



# COMEUP WINCH

## 2014-2015 PRODUCT GUIDE

**Defence & Security Winch • Automotive Winch  
Powersports Winch • Industrial Winch**



## ABOUT COMEUP

Founded in 1975 by S.J. Huang, as Chuan Phang Ent. Co. Ltd. It began the sales and manufacture of electric winches in a pioneering facility. Originally based in Taipei, Taiwan, Chuan Phang specialized in full production of a wide range of electric winches with lifting capacities of 80 - 5,000 kg throughout 1980s. Chuan Phang branding quickly became the markets leading brand.

Not only did the company keep adding new items to its product range but also took the lead in Taiwan to equip themselves with the first FMS (Flexible Manufacturing System) from Mori Seiki Japan. In 1996, the company contracted a long-standing relationship with Toyo Koken K.K. in Japan for production of "fall arrester" with arresting distance from 15, 20, 25 meters each. Continuing to innovate its product range, the CWL series winch were awarded the symbol of Excellence in Taiwan in 1998. To enlarge worldwide product distribution, in 2004 the company changed its name to COMEUP Industries Inc. and set up the first branch factory in Ningbo, China. In the same year, the company received DNV ISO9001 International Quality Certificate and also launched full production of automotive winch including self-recovery winch, utility winch and trailer winch with line pull of 1,500 - 15,000 lb.

Back in 2001, all COMEUP automotive winches had CE Marking approved. Also COMEUP filed the CBS (Cone Brake Structure) patent in U.S., U.K., Germany, Taiwan, China, etc.

During 2001 to 2005, COMEUP introduced more products to the winch market and also extended products to four main categories: Automotive, Powersports, Industrial and AC Winch. COMEUP products, providing firm lifting and pulling capabilities, have been enabling customers in various industries to perform profound operations in the construction, utility, energy and recovery markets. Meanwhile, COMEUP products are widely trusted and proven by winching professionals and have established win-win relationships with many strategic partners, such as

- Toyo Koken K.K. in Japan for baby winch and compact winch used as a service and maintenance hoist for material handling
- Furukawa Co, Ltd in Japan for heavy duty hoist
- Planeta Hebeteknik GmbH in Germany for compact winch used as a service and maintenance hoist for wind turbines.
- Miller Industries - U.S.A. hydraulic tow winch.

In 2004, having continued the rapid expansion of its strong business, COMEUP Industries opened its second branch factory in Shanghai, China to enlarge the production facilities of Powersports winch and automotive winch.

In 2009, COMEUP Powersports winch received the certification of EEC Directive 97/24/EC Chapter 8 from RDW in Netherlands. COMEUP hydraulic recovery winch also received the certification of compliance with the SAE J706 standard from TUV Rheinland, then COMEUP certified by TUV NORD according to ISO 9001:2008 in the same year.

Furthermore, COMEUP wireless remote control both received CE and FCC Marking approved in 2010. In the same year, COMEUP also announced the brands new **COMEUP** logo with "Work Tough, Play Tough" slogan to promote its product portfolio of Smart and Tough winches to customers, with continued leadership in design, innovation and quality.

In 2012, set up the USA branch office to develop America market. For the time being, COMEUP winches have been distributed in more than 60 countries throughout 5 continents. COMEUP offers consumers worldwide the most reliable, high performance winching products and is one of the world's most recognized names for "the ultimate winch solution".



## DEFENCE & SECURITY WINCH



## AUTOMOTIVE WINCH



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## COMEUP WINCH



**2007**

### Apr. 2007 - Magnetic North Pole

COMEUP Winch (DV-9000i) in the North Pole

#### Background.....

In December 2007 Arctic Trucks modified two Toyota Hilux (Tacoma) vehicles for an expedition with BBC Television's Top Gear show, Toyota GB and Polar Challenge to the Magnetic North Pole. Three of Arctic Trucks (COMEUP Distributor in Iceland) employees joined this expedition as drivers and mechanics.

This was a challenging trip, for one thing the ice north of Helena Island was unusually bad with very large bolder fields that where hostile to anything moving. The second challenge was to carry a film crew, all their equipment and taking valuable time and energy for filming.

#### Map of Magnetic North Pole Exploration

The drive was close to 700 km, see picture, and took close to 7 days mostly on see ice.



**2009**

### Nov. 2009 - Antarctica

COMEUP Winch (DS-9.5i) in the South Pole



## COMEUP WINCH

## POLE EXPLORATION

### Apr. 2010 - Iceland

COMEUP Winch (DV-9i) in the erupting volcano Eyjafjallajökull

### Dec. 2010 to Jan. 2011 - Antarctica

COMEUP Winch (Seal 9.5i) in the South Pole

**2010**



#### Trust, Safety, and a Rescue Partner

COMEUP automotive winches were chosen to perform the rescue role in exploration of both the North and South Poles. COMEUP winches were fitted to the first vehicles to actually drive to the North Pole by COMEUP Distributor Arctic Truck (Seal 9.5i, DV-9i). This honor was documented on the popular international television program Top Gear, and was part of several successful expeditions to both poles. These expeditions demonstrated the quality and durability of COMEUP winches in the most extreme environments on the face of the earth. When it comes time to choose a winch for your best safety & rescue partner, there is no better choice than COMEUP winches to help you **Work Tough and Play Tough** in the world's most extreme environments.

#### Infinite Winching Solutions

COMEUP self-recovery winches are like Hercules in the event that an off-road vehicle driver needs help to get out of trouble in mud, snow, rocks or whatever obstacle stands in their way, or to move a heavy load. With decades of experience in winching solutions, and with unique features only found in COMEUP winches, like our exterior mounted cone brake system, and positive T-Lock clutch setup COMEUP offers innovative engineering and reliability the others just cannot match. COMEUP builds exceptional quality and value into every winch we produce to guard your safety.



## COMEUP WINCH

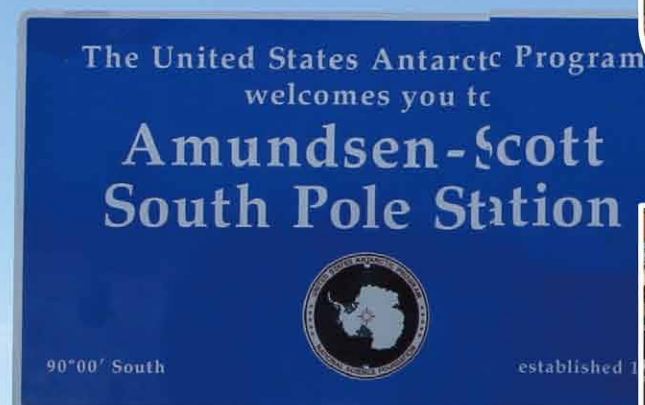


2011

Dec. 2011 to Jan. 2012 - Antarctica  
COMEUP Winch (Seal 9.5i) in the South Pole

2012

Dec. 2012 to Jan. 2013 - Antarctica  
COMEUP Winch (Seal 9.5si) in the South Pole



## POLE EXPLORATION

## COMEUP WINCH

## RAINFOREST CHALLENGE

A Top Ten Event in World's Toughest Motor Races



A new milestone of COMEUP winch takes part in the Rainforest Challenge (RFC) in Malaysia as well as COMEUP winch having conquered the North and South Pole. Now, COMEUP is awarded as an OFFICIAL WINCH PARTNER of the RFC in 2013.

The RFC is the tough off-road 4x4 adventurers in the depths of the Malaysian jungle and was founded by Luis J.A. Wee in Nov. 1997. For the past 16 years, "Live your passion in 4x4 adventure" is the RFC tagline and now the Rainforest Challenge (RFC) is a top ten events in the world's toughest motor races.

2013



Nov. to Dec. 2013 - Malaysia  
COMEUP Winch (Seal 9.5si) in the RFC





# DEFENCE & SECURITY WINCH

## EXTREME PERFORMANCE

Incredible, Submersible, Sealed, Waterproof and Defence & Security Winches

**COMEUP Premium Quality Winches** have been to the North Pole, the South Pole and nearly everywhere in between. Defence & Security winches features contactor and motor potted provides complete protection. Double lip and spring seal at drum housings and rubber seals at motor and gear housing joints for IP 68 waterproof and dustproof. With capacities up to 20,000 lb and a limited lifetime warranty exceed your winching expectation.

- ▶ Limited Lifetime Warranty for Mechanical Components.
- ▶ Limited One (1) Year Warranty for Electrical Components.



# WALRUS SERIES

16,500 - 20,000 lb pulling capacities



### 1 Full Sealed Contactor & Motor

Potted contactor and motor provide complete protection from water penetration and allow dependable operation in up to 1.8 meter of water.

### 2 Military Connector

Industrial duty remote control with twist-on connector to provide total protection from water.

### 3 Aluminum Alloy Housings

Tough aluminum alloy die cast housings withstand strength of 2 times winch line pull at least.

### 4 Double Lip and Spring Seal at Drum Housings

Rubber seals at motor and gear housing joints for independent water protection.

### 5 Rapid Wire Rope Payout & Clutch Reposition

An ergonomic T-handle positively engages the free spool clutch through multiple evenly spaced locking holes. 4 equally positioned pin holes ensure seamless clutch transmission and make it easily rotated by 90 degree increments to ease accessibility in various winch mounting positions.

### 6 Hardened Steel 3-stage Planetary Gear Train

Rugged and quiet planetary gears for maximum mechanical efficiency.

### 7 Automatic, Full Load Cone Brake Structure (CBS)

U.S. Germany, U.K. France, etc patented mechanical cone brake mounted outside the drum expedites heat dispersion and holds the full load without slippage.

### 8 Standard Accessories

Comes with cable tensioner and roller fairlead as standard.

### 9 Protective Thermal Sensor LED

Waterproof remote control with thermometric LED indicator alerts when receiving a warning signal from the motor overheated.



## Qualified IP 68 (Ingress Protection Rating)

- Walrus winches comply with the requirement and acceptance condition of IEC 60529 Edition 2.1:2001 ingress of protection provided by Enclosure—IP68.
- Meet international standards of CE Machinery Directive 2006/42/CE, CE Electromagnetic Compatibility Directive 2004/108/EC, and SAE J706 surface vehicle standard 2003-08 rev.



# COMEUP WINCH

DEFENCE & SECURITY WINCH • 24V 20,000 lb pull

## Walrus 20.0 Defence & Security Winch



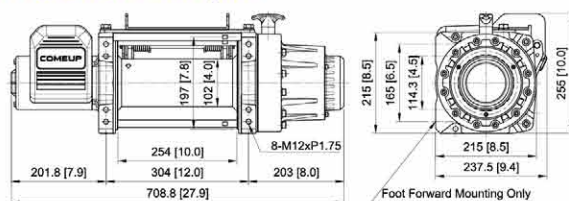
PN 282020 (24V)



### SPECIFICATIONS :

- **Rated line pull** : 9,070 kg (20,000 lb) single line
- **Motor** : 4,474 w / 6.0 hp 24V series wound
- **Gear ratio** : 3-stage planetary 343:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 102 mm x 254 mm (4" x 10")
- **Control box** : Industrial contactor is potted with epoxy resin compound
- **Control** : Waterproof remote with thermometric indicator LED w/5 m (17') cord
- **Rope type** : 6×29 -IWRC
- **Rope size** : 12.7 mm x 25 m (1/2" x 82')
- **Degree of protection** : Comply with IEC 60529 Edition 2.1:2001 IP68 rating
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** :  
304 mm x 114.3 mm (12" x 4.5")  
304 mm x 165 mm (12" x 6.5")
- **Mounting** : Foot forward mounting only
- **Winch weight (including rope)** : 80 kg / 176.4 lb
- **Gross weight** : 86.1 kg / 189.8 lb
- **Box dimension** : 740 x 270 x 405 mm (29.1" x 10.6" x 15.9")

### DIMENSION mm/in :



Water



Sand

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	9,070 / 20,000	7.0 / 23.0
2 <sup>nd</sup>	7,426 / 16,372	15.5 / 50.9
3 <sup>rd</sup>	6,287 / 13,860	25.0 / 82.0

#### Line Speed and Amp. Draw

( 1<sup>st</sup> layer of wire rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 24V
No Load	7.3 / 24.0	60
1,814 / 4,000	1.7 / 5.6	80
3,629 / 8,000	1.3 / 4.3	165
4,536 / 10,000	1.1 / 3.6	205
9,070 / 20,000	0.7 / 2.3	410

# COMEUP WINCH

DEFENCE & SECURITY WINCH • 12V/24V 16,500 lb pull

## Walrus 16.5 Defence & Security Winch



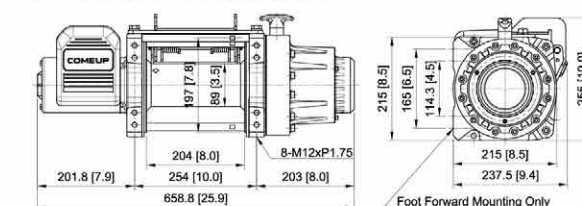
PN 281610 (12V) | PN 281620 (24V)



### SPECIFICATIONS :

- **Rated line pull** : 7,484 kg (16,500 lb) single line
- **Motor** :  
4,325 w / 5.8 hp 12V series wound  
2,834 w / 3.8 hp 24V series wound
- **Gear ratio** : 3-stage planetary 343:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 89 mm x 204 mm (3.5" x 8")
- **Control box** : Industrial contactor is potted with epoxy resin compound
- **Control** : Waterproof remote with thermometric indicator LED w/5 m (17') cord
- **Rope type** : 6×29 -IWRC
- **Rope size** : 11.1 mm x 27.4 m (7/16" x 90')
- **Degree of protection** : Comply with IEC 60529 Edition 2.1:2001 IP68 rating
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** :  
254 mm x 114.3 mm (10" x 4.5")  
254 mm x 165 mm (10" x 6.5")
- **Mounting** : Foot forward mounting only
- **Winch weight (including rope)** : 72 kg / 158.7 lb
- **Gross weight** : 78 kg / 172 lb
- **Box dimension** : 690 x 270 x 405 mm (27.2" x 10.6" x 15.9")

### DIMENSION mm/in :



Snow



Mud

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	7,484 / 16,500	5.6 / 18.4
2 <sup>nd</sup>	6,125 / 13,503	12.4 / 40.7
3 <sup>rd</sup>	5,184 / 11,429	20.4 / 66.9
4 <sup>th</sup>	4,494 / 9,908	27.4 / 90.0

#### Line Speed and Amp. Draw

( 1<sup>st</sup> layer of wire rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V	A 24V
No Load	6.4 / 21.0	60	50
1,814 / 4,000	1.5 / 4.9	110	80
3,629 / 8,000	1.1 / 3.6	220	165
4,536 / 10,000	0.9 / 3.0	280	205
7,484 / 16,500	0.6 / 2.0	460	340



## AUTOMOTIVE WINCH

**COMEUP** winches are equipped with a heavy duty motor that delivers superior torque output and faster line speed for severe duty, self-recovery or utility duty Automotive applications. The Automotive winches come with U.S., Germany, U.K., France, etc patented automatic CBS (Cone Brake Structure) that completely holds in full load and is easily maintained. Explore and experience the quality of COMEUP automotive winches that are the best solution for 4x4 Trucks and SUVs. They give you power whenever and wherever you need it!

- ▲ Limited Lifetime Warranty for Mechanical Components
- ▲ Limited One (1) Year Warranty for Electrical Components



COMEUP **SELF-RECOVERY WINCHES** provide the maximum line pull capacity from 6,000 to 18,000 lb respectively and all are equipped with the strongest power for safe effective winching for working or playing in off-road environments. The 3-stage planetary gearbox delivers reliable and durable performance of the winch under the most rugged conditions. The U.S., Germany, U.K., France, etc patented automatic CBS (Cone Brake Structure) holds firmly in full load and provides easy maintenance. The greater the load on the rope, the greater amount of brake that is applied by the mechanism. Rotating ring gear clutch is a pull and turn design for rapid rope payout.

▲ Seal Series 12,500 ~ 9,500 lb

▲ DV Series 18,000 ~ 6,000 lb

- All sealed high performance motor supplies superior torque output and faster line speed.
- 3-stage planetary gearbox delivers the most reliable and durable performance of winch under the rugged conditions.
- Heavy duty sealed contactor ensures sound waterproof protection.
- An ergonomic T-handle positively engages the free spool clutch through multiple evenly spaced locking holes for rapid rope payout. The entire clutch can be rotated to reposition the "T" handle in multiple locations, to ease accessibility in various winch mounting positions.
- Protective thermal sensor LED.
- Specific design of brake (CBS) outside the drum are ideally suited to heat-sensitive synthetic rope.
- Standard Compliance: SAE J706, CE Machinery Directive 2006/42/CE and CE Electromagnetic Compatibility Directive 2004/108/EC

## SELF-RECOVERY WINCH



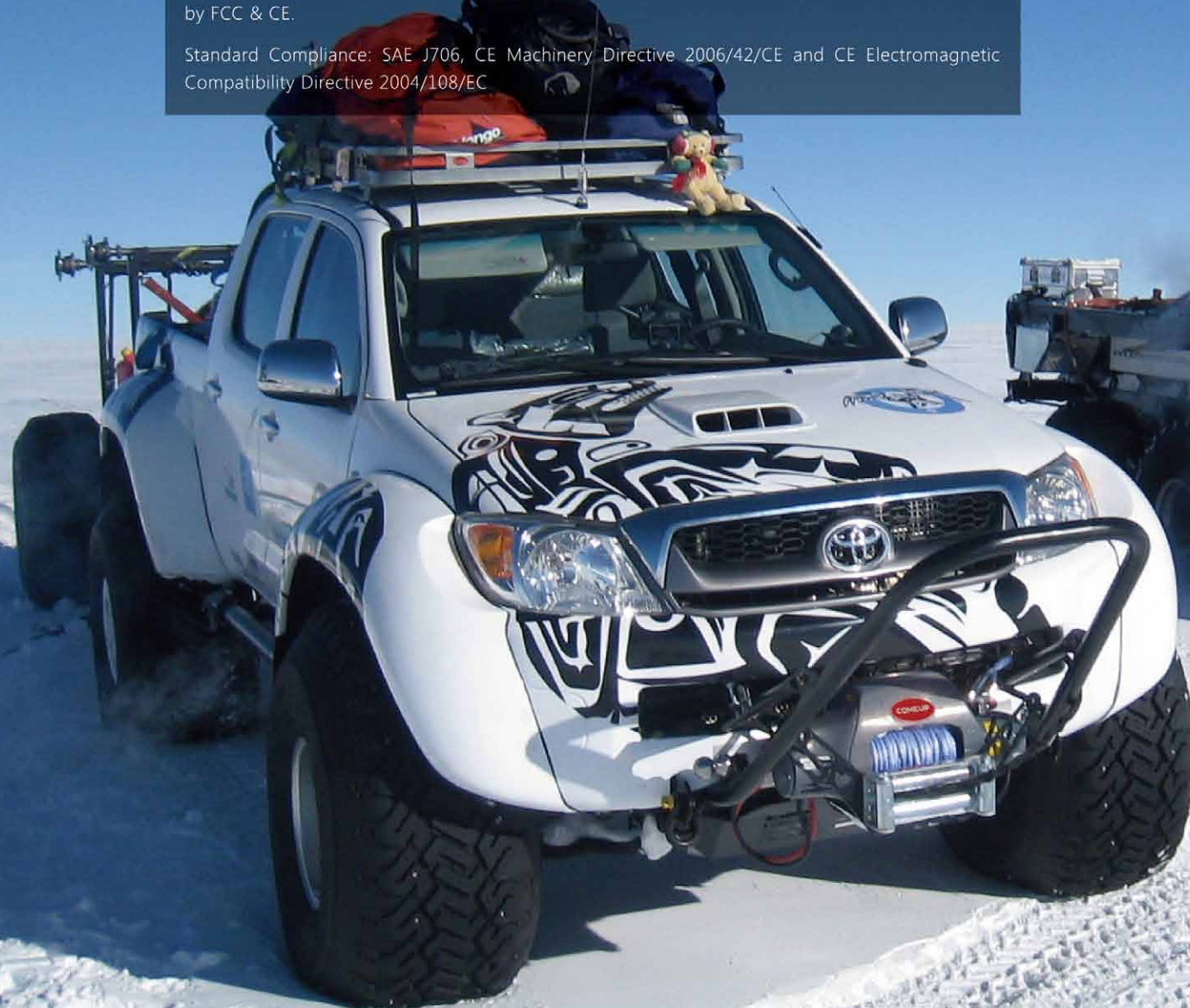


## INCREDIBLE SEALED

### Powerful, Durable, Reliable and Ultimate performance

COMEUP Seal Series are 12,500 ~ 9,500 lb line-pulling capacities, high performance self-recovery winches that include nine models: Seal 12.5, Seal 12.5s, Seal 12.5rs, Seal 9.5, Seal 9.5s, Seal 9.5rs, Seal 9.5i, Seal 9.5si and Seal 9.5rsi. The "Seal" model designation represents its submersible capability. The "Seal" is at home underwater, in the mud, or on the driest land. Seal series winches come with a fully sealed transmission system with extreme-duty water resistance and Automatic full load Cone Brake Structure (CBS). The advantage of CBS - "Brake outside the drum" - allows rapid heat dispersion. It is ideally suited to heat-sensitive synthetic ropes. The built-in waterproof wireless remote control is officially certified by FCC & CE.

Standard Compliance: SAE J706, CE Machinery Directive 2006/42/CE and CE Electromagnetic Compatibility Directive 2004/108/EC



## SEAL SERIES

9,500 - 12,500 lb pulling capacities



### 1 Submersible Sealed Contactor

The heavy-duty sealed contactor with silver-alloy contact pads, thick copper buss bars and submersible construction ensures weather resistance. It handles high amps and allows higher duty cycle. The industrial grade contactor is durable, reliable, and high performance.

### 2 Safety Warning Notice

The built-in waterproof receiver in the control box is equipped with a beeping buzzer and bright LED's to indicate motor overheating. (Only Seal 9.5rs/ 9.5rsi/12.5rs)

### 3 Aluminum Alloy Housings

Tough aluminum alloy die cast housings withstand strength of 2 times winch line pull at least.

### 4 Extreme-duty Seals

Extreme-duty water resistance seals on the motor and gearbox housing joints.

