abuse.
- 3 stainless steel tie bars to control torsion, remountable for front or foot forward operation (Superwinch exclusive).
- Heavy-duty 4-way fairlead with stainless steel rollers endure weather and wire rope abuse.
- "Lift and Pull" ergo freespool lever stops trail debris from activating your winch during vigorous off-road maneuvers.



TIGER SHARK 13500

Part Number:

Tiger Shark 13500: **1513200** 12V DC

Specifications

- Rated Line Pull: 13,500lbs (6,123.5 kg)
- Motor: Sealed 5.3 HP (3.95 kW) Series Wound
- Gearing: 4-Stage Planetary
- Gear Ratio: 518:1
- Solenoid: Weather-Sealed Solenoid
- Freespooling Clutch: Ergo Pull and Turn
- Brake: Mechanical, Automatic load holding
- Wire Rope: 13/32" x 95' (10.3mm x 26m)
- Hook: Heavy Duty/Pinned Clevis / Latch
- Heavy-Duty Roller Fairlead with Stainless Steel Rollers
- Remote Control: 12" Rubber Hand-Held
- Dimensions: 23.68" L x 8.44" W x 11.0" H (601.5mm L x 214.5mm W x 279mm H)
- Drum Diameter: 3.5" (89mm)
- Drum Length: 8.7" (220mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm)
- Installed Weight: 134 lbs (60.7 kg)
- Shipping Weight: 143 lbs (64.8 kg)
- Warranty: Limited 2-Year Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	120	11.0 (3.4)
13,500 (6,123.5 kgs)	370	4 (1.2)



TIGER SHARK 15500

Part Number:

Tiger Shark 15500: **1515200** 12V DC

Specifications

- Rated Line Pull: 15,500 lbs (7,031 kg)
- Motor: Sealed 5.7 HP (4.25 kW) Series Wound
- Gearing: 4-Stage Planetary
- Gear Ratio: 518:1
- Solenoid: Weather-Sealed Solenoid
- Freespooling Clutch: Ergo Pull and Turn
- Brake: Mechanical, Automatic Load Folding
- Wire Rope: 29/64" x 92' (11.5mm x 28m)
- Hook: Heavy Duty Clevis Pinned Latch
- Heavy-Duty Roller Fairlead Stainless Steel Rollers
- Remote Control: 12' Rubber Hand-Held
- Dimensions: 23.68" L x 8.44" W x 11.0" H
(601.5mm L x 214.5mm W x 279mm H)
- Drum Diameter: 3.5" (89mm)
- Drum Length: 8.7" (220 mm)
- Mounting Bolt Pattern: 10" x 4.5" (254 mm x 114.3 mm)
- Installed Weight: 140 lbs (63.5 kg)
- Shipping Weight: 149 lbs (67.5 kg)
- Warranty: Limited 2-Year Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	120	11.0 (3.4)
15,500 (7,031 kgs)	440	3.5 (1.0)

TIGER SHARK 17500

Part Number:

Tiger Shark 17500: **1517200** 12V DC

Specifications

- Rated Line Pull: 17,500 lbs (7,938 kg)
- Motor: Sealed 6.5 HP (4.84 kW) Series Wound
- Gearing: 4-Stage Planetary
- Gear Ratio: 518:1
- Solenoid: Weather-Sealed Solenoid
- Freespooling Clutch: Ergo Pull and Turn
- Brake: Mechanical, Automatic Load Holding
- Wire Rope: 1/2" x 90' (13mm x 27m)
- Hook: Heavy Duty / Clevis Pinned / Latch
- Heavy-Duty Roller Fairlead Stainless Steel Rollers
- Remote Control: 12' Rubber Hand-Held
- Dimensions: 23.68" L x 8.44" W x 11.0" H
(601.5mm L x 214.5mm W x 279mm H)
- Drum Diameter: 3.5" (89mm)
- Drum Length: 8.7" (224mm)
- Mounting Bolt Pattern: 10" x 4.5" (254 mm x 114.3 mm)
- Installed Weight: 150 lbs (68.0 kg)
- Shipping Weight: 159 lbs (72.12 kg)
- Limited 2-Year Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	120	11.0 (3.4)
17,500 (7,938 kgs)	460	2.8 (0.85)





HUSKY Series

High Performance Series - Extreme Duty Gear Winches

Designed and engineered in England for indestructibility, the Husky Series from Superwinch contains a virtually indestructible worm and spur gear system. Synthetic rope friendly (worm gear drive will not degrade the synthetic rope). Back-drive resistance, load-holding brake system. Remote mountable solenoid housing. Industrial grade 4.2 hp series wound motor. The Husky 8 and 10 are also available in 24V DC version.



HUSKY 8.5

Part Number:

Husky 8.5: **8552** 12V DC (**8515** 24V DC)

Specifications

- Rated Line Pull: 8,500 lbs (3,856 kg)
- Motor: Sealed 4.2 hp (3.13 kW) Series Wound
- Gearing: Worm Gear
- Gear Ratio: 229:1
- Solenoid: Metal Solenoid Assembly
- Freespooling Clutch: Lever Control
- Brake: Automatic, 100% Load Holding
- Wire Rope: winch only, rope not supplied
- Fairlead: Heavy-Duty Roller with Secure Nuted Bolts
- Remote Control: 4.5m Sealed Hand-Held
- Dimensions: 24.69" L x 9.75" D x 8.8" H (627 mm L x 248mm D x 220 mm H)
- Drum Diameter: 2.5" (63.5 mm)
- Drum Length: 9" (229 mm)
- Mounting Bolt Pattern: 10.8" x 4.92" (275 mm x 125 mm)
- Installed Weight: 88lbs (39.9 kg)
- Shipping Weight: 95lbs (43.0 kg)
- Warranty: Limited 1-year Warranty/1-year Solenoid

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	71	18.3 (5.6)
8,500 (3,856 kgs)	405	1.5 (0.5)

HUSKY 10

Part Number:

Husky 10: **8548** 12V DC (**8549** 24V DC)

Specifications

- Rated Line Pull: 10,000 lbs (4,536 kg)
- Motor: 4.2 hp (3.13 kW) Series Wound
- Gearing: Worm Gear
- Gear Ratio: 294:1
- Solenoid: Metal Solenoid Assembly
- Freespooling Clutch: Lever control
- Brake: Automatic/100% Load Holding
- Wire Rope: 10 mm x 30m
- Hook: With Latch
- Fairlead: Heavy Duty Roller Fairlead
- Remote Control: 4.5m Sealed Hand-held
- Dimensions: 24.69" L x 9.75" D x 8.8" H (617mm L x 248mm D x 223mm H)
- Drum Diameter: 3" (76mm)
- Drum Length: 9" (229mm)
- Mounting Bolt Pattern: 10.8" x 4.92" (275 mm x 125 mm)
- Installed Weight: 125 lbs (57 kg)
- Shipping Weight: 134 lbs (61 kg)
- Warranty: Limited 1-year Warranty/1-year Solenoid

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	62	22.6 (6.9)
10,000 (4,536 kgs)	450	1.5 (0.5)



Including Roller Fairlead, Rope and Rope Hook



Including Roller Fairlead, Rope and Rope Hook



LP Series

The LP8500 / LP10000 entry level winch provides reliable, powerful performance for off-road and utility operation while introducing owners to the renowned advantage of the Superwinch brand. When you're shopping value, Superwinch lets you have quality at a great price.



