

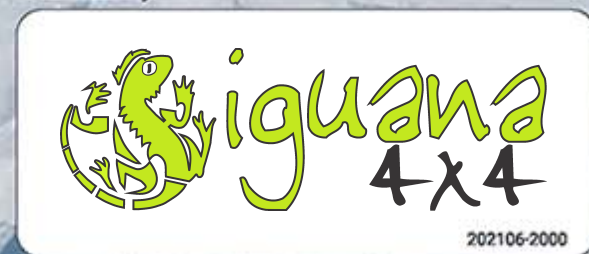


**COMEUP  
WINCH**

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# 2022-2023 PRODUCT GUIDE

Defense & Security Winch • Automotive Winch  
Powersports Winch • Industrial Winch • Hydraulic Hoist

**COMEUP  
WINCH**

Getting you through since 1975



## CONTENTS

■ Defense & Security Winch	05-08
■ Automotive Winch	09-43
■ Powersports Winch	44-49
■ Industrial Winch	50-73
■ Hydraulic Hoist	74-76



# COMEUP Milestones

1975 • Aug. Founded Chuan Phang Ent.Co. Ltd.



1992 • Xizhi HQ & Main Factory



1996 • Contracted with TTK in Japan for the production of Keeper



1998 • CWL series winches were awarded the Symbol of Excellence in Taiwan

2000 • Awarded DNV ISO9001 International Quality Certificate

2001 • All DC winches have had CE Marking approved



• Contracted with Furukawa Co., Ltd in Japan for the production of heavy duty hoist

2002 • DV Series self-recovery winch awarded the Symbol of Excellence in Taiwan



2003 • The CBS (Cone Brake Structure) brake device for winches filed patents in U.S.A., U.K., Germany, Taiwan, and China, etc.



2004 • Company name changed to Comeup Industries Inc.

2006 • Contracted with Planeta-Hebetechnik GmbH in Germany for the production of compact winch

2007 • DV-9000i winch at the North Pole



2009 • New hydraulic winches had SAE J706 certificate from TÜV  
• Certified by TÜV NORD according to ISO 9001:2008  
• DS-9.5i winch at the South Pole



2010 • Announced the brand's new logo  
• DV-9i winch at the erupting volcano Eyjafjallajökull  
• Seal 9.5i winch at the South Pole



2011 • Seal 9.5i winch at the South Pole



2012 • Set up the USA branch office  
• Seal 9.5si winch at the South Pole



2013 • Seal 9.5rsi winch at the South Pole  
• Seal 9.5i winch in RFC Malaysia



2014 • Seal 9.5rsi winch at the South Pole  
• Blazer competition winch in RFC Malaysia  
• IDB (Intelligence Dashboard) patented for New Seal Gen2 version



2015 • Competition winch (Blazer) in RFC India  
• Seal Gen2 9.5i winch in RFC Malaysia



2016 • Seal Gen2 16.5rs was awarded the Global Media Awards Winner in SEMA  
• Competition winch (Blazer) in RFC India, RFC & Rainforest Trophy Malaysia  
• New headquarter & factory in Ruifang



2017 • Competition winch (Blazer) in RFC & Rainforest Trophy Malaysia  
• MadX winch in Mahindra Adventure Great Escape India  
• Seal Gen2 9.5i/si/rsi winches were awarded the Symbol of Excellence in Taiwan



2018 • Certified by TÜV NORD according to ISO 9001:2015



2019 • UW-5000si utility winch was awarded the Symbol of Excellence in Taiwan



2020 • COMEUP TEAM at Arctic Ocean  
• COMEUP Industries Inc. awarded the 23<sup>rd</sup> Rising Star Award



2021 • Blazer M3/M2 competition winch was awarded the Symbol of Excellence in Taiwan



# WE WORK FOR OUR CUSTOMERS. NOT AN EQUITY FIRM.



Unlike most other winch companies, COMEUP is a family-run operation obsessed with the importance of detail appreciated by customers around the world. What we make, must be the best. What we do must benefit our customers.

### COMEUP Vertical Factory and Headquarters : Quality From Within

Started over four decades ago, COMEUP instituted the Flexible Manufacturing System in conjunction with Mori Seiki Japan. This emphasized controls at each step in the manufacturing process to assure high quality of each product component.

The COMEUP approach to process and quality thinking and execution is evident in the new, multi-floor factory. This vertical factory design increases control, efficiency and lines of communication compared to the typical single floor sprawl. The result is employee exposure to all product process stages and an engagement in quality output.

This is especially important with critical components, such as motors. Unlike other brands, COMEUP designs and manufactures their motors in their own manufacturing facility. This makes for perfect integration with the gear train and the COMEUP patented Cone Brake Structure. And COMEUP makes 70% of their components in-house.

### Process and Safety Certified By Third Parties

COMEUP has TÜV Nord ISO 9001:2015 certification for quality management. COMEUP also has the CE marking for product safety requirements. Many products meet the IP68 International Protection marking protected from immersion in water with depth of more than 1 meter; ATV/UTV winches have EEC Directive 97/24/EC Chapter 8 from RDW-Netherlands and hydraulic winches are compliant with SAE J706 per TÜV Rheinland.



### The Companies We Keep

COMEUP products are distributed in more than 60 countries on 5 continents. We provide standard products as well as products designed specifically for OEM applications. We provide OEM products to companies such as Toyo Koken KK Japan, Furakawa Co Ltd Japan, Planeta Hebeteknik GmbH in Germany and Miller Industries - Offroaders around the world rely on our standard recovery winch products to get back home.

### Reliability. It Matters To Us. It Matters To Your Customers.

COMEUP has a lifetime warranty for mechanical components and a one-year warranty for electrical components, from the date of the user's purchase.



The COMEUP internal engineering team generates their own IP



COMEUP produces the motors for their winch systems



Each and every COMEUP winch is tested before it is boxed and shipped



Skilled operators using advanced equipment— such as single-operation, complex mill-turn centers and CNC vertical machining — consistently produce components with precise tolerances.



# DEFENSE & SECURITY WINCH

## EXTREME PERFORMANCE

Incredible, Submersible, Sealed, Waterproof, Defense & Security Winches

COMEUP premium quality winches have been to the North Pole, the South Pole and nearly everywhere in between. Defense & Security winches feature corrosion resistance exceeding 720 hrs. and the contactor & motor are potted providing complete protection. Double lip and spring seal at drum housings and rubber seals at motor and gear housing joints for an IP68 waterproof and dustproof rating. With line pull capacities up to 22,000 lb and a limited lifetime warranty the Walrus Series from COMEUP will exceed your performance and durability expectations.

Walrus Series 18,000 - 22,000 lb



Limited Lifetime Warranty for Mechanical Components.  
Three (3) Years Warranty for Electrical Components.

# WALRUS SERIES

18,000 - 22,000 lb pulling capacity



- 1 Fully Sealed Contactor & Motor**  
Potted contactor and motor provide complete protection from water penetration and allow dependable operation in up to 1.8 meters 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 can withstand forces greater than 2 times the winch's rated capacity.
- 4 Double Lip and Spring Seal at Drum Housings**  
Rubber seals at motor and gear housing joints for superior 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. Clutch handle can be repositioned at 90 degree increments to allow easy access 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 to alert the operator if the motor begins to overheat, protecting the winch from damage.

**Corrosion resistance 720 hrs**  
**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.
- Meets international standards of CE Machinery Directive 2006/42/EC, CE Electromagnetic Compatibility Directive 2014/30/EU, and SAE J706 surface vehicle standard 2003-08 rev.



## Walrus 22.0

22,000 LB Defense & Security Winch

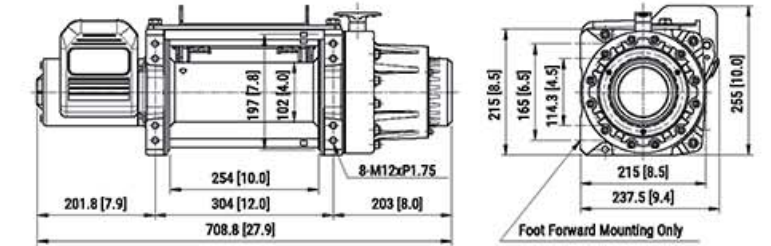
PN 282210 24V (with wire rope, roller fairlead, cable tensioner, remote control)



### SPECIFICATIONS :

**Rated line pull :** 9,980 kg (22,000 lb) single line  
**Motor :** 5,220 w / 7.0 hp, 24V series wound w/thermal protection switch  
**Gear train & 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 x 254 mm (4" x 10")  
**Control :** Waterproof remote with thermometric indicator LED w/ 5 m (17') cord  
**Rope :** 6 x 29 - IWRC (Breaking strength 126.4 kN), 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 bolt pattern :** 304 x 114.3 mm (12" x 4.5"); 304 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, (L x D x H) :** 745 x 275 x 430 mm (29.3" x 10.8" x 16.9")  
 \*Remark: Only foot forward mounting can meet SAE J706

### DIMENSION mm/in :



### 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>	9,980 / 22,000	7.0 / 23
2 <sup>nd</sup>	8,171 / 18,014	15.5 / 50.9
3 <sup>rd</sup>	6,917 / 15,249	25 / 82

#### 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 24V
No Load	9.0 / 29.5	30
2,268 / 5,000	3.2 / 10.5	100
4,536 / 10,000	2.5 / 8.2	160
6,804 / 15,000	2.0 / 6.6	240
9,980 / 22,000	1.4 / 4.6	330



**Walrus 18.0**

**18,000 LB Defense & Security Winch**

PN 281800 12V | PN 281810 24V (with wire rope, roller fairlead, cable tensioner, remote control)

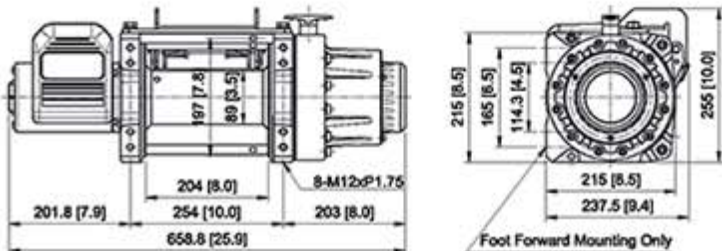


Note: Roller fairlead does not mount to winch

**SPECIFICATIONS :**

- Rated line pull : 8,165 kg (18,000 lb) single line
- Motor : 5,220 w / 7.0 hp, 12V series wound w/thermal protection switch  
4,474 w / 6.0 hp, 24V series wound w/thermal protection switch
- Gear train & 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 x 204 mm (3.5" x 8")
- Control : Waterproof remote with thermometric indicator LED w/ 5 m (17') cord
- Rope : 6 x 29 - IWRC (Breaking strength 100.7 kN), 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 bolt pattern : 254 x 114.3 mm (10" x 4.5"); 254 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, (L x D x H) : 690 x 270 x 405 mm (27.2" x 10.6" x 15.9")
- \*Remark: Only foot forward mounting can meet SAE J706

**DIMENSION mm/in :**



**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>	8,165 / 18,000	5.6 / 18.3
2 <sup>nd</sup>	6,683 / 14,733	12.4 / 40.6
3 <sup>rd</sup>	5,656 / 12,469	20.4 / 67
4 <sup>th</sup>	4,903 / 10,809	27 / 89

**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	24V	12V	24V
No Load	5.2 / 17.1	7.0 / 23	45	35
2,268 / 5,000	2.5 / 8.2	3.5 / 11.5	110	90
4,536 / 10,000	1.6 / 5.2	2.6 / 8.5	190	120
6,804 / 15,000	1.2 / 3.9	2.2 / 7.2	240	170
8,165 / 18,000	0.8 / 2.6	1.7 / 5.6	320	210

**AUTOMOTIVE WINCH**

COMEUP winches are equipped with a heavy duty motor that delivering superior torque output and faster line speed for severe duty, self-recovery or utility duty Automotive applications. The Automotive winches come with the 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!

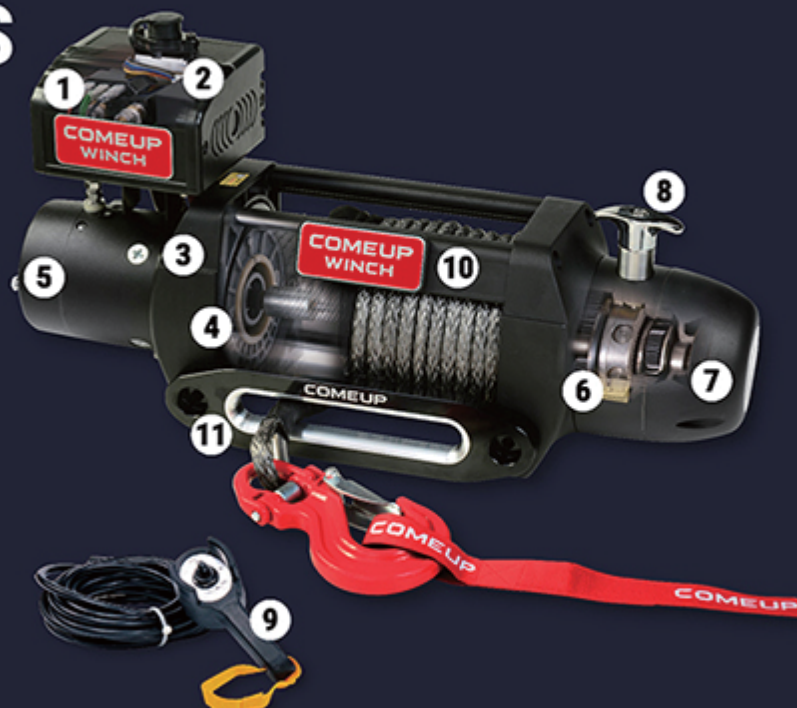
- Seal Gen2 Series 9,500 - 20,000 lb
- Seal Slim Series 9,500 - 12,500 lb
- DV Series 4,500 - 18,000 lb
- Competition Winch 6,000 - 10,000 lb
- Utility Duty Winch 4,500 - 5,000 lb



# SEAL GEN2 SERIES

9,500 - 12,500 - 16,500 - 20,000 lb pulling capacity

- 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.
- Safety Warning Notice**  
The built-in waterproof receiver in the control box is equipped with a beeping buzzer to indicate motor overheating. (Only for Seal Gen2 9.5rs/9.5rsi/12.5rs/16.5rs/20.0rs)
- Matte Black Powder-coated Finish**  
Matte black powder-coated finish on the surfaces allow a deep color expression while also hides the inherent flaws
- Extreme-duty Seals**  
Extreme duty, water resistant seals on the motor and gearbox housing joints.
- 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.
- Hardened Steel 3-stage Planetary Gear Train**  
Rugged and quiet planetary gears for maximum mechanical efficiency.
- Automatic, Full Load Cone Brake Structure (CBS)**  
The U.S., Germany, U.K., France, etc patented brake system automatically holds 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.
- 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.
- Protective Thermal Sensor**  
The industrial grade waterproof remote control comes with a thermometric LED indicator on the hand-held switch that automatically alerts the operator if the motor begins to overheat, protecting the winch from damage.
- Ergonomic Tie Bar**  
Ergonomic matte black powder-coated die cast aluminum alloy tie bar for increased frame strength and better corrosion resistance.
- Rope Options**  
Available with either wire rope or lightweight, high strength and no water absorption synthetic rope. Both ropes are equipped with a hook.



### Optional Wireless Remote: (See page 40 for more info)

- Wiring harness with built-in antenna designed for quick installation and easy wireless operation.
- IP66 waterproof transmitter and receiver ensure all weather protection.
- 2.4 GHz high frequency device features never in-band interference within 27m (90') radius.
- Color LED indicates different winching conditions.

• Meets international standards of CE Machinery Directive 2006/42/EC, CE Electromagnetic Compatibility Directive 2014/30/EU, and SAE J706 Surface Vehicle standard 2003-08 rev.



Seal Gen2 Series Winch  
 ▶ Limited Lifetime Warranty for Mechanical Components.  
 ▶ Three (3) Years Warranty for Electrical Components.