### 5 All Sealed High Performance Motor

Heavy duty series wound motor delivers superior torque output and faster line speed. A built-in thermal detector automatically sends a warning signal to the "Remote Control" when motor is over-heated.

### 6 Hardened Steel 3-stage Planetary Gear Train

Rugged and quiet planetary gears for maximum mechanical efficiency.

### 7 Automatic, Full Load Cone Brake Structure (CBS)

The U.S. Germany, U.K. France, etc patented brake system automatically endures full load without slipping. With CBS, the greater the load on the rope, the greater amount of braking is generated by the mechanism. Furthermore, the braking mechanism mounted outside the drum rather than inside the drum expedites heat dispersion and also makes this winch ideal for use with synthetic rope.

### 8 Rapid Rope Payout & Clutch Reposition

An ergonomic T-handle positively engages the free spool clutch through multiple evenly spaced locking holes. The entire clutch can be rotated to reposition the "T" handle in multiple locations, to ease accessibility in various winch mounting positions.

### 9 Protective Thermal Sensor

The industrial grade waterproof remote control comes with a thermometric LED indicator on the hand-held switch that automatically alerts when receiving a warning signal from the motor over-heated.

1 Wiring harness with built-in antenna designed for quick installation and easy wireless operation.

2 IP66 waterproof transmitter and receiver ensure all weather protection on.

3 2.4 GHz high frequency device features never in-band interference within 27m (90') radius.

4 Colour LED indicates different winching conditions.

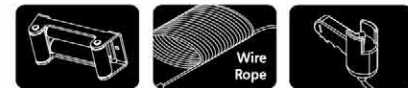




## Seal 12.5 Self-Recovery Winch



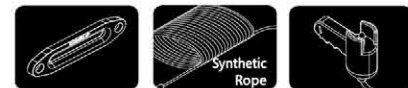
PN 291250 (12V)



## Seal 12.5s Self-Recovery Winch



PN 291260 (12V)



## Seal 12.5rs Self-Recovery Winch



PN 291270 (12V)



### SPECIFICATIONS : (Seal 12.5/12.5s/12.5rs)

- **Rated line pull** : 5,670 kg (12,500 lb) single line
- **Motor** : 3,730 w / 5.0 hp 12V series wound
- **Gear ratio** : 3-stage planetary 225:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 63.5 x 227 mm (2.5" x 8.9")
- **Control** :
  - Seal 12.5 / 12.5s : Waterproof remote with thermometric indicator LED w/5 m (17') cord
  - Seal 12.5rs : Both built-in digital signal two ways wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord
- **Rope type** :
  - Seal 12.5 : Galvanized aircraft A7 × 19 wire rope
  - Seal 12.5s / 12.5rs : Synthetic rope SK-75
- **Rope size** :
  - Seal 12.5 : 9.5 mm x 25 m (3/8" x 82')
  - Seal 12.5s / 12.5rs : 11 mm x 25 m (7/16" x 82')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** : 254 x 114 mm (10.0" x 4.5")
- **Mounting** : Foot forward mounting only
- **Winch weight (including rope)** :
  - Seal 12.5 : 34.5 kg / 76 lb
  - Seal 12.5s / 12.5rs : 28 kg / 61.7 lb
- **Gross weight** :
  - Seal 12.5 : 48.5 kg / 107 lb
  - Seal 12.5s / 12.5rs : 40.5 kg / 89.1 lb
- **Box dimension** : 682 x 209 x 453 mm (26.8" x 8.2" x 17.8")

### PERFORMANCE DATA : (Seal 12.5/12.5s/12.5rs)

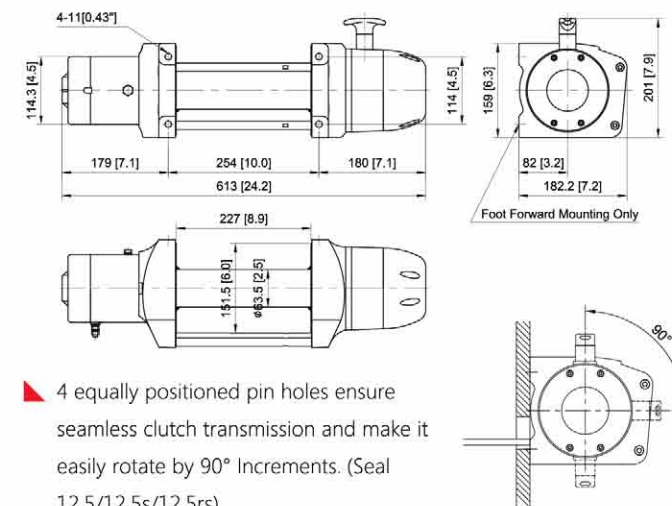
#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	5,670 / 12,500	5.4 / 17.7
2 <sup>nd</sup>	4,499 / 9,919	12.1 / 39.7
3 <sup>rd</sup>	3,729 / 8,221	20.3 / 66.6
4 <sup>th</sup>	3,184 / 7,020	25.0 / 82.0

#### Line Speed and Amp. Draw ( 1<sup>st</sup> layer of rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	7.5 / 24.6	45
907 / 2,000	3.4 / 11.2	75
1,814 / 4,000	2.5 / 8.2	160
2,722 / 6,000	2.0 / 6.6	230
3,629 / 8,000	1.6 / 5.2	300
4,535 / 10,000	1.2 / 3.9	375
5,670 / 12,500	0.9 / 3.0	470

### DIMENSION mm/in : (Seal 12.5/12.5s/12.5rs)



- ▲ 4 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 90° Increments. (Seal 12.5/12.5s/12.5rs)

▲ Color Box for Seal 12.5/12.5s/12.5rs, Seal 9.5/9.5s/9.5rs



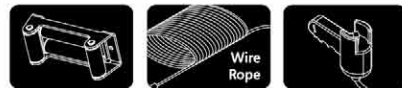


## Seal 9.5 Self-Recovery Winch



Note: Roller fairlead does not mount to winch

PN 294666 (12V)

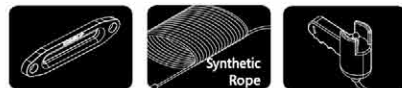


## Seal 9.5s Self-Recovery Winch



Note: Hawse fairlead does not mount to winch

PN 293010 (12V)



## Seal 9.5rs Self-Recovery Winch



Note: Hawse fairlead does not mount to winch

PN 293655 (12V)

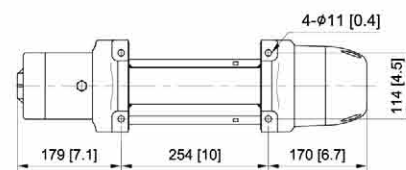
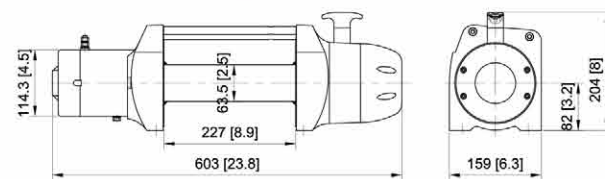


### SPECIFICATIONS :

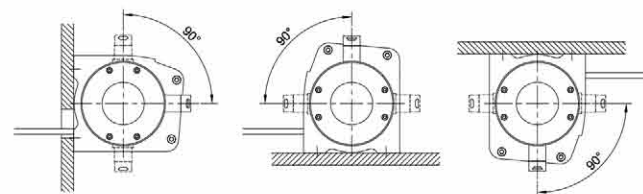
(Seal 9.5/9.5s/9.5rs/9.5i/9.5si/9.5rsi)

- **Rated line pull** : 4,309 kg (9,500 lb) single line
- **Motor** : 3,730 w / 5.0 hp 12V series wound
- **Gear ratio** : 3-stage planetary 159:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 63.5 x 227 mm (2.5" x 8.9")
- **Control** :
  - Seal 9.5 / 9.5s / 9.5i / 9.5si : Waterproof remote with thermometric indicator LED w/5 m (17') cord
  - Seal 9.5rs / 9.5rsi : Both built-in digital signal two ways wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord
- **Rope type** :
  - Seal 9.5 / 9.5i : Galvanized aircraft A7 x 19 wire rope
  - Seal 9.5s / 9.5rs / 9.5si / 9.5rsi : Synthetic rope SK-75
- **Rope size** :
  - Seal 9.5 / 9.5i : 8.7 mm x 30.5 m (11/32" x 100')
  - Seal 9.5s / 9.5rs / 9.5si / 9.5rsi : 10 mm x 30.5 m (3/8" x 100')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** : 254 x 114 mm (10" x 4.5")
- **Winch weight (including rope)** :
  - Seal 9.5 : 34.5 kg / 76 lb ; Seal 9.5i : 38.5 kg / 85 lb
  - Seal 9.5s / 9.5rs : 28 kg / 61.7 lb ; Seal 9.5si / 9.5rsi : 32 kg / 70.5 lb
- **Gross weight** :
  - Seal 9.5 : 48.5 kg / 107 lb ; Seal 9.5i : 52.5 kg / 116 lb
  - Seal 9.5s/9.5rs : 40.5 kg / 89.1 lb ; Seal 9.5si / 9.5rsi : 44.5 kg / 97.9 lb
- **Box dimension** : 682 x 209 x 453 mm (26.8" x 8.2" x 17.8")

### DIMENSION mm/in : (Seal 9.5/9.5s/9.5rs)



- 4 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 90° Increments.  
(Seal 9.5/9.5s/9.5rs/9.5i/9.5si/9.5rsi)

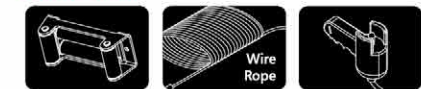


## Seal 9.5i Self-Recovery Winch



Note: Roller fairlead does not mount to winch

PN 299368 (12V)



## Seal 9.5si Self-Recovery Winch



Note: Hawse fairlead does not mount to winch

PN 293220 (12V)



## Seal 9.5rsi Self-Recovery Winch



Note: Hawse fairlead does not mount to winch

PN 293244 (12V)



### PERFORMANCE DATA :

(Seal 9.5/9.5s/9.5rs/9.5i/9.5si/9.5rsi)

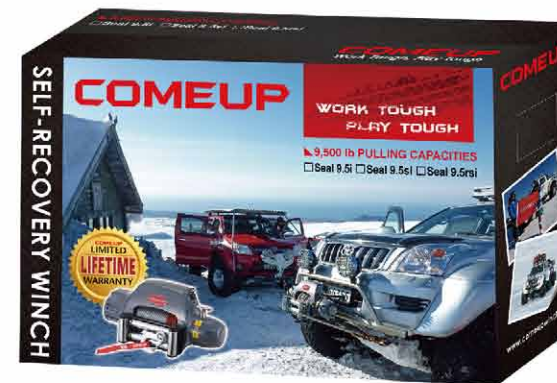
#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	4,309 / 9,500	5.8 / 19.1
2 <sup>nd</sup>	3,472 / 7,655	13.1 / 42.9
3 <sup>rd</sup>	2,908 / 6,410	21.7 / 71.2
4 <sup>th</sup>	2,501 / 5,514	30.5 / 100

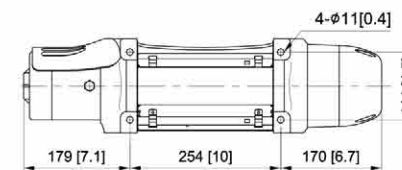
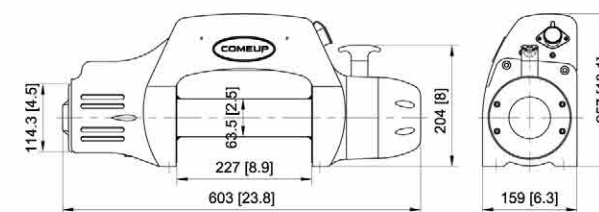
#### Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	19.0 / 62.0	60
907 / 2,000	4.7 / 15.2	115
1,814 / 4,000	3.5 / 11.5	210
2,722 / 6,000	2.8 / 9.2	245
3,629 / 8,000	2.3 / 7.6	280
4,309 / 9,500	2.1 / 6.8	380

Color Box for Seal 9.5i/9.5si/9.5rsi



### DIMENSION mm/in : (Seal 9.5i/9.5si/9.5rsi)







## DV SERIES

6,000 - 18,000 lb pulling capacities



### 1 Submersible Sealed Contactor

The heavy-duty sealed contactor with silver-alloy contact pads, thick copper buss bars and submersible construction ensures weather resistant. It handles high amps and allows higher duty cycle. The industrial grade contactor is durable, reliable, and high performance.

### 2 Extreme Durable Motor

Heavy duty series wound motor delivers superior torque output and faster line speed.

### 3 Aluminum Alloy Housings

Tough aluminum alloy die cast housings withstand strength of 2 times winch line pull at least.

### 4 Hardened Steel 3-stage Planetary Gear Train

Rugged and quiet planetary gears for maximum mechanical.

### 5 Rapid Rope Payout & Clutch Reposition

An ergonomic T-handle positively engages the free spool clutch through multiple evenly spaced locking holes. The entire clutch can be rotated to reposition the "T" handle in multiple locations, to ease accessibility in various winch mounting positions.

### 6 Automatic, Full Load Cone Brake Structure (CBS)

The U.S. Germany, U.K. France, etc patented bake system automatically endures full load without slipping. With CBS, the greater the load on the rope, the greater amount of braking is generated by the mechanism. Furthermore, the braking mechanism mounted outside the drum rather than inside the drum expedites heat dispersion and also makes this winch ideal for use with synthetic rope.

### 7 Protective Thermal Sensor LED

The industrial grade waterproof remote control comes with a thermometric LED indicator on the hand-held switch that automatically alerts when receiving a warning signal from the motor over-heated.





# COMEUP WINCH

AUTOMOTIVE WINCH • Self-Recovery Winch



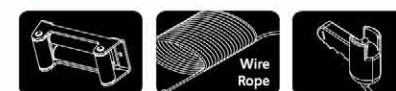
# COMEUP WINCH

AUTOMOTIVE WINCH • 24V 18,000 lb pull

## DV-18 Self-Recovery Winch



PN 851824 (24V)



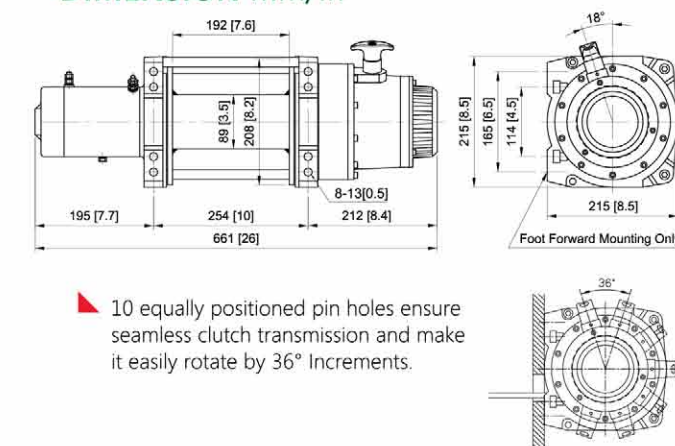
### SPECIFICATIONS :

- **Rated line pull** : 8,181 kg (18,000 lb) single line
- **Motor** : 4,474 w / 6.0 hp 24V series wound
- **Gear ratio** : 3-stage planetary 315:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 89 x 192 mm (3.5" x 7.6")
- **Control** : Waterproof remote with thermometric indicator LED w/ 5 m (17') cord
- **Rope type** : 6 x 29 - IWRC
- **Rope size** : 12.7 mm x 25 m (1/2" x 82')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** :  
254 x 114 mm (10" x 4.5")  
254 x 165 mm (10" x 6.5")
- **Mounting** : Foot forward mounting only
- **Winch weight (including rope)** : 59 kg / 130 lb
- **Gross weight** : 71 kg / 156.5 lb
- **Box dimension** : 695 x 265 x 420 mm (27.3" x 10.4" x 16.5")

Color Box for DV-18/15/12



### DIMENSION mm/in



### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	8,181 / 18,000	4.7 / 15.4
2 <sup>nd</sup>	6,546 / 14,431	10.5 / 34.4
3 <sup>rd</sup>	5,456 / 12,028	17.5 / 57.4
4 <sup>th</sup>	4,677 / 10,311	25.0 / 82.0

#### Line Speed and Amp. Draw ( 1<sup>st</sup> layer of wire rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 24V
No Load	8.6 / 28.2	40
1,814 / 4,000	7.3 / 24.0	70
3,630 / 8,000	6.1 / 20.0	140
4,535 / 10,000	4.8 / 15.7	180
5,443 / 12,000	3.5 / 11.5	210
6,804 / 15,000	2.3 / 7.5	260
8,181 / 18,000	1.0 / 3.3	320





# COMEUP WINCH

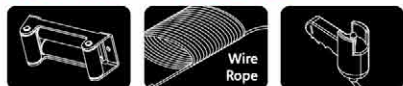
AUTOMOTIVE WINCH • 12/24V 15,000 lb pull

## DV-15 Self-Recovery Winch



Note: Roller fairlead does not mount to winch

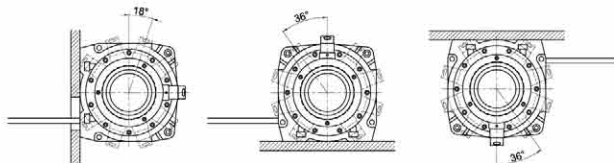
PN 857326 (12V) | PN 857433 (24V)



### SPECIFICATIONS :

- **Rated line pull** : 6,804 kg (15,000 lb) single line
- **Motor** :  
4,180 w / 5.6 hp 12V series wound  
2,690 w / 3.6 hp 24V series wound
- **Gear ratio** : 3-stage planetary 315:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** :  
Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** :  
Aluminum die cast housings with steel drum
- **Drum size** : 89 x 206 mm (3.5" x 8.1")
- **Control** : Waterproof remote with thermometric indicator LED  
w/5 m (17') cord
- **Ropetype** : 6×29 -IWRC
- **Rope size** : 11.1 mm x 27 m (7/16" x 89')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** :  
254 mm x 114 mm (10" x 4.5")  
254 mm x 165 mm (10" x 6.5")
- **Winch weight (including rope)** : 57 kg / 125.4 lb
- **Gross weight** : 69 kg / 152 lb
- **Box dimension** : 695 x 265 x 420 mm (27.3" x 10.4" x 16.5")

- ▶ 10 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 36° Increments. (DV-15/12)



### PERFORMANCE DATA : (DV-15)

#### Line Pull and Rope Capacity

Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	6,804 / 15,000	5.7 / 18.6
2 <sup>nd</sup>	5,569 / 12,277	12.6 / 41.4
3 <sup>rd</sup>	4,713 / 10,391	20.8 / 68.3
4 <sup>th</sup>	4,086 / 9,007	27 / 89

#### Line Speed and Amp. Draw ( 1<sup>st</sup> layer of wire rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A	
		12V	24V
No Load	6.9 / 22.0	60	50
1,814 / 4,000	1.6 / 5.4	180	80
3,629 / 8,000	1.2 / 3.8	280	190
4,536 / 10,000	1.0 / 3.3	330	220
5,443 / 12,000	0.9 / 2.9	385	260
6,804 / 15,000	0.8 / 2.5	460	340

# COMEUP WINCH

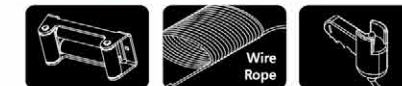
AUTOMOTIVE WINCH • 12V/24V 12,000 lb pull

## DV-12 Self-Recovery Winch



Note: Roller fairlead does not mount to winch

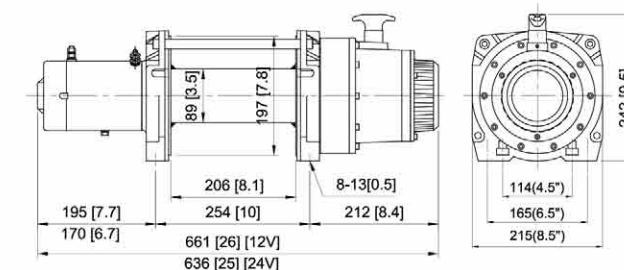
PN 857130 (12V) | PN 857228 (24V)



### SPECIFICATIONS :

- **Rated line pull** : 5,443 kg (12,000 lb) single line
- **Motor** :  
4,180 w / 5.6 hp 12V series wound  
2,960 w / 3.6 hp 24V series wound
- **Gear ratio** : 3-stage planetary 261:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** :  
Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** :  
Aluminum die cast housings with steel drum
- **Drum size** : 89 x 206 mm (3.5" x 8.1")
- **Control** : Waterproof remote with thermometric indicator LED  
w/5 m (17') cord
- **Rope type** : Galvanized aircraft A7 x 19
- **Rope size** : 9.5 mm x 38 m (3/8" x 125')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** :  
254 mm x 114 mm (10" x 4.5")  
254 mm x 165 mm (10" x 6.5")
- **Winch weight (including rope)** : 55 kg / 121 lb
- **Gross weight** : 67 kg / 147.7 lb
- **Box dimension** : 695 x 265 x 420 mm (27.3" x 10.4" x 16.5")

### DIMENSION mm/in : (DV-15/12)



### PERFORMANCE DATA : (DV-12)

#### Line Pull and Rope Capacity

Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	5,443 / 12,000	6.6 / 21.5
2 <sup>nd</sup>	4,563 / 10,060	14.4 / 47.2
3 <sup>rd</sup>	3,928 / 8,659	23.5 / 77
4 <sup>th</sup>	3,448 / 7,601	33.8 / 110.9
5 <sup>th</sup>	3,072 / 6,774	38 / 125

#### Line Speed and Amp. Draw ( 1<sup>st</sup> layer of wire rope on the drum )

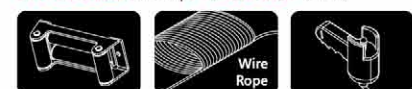
Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A	
		12V	24V
No Load	8.3 / 27	60	50
1,814 / 4,000	2.6 / 8.6	200	100
3,629 / 8,000	1.7 / 5.8	310	190
4,536 / 10,000	1.4 / 4.4	370	230
5,443 / 12,000	1.2 / 4.0	440	290



## DV-12 light Self-Recovery Winch



PN 850012 (12V) | PN 850124 (24V)