Standard Features

- Powers In / Power Out
- Updated Weather Resistant Motor
- Updated Weather Resistant Solenoid
- Circuit Breaker Protected
- Automatic Load Holding, Mechanical Braking
- Planetary Gear-Train- Gear Ratio 235:1
- Lever Shift Freespools Clutch
- Heavy Duty Latched Hook with Rope Thimble
- Heavy Duty Powder Coated Hawse Fairlead
- 12' Rubber Handheld Remote (LP8500)



LP8500

Part Number:

LP8500: **1585202** 12V DC

Specifications

- Rated Line Pull: 8,500 lbs (3,856 kg)
- Motor: Sealed 4.5 hp (3.3 kW) Series Wound
- Gearing: 3-Stage Planetary
- Gear Ratio: 235:1
- Solenoid: Sealed Solenoid with Circuit Breaker
- Freespooling Clutch: Lever Shift
- Brake: Automatic/100% Load Holding
- Wire Rope: 5/16" x 94' (7.9mm x 29m)
- Hook: Heavy Duty/Clevis Pinned/Latched
- Hawse: Heavy Duty Powder Coated Hawse
- Remote Control: 12' Rubber Hand-Held
- Dimensions: 21.3' L x 6.3" W 8.6" H
(541mm L x 160mm W x 218.4mm)
- Drum Diameter: 2.5" (63.5mm)
- Drum Length: 8.8" (224mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm)
- Installed Weight: 73 lbs (33.11 kg)
- Shipping Weight: 90 lbs (40.83 kg)
- Warranty: Limited 2 Year Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	84	18 (5.5)
8,500 (3,856 kgs)	320	3.5 (1.1)

LP 10000

Part Number:

LP10000: **1510200** 12V DC

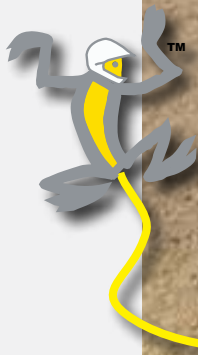
Specifications

- Rated Line Pull: 10,000 lbs (4,536 kg)
- Motor: Sealed 5.1 hp (3.8 kW) Series Wound
- Gearing: 3-Stage Planetary
- Gear Ratio: 235:1
- Solenoid: Sealed Solenoid with Circuit Breaker
- Freespooling Clutch: Lever Shift
- Brake: Automatic/100% Load Holding
- Wire Rope: 3/8" x 85' (9.5mm x 25.9m)
- Hook: Heavy Duty/Clevis Pinned/Latched
- Heavy Duty 4-way Roller Fairlead
- Remote Control: 12' Rubber Hand-Held
- Dimensions: 21.3' L x 6.3" w 8.6" H
(541mm L x 160mm W x 218.4mm)
- Drum Diameter: 2.5" (63.5mm)
- Drum Length: 8.8" (224mm)
- Mounting Bolt Pattern: 10" x 4.5" (254mm x 114.3mm)
- Installed Weight: 83 lbs (37.64 kg)
- Shipping Weight: 90 lbs. (40.83 kg)
- Warranty: Limited 2 Year Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	90	16 (4.87)
10,000 (4,536 kgs)	350	1.52 (0.46)





Designed with the toughest terrains in mind, this line of 2,500, 3,500 and 4,500 lbs rated line pull ATV and Side-by-Side winches feature a rugged all metal 3-stage planetary gear train constructed with over sized gears with unique bearing surfaces lubricated with synthetic grease providing longer life, more torque and strong enough to get users out of virtually anything they get into. Even the severe-duty textured finish resists harsh off-road abuse.

All three winches come standard with a steel drum specifically designed to withstand the rigour of synthetic rope (a Superwinch Exclusive) and are available with either galvanized wire rope with a 4-way roller fairlead or Blue AmSteel Dyneema® SK-75 synthetic rope (yellow in color and rated at 7,700 lbs – the competition's synthetic rope is only rated at 4,000 lbs at best) and attached to a heavy-duty clevis pinned latched hook. The synthetic rope models include a blue anodized aluminium hawse engraved with the Superwinch logo.

The heavy duty permanent magnet motor includes larger diameter wire within the winding (nearly twice as thick as the competition) and sealed bearings at both ends of the motor (the competition only uses one bearing and a cheap bushing on the opposite end). The highest horsepower/torque and lowest amperage draw in the industry, pulls more weight longer and faster in deep mud and water, and puts the least amount of drain on the battery.

This is the industry's first truly sealed ATV winch assembly. All seals on the entire winch from the outermost end of the motor to the ergonomic free spool control knob all meets the IP67 rating. Even the handlebar mounted rocker switch, the 10' hand-held remote and the solenoid are sealed and meet this same tough standard which ensures to keep out water, mud, snow and dust.

TERRA 25 / 25SR

Part Number:

25	1125220	12V DC
25SR	1125230	12V DC

Specifications

- Rated Line Pull: 2,500 lbs (1,134 kg)
- Motor: Sealed 1.3 hp, (.96 kW) Permanent Magnet
- Gearing: 3-Stage Planetary
- Gear Ratio: 140:1
- Sealed Solenoid with Circuit Breaker
- Freespooling Clutch: Ergonomic Control
- Brake: Automatic /100% Load Holding
- Wire Rope (25): 3/16" x 50' (4.8mm x 15.2m)
- Synthetic Rope (25SR): 3/16" x 50' (4.8mm x 15.2m)
- Hook: Heavy Duty/Clevis Pinned/Latched
- Heavy Duty 4-way Roller Fairlead (25)
- Blue Anodized Aluminium Hawse (25SR)
- Remote Control: 10' Sealed Hand-Held & Handle Bar Switch
- Dimensions: 13.2" L x 4.5" D x 4.8" H (335mm L x 114mm D x 122mm H)
- Drum Diameter: Steel 2.0" (50.8mm)
- Drum Length: 3.2" (81.3mm)
- Mounting Bolt Pattern: 3" x 4.87" (76mm x 124mm)
- Installed Weight: 25 25SR
18 lbs. (8.2 kg) 15 lbs (6.8 kg.)
- Shipping Weight: 25 25SR
29.5 lbs (13.3 kg) 23.7 lbs (10.7 kg)
- Limited Lifetime Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	25	26.0 (7.9)
2,500 (1,134)	162	10.5 (3.2)



TERRA 35 / 35SR

Part Number:

35	1135220	12V DC
35SR	1135230	12V DC

Specifications

- Rated Line Pull: 3,500 lbs (1,588 kg)
- Motor: Sealed 1.6 hp (1.2 kW) Permanent Magnet
- Gearing: 3-Stage Planetary
- Gear Ratio: 140:1
- Solenoid : Sealed Solenoid with Circuit Breaker
- Freespooling Clutch: Ergonomic Control
- Brake: Automatic/100% Load Holding
- Wire Rope: 13/64" x 50' (5.2mm x 15.2m) (35)
- Synthetic Rope: 3/16" x 50' (4.8mm x 15.2m) (35SR)
- Hook: Heavy Duty/Clevis Pinned/Latched
- (35) Heavy Duty 4-way Roller Fairlead
- (35SR) Blue Anodized Aluminum Hawse
- Remote Control: 10' Sealed Hand-held & Handle Bar Switch
- Dimensions: 13.4" L x 4.5"D x 4.8" H (340mm L x 114mm D x 122mm H)
- Drum Diameter: 2.0" (50.8mm)
- Drum Length: 3.2" (81.3mm)
- Mounting Bolt Pattern: 3.0" x 4.87" (76mm x 124mm)
- Installed Weight: 35 35SR
20 lbs (9.1 kg) 17 lbs (7.7 kg)
- Shipping Weight: 35 35SR
30.9 lbs (14.0 kg) 25.2 lbs (11.4 kg)
- Warranty : Limited Lifetime Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	19	24.0 (7.3)
3,500 (1,588)	190	10.2 (3.1)



TERRA 45 / 45SR

Part Number:

45	1145220	12V DC
45SR	1145230	12V DC

Specifications

- Rated Line Pull: 4,500 lbs (2,041 kg)
- Motor: Sealed 1.6 hp (1.2kW) Permanent Magnet
- Gearing: 3-Stage Planetary
- Gear Ratio: 191:1
- Solenoid : Sealed Solenoid with Circuit Breaker
- Freespooling Clutch: Ergonomic Control
- Brake: Automatic/100% Load Holding
- Wire Rope: 1/4" x 55' (6.5mm x 16.8m) (45)
- Synthetic Rope: 1/4"x 50' (6.5mm x 15.2m) (45SR)
- Hook: Heavy Duty / Clevis Pinned / Latched
- (45) Heavy Duty 4-way Roller Fairlead
- (45SR) Blue Anodized Aluminium Hawse
- Remote Control: 10' Sealed hand-held & Handle Bar Switch
- Dimensions: 15.1" L x 4.5"D x 4.8" H (384mm L x 114mm D x 122mm H)
- Drum Diameter: 2.0" (50.2mm)
- Drum Length: 4.9" (124.5mm)
- Mounting Bolt Pattern: 3.0" x 6.66" (76mm x 169mm)
- Installed Weight: 45 45SR
22.0 lbs (10.0 kg) 19.0 lbs (8.6 kg)
- Shipping Weight: 45 45SR
34.0 lbs (15.4 kg) 27.9 lbs (12.7 kg)
- Warranty: Limited Lifetime Warranty

Performance (First layer on drum)

Line Pull lb (kg)	Motor Amps	Line Speed FPM (MPM)
0	21	15.0 (4.6)
4,500 (2,041)	178	5.5 (1.7)



HYDRAULIC SERIES ADVANTAGE



For tough winching applications, no product performs better than Superwinch hydraulic winches.

- The Superwinch line of hydraulic winches provides you with a continuous duty solution to your winching requirements.
- Designed with the toughest commercial/industrial applications in mind.
- Available in a full range of planetary and worm gear drives with capacities from 8,000 to 30,000 pounds.
- Many of our hydraulic winches are rated in accordance to SAE J 706 standards and are CE certified.
- Engineered to ensure total reliability.
- Most models are available with manual or pneumatic free spool, load holding brakes, and LCV to give you precise control of your load.

H8P

Part Number:

H8P: **5050A**

Specifications

- Rated Line Pull: 8,000 lbs (3,630 kg)
- Motor: High torque
- Gearing: 2-Stage Planetary Differential
- Gear Ratio: 16:1
- Maximum Oil Pressure: 1,800 psi (124.13 BAR) 126.58 kg/cm2
- Maximum Oil Flow: 15 gpm (57 l/min)
- Freespooling Clutch: Manual Release Lever Pneumatic P/N 5603
- Short Drum: 23" L x 8.25" D x 9.0" H (584.2mm L x 209.5mm D x 228.6mm H)
- Recommended Wire Rope: 3/8" (9.5mm) x 75' (23m)
- Long Drum: 25.5" L x 8.25" D x 9.0" H (647.7mm L x 209.5mm D x 228.6mm H)
- Recommended Wire Rope: 3/8" (9.5mm) x 100' (30m) long drum
- Drum Diameter: 3.5" (90mm)
- Drum Length: Short Drum 7.5" (190mm)
- Drum Length: Long Drum 10" (254mm)
- Roller Fairlead: Optional P/N 5600 (short drum) / 5610A (long drum)
- Mounting Bolt Patten: Side, Foot, Angle, Flatbed, or Low Mount
- Installed Weight: 84 lbs (38 kg) without wire rope
- Shipping Weight: 92 lbs (41.73 kg) without wire rope
- Limited One Year Warranty

Performance (First layer on drum)

Line Speed FPM (MPM) 40 (13.8)

H10P

Part Number:

H10P: **5170A**

Specifications

- Rated Line Pull: 10,000 lbs (4,540 kg)
- Motor: High torque
- Gearing: 2-Stage Planetary Differential
- Gear Ratio: 16:1
- Maximum Oil Pressure: 1,700 psi (117.24 BAR) 119.55 kg/cm2
- Maximum Oil Flow: 15 gpm (57 l/min)
- Freespooling Clutch: Spring engaged/Optional Pneumatic P/N 5603
- Short Drum: 23" L x 8.25" D x 9.0" H (584.2mm L x 209.5mm D x 228.6mm H)
- Recommended Wire Rope: 7/16" (11mm) x 75' (23m)
- Long Drum: 25.5" L x 8.25" D x 9.0" H (647.7mm L x 209.5mm D x 228.6mm H)
- Wire Rope: 7/16" (11mm) x 100' (30m) long drum
- Drum Diameter: 3.5" (90mm)
- Drum Length: Short Drum 7.5" (190mm)
- Drum Length: Long Drum 10" (254mm)
- Roller Fairlead: Optional P/N 5600 (short drum) / 5610A (long drum)
- Mounting Bolt Patten: Side, Foot, Angle, Flatbed, or Low Mount
- Installed Weight: 84 lbs (38 kg) without wire rope
- Shipping Weight: 92 lbs (41.73 kg) without wire rope
- Limited One Year Warranty

Performance (First layer on drum)

Line Speed FPM (MPM) 30 (9.4)





Winch-In-A-Bag® - a convenient self recovery winch kit with everything you need to keep going. Whether rescuing yourself or others from danger, unloading or loading your boat, off-road with your 4-wheel drive vehicle, ATV or snowmobile or on the job site pulling a load closer to your truck, this winch is handy and ready.

Features

- 12V DC motor powers load In and Out
- Wire rope 5/32" (3.9mm) x 49' (15m)
- Pull and turn free spooling clutch
- 8' (2.4m) remote control
- 8-gauge wiring with color coded quick connects
- 4' (1.2m) and 6' (1.8m) Tree-saver straps
- 1 Ton shackle
- Direct connect wiring harness & circuit breaker
- Jumper cable wiring harness
- Storage bag

Benefits

- Rated line pull 2000 lb (907 kg)
- Completely portable
- No permanent installation required
- Fast set-up and easy to use
- Can be carried from vehicle to vehicle
- Versatile, compact and lightweight

WINCH-IN-A-BAG®

Part Number:

WINCH-IN-A-BAG

1120149 12V DC

Specifications

- Rated Line Pull: 2,000 lbs (907 kg)
- Motor: 1.0 hp (.75 kW) Permanent Magnet
- Gearing: 1-Stage Planetary
- Gear Ratio: 153:1
- Circuit Breaker Protected
- Freespooling Clutch - Pull & Turn
- Brake: N/A
- Wire Rope 5/32" x 49' (3.9mm x 14.9m)
- Hook: 1/4" Heavy Duty/Clevis Pinned/Latched
- Teflon® Winch Rope Guide
- Remote Control: 8' Hand-Held
- Versatile, Compact & Light Weight
- Drum Diameter: 1.25" (31.8mm)
- Drum Length: 2.83" (72.0mm)
- Completely Portable No Mount Required
- Installed Weight: 16.15 lbs (7.32 kg)
- Shipping Weight: 24 lbs (10.88 kg)
- Limited One Year Warranty
- Heavy Duty 4' and 6' strap
- Bow Shackle
- Storage Bag





Wireless Remote Control System

- Plug & Play remote control for Talon and Terra Series
- Superior FM Signal 868 MHz - Operates up to 50 feet away
- Transmitter & Receiver meets IP67 Standard
- Transmitter Floats in Water
- Operates on 12V or 24V



Part Number:

Certus Wireless Remote for Talon Series

06715



Part Number:

Certus Wireless Remote for Terra Series

06717



Talon 9000 lbs Military Winch

Part Number:

61695102 12V DC

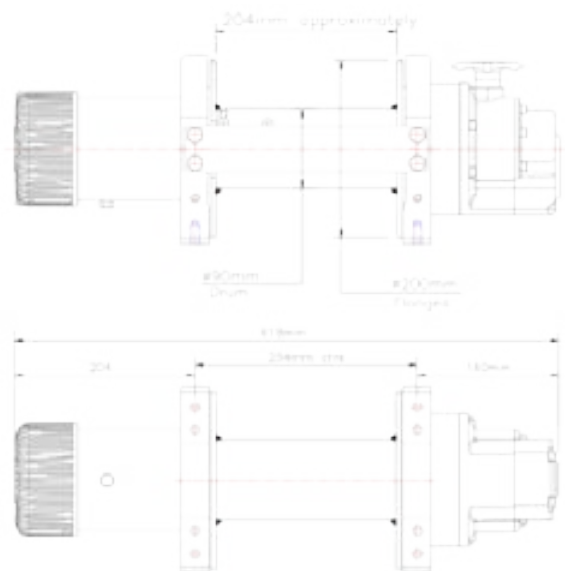
61695101 24V DC

Specifications

- Rated Line Pull (bottom layer): 40.3kN (4,100kg)
- Line Speed (bottom layer no load): 25m/min
- Motor Amps @ 4,100kg: 400 amps
- Drum Dimensions: 90mm $\varnothing$ x 204mm L, 200mm flanges
- Rope Diameter, recommended: 10mm (1960 grade)
- Rope length, maximum: 30m
- Weight, Excluding Wire Rope: 35kg, (bare winch)
- Line Pull, 2nd layer: 33.66 kN (3,431 kg)
- Line Pull, 3rd layer: 28.85 kN (2,941 kg)
- Line Pull, 4th layer: 25.69 kN (2,619 kg)

Talon 4.1 Tonne Military Winch, 24v
Winch
Roller Fairlead
Cable Tensioner
10mm x 30m wire rope

p/n	weight
61695102	35kg
90-32505	5kg
0563S	3kg
0563S	14kg



- | | |
|-------------------|--|
| Gear Reduction: | Heavy Duty Spur / Planetary gearing for long, reliable life, 148:1 ratio |
| Support Housings: | Heavy Duty Sand Cast Aluminium for extra strength |
| Drum: | Heavy duty, steel drum, mounted on low maintenance plain bearings |
| Braking: | Heavy duty automatic brake gives full load holding |
| Load Limiting: | Electronic cut-out, (solid-state) |
| Control Box: | Waterproof, Stainless construction |
| Construction: | Waterproof, built to IP67, fully submersible to 1 metre |

**MILITARY
WINCH**



Terrafirma Winch Bumpers & Mounts

The Terrafirma range of bumpers and winch mounts has been designed to meet the broad range of winching and off road activities carried out by Land Rover owners and operators. A combination of performance and practicality has been employed in the development of these bumpers, from recreational and serious off road to commercial and military use.

The entire range has been created around the comprehensive and highly respected Superwinch LP, Talon and Tiger Shark winch ranges from 8500-18000lbs pulling capacity. Of course with most makes of winch sharing common physical dimensions and traditional 10" x 4.5" bolt patterns the majority will fit quite happily into a Terrafirma winch bumper or mount.

All Terrafirma bumpers are made from steel which are then sand blasted, zinc phosphate washed and powder coated semi-gloss black for a factory quality finish. Bumpers include jacking and recovery points where appropriate and are built tough and able to take on the rigours of serious off road and commercial use. Space is built into the chassis mounting brackets on all Defender bumpers to allow for steering guard brackets to fit between and spacers are included in the fitting kits to take up the clearance if no guard is to be fitted.



TF009



TFSRP



TF090





Tubular Bumpers

Tubular winch bumpers have become very popular with both recreational and competitive off roaders. The A bar is often seen as an important structural part of tubular bumper design. The all in one construction of the Terrafirma tubular bumper ensures a considerable strength advantage over others, with the integral perforated front plate not only providing the style but also allowing cooling air to the radiators. Tubular winch bumpers are available with or without the A bar to suit your personal preference.

The tubular winch bumper specifically for Defender's without air conditioning is designed primarily for serious off road use. To provide the extreme approach angle required the bumper is set well back and the grill and lower front panel will need to be cut to facilitate a winch fitment. These items are not structural and do not affect the vehicle's integrity and the improvement in off road ability is always considered to be the priority. The bumper suitable for air conditioned Defenders has slightly reduced approach angle in order to accommodate the extended front panel which simply requires the louvered plastic grill to be modified slightly.

Defender owners looking for the tubular look but have no need for a winch can choose the Terrafirma Tubular non-winch bumper option in both air con and non-air con versions.



TF006

Pro Taper Bumpers

When strength, functionality and good looks are the ultimate goal the Terrafirma Pro Taper bumper range for both air conditioned and non-air conditioned Defenders will be your choice.

With these bumpers the winch is raised above the chassis rails and with tapered and swept back wings approach angle and styling are optimised even with the air conditioned versions. The Terrafirma Pro Taper bumpers are available to suit both the conventional 'small chassis' winches with pulling capacities up to 12000lbs as well as the 'Bigger is Better' super strong option for 'large chassis' winches from 12,000-18000lbs pulling capacity.

With large, high capacity winches becoming ever more popular for commercial and recreational use these bumpers for big and powerful winches are unmatched in the market place. Air cooling slots, built in recovery and jacking points complete these superb winch bumpers.



Commercial Winch Bumpers

TerrafirMa Defender commercial winch bumpers are designed to accommodate the most popular mid-range winches, in particular those from Superwinch and Warn. The bolt pattern dimensions of 10" x 4.5" are common for almost every brand of winch constructed with inline motor-drum-gearbox configuration. Regarded as a standard type, the Commercial winch bumper is ideal for the user looking for additional protection and conventional winch mounting without the increased off road performance provided by the Tubular and Pro Taper bumpers.

The bumpers are made from 5mm steel and are very strong in their construction. Each bumper incorporates 2 jacking points that will accept the standard Land Rover jack or a Hi-lift jack as well as 2 recovery points.



TF002ACS



TF004

Discrete Winch Mounts

For owners who require a winch and wish to retain the original vehicle looks and do not require the additional protection provided by a replacement bumper a TerrafirMa discrete winch mount is the perfect option. For all Discovery models there is sufficient space behind the original bumper to allow a winch to be fitted into a chassis mounted bracket. The only evidence that a winch is fitted is the fairlead protruding through the front bumper which can be hidden by the licence plate when not in use.

The kits for Discovery 1 and 2 offer a straight forward solution to mounting a winch behind the original bumper, whereas the significantly more sophisticated Discovery 3 requires a much more elaborate kit to take into consideration the relocation of certain parts in order to create the space to be occupied by the winch. All components necessary are included in the Discovery 3 kit as well as comprehensive instructions and templates that are required to correctly cut and remove plastic trim parts and accurately locate the fairlead into the front bumper. Although the Discovery 3 has a substantial front towing point, TerrafirMa offers an additional pair of heavy duty recovery points as an option that can be bolted into the winch mounting tray that will protrude through the front bumper for easy access.



TF078

See next page our winch fitting guide to identify which Superwinch winch fits your bumper choice.