## Seal Gen2 20.0/20.0s/20.0rs

20,000 LB Electric Winch

- Seal Gen2 20.0 PN 295205 12V (with wire rope, roller fairlead, remote control)
- Seal Gen2 20.0s PN 295217 12V (with synthetic rope, hawse fairlead, remote control)
- Seal Gen2 20.0rs PN 295223 12V (with wireless remote control, synthetic rope, hawse fairlead, remote control)



### SPECIFICATIONS :

**Rated line pull :** 9,072 kg (20,000 lb) single line  
**Motor :** 5,220 w / 7.0 hp, 12V series wound w/thermal protection switch  
**Gear train & 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 x 204 mm (3.5" x 8")  
**Control :**  
 Seal Gen2 20.0/20.0s : Waterproof remote with thermometric indicator LED w/5 m (17') cord  
 Seal Gen2 20.0rs : Both built-in digital signal two way wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord  
**Rope :** Seal Gen2 20.0 : 6 x 29 - IWRC, 12.7 mm x 18 m (1/2" x 59')  
 Seal Gen2 20.0s/20.0rs : Synthetic rope, 14 mm x 16.7 m (9/16" x 55')  
**Recommended battery :** 650 CCA minimum for winching  
**Battery lead :** 1.8 m (6') 2 gauge battery lead  
**Mounting bolt pattern :** 254 x 114.3 mm (10" x 4.5") ; 254 x 165 mm (10" x 6.5")  
**Mounting :** Foot forward mounting only  
**Winch weight (including rope) :** Seal Gen2 20.0 : 59.9 kg / 132 lb  
 Seal Gen2 20.0s/20.0rs : 49.6 kg / 109.3 lb  
**Gross weight :** Seal Gen2 20.0 : 77 kg / 169.7 lb  
 Seal Gen2 20.0s/20.0rs : 63.6 kg / 140.2 lb  
**Box dimension, (L x D x H) :** 740 x 270 x 495 mm (29.1" x 10.6" x 19.5")  
 \*Remark: Only foot forward mounting can meet SAE J706

### PERFORMANCE DATA :

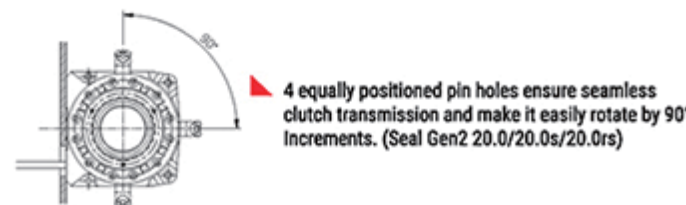
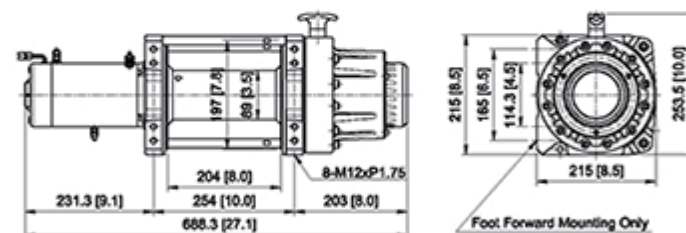
Line Pull and Rope Capacity

Model Name	Seal Gen2 20.0		Seal Gen2 20.0s/20.0rs	
	Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	Pull by Layer, kg / lb
1 <sup>st</sup>	9,072 / 20,000	5.0 / 16.4	9,072 / 20,000	4.6 / 14.9
2 <sup>nd</sup>	7,259 / 16,003	11.2 / 36.7	7,133 / 15,725	10.3 / 33.9
3 <sup>rd</sup>	6,050 / 13,338	18.0 / 59.0	5,877 / 12,956	16.7 / 55.0

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
No Load	4.5 / 14.8	60
1,814 / 4,000	2.1 / 6.9	150
3,629 / 8,000	1.8 / 5.9	190
4,536 / 10,000	1.4 / 4.6	260
7,484 / 16,500	1.1 / 3.6	340
9,072 / 20,000	0.4 / 1.3	410

### DIMENSION mm/in :



**Seal Gen2 16.5/16.5s/16.5rs**

**16,500 LB Electric Winch**

Seal Gen2 16.5 **PN 295615** 12V (with wire rope, roller fairlead, remote control)  
 Seal Gen2 16.5s **PN 295635** 12V (with synthetic rope, hawse fairlead, remote control)  
 Seal Gen2 16.5rs **PN 295655** 12V (with wireless remote control, synthetic rope, hawse fairlead, remote control)



Note: Roller/Hawse fairlead does not mount to winch

**SPECIFICATIONS :**

**Rated line pull :** 7,484 kg (16,500 lb) single line  
**Motor :** 4,325 w / 5.8 hp, 12V series wound w/thermal protection switch  
**Gear train & 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 x 204 mm (3.5" x 8")  
**Control :**  
 Seal Gen2 16.5/16.5s : Waterproof remote with thermometric indicator LED w/5 m (17') cord  
 Seal Gen2 16.5rs : Both built-in digital signal two way wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord  
**Rope :** Seal Gen2 16.5 : 6 x 29 - IWRC, 11.1 mm x 27.4 m (7/16" x 90')  
 Seal Gen2 16.5s/16.5rs : Synthetic rope, 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 bolt pattern :** 254 x 114.3 mm (10" x 4.5"); 254 x 165 mm (10" x 6.5")  
**Mounting :** Foot forward mounting only  
**Winch weight (including rope) :** Seal Gen2 16.5 : 61 kg / 135 lb  
 Seal Gen2 16.5s/16.5rs : 48 kg / 106 lb  
**Gross weight :** Seal Gen2 16.5 : 76.7 kg / 169 lb  
 Seal Gen2 16.5s/16.5rs : 60.8 kg / 134 lb  
**Box dimension, (L x D x H) :** 690 x 270 x 405 mm (27.2" x 10.6" x 15.9")  
 \*Remark: Only foot forward mounting can meet SAE J706

**PERFORMANCE DATA :**

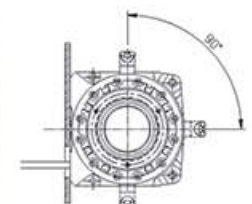
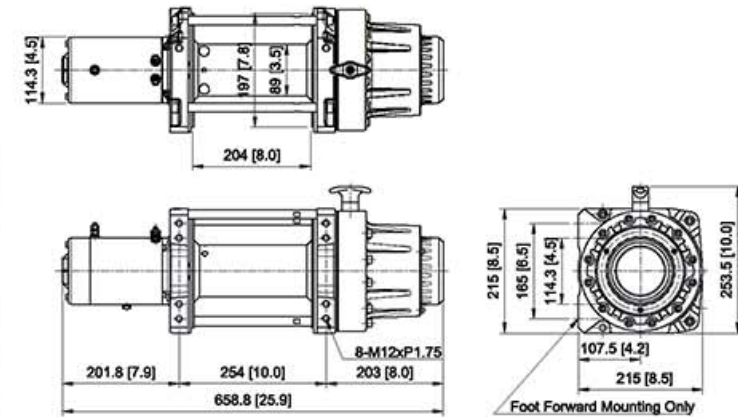
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		Seal Gen2 16.5	Seal Gen2 16.5s/16.5rs
1 <sup>st</sup>	7,484 / 16,500	5.6 / 18.4	5.2 / 17.1
2 <sup>nd</sup>	6,125 / 13,503	12.4 / 40.7	11.6 / 38.1
3 <sup>rd</sup>	5,184 / 11,429	20.4 / 66.9	19.2 / 63.0
4 <sup>th</sup>	4,494 / 9,908	27.4 / 90.0	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
	Seal Gen2 16.5	Seal Gen2 16.5s/16.5rs	
No Load	5.5 / 18	5.6 / 18.4	50
1,814 / 4,000	2.9 / 9.5	3.0 / 9.8	90
3,629 / 8,000	2.4 / 7.9	2.5 / 8.2	180
4,536 / 10,000	1.8 / 5.9	1.9 / 6.2	230
7,484 / 16,500	1.4 / 4.6	1.4 / 4.6	355

**DIMENSION mm/in :**



4 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 90° increments. (Seal Gen2 16.5/16.5s/16.5rs)

**Seal Gen2 12.5/12.5s/12.5rs**

**12,500 LB Electric Winch**

Seal Gen2 12.5 **PN 295730** 12V (with wire rope, roller fairlead, remote control)  
 Seal Gen2 12.5s **PN 295750** 12V (with synthetic rope, hawse fairlead, remote control)  
 Seal Gen2 12.5rs **PN 295780** 12V (with wireless remote control, synthetic rope, hawse fairlead, remote control)



Note: Roller/Hawse fairlead does not mount to winch

**SPECIFICATIONS :**

**Rated line pull :** 5,670 kg (12,500 lb) single line  
**Motor :** 3,730 w / 5.0 hp, 12V series wound w/thermal protection switch  
**Gear train & 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 Gen2 12.5/12.5s : Waterproof remote with thermometric indicator LED w/5 m (17') cord  
 Seal Gen2 12.5rs : Both built-in digital signal two way wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord  
**Rope :** Seal Gen2 12.5 : Galvanized aircraft A7 x 19, 9.5 mm x 25 m (3/8" x 82')  
 Seal Gen2 12.5s/12.5rs : Synthetic rope, 11 mm x 25 m (7/16" x 82')  
**Battery lead :** 1.8 m (6') 2 gauge battery lead  
**Mounting bolt pattern :** 254 x 114 mm (10.0" x 4.5")  
**Mounting :** Foot forward mounting only  
**Winch weight (including rope) :** Seal Gen2 12.5 : 37.7 kg / 83.1 lb  
 Seal Gen2 12.5s/12.5rs : 29.8 kg / 65.7 lb  
**Gross weight :** Seal Gen2 12.5 : 53 kg / 117 lb  
 Seal Gen2 12.5s/12.5rs : 40.8 kg / 90 lb  
**Box dimension, (L x D x H) :** 682 x 209 x 430 mm (26.9" x 8.2" x 16.9")  
 Remark : \* Only foot forward mounting can meet SAE J706

**PERFORMANCE DATA :**

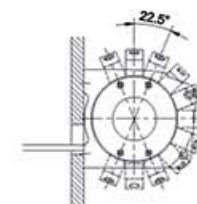
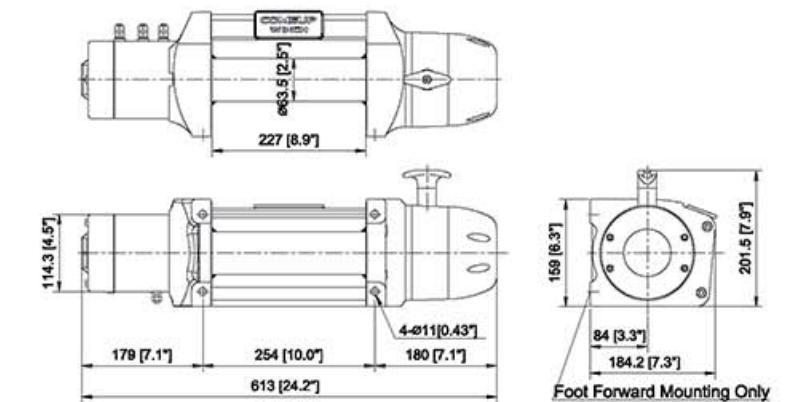
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		Seal Gen2 12.5	Seal Gen2 12.5s/12.5rs
1 <sup>st</sup>	5,670 / 12,500	5.4 / 17.7	4.8 / 15.7
2 <sup>nd</sup>	4,499 / 9,919	12.1 / 39.7	10.9 / 35.7
3 <sup>rd</sup>	3,729 / 8,221	20.3 / 66.6	18.5 / 60.7
4 <sup>th</sup>	3,184 / 7,020	25.0 / 82.0	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
	Seal Gen2 12.5	Seal Gen2 12.5s/12.5rs	
No Load	7.5 / 24.6	7.7 / 25.3	45
907 / 2,000	3.4 / 11.2	3.4 / 11.2	75
1,814 / 4,000	2.5 / 8.2	2.5 / 8.2	160
2,722 / 6,000	2.0 / 6.6	2.0 / 6.6	230
3,629 / 8,000	1.6 / 5.2	1.7 / 5.6	300
5,670 / 12,500	0.9 / 3.0	0.9 / 3.0	470

**DIMENSION mm/in :**



16 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 22.5° increments. (Seal Gen2 12.5/12.5s/12.5rs)

\* Please verify specific clutch handle clcking requirements with your dealer prior to purchase.





**Seal Gen2 9.5/9.5s/9.5rs**

**9,500 LB Electric Winch**

Seal Gen2 9.5 PN 295950 12V (with wire rope, roller fairlead, remote control)  
 Seal Gen2 9.5s PN 295990 12V (with synthetic rope, hawse fairlead, remote control)  
 Seal Gen2 9.5rs PN 295850 12V (with wireless remote control, synthetic rope, hawse fairlead, remote control)



Note: Roller/Hawse fairlead does not mount to winch



**SPECIFICATIONS :**

Rated line pull : 4,309 kg (9,500 lb) single line  
 Motor : 3,730 w / 5.0 hp, 12V series wound w/thermal protection switch  
 Gear train & 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 Gen2 9.5/9.5s : Waterproof remote with thermometric indicator LED w/5 m (17') cord  
 Seal Gen2 9.5rs : Both built-in digital signal two way wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord  
 Rope : Seal Gen2 9.5 : Galvanized aircraft A7 x 19, 8.7 mm x 30.5 m (11/32" x 100')  
 Seal Gen2 9.5s/9.5rs : Synthetic rope, 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 bolt pattern : 254 x 114 mm (10" x 4.5")  
 Winch weight (including rope) : Seal Gen2 9.5 : 36.2 kg / 79.8 lb  
 Seal Gen2 9.5s/9.5rs : 28.5 kg / 62.8 lb  
 Gross weight : Seal Gen2 9.5 : 51.3 kg / 113 lb  
 Seal Gen2 9.5s/9.5rs : 40 kg / 88 lb  
 Box dimension, (L x D x H) : 682 x 209 x 430 mm (26.9" x 8.2" x 16.9")

**PERFORMANCE DATA :**

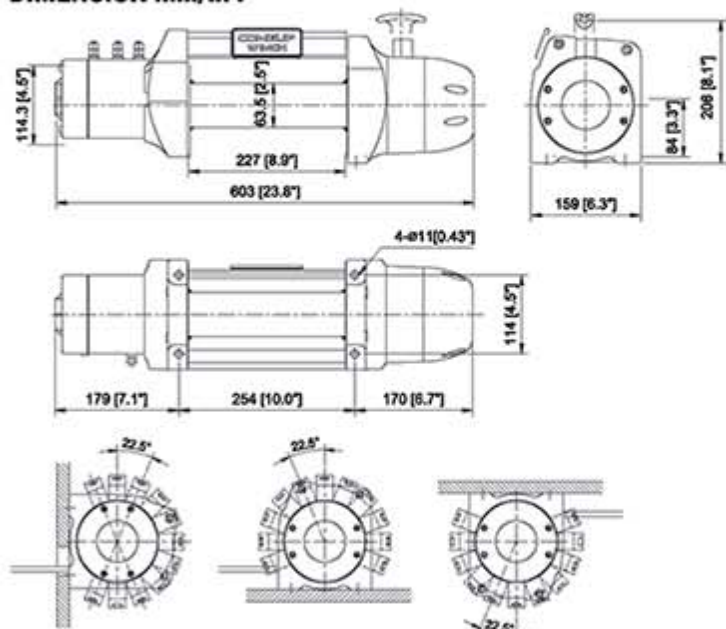
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		Seal Gen2 9.5	Seal Gen2 9.5s/9.5rs
1 <sup>st</sup>	4,309 / 9,500	5.8 / 19.1	5.1 / 16.7
2 <sup>nd</sup>	3,472 / 7,655	13.1 / 42.9	11.7 / 38.4
3 <sup>rd</sup>	2,908 / 6,410	21.7 / 71.2	19.7 / 64.6
4 <sup>th</sup>	2,501 / 5,514	30.5 / 100	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
	Seal Gen2 9.5	Seal Gen2 9.5s/9.5rs	
No Load	14.5 / 47.6	14.8 / 48.6	60
907 / 2,000	4.7 / 15.2	4.8 / 15.7	115
1,814 / 4,000	3.5 / 11.5	3.6 / 11.8	210
2,722 / 6,000	2.8 / 9.2	2.8 / 9.2	245
3,629 / 8,000	2.3 / 7.6	2.3 / 7.6	280
4,309 / 9,500	2.1 / 6.8	2.2 / 7.2	380

**DIMENSION mm/in :**



16 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 22.5° increments. Seal Gen2 9.5/9.5s/9.5rs  
 \* Please verify specific clutch handle colcking requirements with your dealer prior to purchase.



**Cutout Switch**

The Seal Gen2 9.5i/9.5si models include a cutout switch to activate or deactivate the winch.  
 The cutout switch on the Seal Gen2 9.5rsi model also deactivate the wireless receiver to prevent parasitic draw.



**New functions of the bridge control box**

**Intelligence Dashboard (IDB) - Included On Seal Gen2 9.5i /9.5si/9.5rsi Models**



**Vehicle Battery Life**

The Intelligence Dashboard (IDB) displays the condition of your vehicle's battery.



**Wireless Remote Control Icon - Seal Gen2 9.5rsi Only**

**Wireless Signal Icon**  
 The Intelligence Dashboard (IDB) includes a blue wireless signal icon that is continuously illuminated to confirm the wireless remote is paired with the winch.

**Wireless Signal Strength**  
 The solid green LED on the wireless transmitter indicates good signal strength, but a flashing red LED indicates a weak signal.

**Cable IN/OUT Direction Indicators**

The green triangle icons on the Intelligence Dashboard (IDB) will light sequentially to indicate the rope winding direction. The green triangles will turn to red triangles if the motor is over-heating.

**Thermal Protection**

**Temperature Warning**  
 The flashing red temperature icon on the Intelligence Dashboard (IDB) indicates the motor is over-heating.

**Handheld Remote Warning**  
 The two green LED indicators on the wired remote control will change to red if the motor is over-heating.

**Buzzer Warning**  
 The Seal Gen2 9.5rs/9.5rsi/12.5rs/16.5rs/20.0rs models include an audible buzzer alarm that alerts if the motor is over-heating.