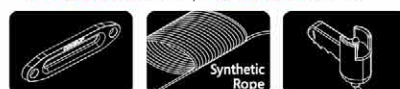
### SPECIFICATIONS : (DV-12 light/12s light)

- **Rated line pull** : 5,443 kg (12,000 lb) single line
- **Motor** :  
3,430 w / 4.6 hp 12V series wound  
1,940 w / 2.6 hp 24V series wound
- **Gear ratio** : 3-stage planetary 211:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 63.5 x 227 mm (2.5" x 8.9")
- **Control** : Waterproof remote with thermometric indicator LED w/5 m (17') cord
- **Rope type** :  
DV-12 light : Galvanized aircraft A7 x 19  
DV-12s light : Synthetic rope SK-75
- **Rope size** :  
DV-12 light : 9.5 mm x 25 m (3/8" x 82')  
DV-12s light : 11 mm x 25 m (7/16" x 82')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** : 254 x 114 mm (10" x 4.5")
- **Mounting** : Foot forward mounting only
- **Winch weight (including rope)** :  
DV-12 light : 39 kg / 86 lb  
DV-12s light : 30 kg / 66.1 lb
- **Gross weight** :  
DV-12 light : 49 kg / 108 lb  
DV-12s light : 36 kg / 79.4 lb
- **Box dimension** : 650 x 192 x 415 mm (25.6" x 7.7" x 16.3")

## DV-12s light Self-Recovery Winch



PN 850112 (12V) | PN 851024 (24V)



### PERFORMANCE DATA : (DV-12 light /12s light)

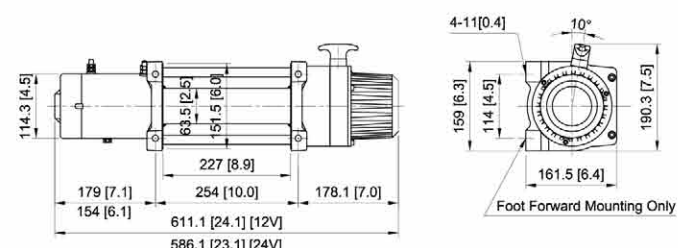
#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	5,443 / 12,000	5.4 / 17.7
2 <sup>nd</sup>	4,319 / 9,522	12.2 / 40.0
3 <sup>rd</sup>	3,580 / 7,893	20.5 / 67.3
4 <sup>th</sup>	3,056 / 6,737	25.0 / 82.0

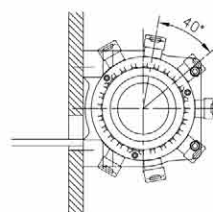
#### Line Speed and Amp. Draw ( 1<sup>st</sup> layer of rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V	Amp. Draw, A 24V
No Load	8.0 / 26.2	50	30
1,814 / 4,000	3.0 / 9.8	120	70
3,629 / 8,000	1.5 / 5.0	230	140
4,536 / 10,000	1.2 / 4.0	290	180
5,443 / 12,000	1.0 / 3.3	350	210

### DIMENSION mm/in : (DV-12 light/12s light)

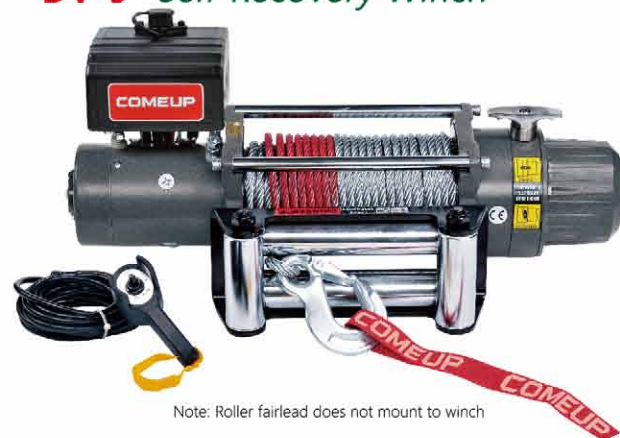


9 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 40° Increments. (DV-12 light/12s light)

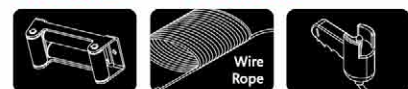




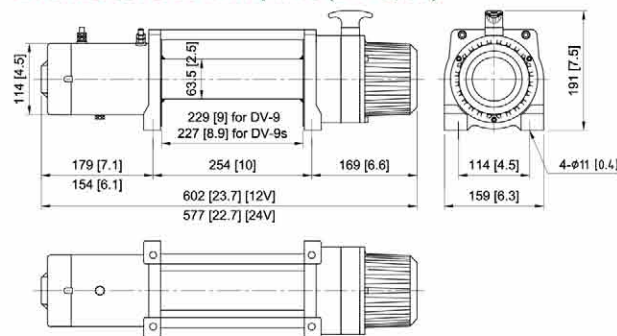
## DV-9 Self-Recovery Winch



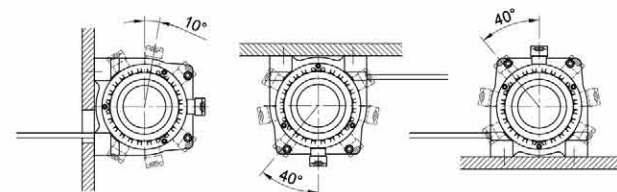
PN 856329 (12V) | PN 856355 (24V)



### DIMENSION mm/in : (DV-9/9s)



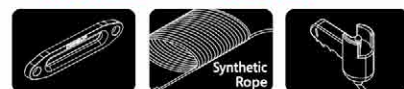
9 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 40° Increments. (DV-9i/9si/9/9s)



## DV-9s Self-Recovery Winch



PN 859112 (12V) | PN 859113 (24V)



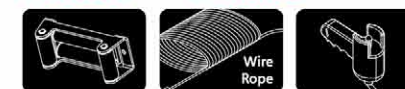
### SPECIFICATIONS : (DV-9/9s/9i/9si)

- **Rated line pull** : 4,082 kg (9,000 lb) single line
- **Motor** :  
3,430 w / 4.6 hp 12V series wound  
1,940 w / 2.6 hp 24V series wound
- **Gear ratio** : 3-stage planetary 156:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** :  
DV-9/9i : 63.5 x 229 mm (2.5" x 9")  
DV-9s/9si : 63.5 x 227 mm (2.5" x 8.9")
- **Control** : Waterproof remote with thermometric indicator LED w/5 m (17') cord
- **Rope type** :  
DV-9/9i : Galvanized aircraft A7 x 19  
DV-9s/9si : Synthetic rope SK-75
- **Rope size** :  
DV-9/9i : 8.3 mm x 30.5 m (21/64" x 100')  
DV-9s/9si : 10 mm x 30.5 m (3/8" x 100')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** : 254 x 114 mm (10" x 4.5")
- **Winch weight (including rope)** :  
DV-9 : 33 kg / 72.8 lb ; DV-9s : 27 kg / 59.5 lb  
DV-9i : 37 kg / 81.6 lb ; DV-9si : 31 kg / 68.3 lb
- **Gross weight** :  
DV-9 : 43 kg / 94.8 lb ; DV-9s : 33 kg / 72.8 lb  
DV-9i : 44 kg / 97 lb ; DV-9si : 37 kg / 81.6 lb
- **Box dimension** : 650 x 192 x 415 mm (25.6" x 7.7" x 16.3")

## DV-9i Self-Recovery Winch



PN 856360 (12V) | PN 856388 (24V)



### PERFORMANCE DATA : (DV-9/9s/9i/9si)

#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	4,082 / 9,000	6.1 / 20.0
2 <sup>nd</sup>	3,316 / 7,310	13.6 / 44.7
3 <sup>rd</sup>	2,792 / 6,154	22.6 / 74.0
4 <sup>th</sup>	2,410 / 5,314	30.5 / 100

#### Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V	Amp. Draw, A 24V
No Load	13.4 / 44.0	55	30
907 / 2,000	4.6 / 15.0	110	65
1,814 / 4,000	3.4 / 11.0	200	100
2,722 / 6,000	2.7 / 9.0	230	130
3,629 / 8,000	2.3 / 7.5	260	170
4,082 / 9,000	2.0 / 6.4	350	210

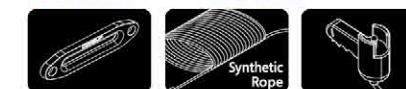
Color Box for DV-12 light/12s light/9/9s/9i/9si



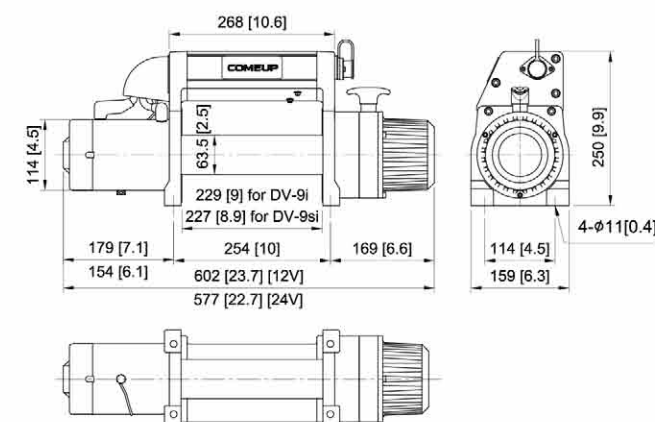
## DV-9si Self-Recovery Winch



PN 859012 (12V) | PN 859013 (24V)



### DIMENSION mm/in : (DV-9i/9si)



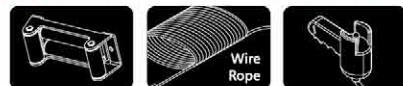


## DV-6 Self-Recovery Winch



Note: Roller fairlead does not mount to winch

PN 854750 (12V) Std. drum | PN 854760 (12V) Long drum



### SPECIFICATIONS : (DV-6/6s)

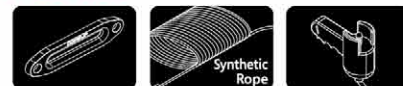
- **Rated line pull** : 2,722 kg (6,000 lb) single line
- **Motor** : 2,390 w / 3.2 hp 12V series wound
- **Gear ratio** : 3-stage planetary 216:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** :  
DV-6 Std. drum/6s - 63.5 x 125.5 mm (2.5" x 4.9")  
DV-6 Long drum - 63.5 x 227 mm (2.5" x 8.9")
- **Control** : Waterproof remote w/5 m (17') cord
- **Rope type** :  
DV-6 - Galvanized aircraft A7 x 19  
DV-6s - Synthetic rope SK-75
- **Rope size** :  
DV-6 Std. drum - 7.1 mm x 24.4 m (9/32" x 80')  
DV-6 Long drum - 7.1 mm x 30.5 m (9/32" x 100')  
DV-6s - 8 mm x 24.4 m (5/16" x 80')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 6 gauge battery lead
- **Mounting bolts pattern** :  
DV-6 Std. drum/6s - 152.4 mm x 114 mm (6" x 4.5")  
DV-6 Long drum - 254 mm x 114 mm (10" x 4.5")
- **Winch weight (including rope)** :  
DV-6 Std. drum - 22.8 kg / 50.3 lb  
DV-6 Long drum - 25.2 kg / 55.6 lb  
DV-6s - 22.9 kg / 50.5 lb
- **Gross weight** :  
DV-6 Std. drum - 28.4 kg / 62.6 lb  
DV-6 Long drum - 32.8 kg / 72.3 lb  
DV-6s - 27.4 kg / 60.4 lb
- **Box dimension** :  
DV-6 Std. drum/6s - 505 x 210 x 340 mm (19.9" x 8.3" x 13.4")  
DV-6 Long drum - 672 x 210 x 390 mm (26.5" x 8.3" x 15.4")

## DV-6s Self-Recovery Winch



Note: Hawse fairlead does not mount to winch

PN 854752 (12V) Std. drum



### PERFORMANCE DATA : (DV-6/6s)

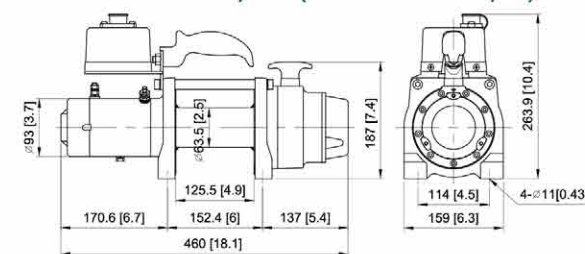
#### Line Pull and Rope Capacity

Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		Std. drum	Long drum
1 <sup>st</sup>	2,722 / 6,000	3.8 / 12.5	7 / 22.9
2 <sup>nd</sup>	2,266 / 4,995	8.4 / 27.5	15.4 / 50.4
3 <sup>rd</sup>	1,941 / 4,279	13.7 / 45	25.2 / 82.5
4 <sup>th</sup>	1,697 / 3,742	19.8 / 65.1	30.5 / 100
5 <sup>th</sup>	1,508 / 3,325	24.4 / 80	-

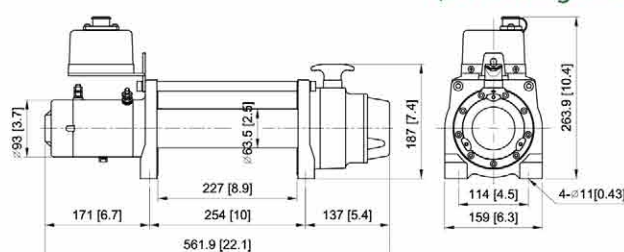
#### Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	8.0 / 26.2	60
907 / 2,000	5.2 / 17	150
1,814 / 4,000	3.1 / 10.2	240
2,722 / 6,000	2.0 / 6.5	300

### DIMENSION mm/in : (DV-6 Std. drum/6s)



(DV-6 Long drum)



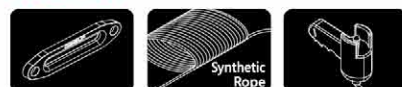


## DV-6s carry on Portable Winch



PN 854765 (12V)

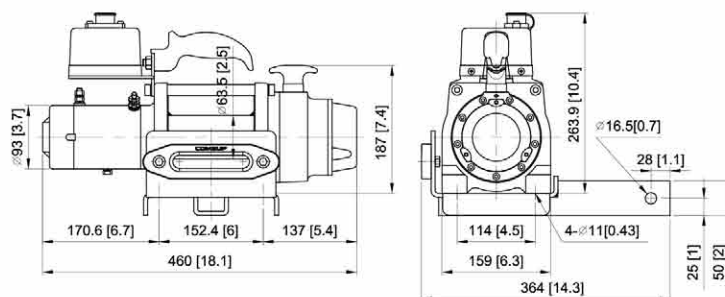
Note: Hawse fairlead does not mount to winch



### SPECIFICATIONS :

- **Rated line pull** : 2,722 kg (6,000 lb) single line
- **Motor** : 2,390 w / 3.2 hp 12V series wound
- **Gear ratio** : 3-stage planetary 216:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings and strong steel drum
- **Drum size** : 63.5 x 125.5 mm (2.5" x 4.9")
- **Control** : Waterproof remote w/5 m (17') cord
- **Rope type** : Synthetic rope SK-75
- **Rope size** : 8 mm x 24.4 m (5/16" x 80')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 6 gauge battery lead
- **Mounting bolts pattern** : 152.4 mm x 114 mm (6" x 4.5")
- **Winch weight (including rope)** : 22.8 kg / 50.3 lb
- **Gross weight** : 27.4 kg / 60.4 lb
- **Box dimension** : 515 x 285 x 345 mm (20.3" x 11.2" x 13.6")

### DIMENSION mm/in :



- Standard Accessories
- Synthetic rope 8 mm x 24.4 m w/clevis hook
  - Remote control w/5 m (17') cord
  - Hawse fairlead
  - Mounting hardware
  - 2" hitch receiver
  - Control box w/ handle
  - Quick connector wiring kit

- Heavy duty series wound motor delivers superior torque output and faster line speed.
- Lightweight and compact design is easy for front of vehicle.
- 2" hitch receiver and quick connector wiring kits for rear of vehicle.
- Submersible sealed contactor handles high amps and allows higher duty cycle
- 12 strand construction synthetic rope, Dyneema SK-75, coated to improve abrasion resistance and to protect from the ingress of dirt and grit.
- The U.S Germany, U.K. France, etc patented automatic, full load cone brake structure outside the drum holds the full load without slippage..
- Meet international standards of CE Machinery Directive 2006/42/CE, and CE Electromagnetic Compatibility Directive 2004/108/EC.

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	2,722 / 6,000	3.8 / 12.5
2 <sup>nd</sup>	2,266 / 4,995	8.4 / 27.5
3 <sup>rd</sup>	1,941 / 4,279	13.7 / 45
4 <sup>th</sup>	1,697 / 3,742	19.8 / 65.1
5 <sup>th</sup>	1,508 / 3,325	24.4 / 80

#### Line Speed and Amp. Draw ( 1<sup>st</sup> layer of rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	8.0 / 26.2	60
907 / 2,000	5.2 / 17	150
1,814 / 4,000	3.1 / 10.2	240
2,722 / 6,000	2.0 / 6.5	300

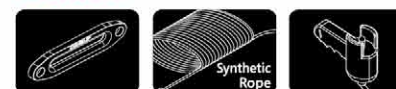


## Cap 9.0s Rock Sports Winch



PN 859312 (12V)

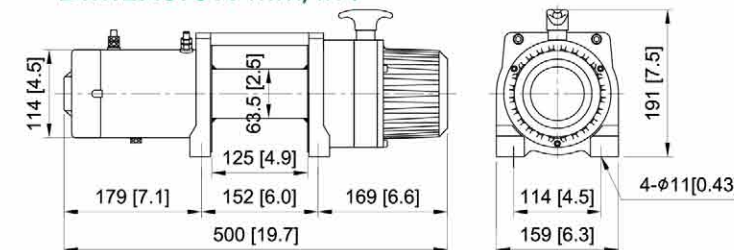
Note: Hawse fairlead does not mount to winch



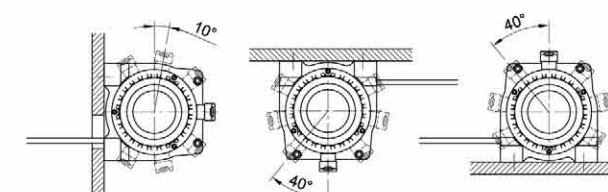
### SPECIFICATIONS :

- **Rated line pull** : 4,082 kg (9,000 lb) single line
- **Motor** : 3,430 w / 4.6 hp 12V series wound
- **Gear ratio** : 3-stage planetary 156:1
- **Clutch (freespooling)** : Rotating ring gear for manual rope unwinding
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 63.5 x 125 mm (2.5" x 4.9")
- **Control** : Waterproof remote with thermometric indicator LED w/5 m (17') cord
- **Rope type** : Synthetic rope SK-75
- **Rope size** : 10 mm x 15.2 m (3/8" x 50')
- **Recommended battery** : 650 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 2 gauge battery lead
- **Mounting bolts pattern** : 152 x 114 mm (6" x 4.5")
- **Winch weight (including rope)** : 24.5 kg / 54 lb
- **Gross weight** : 34.3 kg / 75.6 lb
- **Box dimension** : 550 x 195 x 425 mm (21.7" x 7.7" x 16.7")

### DIMENSION mm/in :



- 9 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 40° Increments.



- Low-profile, compact, lightweight and fast line speed 9,000 lb of pulling power w/Dyneema Sk-75 synthetic rope for rock sports.
- 3,430 w / 4.6 hp 12V series wound motor delivers superior torque output.
- Silicone sealed at all motor and gear housing joint for waterproof construction.
- Submersible sealed contactor.
- 9 equally positioned pin holes with a stainless steel ergonomic T-handle make it possible to reposition in 40° increments.
- 12 strand construction synthetic rope, Dyneema SK-75, coated to improve abrasion resistance and to protect from the ingress of dirt and grit.
- Water-proof remote control with thermometric LED indicator alerts when motor overheating.
- U.S. Germany, U.K. France, etc patented mechanical cone brake holds the full load without slipping.
- Meet international standards of CE Machinery Directive 2006/42/CE, and CE Electromagnetic Compatibility Directive 2004/108/EC.