TERRAFIRMA BUMPERS AND WINCH MOUNTS	90/110/130		D1	D2	P38	D3
	Without AC	With AC				
Heavy Duty Tapered Bumper	TF055					
Heavy Duty Tapered Bumper With Centre Towing Pin And Recovery Points	TF055WRP					
Commercial Winch Bumper Superwinch	TF002ST	TF002ACST				
Commercial Winch Bumper Warn	TF002W	TF002ACW				
Commercial Winch Bumper To Suit Superwinch Husky 8 & 10	TF004	TF004AC				
Tubular Winch Bumper With A Bar	TF001	TF001AC				
Tubular Winch Bumper Without A Bar	TF003	TF003AC				
Tubular Non Winch Bumper	TF005	TF005AC				
Pro Taper Winch Bumper Suits Small Chassis Winches	TF006	TF006AC				
Pro Taper Winch Bumper Suits Large Chassis Winches	TF060	TF060AC				
Winch Bumper With Swivel Recovery Points			TF095	TF009	TF007	
Winch Bumper Without Swivel Recovery Points				TF009A	TF007A	
Rear Bumper With Swivel Recovery Points				TF090	TF070	TF080
Rear Bumper Without Swivel Recovery Points			TF889	TF090A	TF070A	TF080A
Discrete Winch Mount			TF077	TF078		TF096
Swivel Recovery Points			TFSRP			
D3 Winch Mount Recovery Point Kit						TFD3RPK

■ BLUE color indicates that these parts are also available with TUV certification. To quote a TUV part number when contacting us, just add TUV to the part number. e.g. TF201TUV



Bumper winch fitting guide *

P/N	Winch model	Fitting Issues
TF001	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 9.5i, 9.5iSR, 12.5, 12.5SR, 12.5i & 12.5iSR, Tiger Shark 9500 & 11500	Requires grill and lower front panel modifications
TF001AC	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 9.5i, 9.5iSR, 12.5, 12.5SR, 12.5i & 12.5iSR, Tiger Shark 9500 & 11500	Requires grill and possibly lower front panel modifications
TF002ST	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 9.5i, 9.5iSR, 12.5, 12.5SR, 12.5i & 12.5iSR, Tiger Shark 9500 & 11500	No fitting issues
TF002ACST	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 9.5i, 9.5iSR, 12.5, 12.5SR, 12.5i & 12.5iSR, Tiger Shark 9500 & 11500	No fitting issues
TF002W	Warn Tabor 9k & 12k, M8000, XD9000, XD9000i, 9.5ti, 9.5XP & 12.0XE	No fitting issues
TF002ACW	Warn Tabor 9k & 12k, M8000, XD9000, XD9000i, 9.5ti, 9.5XP & 12.0XE	No fitting issues
TF003	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 9.5i, 9.5iSR, 12.5, 12.5SR, 12.5i & 12.5iSR, Tiger Shark 9500 & 11500	Requires grill and lower front panel modifications
TF003AC	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 9.5i, 9.5iSR, 12.5, 12.5SR, 12.5i & 12.5iSR, Tiger Shark 9500 & 11500	Requires grill and possibly lower front panel modifications
TF004	Superwinch Husky 8 and Husky 10	No fitting issues
TF004AC	Superwinch Husky 8 and Husky 10	No fitting issues
TF006	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 9.5i, 9.5iSR, 12.5, 12.5SR, 12.5i & 12.5iSR, Tiger Shark 9500 & 11500	No fitting issues
TF006AC	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 9.5i, 9.5iSR, 12.5, 12.5SR, 12.5i & 12.5iSR, Tiger Shark 9500 & 11500	No fitting issues
TF060	Superwinch Talon 14.0, 14.0SR, 18.0 & 18.0SR, Tiger Shark 13500, 15500 & 17500	No fitting issues
TF060AC	Superwinch Talon 14.0, 14.0SR, 18.0 & 18.0SR, Tiger Shark 13500, 15500 & 17500	No fitting issues
TF007	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 12.5, 12.5SR, Tiger Shark 9500 & 11500	Requires chassis cross member removal
TF007A	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 12.5, 12.5SR, Tiger Shark 9500 & 11500	Requires chassis cross member removal
TF077	Superwinch LP8500 & LP10000, Tiger Shark 9500 & 11500	Requires minor bumper modification
TF078	Superwinch LP8500 & LP10000, Tiger Shark 9500 & 11500	Requires minor bumper modification
TF009	Superwinch LP8500 & LP10000, Tiger Shark 9500 & 11500	Requires minor grill, lower front panel & inner plastic wheel arch modifications
TF009A	Superwinch LP8500 & LP10000, Tiger Shark 9500 & 11500	Requires minor grill, lower front panel & inner plastic wheel arch modifications
TF095	Superwinch LP8500 & LP10000, Tiger Shark 9500 & 11500	Requires minor grill, lower front panel & inner plastic wheel arch modifications
TF096	Superwinch LP8500 & LP10000, Talon 9.5, 9.5SR, 12.5, 12.5SR, Tiger Shark 9500 & 11500	Requires minor bumper & plastic ducting modifications & sundry part relocation

* GUIDE ONLY AND SUBJECT TO FUTURE CHANGES

Terrafirma Recovery Straps

Recovery straps of varying lengths are a vital part of any off roader's kit. Terrafirma recovery straps will suit all recovery situations involving light to heavy 4x4 vehicles.

- **Terrafirma Snatch Straps** are constructed from a complex bright orange nylon material designed to stretch up to 20%, which when used to recover a stuck vehicle uses the kinetic energy stored in the strap under tension to help extract the vehicle from its bogged situation. A snatch strap should be used in all vehicle recovery and towing situations as the stretch provides a much more forgiving and less jarring connection between the vehicles.
- **Terrafirma Tree Straps** are wider than other recovery straps, this is important to prevent ring barking or damage to trees when using them as a suitable anchor point when winching. Tree straps are produced from bright green nylon to clearly identify them from other recovery straps.
- **Terrafirma Extension Straps** can be used for towing but as they do not stretch they give a hard connection between the two vehicles, the most suitable and common use is to extend the length of the winch cable in situations when the recovery vehicle or the only tree in site is out of reach. Terrafirma extension straps are made from purple nylon to clearly distinguish them from other straps in your kit bag.

All Terrafirma recovery straps come with reinforced eyes and are sleeved to protect the stitching. The capacity and length of each strap should be carefully considered when selecting to suit the weight of the vehicle and circumstances in which they are to be used.



Recovery Straps

Description	Terrafirma Snatch Strap	Terrafirma Snatch Strap	Terrafirma Snatch Strap	Terrafirma Tree Strap	Terrafirma Tree Strap	Terrafirma Extension Strap	Terrafirma Extension Strap
Part number	TFSS8000	TFSS11000	TFSS15000	TFTS3M	TFTS5M	TFES4500	TFES8000
Min breaking strength	8000kg	11000kg	15000kg	12000kg	12000kg	4500kg	8000kg
Colour	Orange	Orange	Orange	Green	Green	Purple	Purple
length	9m	9m	9m	3m	5m	20m	20m
width	60mm	80mm	110mm	80mm	80mm	55mm	80mm
stretch	20%	20%	20%			n/a	

Terrafirma Recovery Equipment

Recovery equipment is essential off road kit. All 4x4 vehicles should have at least a tow rope, a shackle and a pair of gloves on board, winch equipped vehicles should carry more to make the best use of the winch and of course recreational and competitive 'winches' will have selected a whole range of useful items such as different length straps, various shackles and snatch (pulley) blocks.

Terrafirma has its own range of recovery kit selected from high quality manufacturers. Everything is tested and rated and is fit for both commercial and recreational use.

Only the best performing recovery equipment is considered to support Terrafirma 4x4 accessories.

Terrafirma offers a range of products to ensure your off road activities are carried out with safety and performance in mind.

Synthetic winch ropes are almost becoming standard fit on winches these days. In fact Superwinch offer most of their Talon winches with synthetic rope as an option.

Synthetic rope is only a fraction of the weight of steel cable but is impressively up to 45% stronger making it easier and safer to use than conventional steel wire cable. Unlike wire cable, synthetic winch rope has minimal recoil or whiplash in the rare event of a breakage. Synthetic rope is very lightweight, handles easily and even floats on water. Other advantages include no curls, kinks, wire splinters or sore fingers. Each Superwinch synthetic rope comes with a steel thimble, a large safety hook and a 10 ft. heat guard to protect the rope from winch overheating.

The Terrafirma range includes: Rated shackles and snatch blocks, Tow ropes & recovery ropes, choker chains and hook and eye winching straps and a selection of tree straps.