## Seal Gen2 9.5i/9.5si/9.5rsi

9,500 LB Electric Winch

Seal Gen2 9.5i PN 295980 12V (with wire rope, roller fairlead, remote control)

Seal Gen2 9.5si PN 295880 12V (with synthetic rope, hawse fairlead, remote control)

Seal Gen2 9.5rsi PN 295860 12V (with wireless remote control, synthetic rope, hawse fairlead, remote control)



Note: Roller/hawse fairlead does not mount to winch



### SPECIFICATIONS :

Rated line pull : 4,309 kg (9,500 lb) single line

Motor : 3,730 w / 5.0 hp, 12V series wound w/thermal protection switch

Gear train & 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 Gen2 9.5i/9.5si : Waterproof remote with thermometric indicator LED w/5 m (17') cord

Seal Gen2 9.5rsi : Both built-in digital signal two way wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord

Rope : Seal Gen2 9.5i : Galvanized aircraft A7 x 19, 8.7 mm x 30.5 m (11/32" x 100')

Seal Gen2 9.5si/9.5rsi : Synthetic rope, 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 bolt pattern : 254 x 114 mm (10" x 4.5")

Winch weight (including rope) : Seal Gen2 9.5i : 38.5 kg / 85 lb

Seal Gen2 9.5si/9.5rsi : 36.2 kg / 79.8 lb

Gross weight : Seal Gen2 9.5i : 52.6 kg / 116 lb

Seal Gen2 9.5si/9.5rsi : 40.8 kg / 90 lb

Box dimension, (L x D x H) : 682 x 209 x 430 mm (26.9" x 8.2" x 16.9")

### PERFORMANCE DATA :

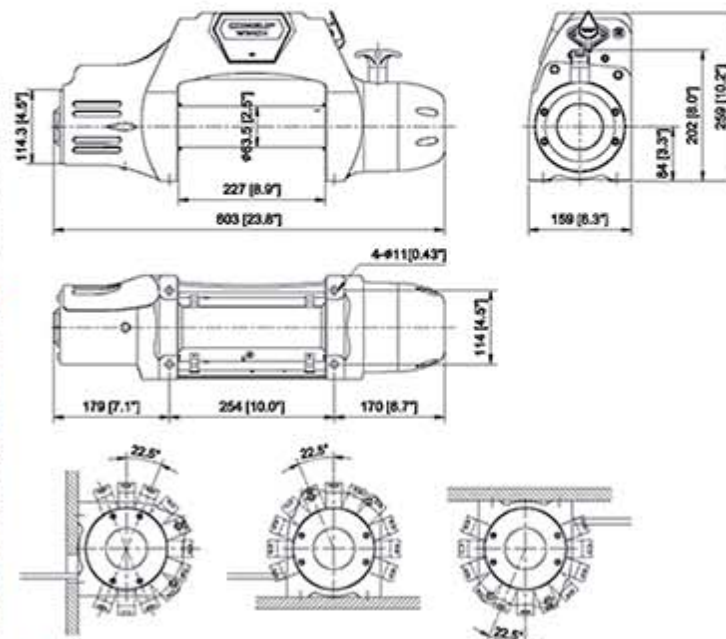
#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		Seal Gen2 9.5i	Seal Gen2 9.5si/9.5rsi
1 <sup>st</sup>	4,309 / 9,500	5.8 / 19.1	5.1 / 16.7
2 <sup>nd</sup>	3,472 / 7,655	13.1 / 42.9	11.7 / 38.4
3 <sup>rd</sup>	2,908 / 6,410	21.7 / 71.2	19.7 / 64.6
4 <sup>th</sup>	2,501 / 5,514	30.5 / 100	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
	Seal Gen2 9.5i	Seal Gen2 9.5si/9.5rsi	
No Load	14.5 / 47.6	14.8 / 48.6	60
907 / 2,000	4.7 / 15.2	4.8 / 15.7	115
1,814 / 4,000	3.5 / 11.5	3.6 / 11.8	210
2,722 / 6,000	2.8 / 9.2	2.8 / 9.2	245
3,629 / 8,000	2.3 / 7.6	2.3 / 7.6	280
4,309 / 9,500	2.1 / 6.8	2.2 / 7.2	380

### DIMENSION mm/in :



16 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 22.5° increments. (Seal Gen2 9.5i/9.5si/9.5rsi)

# Seal Slim Series

9,500 - 12,500 lb pulling capacity

- 12V DC severe duty winch
- Slim size for hidden, inside-bumper mounting applications
- Die-Cast housing tested to twice the rated winch capacity
- Patented CBS (Cone Brake Structure) for safe, full-load holding
- Built-in digital two way wireless remote control
- Heavy-duty series wound motor delivers superior torque output
- Thermal overload warning and motor protection
- Clockable clutch lever for easy operation in concealed applications
- Hardened steel, planetary gear train for durable and reliable operation
- Coated 12 strand synthetic rope with superior abrasion resistance
- Includes waterproof wired remote control and hawse fairlead



Seal Slim Series Winch  
 Limited Lifetime Warranty for Mechanical Components  
 Three (3) years Warranty for Electrical Components.

**Seal Slim 12.5rs**

**12,500 LB Electric Winch**

PN 295059 12V (with wireless remote control, synthetic rope, hawse fairlead, remote control)



Note : Hawse fairlead does not mount to winch

**SPECIFICATIONS :**

Rated line pull : 5,670 kg (12,500 lb) single line  
 Motor : 3,730 w / 5.0 hp 12V, series wound w/thermal protection switch  
 Gear train & 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 : Both built-in digital signal two way wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord  
 Rope : Synthetic rope, 11 mm x 25 m (7/16" x 82')  
 Battery lead : 1.8 m (6') 2 gauge battery lead  
 Mounting bolt pattern : 254 x 114 mm (10" x 4.5")  
 Mounting : Foot forward mounting only  
 Winch weight (including rope) : 29.8 kg / 65.7 lb  
 Gross weight : 40.8 kg / 90 lb  
 Box dimension, (L x D x H) : 682 x 209 x 430 mm (26.9" x 8.2" x 16.9")  
 Remark : \* Only foot forward mounting can meet SAE J706

**PERFORMANCE DATA :**

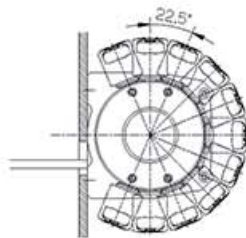
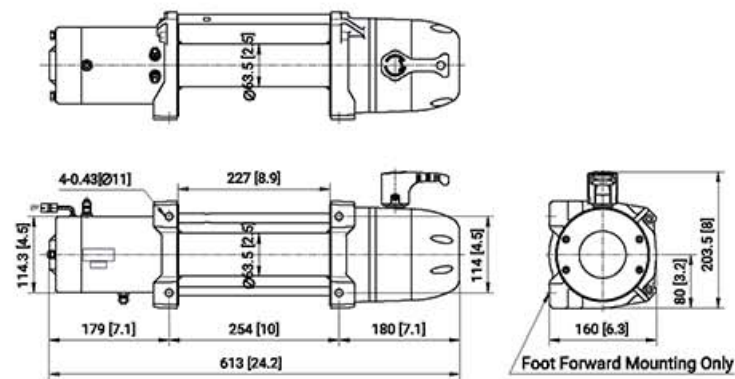
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	5,670 / 12,500	4.8 / 15.7
2 <sup>nd</sup>	4,499 / 9,919	10.9 / 35.7
3 <sup>rd</sup>	3,729 / 8,221	18.5 / 60.7
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	7.7 / 25.3	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	1.7 / 5.6	300
5,670 / 12,500	0.9 / 3.0	470

**DIMENSION mm/in :**



16 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 22.5° increments.

**Seal Slim 9.5rs**

**9,500 LB Electric Winch**

PN 295053 12V (with wireless remote control, synthetic rope, hawse fairlead, remote control)



Note : Hawse fairlead does not mount to winch

**SPECIFICATIONS :**

Rated line pull : 4,309 kg (9,500 lb) single line  
 Motor : 3,730 w / 5.0 hp, 12V series wound w/thermal protection switch  
 Gear train & 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 : Both built-in digital signal two way wireless remote control and waterproof remote with thermometric indicator LED w/5 m (17') cord  
 Rope : Synthetic rope, 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 bolt pattern : 254 x 114 mm (10" x 4.5")  
 Winch weight (including rope) : 28.5 kg / 62.8 lb  
 Gross weight : 40 kg / 88 lb  
 Box dimension, (L x D x H) : 682 x 209 x 430 mm (26.9" x 8.2" x 16.9")

**PERFORMANCE DATA :**

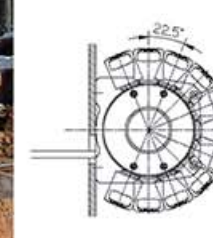
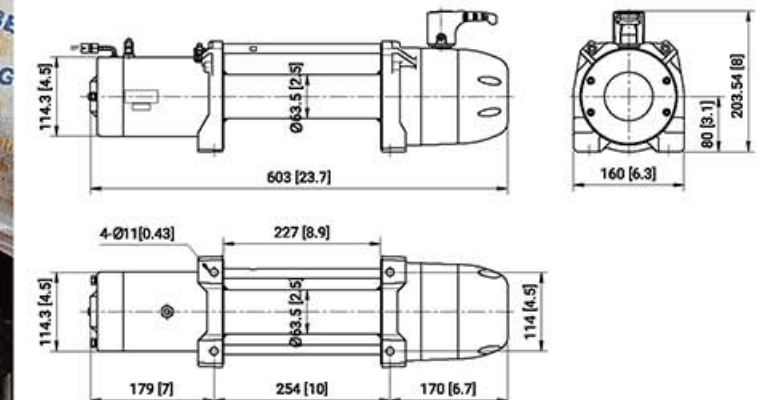
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	4,309 / 9,500	55.1 / 16.7
2 <sup>nd</sup>	3,472 / 7,655	11.7 / 38.4
3 <sup>rd</sup>	2,908 / 6,410	19.7 / 64.6
4 <sup>th</sup>	2,501 / 5,514	30.5 / 100

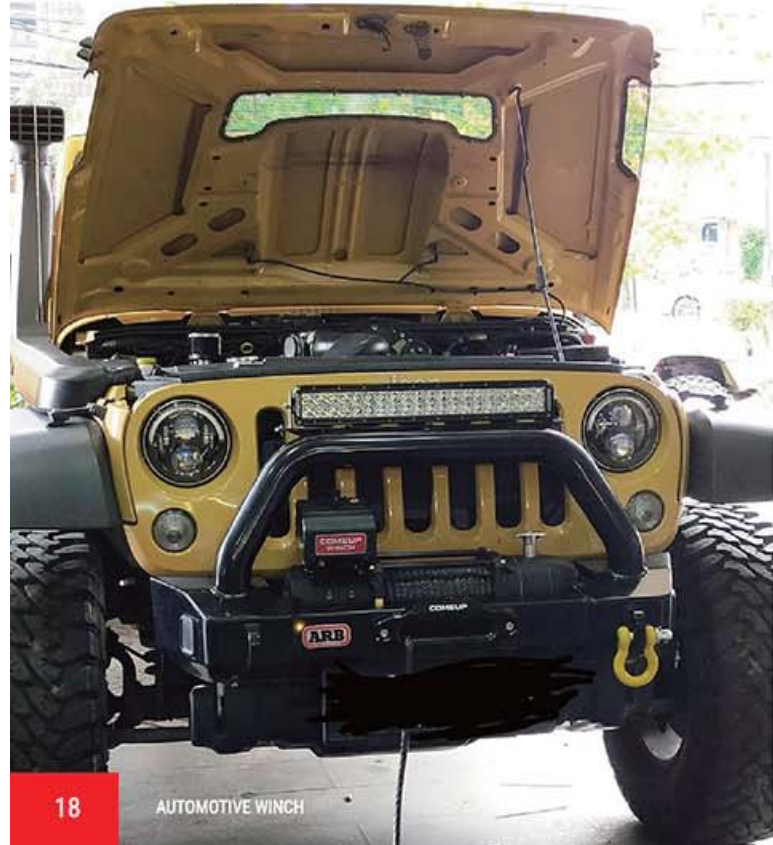
**Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)**

Line Pull kg / lb	Line Speed, mpm / fpm	Amp. Draw, A 12V
No Load	14.8 / 48.6	60
907 / 2,000	4.8 / 15.7	115
1,814 / 4,000	3.6 / 11.8	210
2,722 / 6,000	2.8 / 9.2	245
3,629 / 8,000	2.3 / 7.6	280
4,309 / 9,500	2.2 / 7.2	380

**DIMENSION mm/in :**



16 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 22.5° increments.



# DV Series

6,000 - 9,000 - 12,000 - 15,000 - 18,000 lb pulling capacity

\*\* All DV series winches with synthetic rope upon request. \*\*

**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 Extreme Durable Motor**

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

**3 Aluminum Alloy Housings**

Tough die cast aluminum alloy housings can withstand forces greater than 2 times the winch's rated capacity.

**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 brake system automatically holds 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 the operator if the motor begins to overheat, protecting the winch from damage.

• Meets international standards of CE Machinery Directive 2006/42/CE, CE Electromagnetic Compatibility Directive 2014/30/EU, and SAE J706 Surface Vehicle standard 2003-08 rev.

▶ Limited Lifetime Warranty for Mechanical Components.

▶ One (1) Year Warranty for Electrical Components.



## DV-18

18,000 LB Electric Winch

PN 851823 12V / PN 851838 24V

(with wire rope, roller fairlead, remote control)



Note : Roller fairlead does not mount to winch

**SPECIFICATIONS :**

Rated line pull : 8,181 kg (18,000 lb) single line

Motor : 5,220 w / 7.0 hp, 12V series wound w/thermal protection switch  
4,474 w / 6.0 hp, 24V series wound w/thermal protection switch

Gear train & 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 : 6 x 29 -IWRC, 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 bolt 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, (L x D x H) : 694.2 x 265.2 x 418.4 mm (27.3" x 10.4" x 16.5")

**PERFORMANCE DATA :**

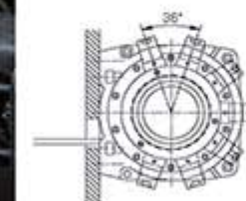
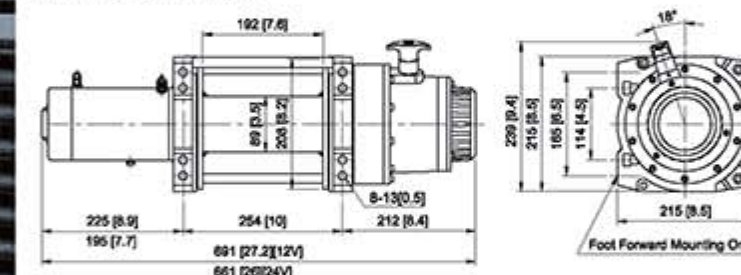
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	8,181 / 18,000	4.7 / 15.4
2 <sup>nd</sup>	6,545 / 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 rope on the drum)**

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A	
		12V	24V
No Load	8.5 / 28.2	35	40
1,814 / 4,000	4.0 / 13.1	115	70
3,630 / 8,000	3.6 / 12.0	200	140
4,535 / 10,000	3.2 / 10.6	230	180
5,443 / 12,000	2.8 / 9.3	260	210
6,804 / 15,000	2.3 / 7.5	320	240
8,181 / 18,000	1.0 / 3.3	350	290

**DIMENSION mm/in :**



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



**DV-15/12**

**15,000/12,000 LB Electric Winch**

DV-15 PN 857326 12V | PN 857431 24V (with wire rope, roller fairlead, remote control)  
DV-12 PN 857130 12V | PN 857228 24V (with wire rope, roller fairlead, remote control)



Note : Roller fairlead does not mount to winch

**SPECIFICATIONS :**

**Rated line pull :**  
DV-15 : 6,804 kg (15,000 lb) single line  
DV-12 : 5,443 kg (12,000 lb) single line  
**Motor :** 4,180 w / 5.6 hp, 12V series wound w/thermal protection switch  
2,690 w / 3.6 hp, 24V series wound w/thermal protection switch  
**Gear train & ratio :** DV-15 : 3-stage planetary 315:1  
DV-12 : 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 mm x 206 mm (3.5" x 8.1")  
**Control :** Waterproof remote with thermometric indicator LED w/5 m (17') cord  
**Rope :** DV-15 : 6 x 29 – IWRC, 11.1 mm x 27 m (7/16" x 89')  
DV-12 : Galvanized aircraft A7 x 19, 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 bolt pattern :** 254 x 114 mm (10" x 4.5") ; 254 x 165 mm (10" x 6.5")  
**Winch weight (including rope) :** DV-15 : 57 kg / 125.4 lb ; DV-12 : 55 kg / 121 lb  
**Gross weight :** DV-15 : 69 kg / 152 lb ; DV-12 : 67 kg / 147.7 lb  
**Box dimension, (L x D x H) :** 694 x 265.2 x 418.4 mm (27.3" x 10.4" x 16.5")