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	4,082 / 9,000	2.9 / 9.5
2 <sup>nd</sup>	3,270 / 7,209	6.6 / 21.7
3 <sup>rd</sup>	2,728 / 6,014	11 / 36.1
4 <sup>th</sup>	2,340 / 5,158	15.2 / 50

#### Line Speed and Amp. Draw ( 1<sup>st</sup> layer of rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	13.7 / 45	55
907 / 2,000	4.7 / 15	110
1,814 / 4,000	3.5 / 11.5	200
2,722 / 6,000	2.7 / 9	230
3,629 / 8,000	2.4 / 7.8	260
4,082 / 9,000	2.1 / 6.8	350





## UTILITY DUTY WINCH

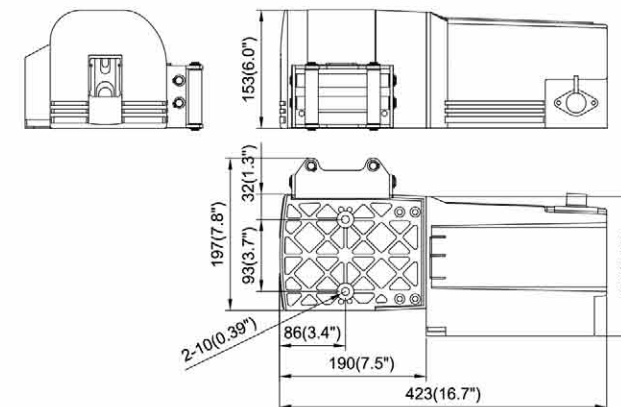
The Utility Duty winch series are designed to be a flexible tool for loading trailers or moving various vehicles or even boats into position. COMEUP winch provide line pull of 2,500 - 4,500 lb rating with power-out device for rapid wire rope payout. They are dexterous, easy-to-install and high torque permanent magnet motor delivers high line pull at lower amp draw. Dual brakes of automatic load-holding mechanical brake and motor dynamic brake features strength and reliability

- Power in and Power out.
- High torque permanent magnet motor delivers high line pull at lower amp and slip free dynamic brake.
- 3-stage planetary gearbox delivers the most reliable and durable performance of winch under the most rugged conditions.
- Sliding pin and ring gear clutch for rapid wire rope payout.
- Automatic load-holding mechanical brake and motor dynamic brake ensure holding the load without slippage.
- Compact and light weight allows a wide range of application on trailers and boats.
- Circuit breakers shut off winch to prevent overheating of motor.
- Integrated solenoid pack for better protection of wirings.
- Standard Compliance:
  - CE Machinery Directive 2006/42/EC
  - CE Electromagnetic Compatibility Directive 2004/108/EC

DV-4500i / 3500i / 2500i *Utility Duty Winch* SPECIFICATIONS : (DV-4500i/3500i/2500i)

DV-4500i : **PN 641656** (12V) | **PN 642037** (24V)  
DV-3500i : **PN 641101** (12V) | **PN 641371** (24V)  
DV-2500i : **PN 640333** (12V) | **PN 640614** (24V)

## DIMENSION mm/in : (DV-4500i/3500i/2500i)



## PERFORMANCE DATA : (DV-4500i/3500i/2500i)

Line Pull and Rope Capacity						
Model Number	DV-4500i		DV-3500i		DV-2500i	
	Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	Pull by Layer, kg / lb
1 <sup>st</sup>		2,041 / 4,500	2.4 / 7.9	1,588 / 3,500	2.7 / 8.9	1,134 / 2,500
2 <sup>nd</sup>		1,688 / 3,722	5.3 / 17.4	1,340 / 2,954	6.0 / 19.6	975 / 2,149
3 <sup>rd</sup>		1,440 / 3,174	8.7 / 28.6	1,159 / 2,555	9.7 / 31.8	855 / 1,885
4 <sup>th</sup>		1,255 / 2,766	12.6 / 41.4	1,021 / 2,251	13.9 / 45.7	761 / 1,678
5 <sup>th</sup>		1,112 / 2,451	15.2 / 50	913 / 2,012	15.2 / 50	-

Line Speed and Amp. Draw ( 1 <sup>st</sup> layer of rope on the drum )								
Model Number	DV-4500i				DV-3500i			
	Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V	Amp. Draw, A 24V	Line Speed mpm / fpm	Amp. Draw, A 12V	Amp. Draw, A 24V	Line Speed mpm / fpm
No Load		6.5 / 21.3	25	10	6.5 / 21.3	25	10	5.0 / 16.4
454 / 1,000		5.0 / 16.4	110	55	5.0 / 16.4	110	55	3.5 / 11.0
907 / 2,000		3.6 / 11.8	210	95	3.6 / 11.8	200	100	2.3 / 7.5
1,134 / 2,500		3.2 / 10.5	240	110	3.2 / 10.5	230	115	1.3 / 4.2
1,361 / 3,000		2.5 / 8.2	270	120	2.5 / 8.2	260	140	-
1,588 / 3,500		1.8 / 5.9	290	140	1.8 / 5.9	300	180	-
1,814 / 4,000		1.4 / 4.6	310	155	-	-	-	-
2,041 / 4,500		0.4 / 1.3	330	170	-	-	-	-



## Wireless Remote Control Accessories

PN 881262 for automotive winches with a 6-pin plug

**COMEUP** wireless remote control communicates by a 2.4GHz digital transmission frequency. It delivers a reliable connection covering up to 27m (90') radius without interference. Users will experience virtually no interference and no time-lag operation when multiple devices are used in the same working area. The two-way communications provides feedback on signal receiving and it requires no manual configuration. It's easy to install. By simple plug-and-play, it starts working within seconds. Each pairing transmitter links up and stays linked automatically. You never have to worry about anyone having the same frequency. The sooner they are installed, the faster they work.

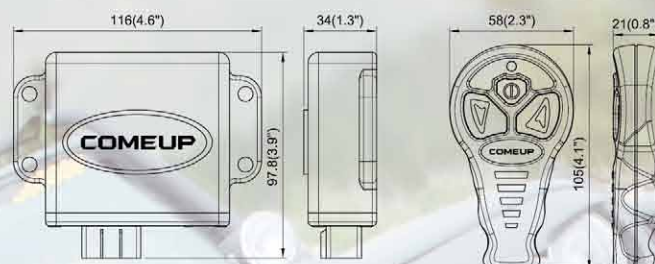
- Works with any 12 or 24 volt contact-switched automotive winches. (Except Seal 9.5rs/9.5rsi/12.5rs)
- 2.4 GHz wireless technology works within 27m (90') radius and the anti-interference function lets you move around an obstacle for winching.
- Stylish and ergonomic design fits comfortably with your hand.
- Power is switched on after a 5-second continuous press for safety.
- Power is cut after 5-minutes of inactivity for safety and conserving battery live.
- The transmitter can be self-coded, simplifying installation and replacement.
- Meet international standards of CE Electromagnetic Compatibility Directive 2004/108/EC.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.



### SPECIFICATIONS :

- **Frequency** : 2.4 GHz
- **Remote range** : up to 27 m (90')
- **LED indication** : Green light for power on.  
Red light for winching.  
Blinking green light for low battery life.  
Blinking red light for poor signal received.
- **Transmitter** : 3V lithium battery, weight: 60 g / 2.1 oz
- **Receiver** : DC 8-24V rated 7.5A, weight: 150 g / 5.3 oz
- **WARRANTY** : Each new wireless remote control is guaranteed against defects in workmanship and material defects for period of one (1) year from date of purchase.

### DIMENSION mm/in :



## Winch Accessory Kit Accessories

### Medium Duty Kit

Part Number : PN 881662 for DV-6/6s, DV-6s carry on, DV-9/9i, Seal 9.5/9.5s/9.5rs, Seal 9.5i/9.5si/9.5rsi, Cap 9.0s

Designed for winch single line capacity up to 4,309 kg / 9,500 lb  
Includes:

- 10,000 kg / 22,000 lb maximum capacity snatch block, PN 881079
- 100 mm x 2.4 m (4" x 8') tree trunk protector strap, PN 881091
- 75 mm x 9 m (3" x 30') recovery strap rated to 9,800 / 21,600 lb, PN 881090
- Bow shackle, 20 mm (3/4") pin diameter, PN 881092
- Recovery damper, PN 881557
- Leather gloves, PN 881558
- Duffel bag, PN 881661

### Heavy Duty Kit

Part Number: PN 882068 for DV-15/12/12 light/12s light, Seal 12.5/12.5s/12.5rs

Designed for winch single line capacity to 6,803 kg / 15,000 lb  
Includes:

- 13,610 kg / 30,000 lb maximum capacity snatch block, PN 881082
- 100 mm x 2.4 m (4" x 8') tree trunk protector strap, PN 881091
- 75 mm x 9 m (3" x 30') recovery strap rated to 9,800 kg / 21,600 lb, PN 881090
- Bow shackle, 20 mm (3/4") pin diameter, PN 881092
- 3 m of 8 mm (10' of 5/16") grade 70 choker chain with hooks, PN 881096
- Recovery damper, PN 881557
- Leather gloves, PN 881558
- Duffel bag, PN 881661





## Synthetic Rope

- The synthetic fiber rope is made from Dyneema SK-75 specifically designed to replace steel wire ropes.
- Lightweight, high strength and no water absorption.
- A 12 strand construction rope coated to improve abrasion resistance and to protect the rope from the ingress dirt and grit.



▲ Clevis Hook 1/2", PN 882024 (clevis hook is sold separately)

- PN 882025** w/o hook for Seal 9.5s/9.5rs/9.5si/9.5rsi, DV-9s/9si
- 30.5 m (100') of 10 mm (3/8") diameter synthetic rope designs for off-road winches application with line pull of 4,309 kg (9,500 lb) or less.
- PN 881649** w/o hook for Seal 12.5s/12.5rs, DV-12s light
- 25 m (82') of 11 mm (7/16") diameter synthetic rope designs for off-road winches application with line pull of 5,670 kg (12,500 lb) or less.
- PN 882271** w/o hook for Cap 9.0s
- 15.2 m (50') of 10 mm (3/8") diameter synthetic rope designs for off-road winch application with line pull of 4,082 kg (9,000 lb) or less.
- PN 882058** w/o hook for DV-6s carry on, DV-6s
- 24.4 m (80') of 8 mm (5/16") diameter synthetic rope designs for portable winch application with line pull of 2,722 kg (6,000 lb) or less.

## Wire Rope with Safety hook

- PN 881929** 12.7 mm x 25 m (1/2" x 82') w/o hook for DV-18, Walrus 20.0
- PN 882027** 11.1 mm x 27.1 m (7/16" x 89') w/o hook for Walrus 16.5
- PN 881246** 11.1 mm x 27.1 m (7/16" x 89') for DV-15
- PN 880052** 9.5 mm x 38.1 m (3/8" x 125') for DV-12
- PN 881522** 9.5 mm x 25 m (3/8" x 82') for DV-12 light, Seal 12.5
- PN 880112** 8.7 mm x 30.5 m (11/32" x 100') for Seal 9.5/9.5i
- PN 880010** 8.3 mm x 30.5 m (21/64" x 100') for DV-9/9i
- PN 880083** 7.1 mm x 24.4 m (9/32" x 80') for DV-6 Std. drum
- PN 881060** 7.1 mm x 30.5 m (9/32" x 100') for DV-6 Long drum
- PN 880305** 6.3 mm x 15.2 m (1/4" x 50') for DV-4500i
- PN 880298** 5.5 mm x 15.2 m (7/32" x 50') for DV-3500i
- PN 880288** 4.8 mm x 15.2 m (3/16" x 50') for DV-2500i



## Recovery Damper

A recovery damper is a safety device designed to help eliminate the possibility of injury or property damage in the event of a wire rope failure. **PN 881557**



## Leather Gloves

Always use leather gloves when handling the wire/synthetic rope to protect your hands. **PN 881558**



## Bow Shackles

20 mm (3/4") pin diameter, **PN 881092**

## Detachable Control Box

- PN 882242** (12V) for DV-6/6s/6s carry on
- PN 881164** (12V) for DV-9/9s, DV-12 light/12s light, DV-12/15, Seal 9.5/9.5s, Seal 12.5/12.5s, Cap 9.0s
- PN 881165** (24V) for DV-9/9s, DV-12 light/12s light, DV-12/15/18
- PN 881168** (12V) for Seal 9.5rs/12.5rs, w/built-in wireless receiver



## Bridge Control Box

- PN 881160** (12V) / **PN 881161** (24V) for DV-9i /9si
- PN 881170** (12V) for Seal 9.5rsi, w/built-in wireless receiver
- PN 880351** (12V) for Seal 9.5i/9.5si



## Roller Fairlead

- PN 880289** 63 mm throat for DV-2500i/3500i/4500i
- PN 880066** 179 mm throat for DV-12/15/18, Walrus 16.5
- PN 880096** 109 mm throat for DV-6 Std. drum
- PN 880023** 210 mm throat for DV-6 Long drum, DV-9/9i/12 light, Seal 9.5/9.5i/12.5
- PN 882218** 229 mm throat for Walrus 20.0



## Hawse Fairlead

- PN 881061** 184 mm throat for Seal 9.5s/9.5rs/9.5si/9.5rsi, Seal 12.5s/12.5rs, DV-9s/9si/12s light
- PN 882152** 112 mm throat for Cap 9.0s, DV-6s/6s carry on



## Cable Tensioner

- PN 881087** 204 mm for DV-12/15
- PN 882039** 204 mm for Walrus 16.5
- PN 882219** 254 mm for Walrus 20.0
- PN 882038** 184 mm for DV-18



## Recovery Strap

Use a recovery strap to snatch or pull out a stuck vehicle.

- 9,800 kg / 21,600 lb recovery strap 75 mm x 9 m (3" x 30') , **PN 881090**



## Tree Trunk Protector Strap

This tree trunk protector strap is useful for connecting a winch wire rope to almost any anchor point, but is primarily designed to prevent damage to a live tree trunk.

- 13,610 kg / 30,000 lb tree trunk protector 100 mm x 2.4 m (4" x 8') , **PN 881091**



## Emergency Stop Switch,

**PN 881668** 400A



## Battery Isolation Switch **PN 881097**

2 Position Off-On 12V 500 Amp for Walrus/Seal/DV/Cap Series Winch

## Quick Connector

**PN 881075** 50A



**PN 881076** 175A



## DC Solenoid

**PN 881077** (12V) / **PN 881078** (24V) for DV-2500i/3500i/4500i



## Sealed Contactor

**PN 881355** (12V) / **PN 881356** (24V) 400A, for DV-9/9s/9i/9si/12 light/12s light/12/15/18, Seal 9.5/9.5s/9.5rs, Seal 9.5i/9.5si/9.5rsi, Seal 12.5/12.5s/12.5rs, Walrus 16.5/20.0, Cap 9.0s

**PN 881357** (12V) 250A, for DV-6/6s/6s carry on



## Remote Control

- PN 880295** for DV-2500i/3500i/4500i
- PN 880025** for DV-6/6s/6s carry on
- PN 880126** for Seal 9.5/9.5s/9.5rs, Seal 9.5i/9.5si/9.5rsi, Seal 12.5/12.5s/12.5rs, DV-9/9s/9i/9si/12 light/12s light/12/15/18, Cap 9.0s (coming with protective thermal sensor LED)
- PN 881671** for Walrus 16.5/20.0 (coming with protective thermal sensor LED)



## Snatch Block

- PN 881079** Max. load 10,000 kg / 22,000 lb for DV-6/6s/6s carry on, DV-9/9s/9i/9si, Seal 9.5/9.5s/9.5rs, Seal 9.5i/9.5si/9.5rsi, Cap 9.0s
- PN 881080** Max. load 5,000 kg / 11,000 lb for DV-2500i/3500i/4500i
- PN 881082** Max. load 13,610 kg / 30,000 lb for DV-12 light/12s light/12/15, Seal 12.5/12.5s/12.5rs



## Mounting Channel

**PN 881083** Front mounting for DV-6 Long drum, DV-9/9s/9i/9si, Seal 9.5/9.5s/9.5rs, Seal 9.5i/9.5si/9.5rsi



**PN 881085** Front mounting for DV-12/15



**PN 881084** Multi-purpose mounting for DV-6 Long drum, DV-9/9s/9i/9si, Seal 9.5/9.5s/9.5rs, Seal 9.5i/9.5si/9.5rsi

**PN 882264** 2" hitch receiver for DV-6s carry on





Automotive Winch Accessories Chart (Walrus & Seal & Cap Series))

Model Number		Walrus 20.0	Walrus 16.5	Seal 12.5	Seal 12.5s	Seal 12.5rs	Seal 9.5	Seal 9.5s	Seal 9.5rs	Seal 9.5i	Seal 9.5si	Seal 9.5rsi	Cap 9.0s
Rated line pull	kg	9,070	7,484	5,670	5,670	5,670	4,309	4,309	4,309	4,309	4,309	4,309	4,082
	lb	20,000	16,500	12,500	12,500	12,500	9,500	9,500	9,500	9,500	9,500	9,500	9,000
Remote control		●	●	●	●	●	●	●	●	●	●	●	●
Control box	12V	-	●	●	●	●	●	●	●	●	●	●	●
	24V	●	●	-	-	-	-	-	-	-	-	-	-
Wire rope w/hook		●	●	●	-	-	●	-	-	●	-	-	-
Synthetic rope w/hook		-	-	-	●	●	-	●	●	-	●	●	●
Roller fairlead		●	●	●	-	-	●	-	-	●	-	-	-
Hawse fairlead		-	-	-	●	●	-	●	●	-	●	●	●
Circuit breaker		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Battery lead		●	●	●	●	●	●	●	●	●	●	●	●
Handsaver strap		●	●	●	●	●	●	●	●	●	●	●	●
Cable tensioner		●	●	-	-	-	-	-	-	-	-	-	-
Snatch block		-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Mounting channel		-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Winch accessory kit		-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Wireless remote control		-	-	⊙	⊙	Built-in	⊙	⊙	Built-in	⊙	⊙	Built-in	⊙
Recovery damper		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Gloves		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙

● Means as a standard accessory / ⊙ Means as an option accessory



Automotive Winch Accessories Chart (DV Series)

Model Number		DV-18	DV-15	DV-12	DV-12 light	DV-12s light	DV-9	DV-9s	DV-9i	DV-9si	DV-6	DV-6s	DV-6s carry on	DV-4500i	DV-3500i	DV-2500i
Rated line pull	kg	8,181	6,803	5,443	5,443	5,443	4,082	4,082	4,082	4,082	2,722	2,722	2,722	2,041	1,588	1,134
	lb	18,000	15,000	12,000	12,000	12,000	9,000	9,000	9,000	9,000	6,000	6,000	6,000	4,500	3,500	2,500
Remote control		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Control box	12V	-	●	●	●	●	●	●	●	●	●	●	●	Built-in	Built-in	Built-in
	24V	●	●	●	●	●	●	●	●	●	-	-	-	Built-in	Built-in	Built-in
Wire rope w/hook		●	●	●	●	-	●	-	●	-	●	-	-	●	●	●
Synthetic rope w/hook		-	-	-	-	●	-	●	-	●	-	●	●	-	-	-
Roller fairlead		●	●	●	●	-	●	-	●	-	●	-	-	●	●	●
Hawse fairlead		-	-	-	-	●	-	●	-	●	-	●	●	-	-	-
Circuit breaker		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	●	●	●
Battery lead		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Handsaver strap		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cable tensioner		⊙	⊙	⊙	-	-	-	-	-	-	-	-	-	-	-	-
Snatch block		-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Mounting channel		-	⊙	⊙	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Winch accessory kit		-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Wireless remote control		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Recovery damper		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Gloves		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙

● Means as a standard accessory / ⊙ Means as an option accessory





COMEUP  
WINCH

POWERSPORTS WINCH

## POWERSPORTS WINCH

COMEUP manufactures a complete line of powersports winches. COMEUP winches are always the best choice for a rider who needs help out of the mud, snow, ice or whatever obstacle stands in the way. Cub series winches are designed for endurance and reliability with features like a precision 3-stage planetary gear, center drum design, weather-sealed contactor, mechanical load holding, and easy-to-use handlebar rocker switch. If you are looking for a powerful Powersports winch to add versatility and dependability to your vehicle, we are confident we have what you want. Standard Compliance:

CE Machinery Directive 2006/42/CE

CE Electromagnetic Compatibility Directive 2004/108/EC

COMEUP  
WINCH

POWERSPORTS WINCH

## CUB SERIES

2,500 - 4,000 lb pulling capacities

- 1 High efficient, low amp. draw and sealed permanent magnet motor
- 2 Mechanical load holding and dynamic brake for 100% braking
- 3 Full metal 3-stage planetary gear train for greater pulling force
- 4 Sliding pin and ring gear clutch device for rapid rope payout
- 5 Submersible sealed contactor handles high amps and allows higher duty cycle

- ▶ Limited Lifetime Warranty for Mechanical Components
- ▶ Limited One (1) Year Warranty for Electrical Components

COMEUP  
LIMITED  
LIFETIME  
WARRANTY

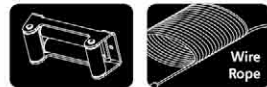


## Cub 4 Powersports Winch



Note: Roller fairlead does not mount to winch

PN 123920 (12V)



### SPECIFICATIONS : (Cub 4/4s)

- **Rated line pull** : 1,814 kg (4,000 lb) single line
- **Motor** : 800 w / 1.0 hp 12V permanent magnet
- **Gear ratio** : 3-stage planetary 191:1
- **Clutch (freespooling)** : Sliding pin and ring gear
- **Brake** : Mechanical & dynamic
- **Winch construction** : Aluminum die cast housings and drum
- **Drum size** : 55 x 119 mm (2.2" x 4.7")
- **Control** : Handlebar rocker switch
- **Rope type** :
  - Cub 4 : Galvanized aircraft A7 x 19
  - Cub 4s : Synthetic rope SK-75
- **Rope size** : 5.5 mm x 15.2 m (7/32" x 50')
- **Recommended battery** : 550 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 6 gauge battery lead
- **Mounting bolts pattern** : 76 x 168 mm (3" x 6.6")
- **Winch weight (including rope)** :
  - Cub 4 : 8.9 kg / 19.6 lb
  - Cub 4s : 8 kg / 17.6 lb
- **Gross weight** :
  - Cub 4 : 13.1 kg / 28.9 lb
  - Cub 4s : 12 kg / 26.4 lb
- **Box dimension** : 380 x 362 x 144 mm (15" x 14.3" x 5.7")

Color Box for Cub 4/4s

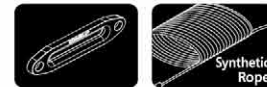


## Cub 4s Powersports Winch



Note: Hawse fairlead does not mount to winch

PN 129410 (12V)



### PERFORMANCE DATA : (Cub 4/4s)

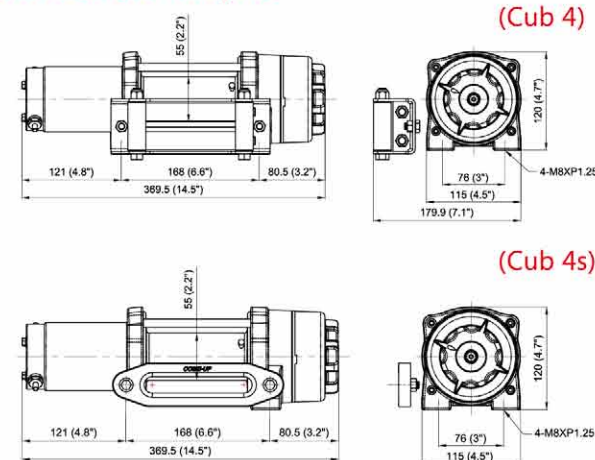
#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	1,814 / 4,000	4.0 / 13.2
2 <sup>nd</sup>	1,535 / 3,385	8.8 / 28.8
3 <sup>rd</sup>	1,331 / 2,933	14.2 / 46.7
4 <sup>th</sup>	1,174 / 2,588	15.2 / 50

#### Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	6.0 / 19.7	15
227 / 500	3.9 / 12.8	45
454 / 1,000	3.4 / 11.2	70
680 / 1,500	3.1 / 10.2	90
907 / 2,000	2.9 / 9.5	120
1,134 / 2,500	2.7 / 8.9	150
1,361 / 3,000	2.4 / 7.9	180
1,588 / 3,500	2.2 / 7.2	210
1,814 / 4,000	2.0 / 6.6	230