SUPERWINCH ACCESSORIES



ACCESSORIES	
7750	Pulley block, swingaway type 9000 kgs suits 8500 to 12000 lbs winches
7755	Pulley block, swingaway type 13,600 kgs suits 12500 to 18000 lbs winches
90-32473	Roller fairlead - all Talons
90-24507	Aluminium hawse fairlead - suitable for all Talons (except Rock 98)
90-24509	Aluminium hawse fairlead - suitable for Rock 98 only
90-24550	Wire rope - suitable for Talon 9.5/9.5i & 12.5/12.5i
90-24555	Clevis hook - suitable for Talon 9.5/9.5i & 12.5/12.5i wire rope models
90-24506	Synthetic rope - suitable for Talon 9.5/9.5i & 12.5/12.5i
90-24556	Clevis hook - suitable for Talon 9.5/9.5i & 12.5/12.5i synthetic rope models
90-24510	Synthetic rope - suitable for Rock 98
90-24563	Wire rope - suitable for Talon 14.0 & 18.0
90-24556	Clevis hook - suitable for Talon 14.0 & 18.0 wire rope models
90-24564	Synthetic rope - suitable for Talon 14.0 & 18.0
90-24567	Clevis hook - suitable for Talon 14.0 & 18.0 synthetic rope models
90-24511	Latched half link hook for Synthetic Rope - fits Rock 98



KTR5



RBS4



AWG

Recovery Equipment	Part No.
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Green Pin® Hi-Load Shackles

WII 4.75 T Green Pin Bow Shackle - 22mm Pin [28.5T MBL]	GPABSA19
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Standard Hi-Load Shackles - [Silver/Yellow Pin]

WII 3.25 T Bow Shackle - 19mm Pin [19.5T MBL]	RBS3
WII 4.75 T Bow Shackle - 22mm Pin [28.5T MBL]	RBS4

Swing Away Snatch Blocks

16000 lb 3 3/4" Dia Sheave Medium Duty	RSSB 16
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Miscellaneous Products

Choker Chain - Grade 70 WII 1.75T 8mm X 3m - Grab Hooks Each End [7T MBL]	RCC 08
Winching Gloves [Leather & Cotton]	AWG

Tow Ropes

24mm Dia Nylon X 5m - [12000 Kg MBL]	NTR 5
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Kinetic Recovery Ropes

24 mm Dia Nylon Octoplat X 5m - [12000 Kg MBL]	KTR 5
24 mm Dia Nylon Octoplat X 8m Long - [12000 Kg MBL]	KTR 8

Duplex Straps With Masterlink & Hook

90mm X 2m - C/W Masterlink And Safety Hook	DX3T02MMLH
90mm X 3m - C/W Masterlink And Safety Hook	DX3T03MMLH

Duplex Tree/ Tow Straps

50mm Wide Duplex X 2m - [7000 kg Mbl]	DX1T02M
50mm Wide Duplex X 3m - [7000 kg Mbl]	DX1T03M
50mm Wide Duplex X 4m - [7000 kg Mbl]	DX1T04M
50mm Wide Duplex X 5m - [7000 kg Mbl]	DX1T05M
50mm Wide Duplex X 6m - [7000 kg Mbl]	DX1T06M
90mm Wide Duplex X 2m - [21000kg Mbl]	DX3T02M
90mm Wide Duplex X 3m - [21000kg Mbl]	DX3T03M
90mm Wide Duplex X 4m - [21000kg Mbl]	DX3T04M
90mm Wide Duplex X 5m - [21000kg Mbl]	DX3T05M
90mm Wide Duplex X 6m - [21000kg Mbl]	DX3T06M

Marlow®

Marlow Dynaline

9mm x 30m Dynaline winch rope	200015
10mm x 30m Dynaline winch rope	200016

Serious About Synthetic

At Superwinch, we love synthetic. The Synthetic rope used by Superwinch is a Dyneema® product, the strongest fibre in the world. Great care and caution is taken in sourcing of synthetic as the Superwinch Lab has found most synthetic on the market today to be unfit for winching. Users can trust their synthetic only if they trust the sourcing choices their manufacturer made.

Is synthetic right for you? The benefits of synthetic rope are many: lightweight, almost no retained energy – falls to the ground under failure, easy on the hands and it even floats. The downsides are less abrasion resistance, susceptible to heat build up (an issue for common, non-Superwinch winches with a brake in the drum). Superwinch sells synthetic into each market we serve from trailers to off-road to military and industrial work.



TALON Series
Dyneema®



TERRA Series
Dyneema®

Serious About Drums for Synthetic

During the Superwinch Lab testing of synthetic rope, Superwinch discovered the rope puts a very different strain on drums compared to wire cable. Where the wire will layer on top of layer, synthetic ropes want to dive between layers. The result is broken cast aluminum drums. That's why Superwinch developed special reinforced steel drums on our Talon, Terra and select S series winches. Only winches from these series are approved for both wire and synthetic. Updating older winches to synthetic is not recommended as the unique forces synthetic ropes put on drums goes beyond their intended capacities.



Standard S Series
cast aluminum
drum for wire rope



Steel S Series
drum for
synthetic rope



Competition
Cracked
Aluminum
Drum



TERRA
SERIES
Steel Drum

ODYSSEY

THE EXTREME BATTERY



Designed and built to last up to 3 times as long.

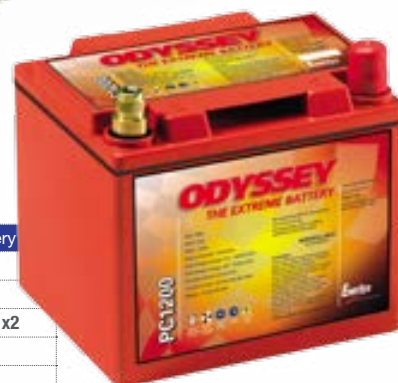
Thanks to rugged construction and AGM (Absorbed Glass Mat) design, ODYSSEY batteries have an 8-12 year design life and a 3-10 year service life. Welded intercell connections enable it to withstand extreme vibration, and AGM design holds acid in place to prevent spills, even when installed on its side. And unlike conventional batteries, ODYSSEY batteries can be stored for up to 2 years and still be returned to full power.

Some batteries provide enormous cranking power. Others, deep cycle reserve power. The revolutionary ODYSSEY® battery is designed to do both.

How is this possible? The answer begins with flat plates made of 99.99% pure virgin lead - not lead alloy. Pure lead plates can be made thinner, so we can fit more of them in the battery. More ODYSSEY battery plates mean more plate surface area. And that means more power – twice as much as conventional batteries.

In fact, ODYSSEY batteries are capable of providing engine cranking pulses in excess of 2250 amps for 5 seconds – double to triple that of equally sized conventional batteries, even at very low temperatures. And they can handle 400 charge-discharge cycles to 80% depth of discharge.

This extreme combination of power and performance makes ODYSSEY batteries perfect for a range of applications, including automotive/LTV, marine, commercial, and powersports.



Vehicle model	Engine type	Year	Replacement	Upgrade	Dual battery
Series	Petrol	1971 to 1985	PC1500DT	PC2150S	
Series	Diesel	1971 to 1985	PC2150		
Defender 90/110/130	All except Td5	1983 to 2006	PC1500DT	PC2150S	PC1500DT x2
Defender 90/110/130	Td5	1998 to 2006	PC2150S		
Defender 90/110/130	All	2007 on	PC1350		
Discovery 1	All	1989 to 1998	PC1500DT		PC1500DT x2
Discovery 2	Petrol	1998 to 2004	PC1500DT	PC2150S	
Discovery 2	Td5	1998 to 2004	PC2150S		
Discovery 3 and 4	All	2004 on	PC1350		
Freelander 1	1.8 Petrol	1996 to 2006	PC1200		
Freelander 1	Diesel & 2.5V6	1996 to 2006	PC1220		
Freelander 2	All	2006 on	PC1220		
Range Rover Classic	All	1971 to 1995	PC1500DT		PC1500DT x2
Range Rover P38	Diesel	1995 to Oct 2000	PC2150		
Range Rover P38	Petrol	1995 to Oct 2000	PC1500DT		
Range Rover P38	All	Oct 2000 on	PC1350		
Range Rover L322	All	2002 on	PC1350		
Range Rover Sport	All	2005 on	PC1350		

WINCHES AND WINCHING TIPS

WINCH SELECTION

When selecting a vehicle mounted winch for any application there are two main criteria to be taken into account, 1) Power, and 2) Duty Cycle.