**PERFORMANCE DATA :**

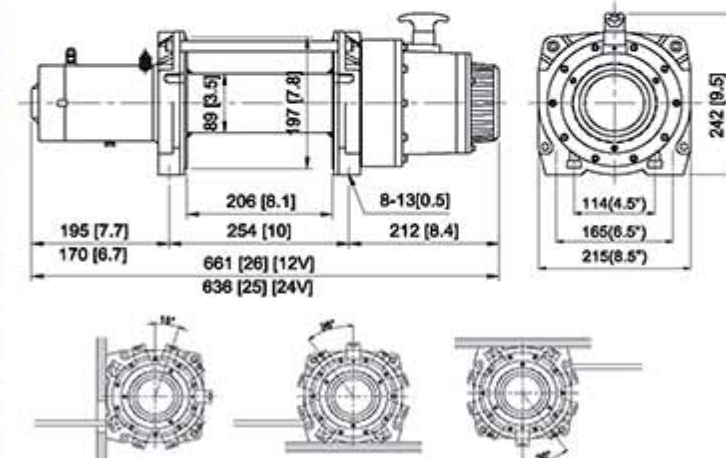
**Line Pull and Rope Capacity**

Layer of Rope	DV-15		DV-12	
	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	6,804 / 15,000	5.7 / 18.6	5,443 / 12,000	6.6 / 21.5
2 <sup>nd</sup>	5,569 / 12,277	12.6 / 41.4	4,563 / 10,060	14.4 / 47.2
3 <sup>rd</sup>	4,713 / 10,391	20.8 / 68.3	3,928 / 8,659	23.5 / 77
4 <sup>th</sup>	4,086 / 9,007	27 / 89	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			
	DV-15	DV-12	DV-15		DV-12	
			12V	24V	12V	24V
No Load	6.9 / 22.0	8.3 / 27	60	50	60	50
1,814 / 4,000	1.6 / 5.4	2.6 / 8.6	180	80	200	100
3,629 / 8,000	1.2 / 3.8	1.7 / 5.8	280	190	310	190
4,536 / 10,000	1.0 / 3.3	1.4 / 4.4	330	220	370	230
5,443 / 12,000	0.9 / 2.9	1.2 / 4.0	385	260	440	290
6,804 / 15,000	0.8 / 2.5	-	460	340	-	-

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

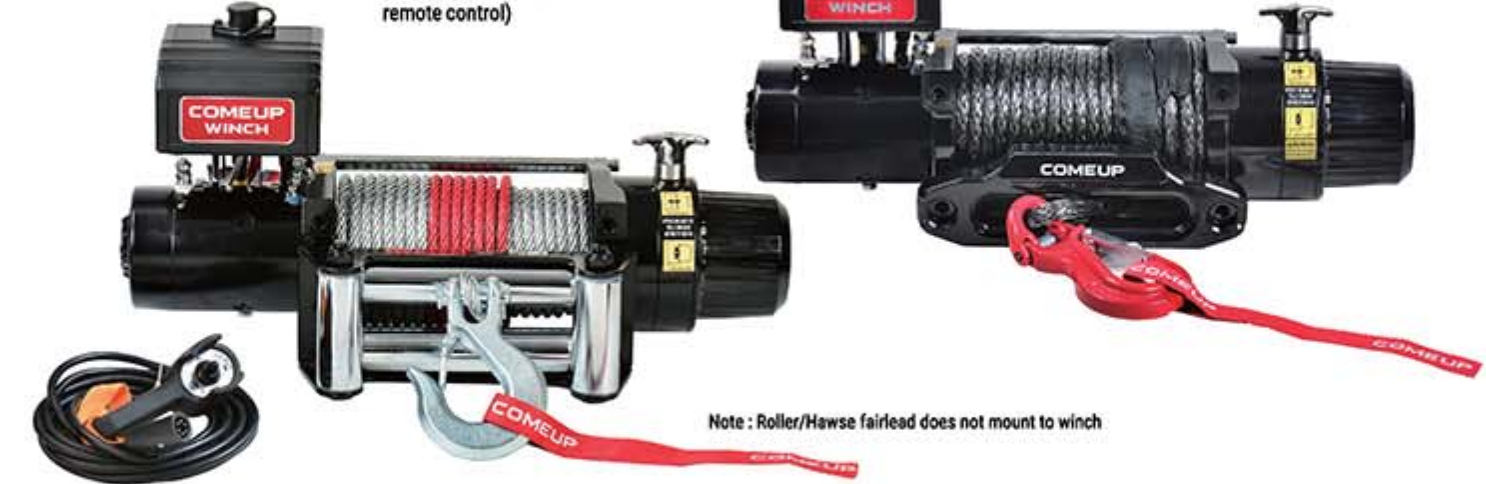


10 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 36° increments. (DV-15/12)

**DV-12 light/12s light**

**12,000 LB Electric Winch**

DV-12 light PN 850012 12V | PN 850124 24V (with wire rope, roller fairlead, remote control)  
DV-12s light PN 850125 12V | PN 851024 24V (with synthetic rope, hawse fairlead, remote control)



Note : Roller/Hawse fairlead does not mount to winch

**SPECIFICATIONS :**

**Rated line pull :** 5,443 kg (12,000 lb) single line  
**Motor :** 3,430 w / 4.6 hp, 12V series wound w/thermal protection switch  
1,940 w / 2.6 hp, 24V series wound w/thermal protection switch  
**Gear train & 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 :** DV-12 light : Galvanized aircraft A7 x 19, 9.5 mm x 25 m (3/8" x 82')  
DV-12s light : Synthetic rope, 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 bolt 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, (L x D x H) :** 650 x 195 x 415 mm (25.6" x 7.7" x 16.3")  
**Remark :** \* Only foot forward mounting can meet SAE J706

**PERFORMANCE DATA :**

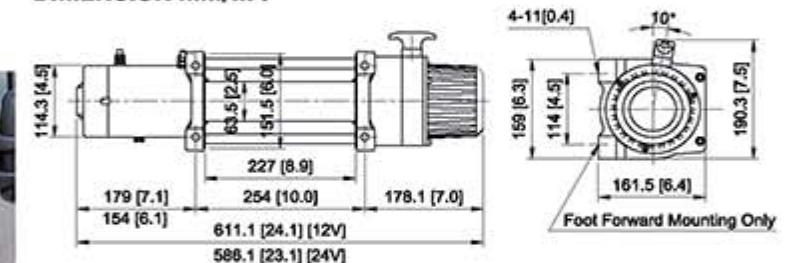
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		DV-12 light	DV-12s light
1 <sup>st</sup>	5,443 / 12,000	5.4 / 17.7	4.7 / 15.5
2 <sup>nd</sup>	4,319 / 9,522	12.2 / 40.0	10.8 / 35.5
3 <sup>rd</sup>	3,580 / 7,893	20.5 / 67.3	18.3 / 60.1
4 <sup>th</sup>	3,056 / 6,737	25.0 / 82.0	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	
	DV-12 light	DV-12s light	12V	24V
No Load	8.0 / 26.2	8.2 / 26.9	50	30
1,814 / 4,000	3.0 / 9.8	3.1 / 10.2	120	70
3,629 / 8,000	1.5 / 5.0	1.6 / 5.1	230	140
4,536 / 10,000	1.2 / 4.0	1.2 / 4.0	290	180
5,443 / 12,000	1.0 / 3.3	1.0 / 3.3	350	210

**DIMENSION mm/in :**



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



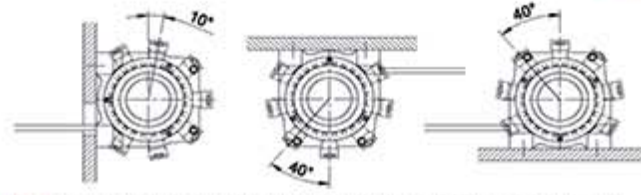
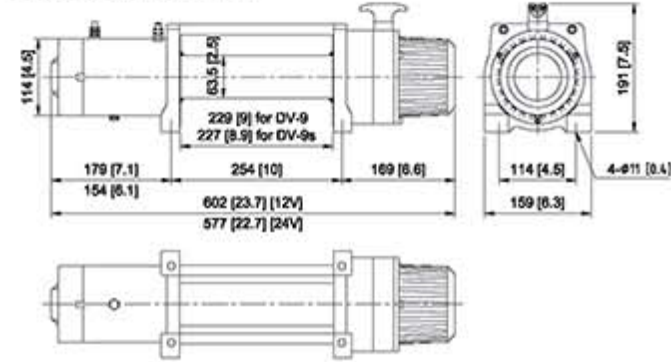
**DV-9/9s**

**9,000 LB Electric Winch**

DV-9 PN 856329 12V | PN 856355 24V (with wire rope, roller fairlead, remote control)  
DV-9s PN 859252 12V | PN 859262 24V (with synthetic rope, hawse fairlead, remote control)



**DIMENSION mm/in :**



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

**DV-9i/9si**

**9,000 LB Electric Winch**

DV-9i PN 856360 12V | PN 856388 24V (with wire rope, roller fairlead, remote control)  
DV-9si PN 859038 12V | PN 859055 24V (with synthetic rope, hawse fairlead, remote control)



**SPECIFICATIONS :**

**Rated line pull :** 4,082 kg (9,000 lb) single line  
**Motor :** 3,430 w / 4.6 hp, 12V series wound w/thermal protection switch  
1,940 w / 2.6 hp, 24V series wound w/thermal protection switch  
**Gear train & 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 :** DV-9/9i : Galvanized aircraft A7 x 19, 8.3 mm x 30.5 m (21/64" x 100')  
DV-9s/9si : Synthetic rope, 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 bolt 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, (L x D x H) :** 650 x 195 x 415 mm (25.6" x 7.7" x 16.3")

**PERFORMANCE DATA :**

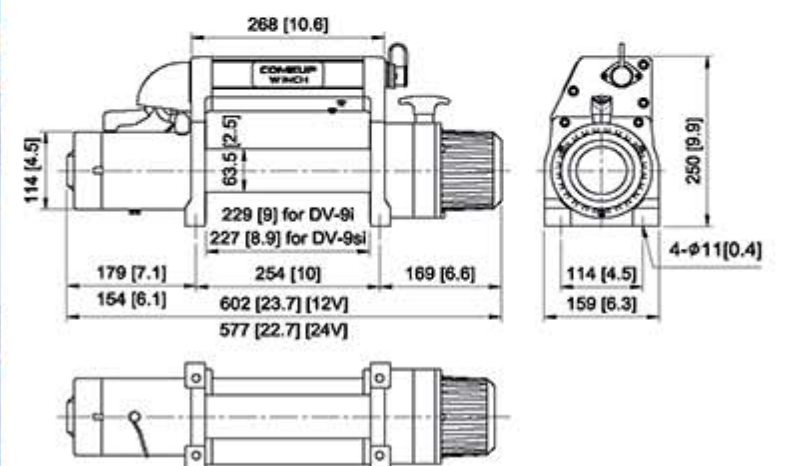
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		DV-9/9i	DV-9s/9si
1 <sup>st</sup>	4,082 / 9,000	6.1 / 20.0	5.5 / 18.1
2 <sup>nd</sup>	3,316 / 7,310	13.6 / 44.7	12.5 / 41.0
3 <sup>rd</sup>	2,792 / 6,154	22.6 / 74.0	20.9 / 68.6
4 <sup>th</sup>	2,410 / 5,314	30.5 / 100	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	
	DV-9/9i	DV-9s/9si	12V	24V
No Load	13 / 42.7	13.2 / 43.3	55	30
907 / 2,000	4.6 / 15.0	4.7 / 15.3	110	65
1,814 / 4,000	3.4 / 11.0	3.4 / 11.2	200	100
2,722 / 6,000	2.7 / 9.0	2.8 / 9.1	230	130
3,629 / 8,000	2.3 / 7.5	2.3 / 7.6	260	170
4,082 / 9,000	2.0 / 6.4	2.0 / 6.5	350	210

**DIMENSION mm/in :**



**DV-6**

**6,000 LB Electric Winch**

PN 854750 12V Std. drum | PN 854760 12V Long drum  
(with wire rope, roller fairlead, remote control)



Note : Roller/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 train & 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 : Std. drum : 63.5 x 125.5 mm (2.5" x 4.9")  
 Long drum : 63.5 x 227 mm (2.5" x 8.9")  
 Control : Waterproof remote w/5 m (17') cord  
 Rope : Std. drum : Galvanized aircraft A7 x 19, 7.1 mm x 24.4 m (9/32" x 80")  
 Long drum : Galvanized aircraft A7 x 19, 7.1 mm x 30.5 m (9/32" x 100")  
 Recommended battery : 650 CCA minimum for winching  
 Battery lead : 1.8 m (6') 6 gauge battery lead  
 Mounting bolt pattern : Std. drum : 152.4 x 114 mm (6" x 4.5")  
 Long drum : 254 x 114 mm (10" x 4.5")  
 Winch weight (including rope) : Std. drum : 22.8 kg / 50.3 lb  
 Long drum : 25.2 kg / 55.6 lb  
 Gross weight : Std. drum : 28.4 kg / 62.6 lb ; Long drum : 32.8 kg / 72.3 lb  
 Box dimension, (L x D x H) : Std. drum : 505 x 210 x 340 mm (19.9" x 8.3" x 13.4")  
 Long drum : 672 x 210 x 390 mm (26.5" x 8.3" x 15.4")

**PERFORMANCE DATA :**

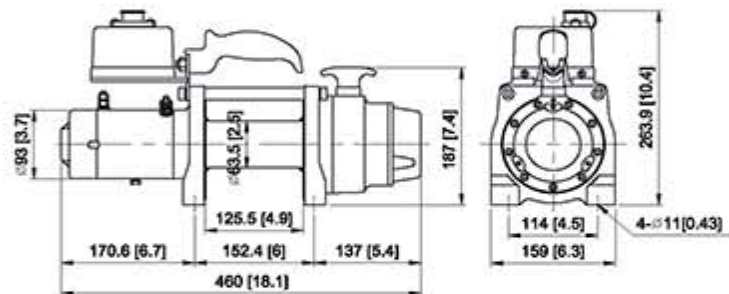
**Line Pull and Rope Capacity**

Layer of 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	-

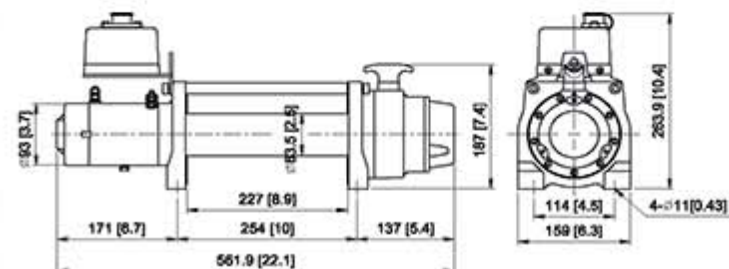
**Line Speed and Amp. Draw (1<sup>st</sup> layer of wire rope on the drum)**

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)**



(DV-6 Long drum)



**DV-6s/6s carry on**

**6,000 LB Electric Winch**

DV-6s PN 854752 12V (with synthetic rope, hawse fairlead, remote control)  
 DV-6s carry on PN 854765 12V (with synthetic rope, hawse fairlead, remote control, 2" hitch receiver)



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 train & 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 : Synthetic rope, 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 bolt pattern : 152.4 x 114 mm (6" x 4.5")  
 Winch weight (including rope) : DV-6s: 19 kg / 41.9 lb  
 DV-6s carry on: 22.8 kg / 50.3 lb  
 Gross weight : DV-6s: 21.6 kg / 47.6 lb ; DV-6s carry on: 27.4 kg / 60.4 lb  
 Box dimension, (L x D x H) :  
 DV-6s: 505 x 210 x 340 mm (19.9" x 8.3" x 13.4")  
 DV-6s carry on: 515 x 285 x 345 mm (20.3" x 11.2" x 13.6")

**PERFORMANCE DATA :**

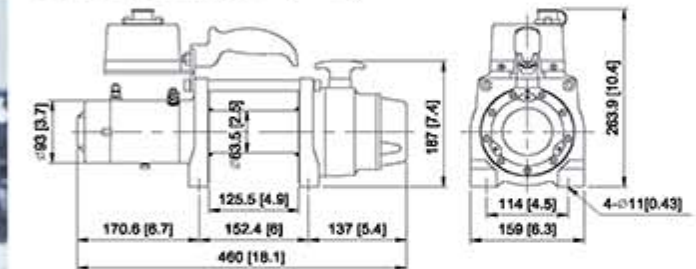
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	2,722 / 6,000	3.5 / 11.3
2 <sup>nd</sup>	2,266 / 4,995	7.7 / 25.2
3 <sup>rd</sup>	1,941 / 4,279	12.6 / 41.5
4 <sup>th</sup>	1,697 / 3,742	18.4 / 60.3
5 <sup>th</sup>	1,508 / 3,325	24.4 / 80

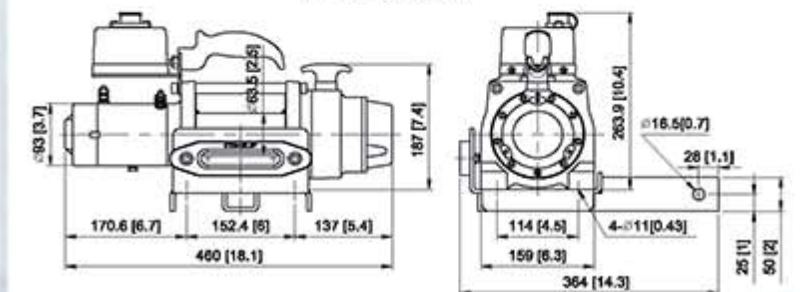
**Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)**

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw, A 12V
No Load	8.1 / 26.5	60
907 / 2,000	5.3 / 17.3	150
1,814 / 4,000	3.1 / 10.3	240
2,722 / 6,000	2.0 / 6.6	300

**DIMENSION mm/in : (DV-6s)**



(DV-6s carry on)





# MadX

**OUR FASTEST PLANETARY GEAR WINCH**  
 When your race motor can't get traction to the ground,  
 You need another high speed motor to pull you back on track.