### DIMENSION mm/in :





## Cub 3 Powersports Winch



PN 123561 (12V)

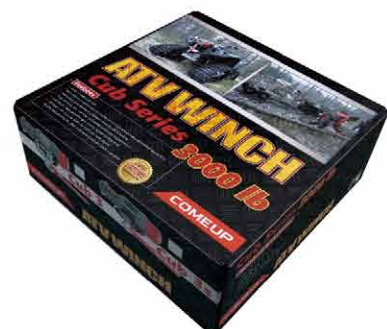
Note: Roller fairlead does not mount to winch



### SPECIFICATIONS : (Cub 3/3s)

- **Rated line pull** : 1,361 kg (3,000 lb) single line
- **Motor** : 800 w / 1.0 hp 12V permanent magnet
- **Gear ratio** : 3-stage planetary 138.5:1
- **Clutch (freespooling)** : Sliding pin and ring gear
- **Brake** : Mechanical & dynamic
- **Winch construction** : Aluminum die cast housings and drum
- **Drum size** : 55 x 75 mm (2.2" x 3")
- **Control** : Handlebar rocker switch
- **Rope type** :
  - Cub 3 : Galvanized aircraft A7 x 19
  - Cub 3s : Synthetic rope SK-75
- **Rope size** : 4.8 mm x 15.2 m (3/16" x 50')
- **Recommended battery** : 550 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 6 gauge battery lead
- **Mounting bolts pattern** : 76 x 124 mm (3" x 4.9")
- **Winch weight (including rope)** :
  - Cub 3 : 8.2 kg / 18 lb
  - Cub 3s : 7.2 kg / 15.9 lb
- **Gross weight** :
  - Cub 3 : 12.5 kg / 27.6 lb
  - Cub 3s : 11.5 kg / 25.3 lb
- **Box dimension** : 349 x 331 x 144 mm (13.7" x 13" x 5.7")

Color Box for Cub 3/3s



## Cub 3s Powersports Winch



PN 129300 (12V)

Note: Hawse fairlead does not mount to winch



### PERFORMANCE DATA : (Cub 3/3s)

#### Line Pull and Rope Capacity

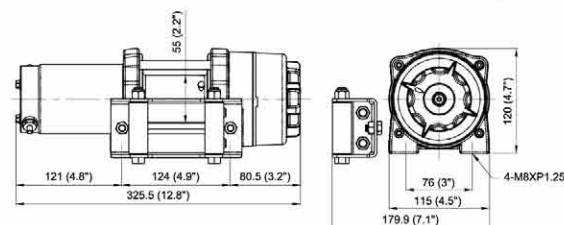
Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	1,361 / 3,000	2.8 / 9.3
2 <sup>nd</sup>	1,173 / 2,585	6.1 / 20.1
3 <sup>rd</sup>	1,030 / 2,271	9.9 / 32.5
4 <sup>th</sup>	918 / 2,025	14.1 / 46.3
5 <sup>th</sup>	829 / 1,827	15.2 / 50

#### Line Speed and Amp. Draw ( 1<sup>st</sup> layer of rope on the drum )

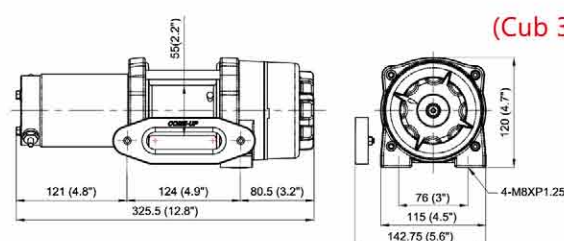
Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	6.8 / 22.2	25
227 / 500	5.7 / 18.7	45
454 / 1,000	4.8 / 15.6	75
680 / 1,500	3.8 / 12.5	105
907 / 2,000	3.0 / 9.8	140
1,134 / 2,500	2.5 / 8.0	180
1,361 / 3,000	2.0 / 6.7	230

### DIMENSION mm/in :

(Cub 3)



(Cub 3s)



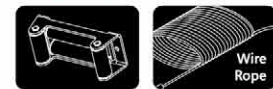


## Cub 2 Powersports Winch



Note: Roller fairlead does not mount to winch

PN 122012 (12V)



### SPECIFICATIONS : (Cub 2/2s)

- **Rated line pull** : 907 kg (2,000 lb) single line
- **Motor** : 600 w / 0.8 hp 12V permanent magnet
- **Gear ratio** : 3-stage planetary 103:1
- **Clutch (freespooling)** : Cam activated
- **Brake** : Mechanical spring applied and dynamic brakes
- **Winch construction** : Aluminum die cast drum and steel plate housings
- **Drum size** : 38 x 75 mm (1.5" x 3.0")
- **Control** : Handlebar rocker switch
- **Rope type** :
  - Cub 2 : Galvanized aircraft A7 x 19
  - Cub 2s : Synthetic rope SK-75
- **Rope size** : 4 mm x 15.2 m (5/32" x 50')
- **Recommended battery** : 550 CCA minimum for winching
- **Battery lead** : 1.8 m (6') 6 gauge battery lead
- **Mounting bolts pattern** : 76 x 124 mm (3" x 4.9")
- **Winch weight (including rope)** :
  - Cub 2 : 6.5 kg / 14.3 lb
  - Cub 2s : 6 kg / 13.2 lb
- **Gross weight** :
  - Cub 2 : 10 kg / 22 lb
  - Cub 2s : 9 kg / 19.8 lb
- **Box dimension** : 296 x 223 x 140 mm (11.7" x 8.8" x 5.5")

Color Box for Cub 2/2s

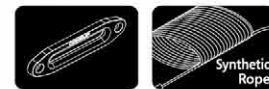


## Cub 2s Powersports Winch



Note: Hawse fairlead does not mount to winch

PN 122112 (12V)



### PERFORMANCE DATA : (Cub 2/2s)

#### Line Pull and Rope Capacity

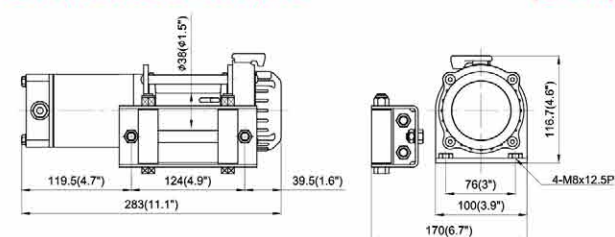
Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	907 / 2,000	2.4 / 7.9
2 <sup>nd</sup>	762 / 1,680	5.3 / 17.4
3 <sup>rd</sup>	657 / 1,448	8.6 / 28.2
4 <sup>th</sup>	577 / 1,272	12.4 / 40.7
5 <sup>th</sup>	515 / 1,135	15.2 / 50

#### Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)

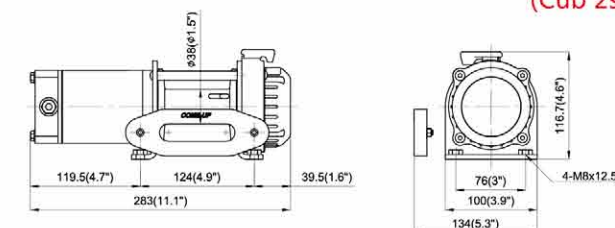
Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	6.1 / 20.0	20
302 / 666	4.6 / 15.1	50
605 / 1,334	3.1 / 10.2	100
907 / 2,000	2.0 / 6.6	150

### DIMENSION mm/in :

(Cub 2)



(Cub 2s)



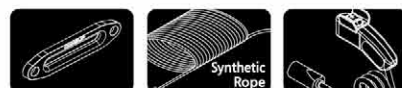


## Cub 4s carry on *Portable Winch*



PN 123930 (12V)

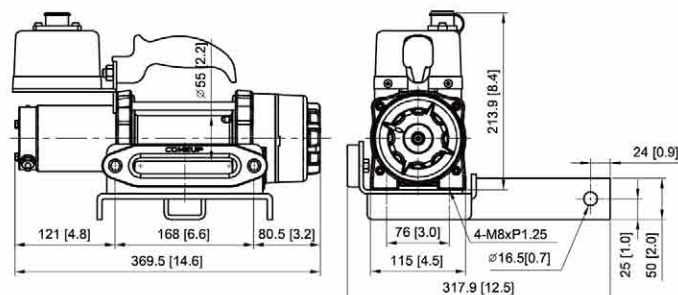
Note: Hawse fairlead does not mount to winch



### SPECIFICATIONS :

- **Rated line pull :** 1,814 kg (4,000 lb) single line
- **Motor :** 800 w / 1.0 hp 12V permanent magnet
- **Gear ratio :** 3-stage planetary 191:1
- **Clutch (freespooling) :** Sliding pin and ring gear
- **Brake :** Mechanical spring applied and permanent magnet motor dynamic brakes
- **Winch construction :** Aluminum die cast housings with steel drum
- **Drum size :** 55 x 119 mm (2.2" x 4.7")
- **Control :** Remote control w/3 m cord
- **Rope type :** Synthetic rope SK-75
- **Rope size :** 5.5 mm x 15.2 m (7/32" x 50')
- **Recommended battery :** 550 CCA minimum for winching
- **Battery lead :** 1.8 m (6') 6 gauge battery lead
- **Mounting bolts pattern :** 76 x 168 mm (3" x 6.6")
- **Winch weight (including rope) :** 12.2 kg / 26.9 lb
- **Gross weight :** 19.1 kg / 42.1 lb
- **Box dimension :** 410 x 200 x 345 mm (16.1" x 7.9" x 13.6")

### DIMENSION mm/in :



- High efficient low amp. draw and sealed permanent magnet motor.
- Lightweight and compact design is easy for front of vehicle.
- 2" hitch receiver and quick connector wiring kits for rear of vehicle.
- Winch drum centered avoids tire interference of rope and provides streamlined appearance.
- Mechanical load holding and dynamic brakes for 100% braking.
- Cam activated clutch device for rapid wire rope payout.
- 12 strand construction synthetic rope, Dyneema SK-75, coated to improve abrasion resistance and to protect from the ingress of dirt and grit.
- Submersible sealed contactor handles high amps and allows higher duty cycle.
- Meet international standards of CE Machinery Directive 2006/42/CE, and CE Electromagnetic Compatibility Directive 2004/108/EC.

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	1,814 / 4,000	4.0 / 13.2
2 <sup>nd</sup>	1,535 / 3,385	8.8 / 28.8
3 <sup>rd</sup>	1,331 / 2,933	14.2 / 46.7
4 <sup>th</sup>	1,174 / 2,588	15.2 / 50

#### Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	6.0 / 19.7	15
454 / 1,000	3.4 / 11.2	70
907 / 2,000	2.9 / 9.5	120
1,361 / 3,000	2.4 / 7.9	180
1,814 / 4,000	2.0 / 6.6	230



- Standard Accessories
- Synthetic rope 5.5 mm x 15.2 m w/clevis hook
  - Remote control w/3 m cord
  - Hawse fairlead
  - Mounting hardware
  - 2" hitch receiver
  - Control box w/handle
  - Quick connector wiring kit

### Wireless Remote Control

PN 881286 2.4 Ghz with 27 m (90') w/6 ping plug, RF-24C for Cub 2/2s/3/3s/4/4s

### Roller Fairlead

PN 880231 65 mm throat for Cub 2/3

PN 880132 109 mm throat for Cub 4

### Hawse Fairlead

PN 881071 82 mm throat for Cub 2s/3s

PN 881072 108 mm throat for Cub 4s/4s carry on

### Remote Control + Remote Socket

PN 881305 + PN 881004 for Cub 2/2s/3/3s/4

PN 881305 for Cub 4s carry on



### Contactor w/lead

PN 881385 250A, 12V for Cub 2/2s3/3s/4/4s

### Handlebar Switch Kit

PN 881003 Rocker switch with cord for Cub 2/2s/3/3s/4/4s

### Contactor Pack

PN 881037

Detachable contactor pack for Cub 2/2s/3/3s/4/4s

### Snatch Block

PN 881080 Max. load 5,000 kg / 11,000 lb for Cub 4/4s/4s carry on

PN 881081 Max. load 2,700 kg / 6,000 lb for Cub 2/2s/3/3s

### Wire Rope with Hook

PN 881954 4.8 mm x 15.2 m (3/16" x 50') w/ stopper for Cub 3

PN 880257 4 mm x 15.2 m (5/32" x 50') w/ stopper for Cub 2

PN 881955 5.5 mm x 15.2 m (7/32" x 50') w/ stopper for Cub 4

### Synthetic Rope with Hook

PN 881952 w/hook for Cub 3s

- 15.2 m (50') of 4.8 mm (3/16") diameter synthetic rope (SK-75) design for powersports winch application with line pull of 1,361 kg (3,000 lb) or less

PN 881953 w/hook for Cub 4s/4s carry on

- 15.2 m (50') of 5.5 mm (7/32") diameter synthetic rope (SK-75) design for powersports winch application with line pull of 1,814 kg (4,000 lb) or less

PN 881065 w/hook for Cub 2s

- 15.2 m (50') of 4 mm (5/32") diameter synthetic rope (SK-75) design for powersports winch application with line pull of 907 kg (2,000 lb) or less

### Transmitter holder for Cub Series



### Base Plate Kit

Part Number	Applicable Powersports Model
PN 880232	For Cub 2/2s/3/3s
PN 880269	For Cub 4/4s/4s carry on
PN 881015	Honda 2000-2004 Foreman Rubicon 4x4 (TRX500FA) Honda 2003-2006 Rincon 4x4 (TRX650FA) Honda 2006-2008 Rincon 4x4 (TRX680FA) Polaris Mid 2004-2006 Sportsman 400 4x4 Polaris 2006-2007 Sportsman 450 4x4 Polaris Mid 2004-2007 Sportsman 500 H.O. 4x4 Polaris Mid 2004-2005 Sportsman 600 Twin 4x4 Polaris Mid 2004-2007 Sportsman 700 Twin 4x4 Polaris 2005-2007 Sportsman 800 Twin EFI 4x4 Polaris 2006-2007 Sportsman X2 500 EFI 4x4
PN 881016	Honda 1995-2003 Foreman (TRX400FW) Honda 1998-2001 Foreman ES (TRX450ES) Honda 2002-2004 Foreman ES (TRX450FE) Honda 1998-2001 Foreman S (TRX450S) Honda 2003-2004 Foreman S (TRX450FM)
PN 881017	Honda 2005-2006 Foreman 2x4 (TRX500TM) Honda 2005-2006 Foreman 4x4 (TRX500FM) Honda 2005-2006 Foreman ES 4x4 (TRX500FE) Honda 2005-2006 Foreman Rubicon 4x4 (TRX500FA) Honda 2005-2006 Foreman Rubicon 4x4 (TRX500FG)
PN 881018	Honda 2004-2008 Foreman 2x4 (TRX500TM) Honda 2007-2008 Foreman 4x4 (TRX500FM) Honda 2007-2007 Foreman ES 4x4 (TRX500FE) Honda 2008-2008 Foreman ES 4x4 (TRX500FE)
PN 881019	Honda 2007-2008 Foreman Rubicon 4x4 (TRX500FA) Honda 2007-2008 Foreman Rubicon 4x4 (TRX500FG)
PN 881020	Honda ATV HONDA 420 Honda Ramsey 2500 vinsille Bombardier 2009 400 Outlander EFI 4x4 Bombardier 2007 400 Outlander H.O. 4x4 Bombardier 2009 400 Outlander Max EFI 4x4 Bombardier 2008 500 Outlander Max EFI 4x4 Bombardier 2008 500 Outlander Max EFI 4x4 Bombardier 2006 650 Outlander Max HO 4x4 Bombardier 2007 650 Outlander V-Twin HO EFI 4x4 Bombardier 2006 800 Outlander Max 4x4 Bombardier 2007-2008 800 Outlander V-Twin HO EFI 4x4 Bombardier 2009 800R Outlander EFI 4x4 Bombardier 2009 800R Outlander Max EFI 4x4
PN 881021	Yamaha 2002-2005 YFM 660 FP Grizzly 4x4 Yamaha 2006 YFM 660 FP Grizzly 4x4 Yamaha 2007 YFM 660 FP Grizzly 4x4 Yamaha 2008 YFM 660 FP Grizzly 4x4 Yamaha 2009 YFM 550 Grizzly FI Auto 4x4 Yamaha 2009 YFM 550 Grizzly FI Auto 4x4 w/PS Yamaha 2009 YFM 550 Grizzly FI SE Auto 4x4 w/PS Yamaha 2007 YFM 700 Grizzly FI Auto 4x4 Yamaha 2008-2009 YFM 700 Grizzly FI Auto 4x4 Yamaha 2008-2009 YFM 700 Grizzly FI SE Auto 4x4 w/PS Yamaha 2009 YFM 700 Grizzly FI Auto 4x4 w/PS DU Yamaha 2008-2009 YFM 700 Grizzly FI Auto 4x4 w/PS SE
PN 881022	Suzuki 2008-2009 450 King Quad AXi 4x4 EFI Suzuki 2005-2006 700 King Quad 4x4 Suzuki 2007 700 King Quad 4x4 EFI Suzuki 2008-2009 750 King Quad AXi 4x4 EFI Suzuki 2007 LT King Quad 450 4x4 EFI
PN 881023	Honda 2006 Rincon TRX680FG/GPScape Honda 2003-2005 Rincon 650/GPScape
PN 881024	
PN 881025	



Powersports Winch Accessories Chart

Model Number		Cub 2	Cub 2s	Cub 3	Cub 3s	Cub 4	Cub 4s	Cub 4s carry on
line pull	kg	9,07	9,07	1,361	1,361	1,814	1,814	1,814
	lb	2,000	2,000	3,000	3,000	4,000	4,000	4,000
Handlebar Switch Kit		●	●	●	●	●	●	-
Contactor Pack		●	●	●	●	●	●	-
Wire Rope w/Hook		●	-	●	-	●	-	-
Synthetic Rope w/Hook		-	●	-	●	-	●	●
Roller Fairlead		●	-	●	-	●	-	-
Hawse Fairlead		-	●	-	●	-	●	●
Handlebar Hardware		●	●	●	●	●	●	-
Mounting Hardware		●	●	●	●	●	●	●
Base Plate Kit		◎	◎	◎	◎	◎	◎	●
Handsaver Strap		●	●	●	●	●	●	●
Wireless Remote Control		◎	◎	◎	◎	◎	◎	◎
Remote Control		◎	◎	◎	◎	◎	◎	●
Snatch Block		◎	◎	◎	◎	◎	◎	◎

● Means as a standard accessory / ◎ Means as an option accessory



## INDUSTRIAL WINCH

As a professional winch manufacturer, COMEUP provides different models of hydraulic or electric recovery winches and heavy duty hoists for industrial applications. COMEUP Industrial Winches comes with the supreme power and reliability to handle the most demanding situations, including both military and commercial purposes. A greater D/d ratio (wire rope/drum diameter) allows for heavy duty applications on car transporters, wreckers, tractors, trucks and fire / rescue vehicles. COMEUP industrial winches meet international standards such as SAE J706, CE Machinery Directive 2006/42/EC, and EN 14492-1:2006 Power Driven Winches. It wins the clients' trust and appreciation through reliable quality, state-of-the-art process and innovation.

▲ Limited One (1) year Warranty





# HYDRAULIC RECOVERY WINCH

▲ Limited One (1) year Warranty.

Powered by a PTO (power take off) unit driven pump, COMEUP Hydraulic Recovery Winches feature a professional hydraulic system for "Working" applications at cost effective, extremely powerful, reliable, light weight and variable line speed for high work rate. They come with a drag brake and over-center valve providing complete braking without slip. The efficient and constant operating high torque motor supports professional applications in tough situations. All COMEUP hydraulic recovery winches are for particular applications such as rescuing and recovering vehicles, cargo trucks, vehicle recovery and many other commercial vehicles.

- ▲ Bison Series 30,000 ~ 20,000 lb
- ▲ HV Series 15,000 ~ 8,000 lb

## Features:

- Powered by an onboard hydraulic pump or PTO
- Fast and variable recovery speeds for high speed working
- Efficient and constant operating high torque motor
- 2-stage planetary gear train for greater pulling force
- Turn clutch by ergonomic T-handle for rapid wire rope payout
- Drag brake and over-center valve providing complete braking
- EN 14492-1 supported: 10:1 D/d ratio and 2:1 wire rope strength allow severe duty vehicles and commercial recovery
- Meet SAE J706, CE Machinery Directive 2006/42/EC, and EN 14492-1:2006 Power Driven Winches.