1) **Power**, The winch must be powerful enough to do the job. If the work being done requires a winch effort of 2.0 tonnes then obviously a winch with a rating of 1.5 tonnes will not be powerful enough, however, if we use a winch with a rating of 2.7 tonnes the winch will be powerful enough to do the job.

NOTE: The power requirements will be similar whether the winch is electric, mechanical or hydraulic, i.e.: is the winch powerful enough to suit the application?

2) **Duty Cycle**, To exert 2.0 tonne effort at the first layer of rope on the drum of a 2.7 tonne rated winch the winch may be exerting 75% of its available power, on the third layer of rope on the drum the winch may be exerting 92% of its available power.

In a typical 2.7 tonne rated electric winch, these figures may equal 300 to 400 amps, any small electric motor drawing this high current will generate an enormous amount of heat and will have an extremely short life.

NOTE: Unlike the Power requirements, the duty cycle will vary greatly depending whether the winch is electric, mechanical or hydraulic. An electric winch operating at 80 or 90% of its rating will have a short life, but a mechanical or hydraulic winch operating at 80 or 90% of its rating will have a much longer life.

When deciding which winch will be suitable for your application the following details should be taken into account:

a) **Load to be moved:**
This will include details such as weight of load, type of load, (vehicle, container, self recovery etc), if a wheeled load, is the vehicle running gear in good condition, are tyres inflated to correct pressure, is the vehicle being recovered a breakdown or is it accident damaged.
If not a wheeled load, is the load on skids, if so, what type of skids, material and position.

b) **Terrain that load is to be moved on:**
Terrain details will include surface type, metalled road, grass, mud, sand or any other type of surface.
Gradient: (slope), that the load is to be pulled up.
It should be noted that the surface will be included in gradient details, If the surface is not smooth, surface irregularities can make a substantial difference to the effort required to move the load.

Examples:

To push a vehicle weighing, say, 1.5 tonne, along a flat level surface will require little effort, but if one wheel rolls into a 50mm deep pot hole it will be far more difficult to push.

Likewise, a wheeled vehicle can be pushed, (or pulled), with little effort when all tyres are inflated properly, but if one or two tyres are flat, the effort required is much greater.

From the above, it will be seen that selecting a winch for any application is not as simple as it may at first appear, If the winch is mechanical or hydraulic the selection should be simple, If the winch is electric the selection may be less

simple.

A mechanical or Hydraulic winch, as far as vehicle mounted winches are concerned may be rated on a continuous basis, an electric winch, even a "heavy duty" electric winch should only be rated as intermittent duty.

A typical application may be general breakdown work recovering saloon cars and occasional vans, of up to: 3.5 tonnes, duty cycle may be up to 6 operations per day.

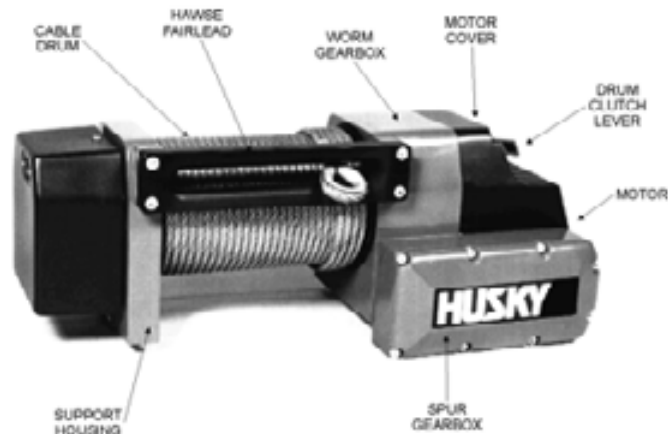
Assuming a ramp angle of, say, 30 degrees the effort required to recover a 3.5 tonne vehicle will be approximately: 2.0 tonne.

A typical mechanical or hydraulic winch rated at 3.6 tonnes will not pull this load when the rope drum has 5 layers of wire rope, (the winch rating is based on first layer of wire rope on the rope drum), as rope layers increase, winch capacity decreases, i.e.: first layer = 3.6 tonne, fourth layer = 1.8 tonne, in this example a mechanical or hydraulic winch of 4.5 tonne rating would be required.

In this example, if the only power available is electric, a 4.5 tonne electric winch will pull this load, but, on the first layer of rope on the drum the winch will be operating at 55% of its rating, on the fourth layer this figure rises to 90% of its rating, This may be equivalent to 200 to 320 amps, because the higher loads will only be occasional, this winch will do the job, but will have a shorter life than the mechanical or hydraulic winch, a pulley block may be necessary to relieve the load on the winch.

NOTE: In these examples the ramps etc are assumed to be flat, rigid and smooth.

Whatever type or model of winch is to be used, the owners handbook should be obtained, read and fully understood, by the operator/s, before attempting to operate the winch.



THE THEORY OF WINCHING:

For winching purposes the resistance to motion of a wheeled vehicle is dependent on 4 main factors:

- 1) The inherent resistance to movement of the vehicle.
- 2) The total weight of the vehicle.
- 3) The nature of the surface to be crossed.
- 4) The gradient up which the vehicle is to be moved.

The ground surface and gradient the load is to be moved over will affect the effort required to move the load, the approximate surface resistance is as follows:

Hard metallised road:	0.04	times vehicle weight.
Grass:	0.145	times vehicle weight.
Sand, (hard wet):	0.17	times vehicle weight.
Gravel:	0.2	times vehicle weight.
Sand, (soft wet):	0.2	times vehicle weight.
Sand, (soft dry / loose):	0.25	times vehicle weight.
Shallow mud:	0.33	times vehicle weight.
Bog / Marsh:	0.5	times vehicle weight.
Clay:	0.5	times vehicle weight.

For practical winching purposes, gradient resistance can be taken as 1/60th of the weight of the vehicle for each degree of the slope up to 45 degrees, after 45 degrees the full weight of the vehicle should be used.

This information will allow you to calculate the approximate effort required to pull a wheeled vehicle across different surfaces and up various inclines.

In the following example we have a vehicle that weighs 2.0 tonnes, the surface is gravel and the incline is 15 degrees.

GRADIENT:
Gradient X Weight 60 = 15 X 2,000 60 = 500 kg

SURFACE:
Weight X Surface resistance = 2,000 X 0.2 = 400 kg

In this example the effort needed to pull this vehicle up this incline and upon this surface will be: 500 kg + 400 kg = 900 kg.

NOTE: This figure is approximate and should be used as a guide, there are many factors which may affect the resistance of a load to move, tyre pressures, surface irregularities, some surfaces react differently when wet etc.

WINCHING:

There are a few basic rules that should be adhered to when attempting to use a winch.

PREPARATION:

Time spent on preparation is time well spent: Is the equipment compatible with the winch being used? Is the equipment suitable for the application? All winching equipment, strops, shackles, pulley blocks and any other kit should be checked for any damage. Waiting until the winch is about to be used in anger before checking the winch equipment is a sure recipe for disaster.

NOTE: Always have heavy-duty gloves available to be used when winching or handling winching equipment, wire ropes etc, these gloves must be in good condition.

WIRE ROPES:

When handling wire ropes, always wear heavy-duty gloves.

Wire ropes can be dangerous if not handled correctly, examine wire ropes for any signs of wear or damage frequently, Before, During and After winching.

If a wire rope sustains damage, other than damage received due to wear, the cause is most likely incorrect usage or abuse.

If a wire rope sustains damage, it should be replaced.