- ▶ Limited Lifetime Warranty for Mechanical Components.
- ▶ Three (3) Years Warranty for Electrical Components.



## Seal MadX 8.0s

8,000 LB Extreme Racing Winch with 25mpm Line Speed

PN 296065 12V 10" Long Drum (with synthetic rope, hawse fairlead, remote control)



Note : Hawse fairlead does not mount to winch

### SPECIFICATIONS :

- Rated line pull : 3,630 kg (8,000 lb) single line
- Motor : 5,250 w / 7.0 hp, 12V series wound
- Gear train & ratio : 3-stage planetary 67:1
- Clutch (freespooling) : Rotating ring gear
- Brake (outside the drum) : Automatic, full load cone brake
- 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 : Synthetic rope, 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 bolt pattern : 254 x 114 mm (10" x 4.5")
- Winch weight (including rope) : 28 kg / 61.7 lb
- Gross weight : 40.5 kg / 89.1 lb
- Box dimension, (L x D x H) : 712 x 209 x 430 mm (28" x 8.2" x 16.9")

### PERFORMANCE DATA :

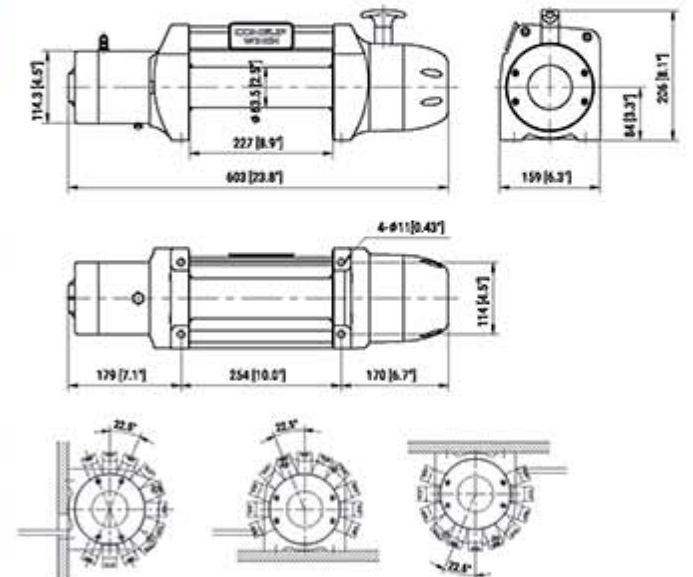
#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	3,630 / 8,000	5.8 / 19.1
2 <sup>nd</sup>	2,924 / 6,446	13.1 / 42.9
3 <sup>rd</sup>	2,449 / 5,399	21.7 / 71.2
4 <sup>th</sup>	2,106 / 4,643	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	25 / 82	45
907 / 2,000	10.8 / 35.4	125
1,814 / 4,000	8.5 / 27.9	249
2,722 / 6,000	4.1 / 13.5	378
3,630 / 8,000	1.0 / 3.3	500

### DIMENSION mm/in :



- ▶ 16 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 22.5° increments.





# BLAZER M2/M3

Fastest retrieval speed up to 73 meter per minute for M3 /70 meter per minute for M2 (base on gear ratio at 28.0:1)

- 1 Powerful triple/twin 8.0 hp 12V series wound motors w/thermal protection switch provides ultimate power and high speed line pull.
- 2 Ratchet brake system located outside the drum greatly improves heat dispersion and is ideal for synthetic rope.
- 3 Personalized laser engraved driver or team nameplate and serial number for traceability.
- 4 Extreme rugged 3 stage spur gear train and upright housing.
- 5 The reinforced gearbox cover features a depiction of the northern Taiwan coastline, a symbol representing the high quality Made in Taiwan engineering and durability.
- 6 Three/Two submersible sealed contactors w/silver-alloy contact pads for proven reliability in extreme conditions and thick copper buss bars are built to handle the high amps and high duty cycles of racing use.
- 7 Dual braking system includes ratchet brake inside the gear box cover and air actuated brakes at each motor.
- 8 Race Team hawse fairlead designed to guide the synthetic rope out from and onto the winch drum.



- 9 Air free-spool control for rapid and easy synthetic rope payout. (Operation pressure: Fitting for M3 with 60 - 120 psi (4.1 ~ 8.3 bar) / M2 with 120 psi (8.3 bar).
- 10 Tough die cast aluminum alloy housings can withstand forces greater than 2 times the winch's rated capacity.

11 Laser engraved Blazer badge.



## Optional

- Three different gear ratio -  
PN 883915 gear ratio kit 28.0 : 1  
PN 883916 gear ratio kit 33.6 : 1  
PN 883917 gear ratio kit 41.5 : 1
- Standard drum 285mm (11.2") /  
PN 883914 Replacing long drum kit 381 mm (15")

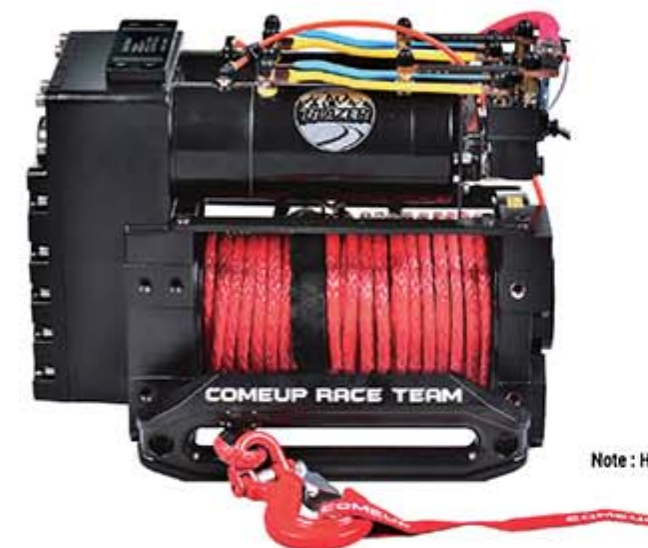


Limited Lifetime Warranty for Mechanical Components.  
One (1) Year Warranty for Electrical Components.

## Blazer M2

8,000 LB Twin Motor Winch with 60mpm Line Speed

- PN 855910 12V (Std. drum / 33.6:1 gear ratio)
- PN 855905 12V (Long drum / 33.6:1 gear ratio)
- PN 855941 12V (Std. drum / 28.0:1 gear ratio)
- PN 855930 12V (Long drum / 28.0:1 gear ratio)
- PN 855923 12V (Std. drum / 41.5:1 gear ratio)
- PN 855917 12V (Long drum / 41.5:1 gear ratio)



Note : Hawse fairlead does not mount to winch



## SPECIFICATIONS :

Rated line pull :

- 33.6:1 gear ratio - 3,630 kg (8,000 lb) single line
- 28.0:1 gear ratio - 2,722 kg (6,000 lb) single line
- 41.5 :1 gear ratio - 4,535 kg (10,000 lb) single line

Line speed :

- 33.6:1 gear ratio - (1<sup>st</sup> layer) : 60 mpm / 197 fpm 110 A at 12V at no load  
(5<sup>th</sup> layer) : 136 mpm / 446 fpm 110 A at 12V at no load
- 28.0:1 gear ratio - (1<sup>st</sup> layer) : 70 mpm / 229.7 fpm 110 A at 12V at no load  
(5<sup>th</sup> layer) : 162 mpm / 531 fpm 110 A at 12V at no load
- 41.5:1 gear ratio - (1<sup>st</sup> layer) : 48 mpm / 157.5 fpm 110 A at 12V at no load  
(5<sup>th</sup> layer) : 105 mpm / 344 fpm 110 A at 12V at no load

Motor : 6,000 w / 8.0 hp, 12V series wound x 2 pcs

Gear train : 3-stage spur gear train

Clutch (freespooling) : Air free-spooling

Brake (outside the drum) : Air brake system plus Ratchet brake

Winch construction : Aluminum die cast housings with steel drum

Drum size : 63.5 x 219 x 285 mm (2.5" x 8.6" x 11.2") - Std. drum  
63.5 x 219 x 381 mm (2.5" x 8.6" x 15") - Long drum

Rope : Synthetic rope, 11 mm x 46 m (7/16" x 151') w/Sling hook

Recommended battery : 650 CCA minimum for winching

Battery lead : 1.8 m (6') 2/0 gauge battery lead

Mounting bolt pattern :

330 x 114.3 mm (13" x 4.5") ; 360 x 114.3 mm (14.2" x 4.5") - Std. drum  
426 x 114.3 mm (16.8" x 4.5") ; 456 x 114.3 mm (18" x 4.5") - Long drum

Air pressure : 120 psi (8.3 bar)

Winch weight : 80 kg / 176.4 lb - Std. drum ; 86 kg / 189.6 lb - Long drum

Gross weight : 118 kg / 260.1 lb - Std. drum ; 128 kg / 282.2 lb - Long drum

Box dimension, (L x D x H) :

720 x 410 x 620 mm (28.3" x 16.1" x 24.4") - Std. drum  
790 x 410 x 620 mm (31.1" x 16.1" x 24.4") - Long drum

## STANDARD ACCESSORIES:

- Synthetic rope 11 mm x 46 m (7/16" x 151') w/ sling hook
- Hawse fairlead
- 1.8 m (6') 2/0 gauge battery lead

## OPTION ACCESSORIES :

- Remote control w/ 5 m (17') cord
- Extra gear ratio kits

## PERFORMANCE DATA :

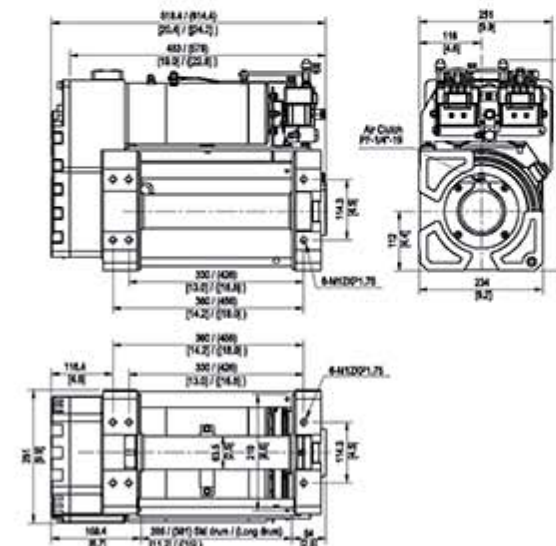
### Line Pull and Rope Capacity

Gear Ratio	28.0:1	33.6:1	41.5:1	Total Rope on the Drum, m / ft
1 <sup>st</sup>	2,722 / 6,000	3,630 / 8,000	4,535 / 10,000	5.8 / 19.0
2 <sup>nd</sup>	2,101 / 4,632	2,802 / 6,177	3,502 / 7,721	13.4 / 44.0
3 <sup>rd</sup>	1,711 / 3,772	2,282 / 5,031	2,852 / 6,288	22.7 / 74.5
4 <sup>th</sup>	1,443 / 3,181	1,925 / 4,244	2,405 / 5,302	33.6 / 110.2
5 <sup>th</sup>	1,248 / 2,751	1,664 / 3,669	2,080 / 4,586	46 / 151

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

Line Pull kg / lb	Line Speed (12V)					
	28.0:1		33.6:1		41.5:1	
	mpm / fpm	Amp. Draw	mpm / fpm	Amp. Draw	mpm / fpm	Amp. Draw
No Load	70 / 229.7	110	60 / 197	110	48 / 157.5	110
910 / 2,000	17.5 / 57.4	414	14.8 / 48.6	350	13.5 / 44.3	414
1,810 / 4,000	9.7 / 31.8	715	8.6 / 28.2	663	8.2 / 26.9	520
2,720 / 6,000	4.8 / 15.7	1,200	5.6 / 18.4	960	6.9 / 22.6	760
3,630 / 8,000	-	-	3.2 / 10.5	1,200	4.6 / 15.1	950
4,535 / 10,000	-	-	-	-	2.8 / 9.2	1,200

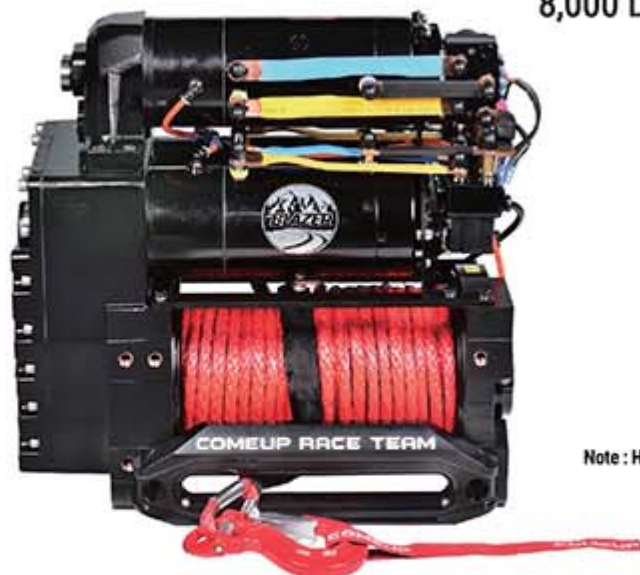
## DIMENSION mm/in :



## Blazer M3

8,000 LB Three Motors Winch with 63mpm Line Speed

- PN 855912 12V (Std. drum / 33.6:1 gear ratio)
- PN 855945 12V (Long drum / 33.6:1 gear ratio)
- PN 855928 12V (Std. drum / 28.0:1 gear ratio)
- PN 855921 12V (Long drum / 28.0:1 gear ratio)
- PN 855933 12V (Std. drum / 41.5:1 gear ratio)
- PN 855935 12V (Long drum / 41.5:1 gear ratio)



Note : Hawse fairlead does not mount to winch



**TAIWAN  
EXCELLENCE  
2021**

### SPECIFICATIONS :

- Rated line pull :**  
 33.6:1 gear ratio - 3,630 kg (8,000 lb) single line  
 28.0:1 gear ratio - 2,722 kg (6,000 lb) single line  
 41.5:1 gear ratio - 4,535 kg (10,000 lb) single line
- Line speed :**  
 33.6:1 gear ratio - (1<sup>st</sup> layer) : 63 mpm / 206.7 fpm 140 A at 12V at no load  
 (5<sup>th</sup> layer) : 145 mpm / 476 fpm 140 A at 12V at no load  
 28.0:1 gear ratio - (1<sup>st</sup> layer) : 73 mpm / 239.5 fpm 140 A at 12V at no load  
 (5<sup>th</sup> layer) : 173 mpm / 568 fpm 140 A at 12V at no load  
 41.5:1 gear ratio - (1<sup>st</sup> layer) : 50 mpm / 164 fpm 140 A at 12V at no load  
 (5<sup>th</sup> layer) : 112 mpm / 367 fpm 140 A at 12V at no load
- Motor :** 6,000 w / 8.0 hp, 12V series wound x 3 pcs  
**Gear train :** 3-stage spur gear train  
**Clutch (freespooling) :** Air free-spooling  
**Brake (outside the drum) :** Air brake system plus Ratchet brake  
**Winch construction :** Aluminum die cast housings with steel drum  
**Drum size :** 63.5 x 219 x 285 mm (2.5" x 8.6" x 11.2") - Std. drum  
 63.5 x 219 x 381 mm (2.5" x 8.6" x 15") - Long drum  
**Rope :** Synthetic rope, 11 mm x 46 m (7/16" x 151') w/Sling hook  
**Recommended battery :** 650 CCA minimum for winching  
**Battery lead :** 1.8 m (6') 2/0 gauge battery lead  
**Mounting bolt pattern :**  
 330 x 114.3 mm (13" x 4.5"); 360 x 114.3 mm (14.2" x 4.5") - Std. drum  
 426 x 114.3 mm (16.8" x 4.5"); 456 x 114.3 mm (18" x 4.5") - Long drum  
**Air clutch pressure :** Fitting for with 60 - 120 psi (4.1 - 8.3 bar)  
**Winch weight :** 95 kg / 209.4 lb - Std. drum ; 101 kg / 222.7 lb - Long drum  
**Gross weight :** 134 kg / 295.4 lb - Std. drum ; 144 kg / 231.7 lb - Long drum  
**Box dimension, (L x D x H) :**  
 720 x 410 x 720 mm (28.3" x 16.1" x 28.3") - Std. drum  
 790 x 410 x 720 mm (31.1" x 16.1" x 28.3") - Long drum

### STANDARD ACCESSORIES :

- Synthetic rope 11 mm x 46 m (7/16" x 151') w/ sling hook
- Hawse fairlead
- 1.8 m (6') 2/0 gauge battery lead

### OPTION ACCESSORIES :

- Remote control w/ 5 m (17') cord
- Extra gear ratio kits

### PERFORMANCE DATA :

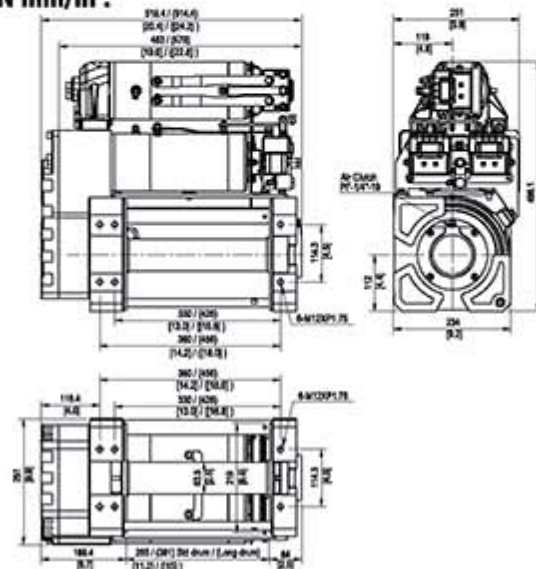
#### Line Pull and Rope Capacity

Gear Ratio	28.0:1			33.6:1			41.5:1			Total Rope on the Drum, m / ft
	Pull by Layer, kg / lb									
1 <sup>st</sup>	2,722 / 6,000	3,630 / 8,000	4,535 / 10,000	5.8 / 19.0						
2 <sup>nd</sup>	2,101 / 4,632	2,802 / 6,177	3,502 / 7,721	13.4 / 44.0						
3 <sup>rd</sup>	1,711 / 3,772	2,282 / 5,031	2,852 / 6,288	22.7 / 74.5						
4 <sup>th</sup>	1,443 / 3,181	1,925 / 4,244	2,405 / 5,302	33.6 / 110.2						
5 <sup>th</sup>	1,248 / 2,751	1,664 / 3,669	2,080 / 4,586	46 / 151						

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

Line Pull kg / lb	Line Speed (12V)					
	28.0:1		33.6:1		41.5:1	
No Load	73 / 239.5	140	63 / 206.7	140	50 / 164	140
910 / 2,000	19.5 / 64	540	18.5 / 60.7	460	17.5 / 57.4	420
1,810 / 4,000	12.8 / 42	715	11.8 / 38.7	690	10.5 / 34.5	640
2,720 / 6,000	6.5 / 21.3	1,200	7.0 / 22.9	960	7.9 / 25.9	860
3,630 / 8,000	-	-	5.0 / 16.4	1,200	5.5 / 18.0	1,050
4,535 / 10,000	-	-	-	-	3.3 / 10.8	1,200

### DIMENSION mm/in :



# 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 Utility Winches provide line pull of 4,500 - 5,000 lb rating with power-out device for rapid wire rope payout. These multi-use units are easy to install and feature high torque, permanent magnet motors to deliver high line pull capacities at a lower amp draw. The dual braking effect of the automatic load holding brake and permanent magnet motor assures safe and reliable operation.