# BISON SERIES

20,000 - 30,000 lb pulling capacities



Remark: Low pressure motor also available upon request

- 1** Powered by a PTO (power take off unit) driven pump with variable recovery speeds for high working.
- 2** Highly efficient and constant operating torque motor.
- 3** The Multi-Disc Brake (MDB) patented for holding full load
- 4** Hardened 2-stage planetary gear train provides faster line.
- 5** Built-in air clutch for rapid wire rope payout





## Bison 30 Hydraulic Recovery Winch



PN 683030 Std. drum | PN 683352 Long. drum

### SPECIFICATIONS :

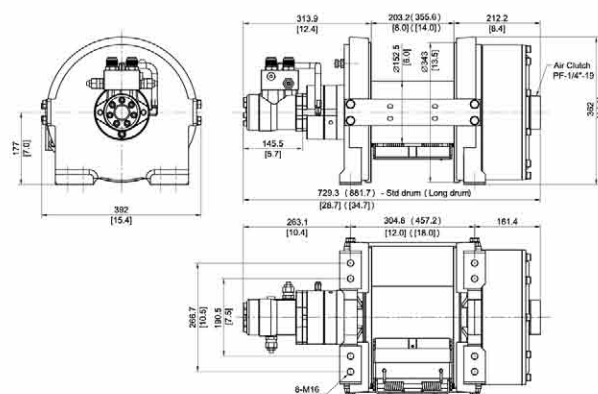
- **Rated line pull** : 13,600 kg (30,000 lb) SAE J706 rating
- **Line speed (at 1<sup>st</sup> layer of rope)** : 5.0 mpm at 60 l/min (16 fpm at 15.9 g/min)
- **Operation pressure** : 175 bar / 2,540 psi
- **Max oil flow** : 60 l/min (15.9 g/min)
- **Hydraulic motor** : 155.7 cm<sup>3</sup> / rev (9.5 in<sup>3</sup> / rev)
- **Gear ratio** : 2-stage planetary gear 41:1
- **Winch construction** : Steel cast housing with steel drum
- **Clutch (Freespooling)** : Output shaft disengaged
- **Brake** : Multi-Disc Brake (MDB) patented
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Drum barrel diameter** : 152.5 mm (6")
- **Drum flange diameter** : 343 mm (13.5")
- **Distance between flanges** : 203.2 mm (8") - Std. drum  
355.6 mm (14") - Long drum
- **Mounting bolts pattern** :  
Std. drum - 190.5 x 304.8 mm (7.5" x 12"); 266.7 x 304.8 mm (10.5" x 12")  
Long drum - 190.5 x 457.2 mm (7.5" x 18"); 266.7 x 457.2 mm (10.5" x 18")
- **Wire rope recommended** : 16 mm x 43 m (5/8" x 141') for Std. drum and 75 m (246') for Long drum, 1,960 N/mm<sup>2</sup> (EIPS) grade with a minimum breaking strength of 179 kN (40,167 lbf) is required for SAE J706 rating.
- **Winch weight** : 175 kg / 386 lb (Std. drum)  
197 kg / 434 lb (Long drum)
- **Gross weight** : 198 kg / 437 lb (Std. drum)  
235 kg / 518 lb (Long drum)
- **Box dimension** : 900 x 510 x 530 mm (35.4" x 20.1" x 20.9") - Std. drum  
1,040 x 620 x 510 mm (40.9" x 24.4" x 20.1") - Long drum

### PERFORMANCE DATA :

Layer of Wire Rope	Line Pull and Rope Capacity		Line Speed	
	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	at 60 l/min (15.9 g/min), mpm / fpm	
		Std. drum	Long drum	
1 <sup>st</sup>	13,600 / 30,000	6 / 20	11 / 36	5.0 / 16
2 <sup>nd</sup>	11,438 / 25,216	14 / 44	25 / 82	5.9 / 19
3 <sup>rd</sup>	9,864 / 21,745	22 / 73	40 / 131	6.9 / 23
4 <sup>th</sup>	8,670 / 19,115	32 / 104	58 / 190	7.8 / 26
5 <sup>th</sup>	7,735 / 17,052	43 / 141	75 / 246	8.8 / 29

- Powered by a PTO (power take off unit) driven pump with variable recovery speeds for high working rate
- 155.7 cm<sup>3</sup>/rev highly efficient and constant operating torque motor with 13,600 kg / 30,000 lb capacity
- Hardened 2 stage planetary gear train with 41:1 gear ratio provides faster line speed
- Built-in air clutch for rapid wire rope payout
- The Multi-Disc Brake ( MDB ) patented for holding full load
- Great for severe duty trailers, roll-back carriers, and commercial recovery application
- Roller fairlead, cable tensioner and two ways counterbalance valve supplied
- Meet SAE J706 and CE machinery directive 2006/42/EC

### DIMENSION mm/in :



Long drum



Std. drum

## Bison 20 Hydraulic Recovery Winch



PN 682030 Std. drum | PN 682169 Long. drum

### SPECIFICATIONS :

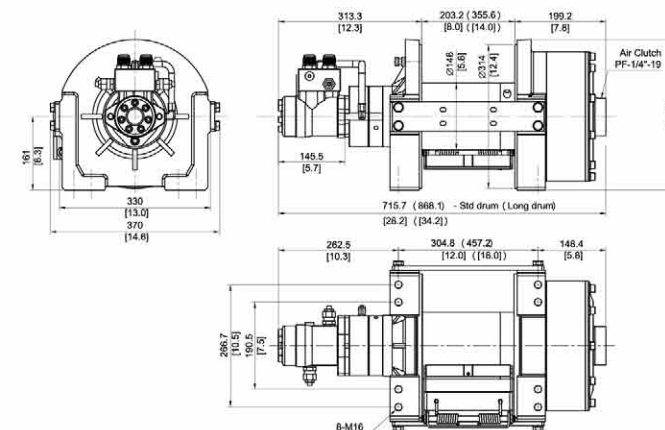
- **Rated line pull** : 9,070 kg (20,000 lb) EN 14492-1 rating & SAE J706 rating
- **Line speed (at 1<sup>st</sup> layer of rope)** : 7.1 mpm at 60 l/min (23 fpm at 15.9 g/min)
- **Operation pressure** : 175 bar / 2,540 psi
- **Max oil flow** : 60 l/min (15.9 g/min)
- **Hydraulic motor** : 155.7 cm<sup>3</sup> / rev (9.5 in<sup>3</sup> / rev)
- **Gear ratio** : 2-stage planetary gear 30:1
- **Winch construction** : Steel cast housing with steel drum
- **Clutch (Freespooling)** : Output shaft disengaged
- **Brake** : Multi-Disc Brake (MDB) patented
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Drum barrel diameter** : 146 mm (5.8")
- **Drum flange diameter** : 314 mm (12.4")
- **Distance between flanges** : 203.2 mm (8") - Std. drum  
355.6 mm (14") - Long drum
- **Mounting bolts pattern** :  
Std. drum - 190.5 x 304.8 mm (7.5" x 12"); 266.7 x 304.8 mm (10.5" x 12")  
Long drum - 190.5 x 457.2 mm (7.5" x 18"); 266.7 x 457.2 mm (10.5" x 18")
- **Wire rope recommended** :  
\*14 mm x 43 m (9/16" x 141') for Std. drum and 80 m (262') for Long drum, 1,960 N/mm<sup>2</sup> (EIPS) grade with a minimum breaking strength of 137 kN (30,742) is required for SAE J706 rating.  
\*16 mm x 30 m (5/8" x 98') for Std. drum and 55 m (180') for Long drum, 1,960 N/mm<sup>2</sup> breaking strength of 179 kN (40,167 lbf) is required for EN 14492-1 rating.
- **Winch weight** : 135 kg / 298 lb (Std. drum)  
150 kg / 331 lb (Long drum)
- **Gross weight** : 165 kg / 364 lb (Std. drum)  
195 kg / 430 lb (Long drum)
- **Box dimension** : 870 x 500 x 510 mm (34.3" x 19.7" x 20.1") - Std. drum  
1,025 x 500 x 510 mm (40.4" x 19.7" x 20.1") - Long drum

### PERFORMANCE DATA :

Layer of Wire Rope	Line Pull and Rope Capacity				Line Speed	
	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft			at 60 l/min (15.9 g/min), mpm / fpm	
		Std. drum	Long drum			
		14 mm rope	16 mm rope	14 mm rope	16 mm rope	
1 <sup>st</sup>	9,070 / 20,000	7 / 23	6 / 20	12 / 39	11 / 36	7.1 / 23
2 <sup>nd</sup>	7,719 / 17,017	15 / 49	13 / 43	27 / 89	24 / 79	8.3 / 27
3 <sup>rd</sup>	6,719 / 14,813	24 / 79	21 / 69	43 / 141	39 / 128	9.5 / 31
4 <sup>th</sup>	5,948 / 13,113	34 / 112	30 / 98	62 / 203	55 / 180	10.8 / 35
5 <sup>th</sup>	5,335 / 11,762	43 / 141	-	80 / 262	-	12 / 39

- Powered by a PTO (power take off unit) driven pump with variable recovery speeds for high working rate
- 155.7 cm<sup>3</sup>/rev highly efficient and constant operating torque motor with 9,070 kg / 20,000 lb capacity
- Hardened 2 stage planetary gear train with 30:1 gear ratio provides faster line speed
- Built-in air clutch for rapid wire rope payout
- The Multi-Disc Brake ( MDB ) patented for holding full load
- Great for severe duty trailers, roll-back carriers, and commercial recovery application
- Roller fairlead, cable tensioner and two ways counterbalance valve supplied
- Meet SAE J706, CE machinery directive 2006/42/EC or EN 14492-1:2006 Power Driven Winches

### DIMENSION mm/in :



Long drum



Std. drum



## HV SERIES

8,000 - 15,000 lb pulling capacities



**EN 14492-1  
COMPLIANT**

- Meet SAE J706, CE Machinery Directive 2006/42/EC, and EN 14492-1:2006 Power Driven Winches.

### 1 Powered by a PTO Device

Adjustable oil flow and pressure allow variable line pull and speed.

### 2 Extreme Motor

Highly efficient and constant operating torque output.

### 3 Doubled Failsafe Brakes

Mechanical drag brake and over-center valve providing full 100% braking.

### 4 Outstanding and Elegant Design

Aluminum die cast housings with steel drum.

### 5 2-stage Planetary Gear Train

Less gear reduction ratio for maximum rated line speed.

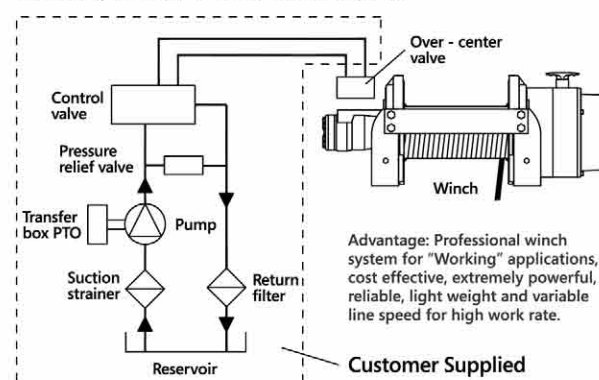
### 6 Turn Clutch by Ergonomic T-handle for Rapid Wire Rope Payout

Easy to turn the T-handle for rapid wire rope payout and workable for left or right side location.

Compliant with EN 14492-1 requirements for recovery winch:  
 \* The working coefficient for the first rope layer on the drum shall be at least 2.  
 \* The D/d ratio to the center of the rope shall be at least 10 for the drum.  
 \* Drum freeboard shall be at least 1.5 x rope diameter.

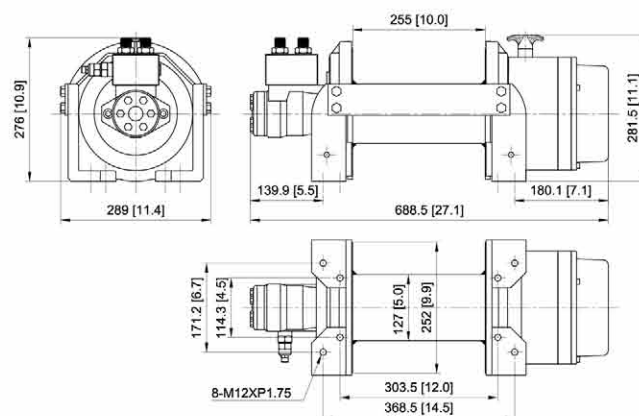
#### Hydraulic System Installation

(Powered by a PTO/power take off unit driven pump)

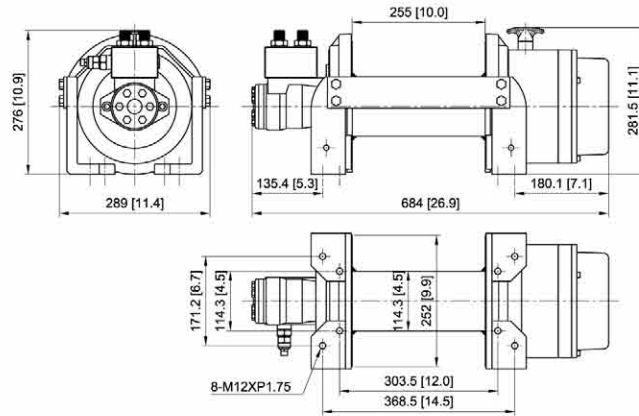


Customer Supplied

#### DIMENSION mm/in : (HV-15)



#### DIMENSION mm/in : (HV-12)



## HV-15 Hydraulic Recovery Winch



PN 686732 Std. drum  
 PN 687548 Std. drum (Clutch in left side)

### SPECIFICATIONS :

- **Rated line pull** : 6,800 kg (15,000 lb) EN 14492-1 rating & SAE J706 rating
- **Line speed (at 1<sup>st</sup> layer of rope)** : 9 mpm at 60 l/min (30 fpm at 15.9 g/min)
- **Operation pressure** : 150 bar / 2,175 psi
- **Max oil flow** : 60 l/min (15.9 g/min)
- **Hydraulic motor** : 156 cm<sup>3</sup> / rev (9.5 in<sup>3</sup> / rev)
- **Gear ratio** : 2-stage planetary gear 19.4:1
- **Winch construction** : Aluminum die cast housings with steel drum
- **Clutch (Freespooling)** : Rotating ring gear
- **Brake** : Spring applied drag brake together with over-center valve supplied
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Drum barrel diameter** : 127 mm (5.0")
- **Drum flange diameter** : 252 mm (9.9")
- **Distance between flanges** : 255 mm (10.0")
- **Mounting bolts pattern** : 303.5 x 114.3 mm (12.0" x 4.5")  
368.5 x 171.2 mm (14.5" x 6.7")
- **Wire rope recommended** : 14 mm x 27 m (9/16" x 89'), 1,960 N/mm<sup>2</sup> grade with a minimum breaking strength of 137 kN (30,742 lbf) is required for SAE J706 and EN 14492-1 ratings.
- **Winch weight** : 72 kg / 158.7 lb
- **Gross weight** : 88 kg / 194 lb
- **Box dimension** : 715 x 415 x 311 mm (28.1" x 16.3" x 12.2")

### PERFORMANCE DATA :

Line Pull and Rope Capacity			Line Speed
Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	at 60 l/min (15.9 g/min), mpm / fpm
1 <sup>st</sup>	6,800 / 15,000	7.8 / 25.6	9.0 / 30.0
2 <sup>nd</sup>	5,673 / 12,507	17.3 / 56.8	10.5 / 34.4
3 <sup>rd</sup>	4,867 / 10,730	27.0 / 89.0	12.3 / 40.4

## HV-12 Hydraulic Recovery Winch



PN 684311 Std. drum  
 PN 685433 Std. drum (Clutch in left side)

### SPECIFICATIONS :

- **Rated line pull** : 5,440 kg (12,000 lb) SAE J706 rating  
5,100 kg EN 14492-1 rating
- **Line speed (at 1<sup>st</sup> layer of rope)** : 10 mpm at 60 l/min (33 fpm at 15.9 g/min)
- **Operation pressure** : 150 bar / 2,175 psi
- **Max oil flow** : 60 l/min (15.9 g/min)
- **Hydraulic motor** : 125 cm<sup>3</sup> / rev (7.6 in<sup>3</sup> / rev)
- **Gear ratio** : 2-stage planetary gear 19.4:1
- **Winch construction** : Aluminum die cast housings with steel drum
- **Clutch (Freespooling)** : Rotating ring gear
- **Brake** : Spring applied drag brake together with over-center valve supplied
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Drum barrel diameter** : 114 mm (4.5")
- **Drum flange diameter** : 252 mm (9.9")
- **Distance between flanges** : 255 mm (10.0")
- **Mounting bolts pattern** : 303.5 x 114.3 mm (12.0" x 4.5")  
368.5 x 171.2 mm (14.5" x 6.7")
- **Wire rope recommended** : 12 mm x 39 m (1/2" x 128'), 1,960 N/mm<sup>2</sup> grade with a minimum breaking strength of 100.5 kN (22,552 lbf) is required for SAE J706 and EN 14492-1 ratings.
- **Winch weight** : 71 kg / 156.5 lb
- **Gross weight** : 87 kg / 191.8 lb
- **Box dimension** : 715 x 415 x 311 mm (28.1" x 16.3" x 12.2")

### PERFORMANCE DATA :

Line Pull and Rope Capacity			Line Speed
Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	at 60 l/min (15.9 g/min), mpm / fpm
1 <sup>st</sup>	5,440 / 12,000	8.2 / 26.9	10.0 / 33.0
2 <sup>nd</sup>	4,570 / 10,075	18.0 / 59.1	11.6 / 38.1
3 <sup>rd</sup>	3,939 / 8,684	29.3 / 96.1	13.5 / 44.3
4 <sup>th</sup>	3,462 / 7,632	39.0 / 128.0	15.4 / 50.5



## HV-10 Hydraulic Recovery Winch



PN 682546 Std. drum  
PN 683129 Std. drum (Clutch in left side)

### SPECIFICATIONS :

- **Rated line pull** : 4,535 kg (10,000 lb) SAE J706 rating  
4,300 kg EN 14492-1 rating
- **Line speed (at 1<sup>st</sup> layer of rope)** : 14 mpm at 60 l/min (46 fpm at 15.9 g/min)
- **Operation pressure** : 150 bar / 2,175 psi
- **Max oil flow** : 60 l/min (15.9 g/min)
- **Hydraulic motor** : 97.3 cm<sup>3</sup> / rev (5.9 in<sup>3</sup> / rev)
- **Gear ratio** : 2-stage planetary gear 16:1
- **Winch construction** : Aluminum die cast housings with steel drum
- **Clutch (Freespooling)** : Rotating ring gear
- **Brake** : Spring applied drag brake together with over-center valve supplied
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Drum barrel diameter** : 102 mm (4.0")
- **Drum flange diameter** : 201.5 mm (7.9")
- **Distance between flanges** : 253 mm (10")
- **Mounting bolts pattern** : 291.6 x 171.2 mm (11.5" x 6.7")  
374.2 x 114.3 mm (14.7" x 4.5")
- **Wire rope recommended** : 11 mm x 27 m (7/16" x 89'), 1,960 N/mm<sup>2</sup> grade with a minimum breaking strength of 84.4 kN (18,939 lbf) is required for SAE J706 and EN 14492-1 ratings.
- **Winch weight** : 37 kg / 81.4 lb
- **Gross weight** : 46.6 kg / 102.5 lb
- **Box dimension** : 665 x 370 x 285 mm (26.2" x 14.6" x 11.2")

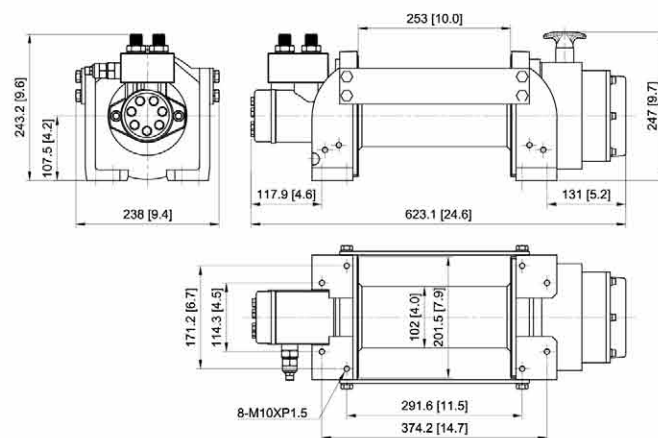
### PERFORMANCE DATA :

Line Pull and Rope Capacity			Line Speed
Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	at 60 l/min (15.9 g/min), mpm / fpm
1 <sup>st</sup>	4,535 / 10,000	8.0 / 26.2	14.0 / 46.0
2 <sup>nd</sup>	3,796 / 8,369	17.5 / 57.4	16.3 / 53.5
3 <sup>rd</sup>	3,264 / 7,196	27.0 / 89.0	19.0 / 62.3

## Hydraulic Recovery Winch Applications



### DIMENSION mm/in :



## HV-8 Hydraulic Recovery Winch



PN 680816 Std. drum | PN 681091 Long drum  
PN 681123 Std. drum (Clutch in left side)  
PN 681347 Long drum (Clutch in left side)

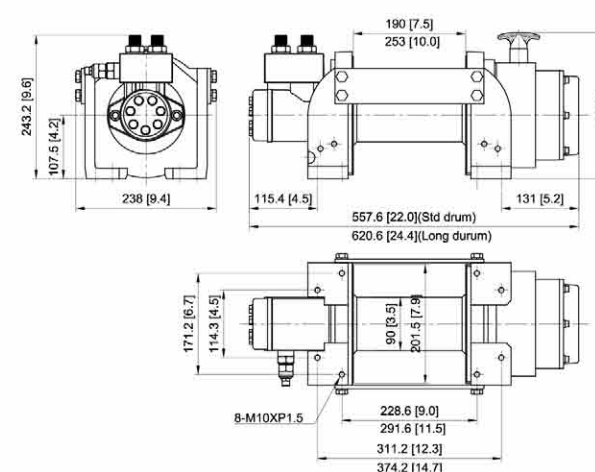
### SPECIFICATIONS :

- **Rated line pull** : 3,630 kg (8,000 lb) SAE J706 rating  
3,560 kg EN 14492-1 rating
- **Line speed (at 1<sup>st</sup> layer of rope)** : 15 mpm at 60 l/min (49 fpm at 15.9 g/min)
- **Operation pressure** : 150 bar / 2,175 psi
- **Max oil flow** : 60 l/min (15.9 g/min)
- **Hydraulic motor** : 77.8 cm<sup>3</sup> / rev (4.7 in<sup>3</sup> / rev)
- **Gear ratio** : 2-stage planetary gear 16:1
- **Winch construction** : Aluminum die cast housings with steel drum
- **Clutch (Freespooling)** : Rotating ring gear
- **Brake** : Spring applied drag brake together with over-center valve supplied
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Drum barrel diameter** : 90 mm (3.5")
- **Drum flange diameter** : 201.5 mm (7.9")
- **Distance between flanges** : 190 mm (7.5") - Std. drum / 253 mm (10") - Long drum
- **Mounting bolts pattern** :  
Std. drum - 228.6 x 171.2 mm (9.0" x 6.7") ; 311.2 x 114.3 mm (12.3" x 4.5")  
Long drum - 291.6 x 171.2 mm (11.5" x 6.7") ; 374.2 x 114.3 mm (14.7" x 4.5")
- **Wire rope recommended** : 10 mm x 30 m (3/8" x 98') for Std. drum and 40 m (131') for long drum, 1,960 N/mm<sup>2</sup> grade with a minimum breaking strength of 69.8 kN (15,663 lbf) is required for SAE J706 and EN 14492-1 ratings.
- **Winch weight** : 35.5 kg / 78.1 lb (Std. drum) ; 37.5 kg / 82.7 lb (Long drum)
- **Gross weight** : 43.3 kg / 95.3 lb (Std. drum) ; 45.3 kg / 99.9 lb (Long drum)
- **Box dimension** : 600 x 370 x 285 mm (23.6" x 14.6" x 11.2") - Std. drum; 665 x 370 x 285 mm (26.2" x 14.6" x 11.2") - Long drum

### PERFORMANCE DATA :

Line Pull and Rope Capacity			Line Speed
Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	at 60 l/min (15.9 g/min), mpm / fpm
1 <sup>st</sup>	3,630 / 8,000	5.8 / 19.0	15.0 / 49.0
2 <sup>nd</sup>	3,025 / 6,669	12.8 / 42.0	17.1 / 56.1
3 <sup>rd</sup>	2,593 / 5,717	20.9 / 68.6	21.2 / 69.6
4 <sup>th</sup>	2,269 / 5,002	30 / 98	24.2 / 79.4

### DIMENSION mm/in :





# HYDRAULIC WORM GEAR WINCH



## Yak Series

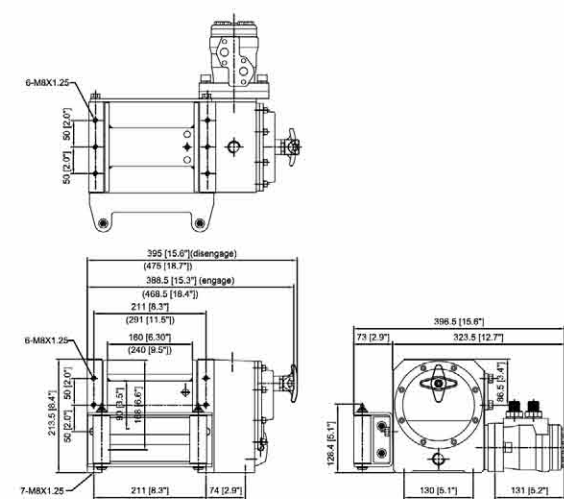
- Powered by an onboard hydraulic pump or PTO
- Fast and variable recovery speeds for high working rate
- High efficient and constant-operating torque motor
- Irreversible single stage worm gear provides instant braking and slip free operation
- An ergonomic T-handle for rapid wire rope payout
- Heavy duty roller fairlead with grease zerk fittings
- EN 14492-1 supported: 10:1 D/d ratio, 2:1 wire rope strength and 1.5d freeboard for severe duty car and commercial recovery
- Standard Compliance : SAE J706, CE Machinery Directive 2006/42/EC, and EN 14492-1:2006 Power Driven Winches.