A wire rope is said to be "live" when both ends of the rope are fixed, one end to the winch, the other end to the load, If both ends of a wire rope cannot be seen the wire rope must be assumed to be "live".

Never step over a "live" wire rope, even if the rope is laying on the ground, To get to the other side of a "live" wire rope, if the rope is slack, step on the wire rope, if the rope should go taut it may push you off, if you are astride a wire rope and it goes taut, you could be in serious trouble, If the rope is under tension, wait until winching has stopped

or until the rope is slack before walking around the vehicle.

If guiding a slack wire rope onto the winch drum, when rewinding slack rope, do not let the rope slide through your hands, use the "hand over hand" method and keep hands a minimum of one metre away from the winch

Before winching make sure there are at least five wraps of wire rope on the rope drum and that the wire rope is neat and not loose.

AT THE WINCHING SITE:

Before using the winch, if more than one person is involved, decide who does what! Winching with two or three people giving instructions to the winch operator is not only time consuming it is also extremely dangerous.

When winching use hand signals, with the engine running and people at a distance from the winch operator, shouted instructions may not be heard, or may be misunderstood, Decide a system of hand signals that everyone will understand at a distance, The hand signals required will be: Winch in – Winch out – Inch – Stop winching, These hand signals should be simple and easily understood at a distance.

If the winch freespool mechanism has been used, to pull wire rope from the winch drum, make sure that the freespool is fully engaged before starting to winch.

When the wire rope has been fixed to the load, or anchor, take up the slack by inching, (running the winch slowly or in short bursts); check that the hook, or fixing, is secure and that the wire rope is wound neatly onto the rope drum before starting to winch.

If the load is too heavy for the winch pulley block may be utilised to relieve the load on the winch, A pulley block will reduce the load on the winch, a pulley block will reduce the load by approximately 40%, the winch will pull the load at half winch speed.

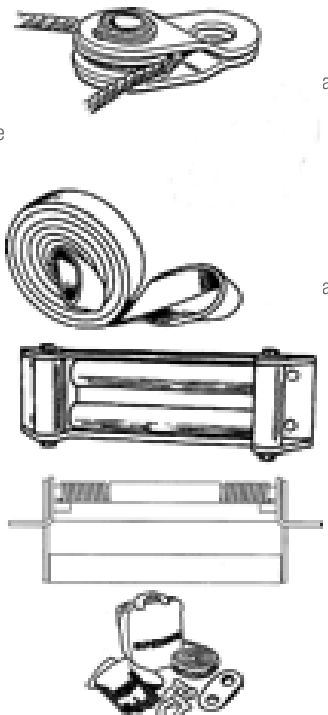
Also a pulley block can be used to change the direction of the wire rope to achieve better fleet angle, the angle that the wire rope approaches the winch drum.

Inspect the winching area, is there an anchor?, is the anchor strong enough to take the load?, is a pulley block required?, is the winching line clear?, this is most important when attempting self-recovery, without inspecting the area you could pull yourself into a more difficult or dangerous position!

Any onlookers must be in a safe place and at a safe distance!

Whilst using the winch get to know the sound of the winch, this will enable you to tell, by ear, if the winch is being overloaded, if the winch sounds as if it is being overloaded, stop winching and identify why the winch is being overloaded, is the load too much for the winch? can the winching vehicle be repositioned to achieve a better winching line? Is there an obstruction in the way? If the load is too much for the winch it may be necessary to use a pulley block.

Remember, with proper inspection of the winching site and correct preparation of the equipment, there should be no reason why the winching operation will not proceed smoothly, efficiently and most importantly, safely.





Superwinch Warranty

Superwinch proudly stands behind its products with the industry's best warranties. Several years ago we implemented an exclusive 3-year warranty on our robust S3 Solenoid. While most manufacturers use off-the-shelf solenoids designed for automotive use, the S3 Sealed Submersible Solenoid was designed by Superwinch engineers to outperform other solenoids on the market. We have now raised the bar with the game changing VS4 Solenoid (Vented, Submersible, and Stabilized with Sealed Socket). This is the best winch solenoid in the world and only available on the new Superwinch Talon Series. Covered by a Limited Lifetime Warranty which includes a 3-year warranty on all electrical components, the absolute BEST in the INDUSTRY!

Limited Lifetime Warranty



Superwinch, LLC warrants to the original retail buyer only that the mechanical components of all genuine SUPERWINCH® Winch Models shall be free from defects in materials and workmanship from the provable date of purchase of the new Product for the lifetime of the winch and the electrical components shall be free from defects in materials and workmanship for three (3) years from the provable date of purchase. Any Product that Superwinch determines to be defective will be repaired or replaced at Superwinch's sole discretion without charge to Buyer upon Buyer's compliance with these procedures. Seller or its Authorized Agent may make reasonable charges for parts and labour for repairs not covered by this Limited Warranty.

Limited Lifetime Warranty



Superwinch, LLC warrants to the original retail buyer only that the mechanical components of all genuine SUPERWINCH® Winch Models shall be free from defects in materials and workmanship from the provable date of purchase of the new Product for the lifetime of the winch and the electrical components shall be free from defects in materials and workmanship for (1) year. Any Product that Superwinch determines to be defective will be repaired or replaced at Superwinch's sole discretion without charge to Buyer upon Buyer's compliance with these procedures. Seller or its Authorized Agent may make reasonable charges for parts and labour for repairs not covered by this Limited Warranty.

Limited Two-year Warranty



Superwinch, LLC. warrants to the original retail buyer only that mechanical components of the genuine SUPERWINCH® Winch Model shall be free from defects in materials and workmanship for (2) two years and electrical components for (1) one year from the provable date of purchase. Any Product Superwinch determines to be defective will be repaired or replaced at Superwinch's sole discretion without charge to Buyer upon Buyer's compliance with these procedures. Seller or its Authorized Agent may make reasonable charges for parts and labour for repairs not covered by this Limited Warranty.

Limited One-year Warranty



Superwinch, LLC. warrants to the original retail buyer only that mechanical and electrical components of the genuine SUPERWINCH® Winch Model shall be free from defects in materials and workmanship for one year from the provable date of purchase. Any Product that Superwinch determines to be defective will be repaired or replaced at Superwinch's sole discretion without charge to Buyer upon Buyer's compliance with these procedures. Seller or its Authorized Agent may make reasonable charges for parts and labour for repairs not covered by this Limited Warranty.

Warranty & Disclaimer

TerrafirMa products are warranted free from defects in materials and workmanship for a period of 1 year (12 months) from the date of retail invoice.

TerrafirMa does not warrant that the products manufactured or marketed by it comply with the laws of the country where those goods are purchased or used. It is the sole responsibility of the purchaser to ascertain whether products being purchased, or the fitting of those products to any other object, comply with local laws. This warranty covers structural defect and workmanship but does not cover finishes, labour charges for removal or refitting, freight costs, accident damage, misuse or abuse, damage due to incorrect or improper fitment or application, modified product, faulty design or consequential damage of any kind. Damage or defects caused by collision, alteration, improper installation, road hazards, adverse conditions or usage for any other purpose other than normal private usage are not covered by this warranty. TerrafirMa shall not be liable for any other claim relating to the use of the product and any indirect special or consequential damage or injury to any person, company or other entity. All claims must be accompanied by the original retail invoice and should be submitted to the supplying Allmakes 4x4/TerrafirMa distributor. This warranty covers only the replacement of the product or part concerned. The decision remains solely at the discretion of Allmakes Ltd. The information contained in this catalogue was correct at the time of going to press. Allmakes/TerrafirMa and its associated companies reserve the right to alter the range and any product specifications without notice. Always consult your Allmakes/TerrafirMa distributor for the latest product information and specifications. The TerrafirMa range of products is constantly being evaluated for enhancement and improvement to make sure the level of quality and performance is as expected. Pictures and descriptions in this catalogue should be used for reference and are intended as a guide to the style, type and colour of product you have selected.



TerrafirM**a**

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