- Power In and Power out.
- High torque permanent magnet motor enables 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 rope payout.
- Automatic load-holding mechanical brake plus motor dynamic brake ensure holding the load without slippage.
- Compact and light weight allows a wide range of application on trailers and boats.
- With circuit breakers to prevent motor overheating.
- Integrated solenoid pack for ease of installation and better protection of wiring.
- Standard Compliance:  
 CE Machinery Directive 2006/42/EC  
 CE Electromagnetic Compatibility Directive 2014/30/EU



**UW-5000si**  
5,000 LB Utility Duty Winch

PN 645010 12V (with wireless remote control, synthetic rope, hawse fairlead)



Convenient storage pocket for Transmitter



**TAIWAN  
EXCELLENCE  
2019**

**SPECIFICATIONS :**

Rated line pull : 2,268 kg (5,000 lb) single line  
 Motor : 1,300 w / 1.7 hp, 12V permanent magnet  
 Gear train & ratio : 3-stage planetary 170:1  
 Clutch (freespooling) : Sliding ramping  
 Brake : Mechanical spring applied brake plus permanent magnet motor dynamic brakes  
 Drum size : 54 x 83 mm (2.1" x 3.3")  
 Control : Wireless remote control and on board rocker switch control  
 Rope : Synthetic rope , 6.3 mm x 15.2 m (1/4" x 50')  
 Recommended battery : 650 CCA minimum for winching  
 Battery lead : 1.5 m (5') 6 gauge battery lead  
 Mounting bolt pattern : 72 x 93 mm (2.8" x 3.7")  
 Winch weight (including rope) : 12.7 kg / 28 lb  
 Gross weight : 16.7 kg / 36.8 lb  
 Box dimension, (L x D x H) : 462 x 271 x 185 mm (18.2" x 10.7" x 7.3")

**Intelligence Dashboard (IDB) :**



**Vehicle Battery Life**  
 The Intelligence Dashboard (IDB) displays the battery condition of your vehicle.



**Cable IN/OUT Rocker Switch**  
 Directly control cable IN/OUT on winch panel.



**Cutout Switch**  
 To activate or deactivate the winch and also deactivate the wireless receiver to prevent parasitic draw.



**Wireless Signal Strength**  
 The solid green LED on the wireless transmitter indicates good signal strength, but a flashing red LED indicates a weak signal.



**Wireless Signal Icon**  
 The Intelligence Dashboard (IDB) includes a blue wireless signal icon that is continuously illuminated to confirm the wireless remote is paired with the winch.

**PERFORMANCE DATA :**

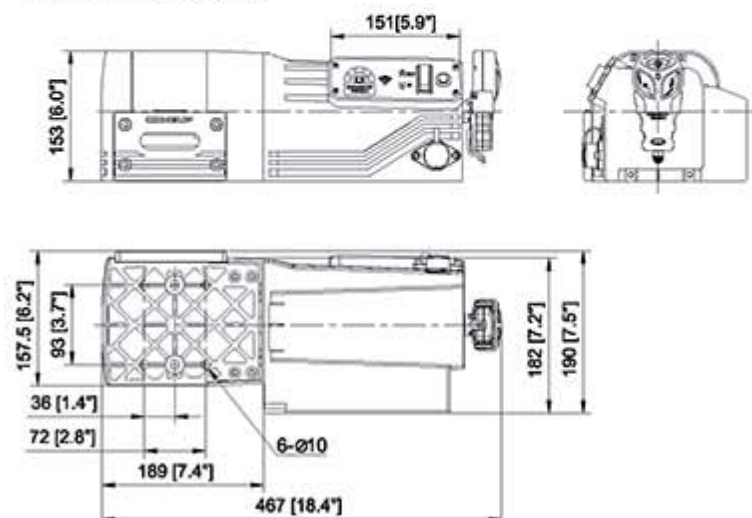
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	2,268 / 5,000	2.4 / 7.9
2 <sup>nd</sup>	1,876 / 4,136	5.3 / 17.4
3 <sup>rd</sup>	1,600 / 3,527	8.7 / 28.6
4 <sup>th</sup>	1,394 / 3,073	12.6 / 41.4
5 <sup>th</sup>	1,235 / 2,722	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	5.5 / 18.0	25
454 / 1,000	5 / 16.4	75
907 / 2,000	3.6 / 11.8	140
1,361 / 3,000	2.5 / 8.2	210
1,814 / 4,000	1.4 / 4.6	310
2,268 / 5,000	1.0 / 3.3	360

**DIMENSION mm/in :**



**DV-4500i**

4,500 LB Utility Duty Winch

PN 641656 12V | PN 642037 24V

**SPECIFICATIONS :**

Rated line pull : 2,041 kg (4,500 lb) single line  
 Motor : 1,200 w / 1.6 hp, 12V / 24V permanent magnet  
 Gear train & ratio : 3-stage planetary 170:1  
 Clutch (freespooling) : Sliding ramping  
 Brake : Mechanical spring applied and permanent magnet motor dynamic brakes together  
 Drum size : 54 x 83 mm (2.1" x 3.3")  
 Control : Handheld pendant switch remote control  
 Rope : Galvanized aircraft A7 x 19, 6.3 mm x 15.2 m (1/4" x 50')  
 Recommended battery : 650 CCA minimum for winching  
 Battery lead : 12V : 1.5 m (5') 6 gauge battery lead  
 24V : 1.5 m (5') 8 gauge battery lead  
 Mounting bolt pattern : 86 x 93 mm (3.4" x 3.7")  
 Winch weight (including rope) : 14.2 kg / 31.2 lb  
 Gross weight : 18.2 kg / 40 lb  
 Box dimension, (L x D x H) : 470 x 280 x 200 mm (18.5" x 11" x 7.9")



**PERFORMANCE DATA :**

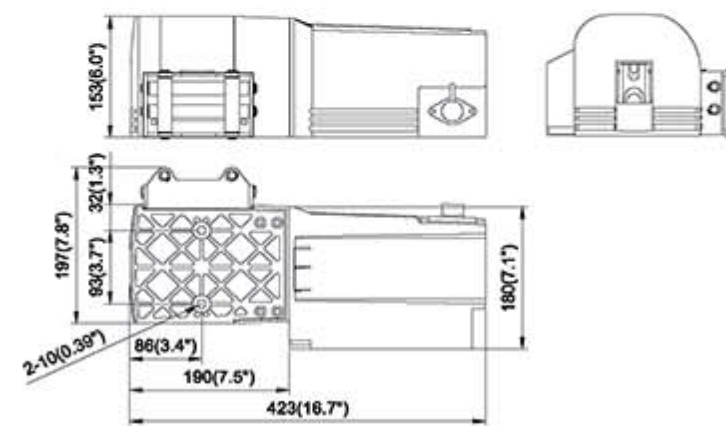
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	2,041 / 4,500	2.4 / 7.9
2 <sup>nd</sup>	1,688 / 3,722	5.3 / 17.4
3 <sup>rd</sup>	1,440 / 3,174	8.7 / 28.6
4 <sup>th</sup>	1,255 / 2,766	12.6 / 41.4
5 <sup>th</sup>	1,112 / 2,451	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	Amp. Draw, A 24V
No Load	6.5 / 21.3	25	10
454 / 1,000	5.0 / 16.4	110	55
907 / 2,000	3.6 / 11.8	210	95
1,134 / 2,500	3.2 / 10.5	240	110
1,361 / 3,000	2.5 / 8.2	270	120
1,588 / 3,500	1.8 / 5.9	290	140
1,814 / 4,000	1.4 / 4.6	310	155
2,041 / 4,500	0.4 / 1.3	330	170

**DIMENSION mm/in :**

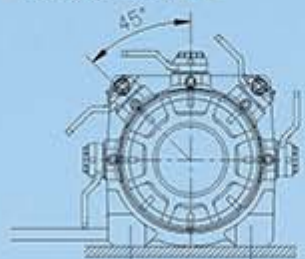


# Entry-Level Electric Winch

## GIO Series

8,000 - 10,000 – 12,000 lb pulling capacity

- 12V DC reliable recovery winch rated at 8,000 -10,000 – 12,000 lb. pulling exceeds your expectations.
- Series-wound motor for power and fast line speed.
- Compact control pack fixed above motor for quick installation. It is also removable for various mounting options.
- Exclusive brake design with No. 37C device for better winching control.
- Durable, smooth, and reliable three-stage planetary gear train.
- Fine powder coated finish provides better weather resistance.
- Waterproof rated IP 68



8 equally positioned pin holes ensure seamless clutch transmission and make it easily rotate by 45° increments. (GIO Series).

## GIO 120/120s

12,000 LB Electric Winch

GIO 120 PN 853832 12V (with wire rope, roller fairlead, remote control)

GIO 120s PN 853860 12V (with synthetic rope, hawse fairlead, remote control)



### SPECIFICATIONS :

Rated line pull : 5,443 kg (12,000 lb) single line

Motor : 4,847 w / 6.5 hp 12V series wound

Gear train & ratio : 3-stage planetary, 234.6:1

Clutch (freespooling) : Rotating ring gear

Brake (inside the drum) : Exclusive brake design with No. 37C device

Winch construction : Aluminum die cast housings with steel drum

Drum size : 63.5 mm x 222.5 mm (2.5" x 8.8")

Control : Waterproof remote w/5 m (17') cord

Rope : GIO 120: Galvanized aircraft A7 x 19, 10.3 mm x 25.5 m (13/32" x 83.7')

GIO 120s: Synthetic rope, 11 mm x 25.5 m (7/16" x 83.7')

Recommended battery : 650 CCA minimum for winching

Battery lead : 1.8 m (6') 2 gauge battery lead

Mounting bolt pattern : 254 x 114 mm (10" x 4.5")

Winch weight (including rope) : GIO 120: 37.7 kg / 83.1 lb

GIO 120s: 35.2 kg / 77.6 lb

Gross weight : GIO 120: 52.7 kg / 116 lb

GIO 120s: 47.2 kg / 104.1 lb

Box dimension, (L x D x H) : 650 x 195 x 415 mm (25.6" x 7.7" x 16.3")

### PERFORMANCE DATA :

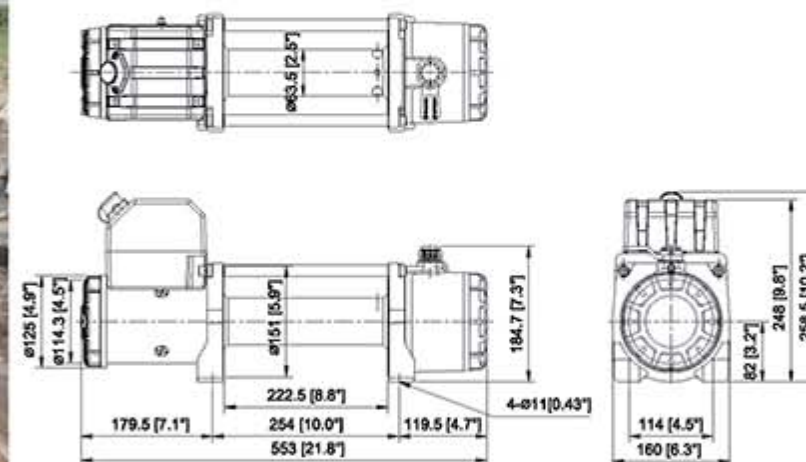
#### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		GIO 120	GIO 120s
1 <sup>st</sup>	5,443 / 12,000	4.9 / 16.0	4.6 / 15
2 <sup>nd</sup>	4,188 / 9,233	11.1 / 36.4	10.5 / 34.4
3 <sup>rd</sup>	3,404 / 7,505	18.7 / 61.4	17.8 / 58.3
4 <sup>th</sup>	2,867 / 6,321	25.5 / 83.7	25.5 / 83.7

#### 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	7.8 / 25.6	45
1,361 / 3,000	4.5 / 14.6	110
2,722 / 6,000	4.0 / 13	165
4,082 / 9,000	3.5 / 11.4	220
5,443 / 12,000	2.7 / 8.9	340

### DIMENSION mm/in :



**COMEUP  
LIMITED  
LIFETIME  
WARRANTY**

Limited Lifetime Warranty for Mechanical Components.

One (1) Year Warranty for Electrical Components.

**GIO 100/100s**  
10,000 LB Electric Winch

GIO 100 PN 853841 12V (with wire rope, roller fairlead, remote control)  
GIO 100s PN 853839 12V (with synthetic rope, hawse fairlead, remote control)



**SPECIFICATIONS :**

Rated line pull : 4,535 kg (10,000 lb) single line  
Motor : 4,101 w / 5.5 hp 12V series wound  
Gear train & ratio : 3-stage planetary, 234.6:1  
Clutch (freespooling) : Rotating ring gear  
Brake (outside the drum) : Exclusive brake design with No. 37C device  
Winch construction : Aluminum die cast housings with steel drum  
Drum size : 63.5 mm x 222.5 mm (2.5" x 8.8")  
Control : Waterproof remote w/5 m (17') cord  
Rope : GIO 100: Galvanized aircraft A7 x 19, 9.5 mm x 26 m (3/8" x 85.3')  
GIO 100s: Synthetic rope, 10 mm x 26 m (3/8" x 85.3')  
Recommended battery : 650 CCA minimum for winching  
Battery lead : 1.8 m (6') 2 gauge battery lead  
Mounting bolt pattern : 254 x 114 mm (10" x 4.5")  
Winch weight (including rope) : GIO 100: 35.6 kg / 78.5 lb  
GIO 100s: 33.7 kg / 74.3 lb  
Gross weight : GIO 100: 50.6 kg / 111.5 lb  
GIO 100s: 45.2 kg / 99.6 lb  
Box dimension, (L x D x H) : 650 x 195 x 415 mm (25.6" x 7.7" x 16.3")

**PERFORMANCE DATA :**

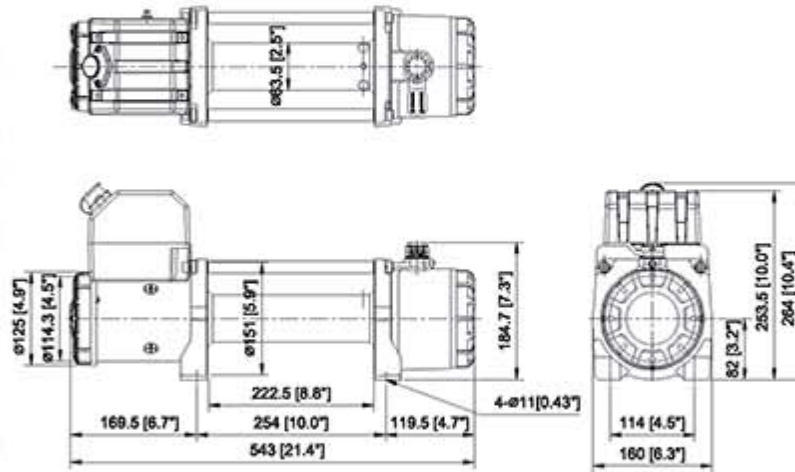
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		GIO 100	GIO 100s
1 <sup>st</sup>	4,535 / 10,000	5.3 / 17.4	5.0 / 16.5
2 <sup>nd</sup>	3,598 / 7,932	11.9 / 39	11.4 / 37.4
3 <sup>rd</sup>	2,982 / 6,574	19.9 / 65.3	19.2 / 62.8
4 <sup>th</sup>	2,547 / 5,615	26 / 85.3	26 / 85.3