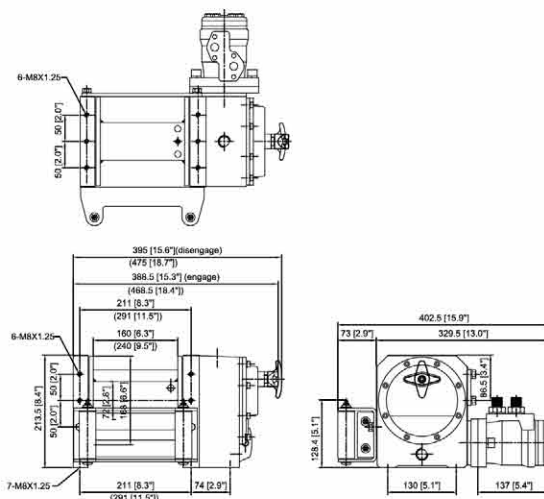
## Compliant with EN 14492-1 requirements for recovery winch:

- \* The working coefficient for the first rope layer on the drum shall be at least 2.
- \* The D/d ratio to the center of the rope shall be at least 10 for the drum.
- \* Drum freeboard shall be at least 1.5 x rope diameter.

## DIMENSION mm/in : (Yak 7)



## DIMENSION mm/in : (Yak 5)



## Yak 7 Hydraulic Worm Gear Winch



PN 681260 Std. drum | PN 681266 Long drum

## SPECIFICATIONS :

- **Rated line pull** : 3,175 kg (7,000 lb) SAE J706 rating  
3,200 kg EN 14492-rating
- **Line speed (at 1<sup>st</sup> layer of rope)** : 5.2 mpm at 40 l/min (17.1 fpm at 10.6 g/min)
- **Operation pressure** : 110 bar / 1,595 psi
- **Max oil flow** : 40 l/min (10.6 g/min)
- **Hydraulic motor** : 48.6 cm<sup>3</sup> / rev (3.0 in<sup>3</sup> / rev)
- **Gear ratio** : 1-stage worm gear 50:1
- **Winch construction** : Aluminum die cast housings with steel drum
- **Clutch (Freespooling)** : Worm gear disengaged
- **Brake** : Irreversible worm gear
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Drum barrel diameter** : 90 mm (3.5")
- **Drum flange diameter** : 168 mm (6.6")
- **Distance between flanges** : 160 mm (6.3") - Std. drum / 240 mm (9.5") - Long drum
- **Mounting bolts pattern** : 130 x 211 mm (5.1" x 8.3") - Std. drum  
130 x 291 mm (5.1" x 11.5") - Long drum
- **Wire rope recommended** :  
\* 10 mm x 10.7m for Std. drum and 16.2 m for Long drum, 1,960N/mm<sup>2</sup> grade with a minimum breaking strength of 69.8 kN required for EN 14492-1 rating  
\* 3/8" x 57.4' for Std. drum and 87.3' for Long drum, EIPS grade with a minimum breaking strength of 15,663 lbf required for SAE J706 rating
- **Winch weight** : 29 kg / 63.9 lb (Std. drum) ; 33 kg / 72.8 lb (Long drum)
- **Gross weight** : 33 kg / 72.8 lb (Std. drum) ; 37 kg / 81.6 lb (Long drum)
- **Box dimension** : 431 x 386 x 256 mm (17" x 15.2" x 10.1") - Std. drum  
511 x 386 x 256 mm (20.1" x 15.2" x 10.1") - Long drum

## PERFORMANCE DATA :

Layer of Wire Rope	Line Pull and Rope Capacity		Line Speed	
	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft Std. drum Long drum	at 40 l/min (10.6 g/min), mpm / fpm	
1 <sup>st</sup>	3,175 / 7,000	4.9 / 16.1 7.4 / 24.3	5.2 / 17.1	
2 <sup>nd</sup>	2,646 / 5,833	10.7 / 35.1 16.2 / 53.1	6.2 / 20.3	
3 <sup>rd</sup>	2,268 / 5,000	17.5 / 57.4 26.6 / 87.3	7.2 / 23.6	

## Yak 5 Hydraulic Worm Gear Winch



PN 681330 Std. drum | PN 681350 Long drum

## SPECIFICATIONS :

- **Rated line pull** : 2,268 kg (5,000 lb) SAE J706 rating  
2,200 kg EN 14492-1 rating
- **Line speed (at 1<sup>st</sup> layer of rope)** : 4.4 mpm at 45 l/min (14.4 fpm at 11.9 g/min)
- **Operation pressure** : 60 bar / 870 psi
- **Max oil flow** : 45 l/min (11.9 g/min)
- **Hydraulic motor** : 51.7 cm<sup>3</sup> / rev (3.2 in<sup>3</sup> / rev)
- **Gear ratio** : 1-stage worm gear 50:1
- **Winch construction** : Aluminum die cast housings with steel drum
- **Clutch (Freespooling)** : Worm gear disengaged
- **Brake** : Irreversible worm gear
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Drum barrel diameter** : 72 mm (2.8")
- **Drum flange diameter** : 168 mm (6.6")
- **Distance between flanges** : 160 mm (6.3") - Std. drum / 240 mm (9.5") - Long drum
- **Mounting bolts pattern** : 130 x 211 mm (5.1" x 8.3") - Std. drum  
130 x 291 mm (5.1" x 11.5") - Long drum
- **Wire rope recommended** :  
\* 8 mm x 25.5m for Std. drum and 38.6 m for Long drum, 1,960N/mm<sup>2</sup> grade with a minimum breaking strength of 44.7 kN required for EN 14492-1 rating  
\* 5/16" x 112.5' for Std. drum and 170.3' for Long drum, EIPS grade with a minimum breaking strength of 10,030 lbf required for SAE J706 rating
- **Winch weight** : 26 kg / 59.3 lb (Std. drum) ; 29 kg / 63.9 lb (Long drum)
- **Gross weight** : 30 kg / 66.1 lb (Std. drum) ; 33 kg / 72.8 lb (Long drum)
- **Box dimension** : 431 x 386 x 256 mm (17" x 15.2" x 10.1") - Std. drum  
511 x 386 x 256 mm (20.1" x 15.2" x 10.1") - Long drum

## PERFORMANCE DATA :

Layer of Wire Rope	Line Pull and Rope Capacity		Line Speed	
	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft Std. drum Long drum	at 45 l/min (11.9 g/min), mpm / fpm	
1 <sup>st</sup>	2,268 / 5,000	4.9 / 16.1 7.4 / 24.3	4.4 / 14.4	
2 <sup>nd</sup>	1,890 / 4,167	10.8 / 35.4 16.2 / 53.5	5.3 / 17.4	
3 <sup>rd</sup>	1,620 / 3,571	17.6 / 57.7 26.7 / 87.6	6.1 / 20.0	
4 <sup>th</sup>	1,418 / 3,126	25.5 / 83.7 38.6 / 126.6	7.0 / 23.0	
5 <sup>th</sup>	1,260 / 2,778	34.3 / 112.5 51.9 / 170.3	7.9 / 25.9	



## ELECTRIC RECOVERY WINCH

COMEUP, as an international brand of winch manufacturer, is aiming to provide a superior product that is inherently safe to operate in all conditions by all users. COMEUP further assures that its industrial winches comply with all European Standards and Directives including but not limited to EN 14492-1, the Machinery Safety regulations and all current Health and Safety regulations. COMEUP Rhino Series winch is designed to comply the above regulation requirements that ensures maximum performance in the toughest environment and is ideal for commercial, industrial and severe duty application.

▶ Rhino Series 12,000 ~ 8,000 lb

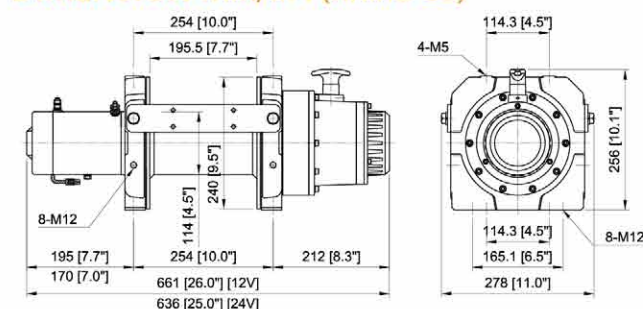
▶ Wolf Series 12,000 ~ 8,500 lb

### Rhino Series

- Reliable electric winch for commercial, industrial and severe duty applications
- 10 equally positioned pin holes with a ergonomic T-handle make end housing may be rotated in 36 degree increments
- Hardened steel, 3-stage planetary gear train for efficient and reliable operation
- Waterproof remote control with thermometric LED indicator alerts when the motor is over-heated
- U.S. Germany, U.K. France, etc patented mechanical cone brake holds full load
- Over-load protector build-in the control box prevents the overloading of the winch
- Submersible sealed contactor handles high amps and allows higher duty cycle
- Standard Compliance: CE Machinery Directive 2006/42/EC, CE Electromagnetic Compatibility Directive 2004/108/EC, EN 14492-1:2006 Power Driven Winches and SAE J706



### DIMENSION mm/in : (Rhino 12)

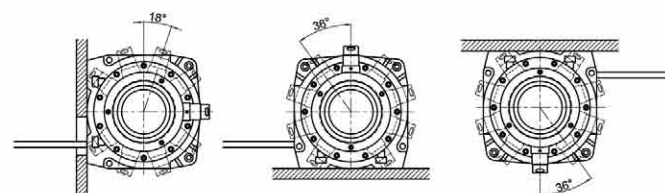


### ▶ OLP (Over-Load Protector) function

The over-load protector built-in the control box designs to prevent overloading of the winch



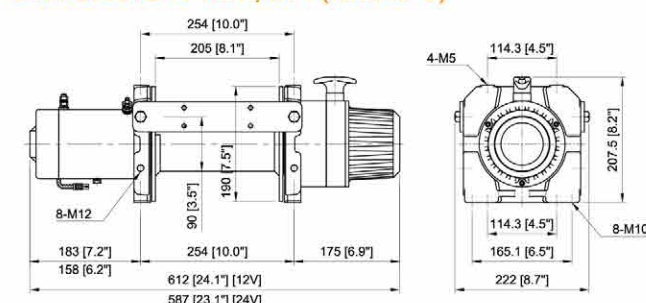
- ▶ 10 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 36° Increments.



### ▶ Compliant with EN 14492-1 requirements for recovery winch :

- The working coefficient for the first rope layer on the drum shall be at least 2
- The D/d ratio to the center of the rope shall be at least 10 for the drum.
- Drum freeboard shall be at least 1.5 x rope diameter

### DIMENSION mm/in : (Rhino 8)



## Rhino 12 *Electric Recovery Winch*



PN 851212 (12V) | PN 851224 (24V)

### SPECIFICATIONS :

- **Rated line pull** : 5,440 kg (12,000 lb) SAE J706 rating  
5,100 kg EN 14492-1 rating
- **Motor** : 4,180 w / 5.6 hp 12V series wound  
2,690 w / 3.6 hp 24V series wound
- **Gear ratio** : 3-stage planetary 315:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 114 x 195.5 mm (4.5" x 7.7")
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Control** : Waterproof remote with thermometric indicator LED and 5 m (17') cord
- **Mounting bolts pattern** : 254 x 114 mm (10" x 4.5")  
254 x 165 mm (10" x 6.5")
- **Wire rope recommended** :  
\* 12 mm x 21.4m, 1,960N/mm<sup>2</sup> grade with a minimum breaking strength of 100.5 kN required for EN 14492-1 rating  
\* 1/2" x 100', EIPS grade with a minimum breaking strength of 22,552 lbf required for SAE J706 rating
- **Winch weight** : 47 kg / 104 lb
- **Gross weight** : 61 kg / 134 lb
- **Box dimension** : 693 x 313 x 473 mm (27.3" x 12.3" x 18.6")

### PERFORMANCE DATA :

Line Pull and Rope Capacity		
Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	5,440 / 12,000	5.9 / 19.4
2 <sup>nd</sup>	4,534 / 9,996	13 / 42.7
3 <sup>rd</sup>	3,885 / 8,565	21.4 / 70
4 <sup>th</sup>	3,399 / 7,494	30.5 / 100

Line Speed and Amp. Draw ( 1 <sup>st</sup> layer of wire rope on the drum )			
Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A	
		12V	24V
No Load	10 / 32.8	40	35
1,814 / 4,000	4.4 / 14.4	140	110
3,630 / 8,000	3.5 / 11.5	280	210
5,535 / 10,000	1.5 / 5.0	350	260
5,440 / 12,000	1.3 / 4.3	420	310

## Rhino 8 *Electric Recovery Winch*



PN 850812 (12V) | PN 850824 (24V)

### SPECIFICATIONS :

- **Rated line pull** : 3,630 kg (8,000 lb) SAE J706 rating  
3,560 kg EN 14492-1 rating
- **Motor** : 3,430 w / 4.6 hp 12V series wound  
1,940 w / 2.6 hp 24V series wound
- **Gear ratio** : 3-stage planetary 211:1
- **Clutch (freespooling)** : Rotating ring gear
- **Brake (outside the drum)** : Automatic, full load CBS (Cone Brake Structure)
- **Winch construction** : Aluminum die cast housings with steel drum
- **Drum size** : 90 x 205 mm (3.5" x 8.1")
- **Rotation of winch** : Wire rope shall be under-wound orientation only
- **Control** : Waterproof remote with thermometric indicator LED and 5 m (17') cord
- **Mounting bolts pattern** : 254 x 114 mm (10" x 4.5")  
254 x 165 mm (10" x 6.5")
- **Wire rope recommended** :  
\* 10 mm x 22.6 m, 1,960N/mm<sup>2</sup> grade with a minimum breaking strength of 69.8 kN required for EN 14492-1 rating  
\* 3/8" x 100', EIPS grade with a minimum breaking strength of 15,663 lbf required for SAE J706 rating
- **Winch weight** : 31 kg / 68.3 lb
- **Gross weight** : 47 kg / 104 lb
- **Box dimension** : 650 x 260 x 440 mm (25.6" x 10.2" x 17.3")

### PERFORMANCE DATA :

Line Pull and Rope Capacity		
Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	3,630 / 8,000	6.3 / 20.7
2 <sup>nd</sup>	3,025 / 6,669	13.8 / 45.3
3 <sup>rd</sup>	2,593 / 5,717	22.6 / 74
4 <sup>th</sup>	2,269 / 5,002	30.5 / 100

Line Speed and Amp. Draw ( 1 <sup>st</sup> layer of wire rope on the drum )			
Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A	
		12V	24V
No Load	9.0 / 29.5	45	30
907 / 2,000	3.0 / 10	90	30
1,814 / 4,000	1.5 / 5.0	180	120
2,722 / 6,000	1.0 / 3.3	260	180
3,630 / 8,000	0.7 / 2.3	340	230



## Wolf 12.0 Electric Worm Gear Winch



PN 782478 (12V) | PN 783415 (24V)

### SPECIFICATIONS :

- **Rated line pull** : 5,443 kg (12,000 lb)
- **Motor** : 3,430 w / 4.6 hp 12V series wound  
2,240 w / 3.0 hp 24V series wound
- **Gear ratio** : 2-stage spur gear PLUS worm gear 424:1
- **Clutch (freespooling)** : Mechanism lever
- **Brake** : Irreversible worm gear brake PLUS mechanism ratchets wheel brake
- **Drum size** : 89 x 229 mm (3.5" x 9")
- **Control** : Waterproof remote w/5 m (17') cord
- **Rope type** : Galvanized aircraft A7 x 19
- **Rope size** : 9.5 mm x 30.5 m (3/8" x 100')
- **Mounting bolts pattern** : 273 x 110 mm (10.7" x 4.3")  
257 x 172 mm (10.1" x 6.8")
- **Winch weight** : 41 kg / 90.4 lb
- **Gross weight** : 51 kg / 112.5 lb
- **Box dimension** : 610 x 427 x 350 mm (24" x 16.8" x 13.8")

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

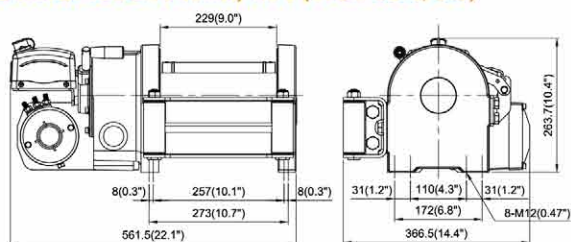
Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	5,443 / 12,000	7.3 / 24.0
2 <sup>nd</sup>	4,563 / 10,060	16.0 / 52.6
3 <sup>rd</sup>	3,928 / 8,659	26.1 / 85.8
4 <sup>th</sup>	3,448 / 7,601	30.5 / 100

#### Line Speed and Amp. Draw

( 1<sup>st</sup> layer of wire rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V 24V
No Load	6.3 / 20.3	70 40
2,722 / 6,000	2.7 / 8.9	180 85
3,630 / 8,000	1.7 / 5.6	270 120
4,535 / 10,000	1.4 / 4.6	310 150
5,443 / 12,000	1.0 / 3.3	350 190

### DIMENSION mm/in : (Wolf 12.0/8.5)



## Wolf 8.5 Electric Worm Gear Winch



PN 780254 (12V) | PN 780988 (24V)

### SPECIFICATIONS :

- **Rated line pull** : 3,856 kg (8,500 lb)
- **Motor** : 3,430 w / 4.6 hp 12V series wound  
1,940 w / 2.6 hp 24V series wound
- **Gear ratio** : 2-stage spur gear PLUS worm gear 228.9:1
- **Clutch (freespooling)** : Mechanism lever
- **Brake** : Irreversible worm gear brake PLUS mechanism ratchets wheel brake
- **Drum size** : 82 x 229 mm (3.2" x 9")
- **Control** : Waterproof remote w/5 m (17') cord
- **Rope type** : Galvanized aircraft A7 x 19
- **Rope size** : 8.0 mm x 45 m (5/16" x 150')
- **Mounting bolts pattern** : 273 x 110 mm (10.7" x 4.3")  
257 x 172 mm (10.1" x 6.8")
- **Winch weight** : 40 kg / 88.2 lb
- **Gross weight** : 51 kg / 112.5 lb
- **Box dimension** : 610 x 427 x 350 mm (24" x 16.8" x 13.8")

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

Layer of Wire Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	3,856 / 8,500	8.0 / 26.4
2 <sup>nd</sup>	3,279 / 7,229	17.5 / 57.4
3 <sup>rd</sup>	2,853 / 6,289	28.4 / 93.1
4 <sup>th</sup>	2,524 / 5,566	40.7 / 133.4
5 <sup>th</sup>	2,264 / 4,991	45.0 / 150.0

#### Line Speed and Amp. Draw

( 1<sup>st</sup> layer of wire rope on the drum )

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V 24V
No Load	10.6 / 34.8	55 40
907 / 2,000	4.3 / 14.1	120 70
1,814 / 4,000	3.0 / 9.8	200 100
2,722 / 6,000	2.4 / 7.9	255 130
3,630 / 8,000	2.0 / 6.6	320 160
3,856 / 8,500	1.8 / 5.9	350 170

- Wolf Series meet SAE J706, CE Machinery Directive 2006/42/EC, CE Electromagnetic Compatibility Directive 2001/108/EC

# HEAVY DUTY HOIST

### GTD Series

- Provides an answer to the health and safety recommendations for manual lifting
- High efficient low amp. draw and sealed permanent magnet motor.
- Lightweight and compact design is ideal for easy installation..
- Waterproof industrial remote control with 5 m lead
- Full metal 3 stage planetary gear train for greater pulling force.
- Submersible sealed contactor handles high amps and allows higher duty cycle.
- In compliance with standard of ANSI B30.5 for D/d ≥ 18 and rope safety factor ≥ 3.5
- Meet CE Machinery Directive 2006/42/EC, CE EMC Directive 2004/108/EC and ANSI B30.5



## GTD-1200 Heavy Duty Hoist



PN 751321 (12V) | PN 751375 (24V)