**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	8.3 / 27.2	45
1,134 / 2,500	4.0 / 13.1	120
2,268 / 5,000	3.3 / 10.9	200
3,402 / 7,500	3.1 / 10.3	260
4,535 / 10,000	2.9 / 9.5	310

**DIMENSION mm/in :**



**GIO 80/80s**  
8,000 LB Electric Winch

GIO 80 PN 853825 12V (with wire rope, roller fairlead, remote control)  
GIO 80s PN 853818 12V (with synthetic rope, hawse fairlead, remote control)



**SPECIFICATIONS :**

Rated line pull : 3,630 kg (8,000 lb) single line  
Motor : 3,356 w / 4.5 hp 12V series wound  
Gear train & ratio : 3-stage planetary, 234.6:1  
Clutch (freespooling) : Rotating ring gear  
Brake (inside the drum) : Exclusive brake design with No. 37C device  
Winch construction : Aluminum die cast housings with steel drum  
Drum size : 63.5 mm x 222.5 mm (2.5" x 8.8")  
Control : Waterproof remote w/5 m (17') cord  
Rope : GIO 80: Galvanized aircraft A7 x 19, 8.3 mm x 29 m (21/64" x 95')  
GIO 80s: Synthetic rope, 8 mm x 30.5 m (5/16" x 100')  
Recommended battery : 650 CCA minimum for winching  
Battery lead : 1.8 m (6') 2 gauge battery lead  
Mounting bolt pattern : 254 x 114 mm (10" x 4.5")  
Winch weight (including rope) : GIO 80: 32.9 kg / 72.5 lb  
GIO 80s: 31 kg / 68.3 lb  
Gross weight : GIO 80: 48.0 kg / 105.8 lb  
GIO 80s: 43.3 kg / 95.5 lb  
Box dimension, (L x D x H) : 650 x 195 x 415 mm (25.6" x 7.7" x 16.3")

**PERFORMANCE DATA :**

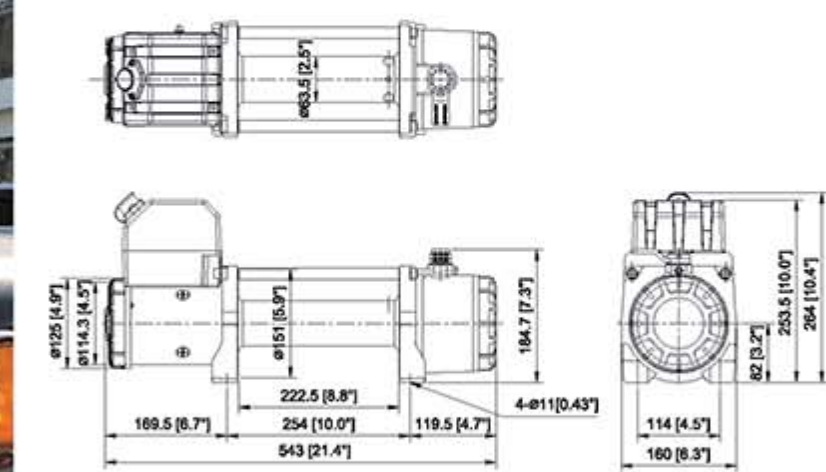
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
		GIO 80	GIO 80s
1 <sup>st</sup>	3,630 / 8,000	5.9 / 19.5	6.1 / 20.0
2 <sup>nd</sup>	2,948 / 6,500	13.2 / 43.4	13.6 / 44.6
3 <sup>rd</sup>	2,482 / 5,472	21.7 / 71.9	22.5 / 73.8
4 <sup>th</sup>	2,143 / 4,725	29 / 95	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	8.3 / 27.2	45
907 / 2,000	4.1 / 13.6	110
1,814 / 4,000	3.3 / 10.7	165
2,722 / 6,000	3.0 / 9.8	220
3,630 / 8,000	1.4 / 4.6	270

**DIMENSION mm/in :**



**Automotive Winch Accessories**

**Wireless Remote Control**

PN 883872 RF-24DP-C for automotive winches with a 6-pin plug  
PN 883870 RF-24DP-A for automotive winches with a 3-pin plug

COMEUP wireless remote control communicates by a 2.4GHz digital transmission frequency. It delivers a reliable connection covering up to a 27m (90') radius without interference. Users will experience virtually no interference and no time-lag in operation even when multiple devices are used in the same working area. Two-way communication provides signal strength feedback and it requires no manual configuration. It's easy to install. Simple plug-and-play installation, the transmitter links up in seconds and stays linked automatically. Each pairing transmitter links up and stays linked automatically. You never have to worry about anyone having the same frequency.

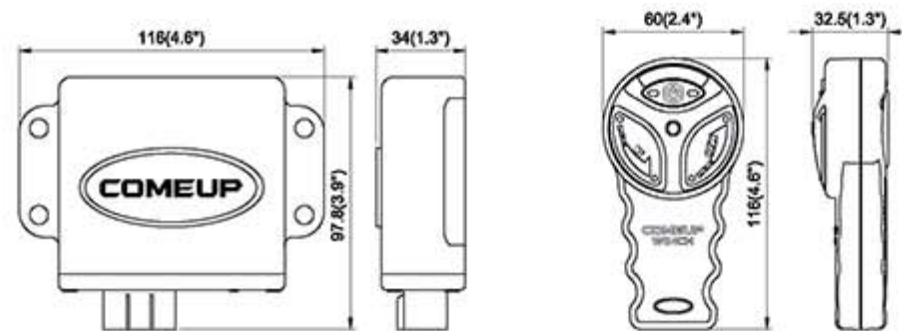
- Works with any 12 or 24 volt contact-switched automotive winches.
- 2.4 GHz wireless technology works within 27m (90') radius and the anti-interference function lets you move around an obstacle for winching.
- Stylish and ergonomic design fits comfortably with your hand.
- Power is switched on after a 5-second continuous press for safety.
- Power is cut after 5-minutes of inactivity for safety and conserving battery life.
- The transmitter can be self-coded, simplifying installation and replacement.
- Meets international standards of CE Electromagnetic Compatibility Directive 2014/30/EU.
- 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 :**



**Medium Duty Kit PN 883436**

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') tow strap rated to 9,800 kg / 21,600 lb, PN 881090
- Bow shackle, 33 mm (3/4") pin diameter, PN 883440
- Gloves, PN 883437
- Bag, PN 883439



**Heavy Duty Kit PN 883438**

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') tow strap rated to 9,800 kg / 21,600 lb, PN 881090
- Bow shackle, 33 mm (3/4") pin diameter, PN 883440
- 3 m of 8 mm (10' of 5/16") grade 70 choker chain with hooks, PN 881096
- Gloves, PN 883437
- Bag, PN 883439



**Automotive Winch Accessories**

**DC Solenoid**

PN 881077 (12V) / PN 881078 (24V) for 4500i

**Sealed Contactor**

PN 881355 (12V) / PN 881356 (24V)  
400A, for DV-9/9s/9i/9si/12 light/12s light/12/15/18, Seal Gen2 9.5/9.5s/9.5rs/9.5i/9.5si/9.5rsi/12.5/12.5s/12.5rs/16.5/16.5s/16.5rs/20.0/20.0s/20.0rs, Seal Slim 9.5rs/12.5rs, Seal MadX 8.0s, Walrus 18.0/22.0  
PN 881357 (12V) 250A, for DV-6/6s/6s carry on  
PN 883402 (12V) DES-S012 500A for Blazer M2/M3 and applicable for other brands of competition winches  
PN 883422 (12V) Contactor Pack (Including DES-2012 250A w/lead) for Utility Winch 5000si  
PN 883782 (12V) CES-4012VL-A 400A for GIO series

**Remote Control**

PN 880295 for DV-4500i  
PN 880025 for DV-6/6s/6s carry on, GIO Series  
PN 880126 for Seal Gen2 Series, Seal Slim 9.5rs/12.5rs, DV-9/9s/9i/9si/12 light/12s light/12/15/18, Seal MadX 8.0s (comes with protective thermal sensor LED)  
PN 881671 for Walrus 18.0/22.0 (comes with protective thermal sensor LED & military quick connector)

**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 Gen2 9.5/9.5s/9.5rs/9.5i/9.5si/9.5rsi, Seal Slim 9.5rs, Seal MadX 8.0s, Blazer M2/M3, GIO 80/80s/100/100s  
PN 881080 Max. load 5,000 kg / 11,000 lb for DV-4500i, Utility Winch 5000si  
PN 881082 Max. load 13,610 kg / 30,000 lb for Seal Gen2 12.5/12.5s/12.5rs, Seal Slim 12.5rs, DV-12/15, GIO 120/120s  
PN 883866 Max. load 22,680 kg / 50,000 lb for DV-18, Seal Gen2 16.5/16.5s/16.5rs/20.0/20.0s/20.0rs, Walrus 18.0/22.0

**Mounting Channel**

PN 881083 Front mounting for DV-6 Long drum, DV-9/9s/9i/9si, Seal Gen2 9.5/9.5s/9.5rs/9.5i/9.5si/9.5rsi  
PN 881085 Front mounting channel for DV-12/15  
PN 882264 2" hitch receiver for DV-6s carry on  
PN 884026 U-Type bracket for Detachable Control Box

**Quick Connector**

PN 881076 175A



**Rope Stopper**

PN 883399 for 10/11 mm diameter synthetic rope to protect the fairlead

**Synthetic Rope**

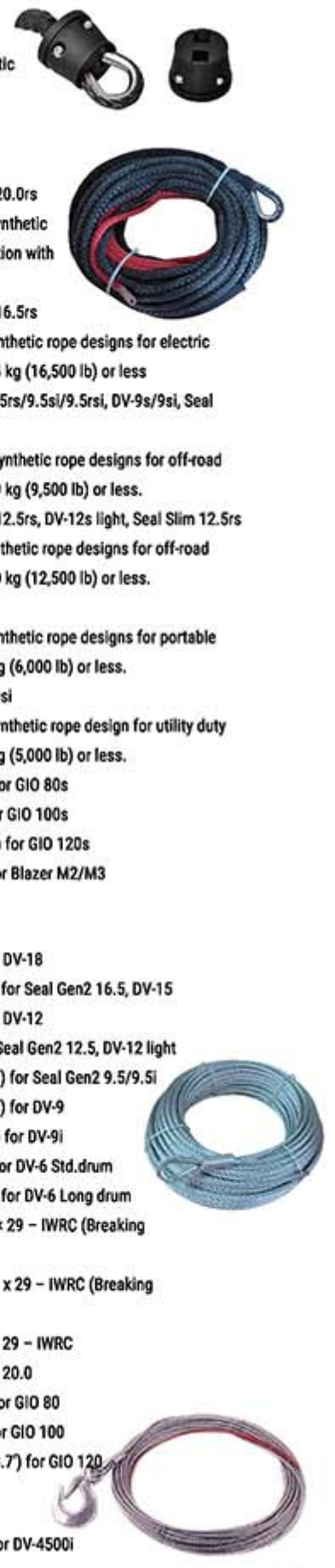
PN 883676 w/o hook for Seal Gen2 20.0s/20.0rs  
• 16.7m (55') of 14 mm (9/16") diameter synthetic rope designs for electric winches application with line pull of 9,072 kg (20,000 lb) or less  
PN 883325 w/o hook for Seal Gen2 16.5s/16.5rs  
• 25 m (82') of 12.7 mm (1/2") diameter synthetic rope designs for electric winches application with line pull of 7,484 kg (16,500 lb) or less  
PN 883248 w/o hook for Seal Gen2 9.5s/9.5rs/9.5si/9.5rsi, DV-9s/9si, Seal MadX 8.0s, Seal Slim 9.5rs  
• 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 883285 w/o hook for Seal Gen2 12.5s/12.5rs, DV-12s light, Seal Slim 12.5rs  
• 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 883274 w/o hook for DV-6s/6s carry on  
• 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.  
PN 883413 w/o hook for Utility Winch 5000si  
• 15.2 m (50') of 6.3 mm (1/4") diameter synthetic rope design for utility duty winch application with line pull of 2,268 kg (5,000 lb) or less.  
PN 883271 8 mm x 30.5 m (5/16" x 100') for GIO 80s  
PN 883272 10 mm x 26 m (3/8" x 85.3') for GIO 100s  
PN 883273 11 mm x 25.5 m (7/16" x 83.7') for GIO 120s  
PN 883240 11 mm x 46 m (7/16" x 151') for Blazer M2/M3

**Wire Rope**

PN 881929 12.7 mm x 25 m (1/2" x 82') for DV-18  
PN 882027 11.1 mm x 27.4 m (7/16" x 90') for Seal Gen2 16.5, DV-15  
PN 882026 9.5 mm x 38 m (3/8" x 125') for DV-12  
PN 881994 9.5 mm x 25 m (3/8" x 82') for Seal Gen2 12.5, DV-12 light  
PN 881988 8.7 mm x 30.5 m (11/32" x 100') for Seal Gen2 9.5/9.5i  
PN 881986 8.3 mm x 30.5 m (21/64" x 100') for DV-9  
PN 881987 8.3 mm x 30.5 m (21/64" x 10') for DV-9i  
PN 882367 7.1 mm x 24.4 m (9/32" x 80') for DV-6 Std. drum  
PN 882414 7.1 mm x 30.5 m (9/32" x 100') for DV-6 Long drum  
PN 883082 12.7 mm x 25 m (1/2" x 82'), 6 x 29 - IWRC (Breaking strength 126.4 kN) for Walrus 22.0  
PN 883081 11.1 mm x 27 m (7/16" x 89'), 6 x 29 - IWRC (Breaking strength 100.7 kN) for Walrus 18.0  
PN 883675 12.7 mm x 18 m (1/2" x 59'), 6 x 29 - IWRC (Breaking strength 126.4 kN) for Seal Gen2 20.0  
PN 883211 8.3 mm x 29 m (21/64" x 95') for GIO 80  
PN 883212 9.5 mm x 26 m (3/8" x 85.3') for GIO 100  
PN 883213 10.3 mm x 25.5 m (13/32" x 83.7') for GIO 120

**Wire Rope with Safety Hook**

PN 880305 6.3 mm x 15.2 m (1/4" x 50') for DV-4500i



**Automotive Winch Accessories**

**Hook**

- PN 882477** sling hook for Seal Gen2 9.5s/9.5rs/9.5si/9.5sl/12.5s/12.5rs/16.5s/16.5rs, DV-9s/9sl/12s light, Seal MadX 8.0s, Blazer M2/M3, Seal Slim 9.5rs/12.5rs, Blazer M2/M3
- PN 881996** 1/2" clevis hook for DV-12/15/18, Seal Gen2 12.5/16.5/20.0, GIO 100s/120/120s
- PN 881995** 3/8" clevis hook for Seal Gen2 9.5/9.5i, DV-6/6s/6s carry on/9/9i, GIO 100
- PN 881997** 5/16" clevis hook for Utility Winch 5000si, GIO 80/80s
- PN 883677** sling hook for Seal Gen2 20.0s/20.0rs
- PN 883009** 1/2" clevis hook for Walrus 18.0/22.0



**Bow Shackles**

- PN 883440** 33 mm (3/4") pin diameter



**Detachable Control Box**

- PN 881164** (12V) for DV-9/9s/12 light/12s light/12/15/18, Seal Gen2 9.5/9.5s/12.5/12.5s/16.5/16.5s/20.0/20.0s
- PN 881165** (24V) for DV-9/9s/12 light/12s light/12/15/18
- PN 882780** (12V) for Seal Gen2 9.5rs/12.5rs/16.5rs/20.0rs, w/built-in wireless receiver
- PN 882242** (12V) with handle for DV-6s carry on
- PN 882265** (12V) with handle for DV-6 Std. drum, DV-6s
- PN 882398** (12V) for DV-6 Long drum
- PN 883070** (12V) for Seal MadX 8.0s
- PN 883579** (12V) for Seal Slim 9.5rs/12.5rs w/built-in wireless receiver & Cutout Switch
- PN 883637** (12V) for GIO 80/80s/100/100s
- PN 883638** (12V) for GIO 120/120s



**Air Clutch**

- PN 883036** for Seal Slim 9.5rs/12.5rs, Seal MadX 8.0s, Seal Gen2 9.5/9.5s/9.5rs/9.5sl/9.5si/9.5sl/12.5/12.5s/12.5rs



**Clutch Lever Kit**

- PN 883236** for Seal Gen2 9.5/9.5s/9.5rs/9.5sl/9.5si/9.5sl/12.5/12.5s/12.5rs, Seal Slim 9.5rs/12.5rs
- PN 883239** for Seal Gen2 16.5/16.5s/16.5rs/20.0/20.0s/20.0rs, Walrus 18.0/22.0



**Cable Tensioner**

- PN 881087** 204 mm for DV-12/15
- PN 882038** 184 mm for DV-18
- PN 883091** 254 mm for Walrus 22.0
- PN 883090** 204 mm for Walrus 18.0