### SPECIFICATIONS :

- **Rated line lift** : 544 kg (1,200 lb)
- **Line speed (at 1<sup>st</sup> layer of rope) :**  
12V : 7.4 mpm / 24.3 fpm 30 A at no load  
5.5 mpm / 18.0 fpm 130 A at full load  
24V : 5.9 mpm / 19.4 fpm 15 A at no load  
5.0 mpm / 16.4 fpm 50 A at full load
- **Motor** : 900 w / 1.2 hp 12/24V permanent magnet
- **Gear ratio** : 3-stage planetary 216:1
- **Brake (outside the drum)** : Mechanical cone brake and permanent motor dynamic brakes together
- **Winch construction** : Aluminum die cast housings and cast iron drum
- **Drum size** : 89 x 73 mm (3.5" x 2.9")
- **Control** : Remote control with 5 m (17') lead
- **Rope type** : Galvanized aircraft A7 x 19
- **Rope size** : 4.8 mm x 18.3 m (3/16" x 60')
- **Mounting bolts pattern** : 114 x 101.6 mm (4.5" x 4")
- **Hoist weight (including rope)** : 15.3 kg / 33.7 lb
- **Gross weight** : 20.2 kg / 44.5 lb
- **Box dimension** : 504 x 214 x 363 mm (19.8" x 8.4" x 14.3")

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

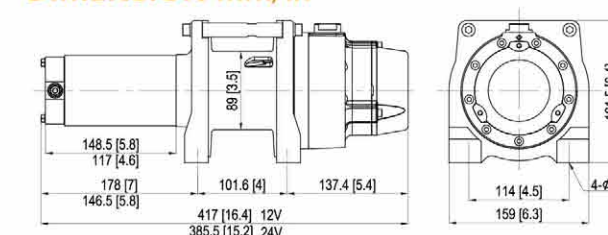
Layer of Wire Rope	Lift by Layer, kg / lb	Line Speed mpm / fpm	Total Rope on the Drum, m / ft
1 <sup>st</sup>	544 / 1,200	5.5 / 18	4.2 / 13.8
2 <sup>nd</sup>	494 / 1,089	6.1 / 19.9	8.8 / 28.9
3 <sup>rd</sup>	452 / 996	6.6 / 21.7	13.8 / 45.3
4 <sup>th</sup>	416 / 917	7.2 / 23.6	18.3 / 60

#### Line Speed and Amp. Draw

( 1<sup>st</sup> layer of wire rope on the drum )

Line Lift kg / lb	Line Speed mpm / fpm 12V 24V	Amp. Draw, A 12V 24V	Percentage Duty Cycle Min / 10 min
No Load	7.4 / 24.3 5.9 / 19.4	30 15	2.5
136 / 300	6.9 / 22.6 5.7 / 18.7	55 19	2.3
212 / 600	6.4 / 21.0 5.5 / 18.0	75 25	2.0
408 / 900	5.9 / 19.4 5.2 / 17.1	95 36	1.8
544 / 1,200	5.5 / 18.0 5.0 / 16.4	130 50	1.5

### DIMENSION mm/in





## GTD-800 Heavy Duty Hoist



PN 750925 (12V) | PN 750955 (24V)

### SPECIFICATIONS :

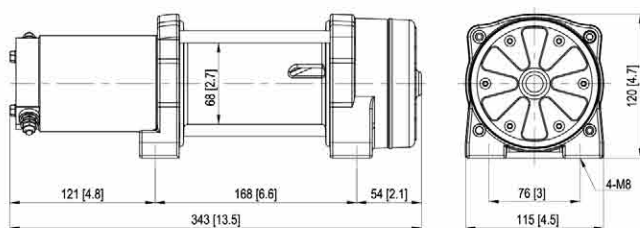
- **Rated line lift** : 362 kg (800 lb)
- **Line speed (at 1<sup>st</sup> layer of rope) :**
  - 12V : 3.6 mpm / 11.8 fpm 20 A at no load  
3.2 mpm / 10.5 fpm 55 A at full load
  - 24V : 4.2 mpm / 13.8 fpm 15 A at no load  
4.0 mpm / 13.1 fpm 35 A at full load
- **Motor** : 800 w / 1.0 hp 12/24V permanent magnet
- **Gear ratio** : 3-stage planetary 191:1
- **Brake (outside the drum)** : Mechanical spring applied and permanent motor dynamic brakes together
- **Winch construction** : Aluminum die housings with and drum
- **Drum size** : 68 x 119 mm (2.7" x 4.7")
- **Control** : Remote control with 5 m (17') lead
- **Rope type** : Galvanized aircraft A7 x 19
- **Rope size** : 4.0 mm x 18.3 m (5/32" x 60')
- **Mounting bolts pattern** : 168 x 76 mm (6.6" x 3")
- **Hoist weight (including rope)** : 8.3 kg / 18.3 lb
- **Gross weight** : 12.2 kg / 26.9 lb
- **Box dimension** : 430 x 170 x 300 mm (16.9" x 6.7" x 11.8")

### PERFORMANCE DATA :

Line Pull and Rope Capacity			
Layer of Wire Rope	Lift by Layer, kg / lb	Line Speed mpm / fpm	Total Rope on the Drum, m / ft
1 <sup>st</sup>	362 / 800	3.2 / 10.5	6.2 / 21.7
2 <sup>nd</sup>	327 / 721	3.6 / 11.8	14.0 / 45.9
3 <sup>rd</sup>	297 / 655	3.9 / 12.8	18.3 / 60

Line Speed and Amp. Draw (1 <sup>st</sup> layer of wire rope on the drum)					
Line Lift kg / lb	Line Speed mpm / fpm		Amp. Draw, A		Percentage Duty Cycle Min / 10 min
	12V	24V	12V	24V	
No Load	3.6 / 11.8	4.2 / 13.8	20	15	3.0
181 / 400	3.4 / 11.2	4.1 / 13.5	40	25	2.0
362 / 800	3.2 / 10.5	4.0 / 13.1	55	35	1.5

### DIMENSION mm/in :



## GTD-650 Heavy Duty Hoist



PN 750265 (12V) | PN 750280 (24V)

### SPECIFICATIONS :

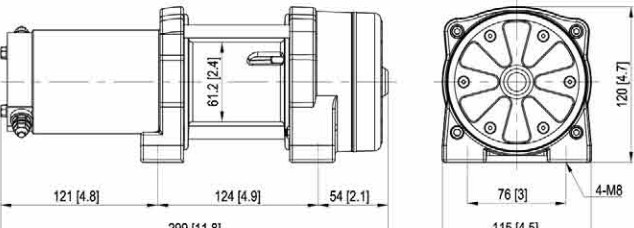
- **Rated line lift** : 295 kg (650 lb)
- **Line speed (at 1<sup>st</sup> layer of rope) :**
  - 12V : 4.3 mpm / 14.1 fpm 25 A at no load  
4.0 mpm / 13.1 fpm 55 A at full load
  - 24V : 5.0 mpm / 16.4 fpm 15 A at no load  
4.6 mpm / 15.1 fpm 30 A at full load
- **Motor** : 800 w / 1.0 hp 12/24V permanent magnet
- **Gear ratio** : 3-stage planetary 138.5:1
- **Brake (outside the drum)** : Mechanical spring applied and permanent motor dynamic brakes together
- **Winch construction** : Aluminum die housings and drum
- **Drum size** : 61.2 x 75 mm (2.4" x 3.0")
- **Control** : Remote control with 5 m (17') lead
- **Rope type** : Galvanized aircraft A7 x 19
- **Rope size** : 3.6 mm x 18.3 m (9/64" x 60')
- **Mounting bolts pattern** : 124 x 76 mm (4.9" x 3")
- **Hoist weight (including rope)** : 7.7 kg / 17 lb
- **Gross weight** : 11.6 kg / 25.6 lb
- **Box dimension** : 390 x 170 x 300 mm (15.4" x 6.7" x 11.8")

### PERFORMANCE DATA :

Line Pull and Rope Capacity			
Layer of Wire Rope	Lift by Layer, kg / lb	Line Speed mpm / fpm	Total Rope on the Drum, m / ft
1 <sup>st</sup>	295 / 650	4.0 / 13.1	4.1 / 13.5
2 <sup>nd</sup>	266 / 586	4.5 / 14.8	8.7 / 28.5
3 <sup>rd</sup>	241 / 531	4.9 / 16	13.8 / 45.3
4 <sup>th</sup>	221 / 487	5.4 / 17.7	18.3 / 60

Line Speed and Amp. Draw (1 <sup>st</sup> layer of wire rope on the drum)					
Line Lift kg / lb	Line Speed mpm / fpm		Amp. Draw, A		Percentage Duty Cycle Min / 10 min
	12V	24V	12V	24V	
No Load	4.3 / 14.1	5.0 / 16.4	25	15	3.0
147 / 320	4.2 / 13.8	4.8 / 15.7	45	22	2.0
295 / 650	4.0 / 13.1	4.6 / 15.1	55	30	1.5

### DIMENSION mm/in :



### Remote Control

PN 880025 for GTD-650/800/1200, Wolf 8.5/12.0

PN 880126 for Rhino 8/12 (coming with protective thermal sensor LED)

### Sealed Contactor

PN 881355 (12V) / PN 881356 (24V)

400A, for Wolf 8.5/12.0, Rhino 8/12

PN 881357 (12V) / PN 881358 (24V)

250A, for GTD-650/800/1200

### Detachable Control Box

PN 882313 (12V) / PN 882314 (24V)

for GTD-650/800/1200

PN 880340 (12V) / PN 880341 (24V) for Wolf 8.5/12.0

PN 881581 (12V) / PN 881582 (24V) for Rhino 8 (comes with built-in over-load protector)

PN 881645 (12V) / PN 881646 (24V) for Rhino 12 (comes with built-in over-load protector)

### Roller Fairlead

PN 880160 179 mm throat for HV-8 Std. drum, Bison 20/30 Std. drum

PN 880180 245 mm throat for HV-8 Long drum, HV-10/12/15

PN 880023 210 mm throat for Wolf 8.5/12.0

PN 881587 210 mm throat for Rhino 8/12

PN 881479 149 mm throat for Yak 5/7 Std. drum

PN 881480 229 mm throat for Yak 5/7 Long drum

PN 882238 330 mm throat for Bison 20/30 Long drum

### Snatch Block

PN 881079 Max. load 10,000 kg / 22,000 lb for GTD-650/800/1200, Yak 5/7

PN 881082 Max. load 13,610 kg / 30,000 lb for HV-8/10/12, Wolf 8.5/12.0, Rhino 8/12

### Wire Rope with hook

PN 881245 4.8 mm x 18.3 m (3/16" x 60') for GTD-1200

PN 882321 4.0 mm x 18.3 m (5/32" x 60') for GTD-800

PN 882323 3.6 mm x 18.3 m (9/64" x 60') for GTD-650

PN 881239 8.0 mm x 45 m (5/16" x 150') for Wolf 8.5

PN 880106 9.5 mm x 30.5 m (3/8" x 100') for Wolf 12.0

### Battery Isolation Switch PN 881097

2 Position Off-On 12V 500 Amp for Wolf 8.5/12.0, GTD-650/800/1200, Rhino 8/12

### Cable Tensioner

PN 881238 for HV-8 Std. drum, Rhino 12

PN 880179 for HV-8 Long drum, HV-10/12/15

PN 881667 for Rhino 8

PN 881983 for Bison 20/30 Std. drum

PN 882195 for Bison 20/30 Long drum

PN 880358 for Wolf 8.5/12.0

PN 881236 for Yak 5/7 Std. drum

PN 881237 for Yak 5/7 Long drum

### Air Clutch

PN 880181 for HV-8/10

PN 882352 for HV-12/15

### Extended Clutch Kit

PN 881314 for HV-8/10/12/15

### Over Center Valve

PN 880145 70-210 bar setting for HV-8/10/12/15

### Winch Accessory Kit

#### Heavy Duty Kit

Part Number: PN 882068 for HV-8/10/12, Wolf 8.5/12.0, Rhino 8/12, Yak 5/7

Designed for winch single line capacity to 6,803 kg / 15,000 lb Includes:

- 13,610 kg / 30,000 lb maximum capacity snatch block, PN 881082
- 100 mm x 2.4 m (4" x 8') tree trunk protector strap, PN 881091
- 75 mm x 9 m (3" x 30') recovery strap rated to 9,800 kg/21,600 lb, PN 881090
- Bow shackle, 20 mm (3/4") pin diameter, PN 881092
- 3 m of 8 mm (10' of 5/16") grade 70 choker chain with hooks, PN 881096
- Recovery damper, PN 881557
- Leather gloves, PN 881558
- Duffel bag, PN 881661



Emergency Stop Switch, PN 881668 400A



## Industrial Winch Accessories Chart

Series		Hydraulic Recovery Winch							
Model Number		Bison 30	Bison 20	HV-15	HV-12	HV-10	HV-8	Yak 7	Yak 5
Gear train		Planetary gears				Worm gears			
Rated line pull	SAE J706 rating	13,600 kg / 30,000 lb	9,070 kg / 20,000 lb	6,800 kg / 15,000 lb	5,440 kg / 12,000 lb	4,535 kg / 10,000 lb	3,630 kg / 8,000 lb	3,175 kg / 7,000 lb	2,268 kg / 5,000 lb
	EN 14492-1rating	-	9,070 kg	6,800 kg	5,100 kg	4,300 kg	3,560 kg	3,200 kg	2,200 kg
Over center valve		●	●	●	●	●	●	●	●
Roller fairlead	for Std. drum	●	●	●	●	●	●	●	●
	for Long drum	●	●	-	-	-	●	●	●
Cable tensioner	for Std. drum	●	●	⊙	⊙	⊙	⊙	⊙	⊙
	for Long drum	●	●	-	-	-	⊙	⊙	⊙
Air clutch		-	-	⊙	⊙	⊙	⊙	-	-
Snatch block		-	-	-	⊙	⊙	⊙	⊙	⊙

Series		Electric recovery Winch				Heavy Duty Hoist		
Model Number		Rhino 12	Rhino 8	Wolf 12.0	Wolf 8.5	GTD-1200	GTD-800	GTD-650
Gear train		Planetary gears		Worm gears		Planetary gears		
Rated line pull or lift	SAE J706 rating	5,440 kg / 12,000 lb	3,630 kg / 8,000 lb	5,443 kg / 12,000 lb	3,856 kg / 8,500 lb	544 kg / 1,200 lb	362 kg / 800 lb	295 kg / 650 lb
	EN 14492-1rating	5,100 kg	3,560 kg	-	-	-	-	-
Remote control		●	●	●	●	●	●	●
Control box	12V	●	●	●	●	●	●	●
	24V	●	●	●	●	●	●	●
Wire rope w/hook		⊙	⊙	●	●	●	●	●
Roller fairlead		●	●	●	●	-	-	-
Battery lead		●	●	●	●	●	●	●
Cable tensioner		⊙	⊙	●	●	-	-	-
Snatch block		⊙	⊙	⊙	⊙	⊙	⊙	⊙

● Means as a standard accessory / ⊙ Means as an option accessory



## ENGINEERING DATA

### Maximum Line Pull

This is the maximum dead-weight the winch could lift off the ground with a single line on the first layer of wire rope on the drum. They are not suitable for vertical lifting.

### Winching Principles

You need a winch to be powerful enough to pull your vehicle while overcome the added resistance caused by the obstacle, moving water, mud, snow, sand or on a steep hill.

As a general guide you need a winch with a maximum line pull of at least 1.5 times greater than the gross vehicle weight. There are three factors have influenced with the line pull effect required to recover the vehicle. The values and calculations in this section are approximate and are for reference only.

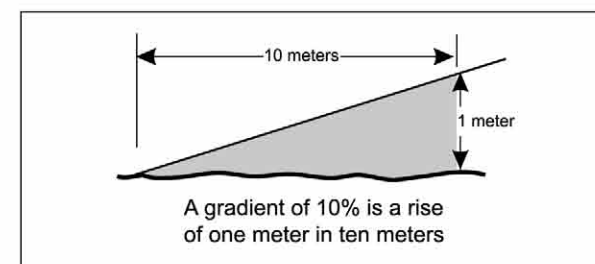
**1. Gross Vehicle Weight (Wt):** Contains the vehicle weight and the weight of the supplies and equipments carried.

**2. Surface Drag (S):** The characteristics of the terrains or surface to be traversed

Surface Type	Metal	Sand	Gravel	Soft Sand	Mud	Marsh	Clay
Surface Drag (S)	0.15	0.18	0.20	0.22	0.32	0.52	0.52

**3. Gradient Resistance:** The incline of grade or slope on which the vehicle is being moved.

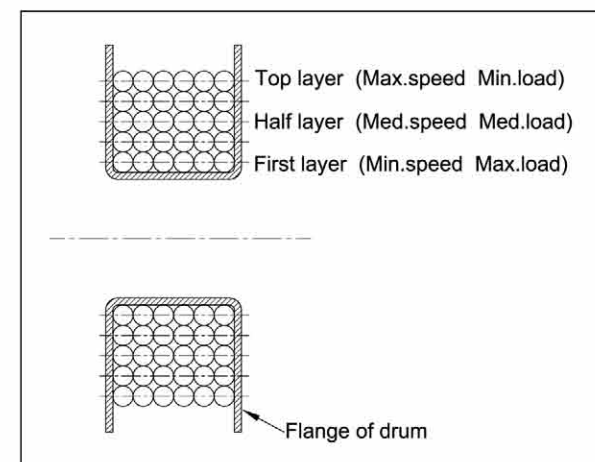
Gradient	5%	10%	20%	30%	50%	70%	100%
Angle (ref.)	3°	6°	11°	17°	26°	35°	45°
Gradient (G)	0.06	0.11	0.2	0.3	0.44	0.58	0.71



Rolling Pull Effect Required =  $(Wt \times S) + (Wt \times G)$   
 For example, if a vehicle weighing 3,000 kg is winched up an incline by 100% on the marsh road, the above formula would be used as follows:  
 Where  
 Wt : 3,000 kg ( gross vehicle weight )  
 S : 0.52 ( co-efficient for marsh )  
 G : 0.71 ( gradient value of 100% )  
 $(Wt \times S) + (Wt \times G) = (3,000 \text{ kg} \times 0.52) + (3,000 \text{ kg} \times 0.71)$   
 $= 1,560 \text{ kg} + 2,130 \text{ kg} = 3,690 \text{ kg}$  of effect required to recover the vehicle

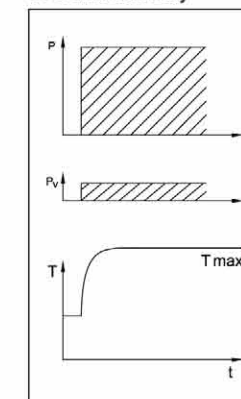
### Load Rating

Load and speed varies according to how much wire rope is on the drum. The first layer of rope on the drum delivers the slowest speed and the maximum load. The top layer of rope on the drum delivers the maximum speed and the minimum load. For this reason, all AUTOMOTIVE, POWERSPORTS and INDUSTRIAL winches are rated at their first layer capacities.



### DUTY CYCLE RATINGS

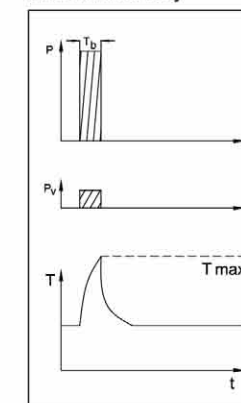
#### S1 Continuous Duty



The motor works at a constant load for enough time to reach temperature equilibrium

P load  
Pv electrical losses  
T temperature

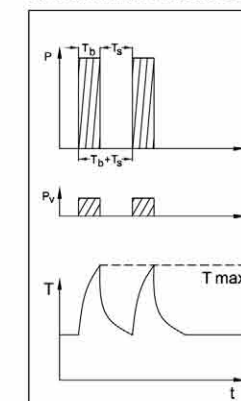
#### S2 Short Time Duty



The motor works at a constant load, but not long enough to reach temperature equilibrium, and the rest periods are long enough for the motor to reach ambient temperature  
 Examples: S2 – 60 min (The time means 60 minutes rating)

Tmax maximum temperature  
Tb time of operation

#### S3 Intermittent Periodic Duty



Sequential, identical run and rest cycles with constant load. Temperature equilibrium is never reached. Starting current has little effect on temperature rise.  
 Example: S3 - 5% (The percent figure refers to the cyclic duration factor)

Tb time of operation  
Ts time of rest

$$ED\% = \frac{T_b}{T_b + T_s} \times 100\%$$

Tb + Ts = approximately 1 to 10 minutes

For this reason, all Automotive, Industrial and Powersports winches are rated at S3 intermittent periodic duty.

### Warning

- Winches / Hoists are not to be used for the lifting or moving of persons.
- The rated line pull / lifting load shown is based on the first layer of rope on the drum.
- The rope winding on the drum shall remain 5 wraps of wire rope and 10 wraps of synthetic rope on the drum to support the rated load.

### Warranty Statement

- Each new winch is guaranteed against defects in workmanship and material defects for a stipulated period from date of purchase.
- Automotive Winch : Limited lifetime warranty for mechanical components  
One (1) year warranty for electrical components
- Powersports Winch : Limited lifetime warranty for mechanical components  
One (1) year warranty for electrical components
- Industrial Winch : One (1) year warranty for any components

WIRE/SYNTHETIC ROPES ARE NOT INCLUDED UNDER WARRANTY.



# COMEUP WINCH

## Winches have been awarded the following patents

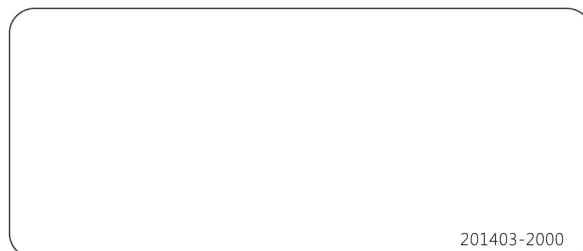
U.S.A.	US6,520,486B2 USD438,358S USD439,722S
Germany	Nr.20217439.5
U.K.	GB2387368
France	REG.0301991
Taiwan	076737 076815 079943 139158 180221 180547 181473 186419 188404 190951
China	ZL01204721.X ZL01229143.9 ZL01300166.3 ZL01300167.1 ZL02241429.0 ZL02338450.6

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