**Battery Isolation Switch**

- PN 881097** 2 Position Off-On 12V 500 Amp for Seal Gen2/Seal Slim/DV Series Winch



**Bridge Control Box**

- PN 881160** (12V) / **PN 881161** (24V) for DV-9i /9si
- PN 882681** (12V) for Seal Gen2 9.5i/9.5si
- PN 882685** (12V) for Seal Gen2 9.5rsi w/built-in wireless receiver



**Roller Fairlead**

- PN 880289** 63 mm throat for DV-4500i
- PN 880066** 179 mm throat for DV-12/15/18, Seal Gen2 16.5/20.0
- 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 Gen2 9.5/9.5i/12.5
- PN 882990** 179 mm throat for Walrus 18.0
- PN 883088** 229 mm throat for Walrus 22.0
- PN 883222** 203 mm throat for GIO 80/100/120



**Hawse Fairlead**

- PN 883410** 184 mm throat for Seal Gen2 9.5s/9.5rs/9.5si/9.5sl/12.5s/12.5rs/16.5s/16.5rs /20.0s/20.0rs, DV-9s/9sl/12s light, Seal Slim 9.5rs/12.5rs
- PN 882152** 112 mm throat for DV-6s/6s carry on
- PN 883187** 275(W) x 25(H) mm throat for Blazer M2/M3
- PN 883789** 371(W) x 25(H) mm throat for Blazer M2/M3 Long drum
- PN 883411** 69 mm throat for Utility Winch 5000si
- PN 883622** 183 mm throat for GIO 80s/100s/120s



**Elite Hawse Fairlead**

- PN 883714** 184 mm throat throat for Seal MadX 8.0s LD (10")



**Race Team Hawse Fairlead**

- PN 883042** 82 mm throat for short drum winch with 6" mounting bolt pattern
- PN 883043** 133 mm throat for medium drum winch with 8" mounting bolt pattern
- PN 883067** 184 mm throat for long drum winch with 10" mounting bolt pattern



**Tow Strap**

- Use a tow strap to pull another vehicle or as a winch extension.
- 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



**Automotive Winch Accessories**

**Walrus/Seal Gen2/Seal Slim/MadX/Blazer**

Model Number	Rated line pull lb	Walrus						Seal Gen2						Seal Slim		MadX 8.0s		Blazer						
		22.0	18.0	20.0	20.0s	20.0rs	16.5	16.5s	16.5rs	12.5	12.5s	12.5rs	9.5	9.5s	9.5rs	9.5i	9.5sl	9.5sl	12.5rs	9.5rs	8,000	M2	M3	
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	⊙	⊙	Built-in	⊙	⊙	Built-in	Built-in	Built-in	⊙	⊙	⊙	⊙
Rope stopper		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clutch lever kit		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Air clutch		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**DV/Utility Duty Winch/ GIO**

Model Number	Rated line pull lb	DV-										Utility Winch 5000sl		DV-4500i		GIO								
		18	15	12	12 light	12s light	9	9s	9i	9sl	6	6s	6s carry on	5,000	4,500	8,000	10,000	120	120s					
Remote control		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Control box	12V	●	●	●	●	●	●	●	●	●	●	●	●	Built-in	Built-in	●	●	●	●	●	●	●	●	●
	24V	●	●	●	●	●	●	●	●	●	●	●	-	-	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		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	Built-in	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Rope stopper		-	-	-	-	⊙	-	⊙	-	⊙	-	⊙	-	-	-	-	-	-	-	-	-	-	-	-

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

# POWERSPORTS WINCH



## Cub Series

2,000 - 3,000 - 4,000 lb pulling capacity

- 1 High efficiency, low amp. draw and sealed permanent magnet motor
- 2 Mechanical spring applied and permanent motor dynamic brake together
- 3 Full metal 3-stage planetary gear train for greater pulling force
- 4 Cam activated clutch deice for rapid rope payout
- 5 Submersible sealed contactor handles high amps and allows higher duty cycle

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/EC  
CE Electromagnetic Compatibility Directive 2014/30/EU



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

COMEUP  
LIMITED  
LIFETIME  
WARRANTY

## Cub 4s carry on

4,000 LB Powersports Portable Winch

PN 123930 12V (with wire rope, roller fairlead, remote control, 2" hitch receiver)



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 train & ratio : 3-stage planetary 191:1  
Clutch (freespooling) : Sliding pin and ring gear  
Brake : Mechanical spring applied and permanent magnet motor dynamic brakes together  
Winch construction : Aluminum die cast housings and drum  
Drum size : 55 x 119 mm (2.2" x 4.7")  
Control : Remote control w/3 m cord  
Rope : Synthetic rope, 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 bolt 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, (L x D x H) : 410 x 200 x 345 mm (16.1" x 7.9" x 13.6")

### PERFORMANCE DATA :

#### Line Pull and Rope Capacity

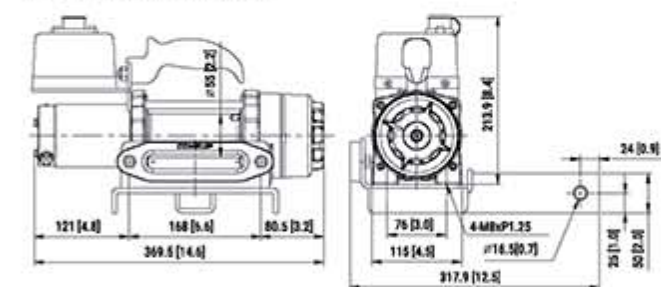
Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	1,814 / 4,000	4.0 / 13.2
2 <sup>nd</sup>	1,535 / 3,385	8.8 / 28.8
3 <sup>rd</sup>	1,331 / 2,933	14.2 / 46.7
4 <sup>th</sup>	1,174 / 2,588	15.2 / 50

#### 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



### DIMENSION mm/in :



#### Standard Accessories

- 1 Synthetic rope 5.5 mm x 15.2 m, PN 881993
- 2 Clevis hook, PN 881997
- 3 Control box w/handle, PN 882239
- 4 Remote control w/3 m cord, PN 881305
- 5 Hawse fairlead, PN 881072
- 6 2" hitch receiver, PN 882241
- 7 Base plate bracket, PN 880269
- 8 Quick Connector wiring kit, PN 882252
- 9 Mounting hardware, PN 882369



### Cub 4/4s

#### 4,000 LB Powersports Winch

Cub 4 PN 123920 12V (with wire rope, roller fairlead)  
Cub 4s PN 129410 12V (with synthetic rope, hawse fairlead)



Note: Roller/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 train & ratio :** 3-stage planetary 191:1  
**Clutch (freespooling) :** Sliding pin and ring gear  
**Brake :** Mechanical spring applied and permanent magnet motor dynamic brakes together  
**Winch construction :** Aluminum die cast housings and drum  
**Drum size :** 55 x 119 mm (2.2" x 4.7")  
**Control :** Handlebar rocker switch  
**Rope :** Cub 4 : Galvanized aircraft A7 x 19, 5.5 mm x 15.2 m (7/32" x 50')  
Cub 4s : Synthetic rope, 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 bolt 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, (L x D x H) :** 380 x 362 x 144 mm (15" x 14.3" x 5.7")

#### PERFORMANCE DATA :

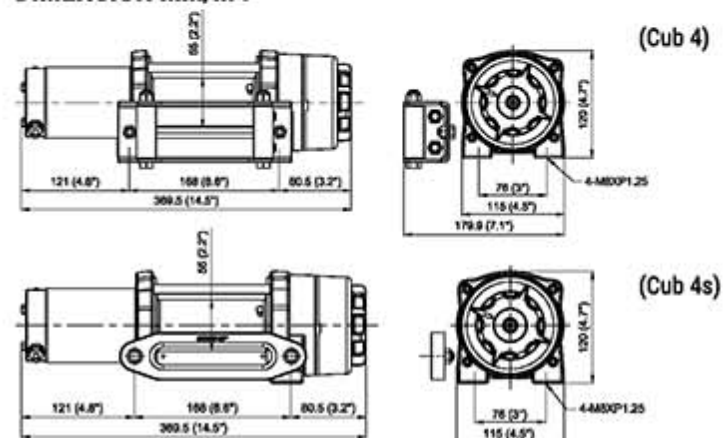
##### Line Pull and Rope Capacity

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
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 3/3s

#### 3,000 LB Powersports Winch

Cub 3 PN 123561 12V (with wire rope, roller fairlead)  
Cub 3s PN 129300 12V (with synthetic rope, hawse fairlead)



Note: Roller/Hawse fairlead does not mount to winch

#### SPECIFICATIONS :

**Rated line pull :** 1,361 kg (3,000 lb) single line  
**Motor :** 800 w / 1.0 hp, 12V permanent magnet  
**Gear train & ratio :** 3-stage planetary 138.5:1  
**Clutch (freespooling) :** Sliding pin and ring gear  
**Brake :** Mechanical spring applied and permanent magnet motor dynamic brakes together  
**Winch construction :** Aluminum die cast housings and drum  
**Drum size :** 55 x 75 mm (2.2" x 3")  
**Control :** Handlebar rocker switch  
**Rope :** Cub 3 : Galvanized aircraft A7 x 19, 4.8 mm x 15.2 m (3/16" x 50')  
Cub 3s : Synthetic rope, 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 bolt 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, (L x D x H) :** 349 x 331 x 144 mm (13.7" x 13" x 5.7")

#### PERFORMANCE DATA :

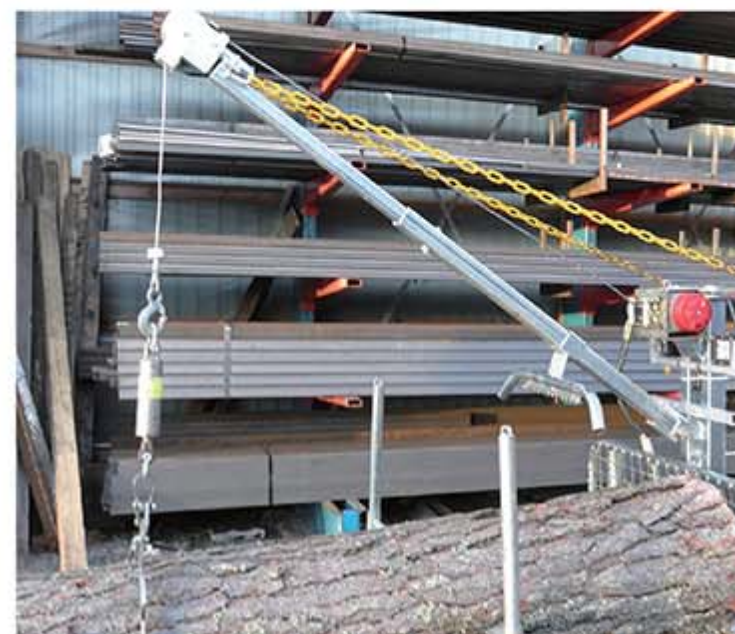
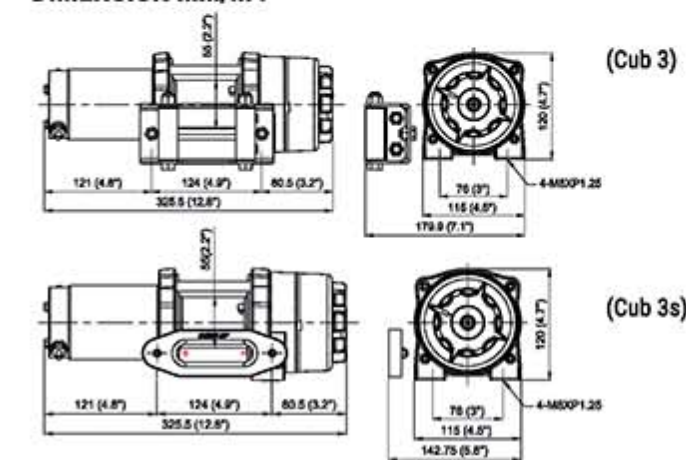
##### Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	1,361 / 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 2/2s**

**2,000 LB Powersports Winch**

Cub 2 PN 122012 12V (with wire rope, roller fairlead)  
Cub 2s PN 122112 12V (with synthetic rope, hawse fairlead)



Note: Roller/Hawse fairlead does not mount to winch

**SPECIFICATIONS :**

**Rated line pull :** 907 kg (2,000 lb) single line  
**Motor :** 600 w / 0.8 hp, 12V permanent magnet  
**Gear train & ratio :** 3-stage planetary 103:1  
**Clutch (freespooling) :** Cam activated  
**Brake :** Mechanical spring applied and permanent magnet motor dynamic brakes together  
**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 :** Cub 2 : Galvanized aircraft A7 x 19, 4 mm x 15.2 m (5/32" x 50')  
Cub 2s : Synthetic rope, 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 bolt 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, (L x D x H) :** 296 x 223 x 140 mm (11.7" x 8.8" x 5.5")

**PERFORMANCE DATA :**

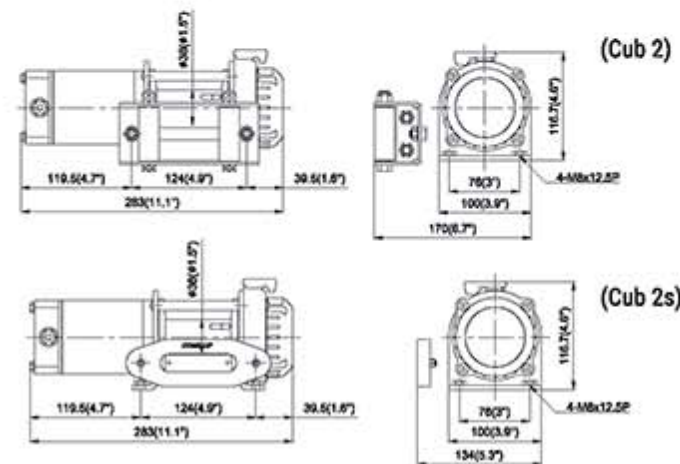
**Line Pull and Rope Capacity**

Layer of Rope	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft
1 <sup>st</sup>	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 :**



**Powersports Winch Accessories**

**Wireless Remote Control**

PN 883873 2.4 Ghz with 27 m (90'), RF-24DP-D for Cub 2/2s/3/3s/4/4s  
PN 883870 2.4 Ghz with 27 m (90'), RF-24DP-A for Cub 4s carry on

**Roller Fairlead**

PN 880231 65 mm throat for Cub 2/3  
PN 880132 109 mm throat for Cub 4

**Hawse Fairlead**

PN 881071 65 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/4/4s  
PN 881305 for Cub 4s carry on

**Contactor w/lead**

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

**Handlebar Switch Kit**

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

**Contactor Pack**

PN 881037 12V, 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 2,722 kg / 6,000 lb for Cub 2/2s/3/3s

**Wire Rope with Hook**

PN 880257 4 mm x 15.2 m (5/32" x 50') w/stopper for Cub 2  
PN 881954 4.8 mm x 15.2 m (3/16" x 50') w/stopper for Cub 3  
PN 881955 5.5 mm x 15.2 m (7/32" x 50') w/stopper for Cub 4

**Synthetic Rope**

PN 881065 w/hook for Cub 2s  
• 15.2 m (50') of 4 mm (5/32") diameter synthetic rope design for powersports winch application with line pull of 907 kg (2,000 lb) or less  
PN 881952 w/hook for Cub 3s  
• 15.2 m (50') of 4.8 mm (3/16") diameter synthetic rope design for powersports winch application with line pull of 1,361 kg (3,000 lb) or less  
PN 881953 w/hook for Cub 4s  
• 15.2 m (50') of 5.5 mm (7/32") diameter synthetic rope design for powersports winch application with line pull of 1,814 (4,000 lb) or less  
PN 881993 w/o hook for Cub 4s carry on  
• 15.2 m (50') of 5.5 mm (7/32") diameter synthetic rope design for powersports winch application with line pull of 1,814 kg (4,000 lb) or less

**Hook**

PN 881997 5/16" clevis hook for Cub 4s carry on

**Quick Connector**

PN 881075 50A, for Cub 2/2s/3/3s/4/4s/4s carry on

**Powersports Winch Accessories Chart**

Model Number	Cub 2	Cub 2s	Cub 3	Cub 3s	Cub 4	Cub 4s	Cub 4s carry on
Rated line pull kg	907	907	1,361	1,361	1,814	1,814	1,814
Rated line pull 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

## HYDRAULIC RECOVERY WINCH

Powered by a PTO (power take off) unit driven pump, COMEUP Hydraulic Recovery Winches feature a commercial grade hydraulic system for hard working, industrial applications. These systems feature an extremely powerful and reliable hydraulic motor offering variable line speed for control when it's needed and high work rate to get the job done fast. The efficient and constant operating high torque motor supports professional applications in tough situations. COMEUP hydraulic Winches excel in a wide variety of applications including heavy duty vehicle recovery, heavy equipment loading, cargo loading along with many other commercial and industrial uses.

## HYDRAULIC RECOVERY WINCH

- ▶ Bison Series 20,000 ~ 50,000 lb
- ▶ HV Series 8,000 ~ 15,000 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
- Bison Series winches use air clutches.
- 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
- Meets SAE J706 revised AUG 2003, CE Machinery Directive 2006/42/EC, and EN 14492-1:2006 Power Driven Winches (Except Bison 30/50).



▶ One (1) year Warranty.

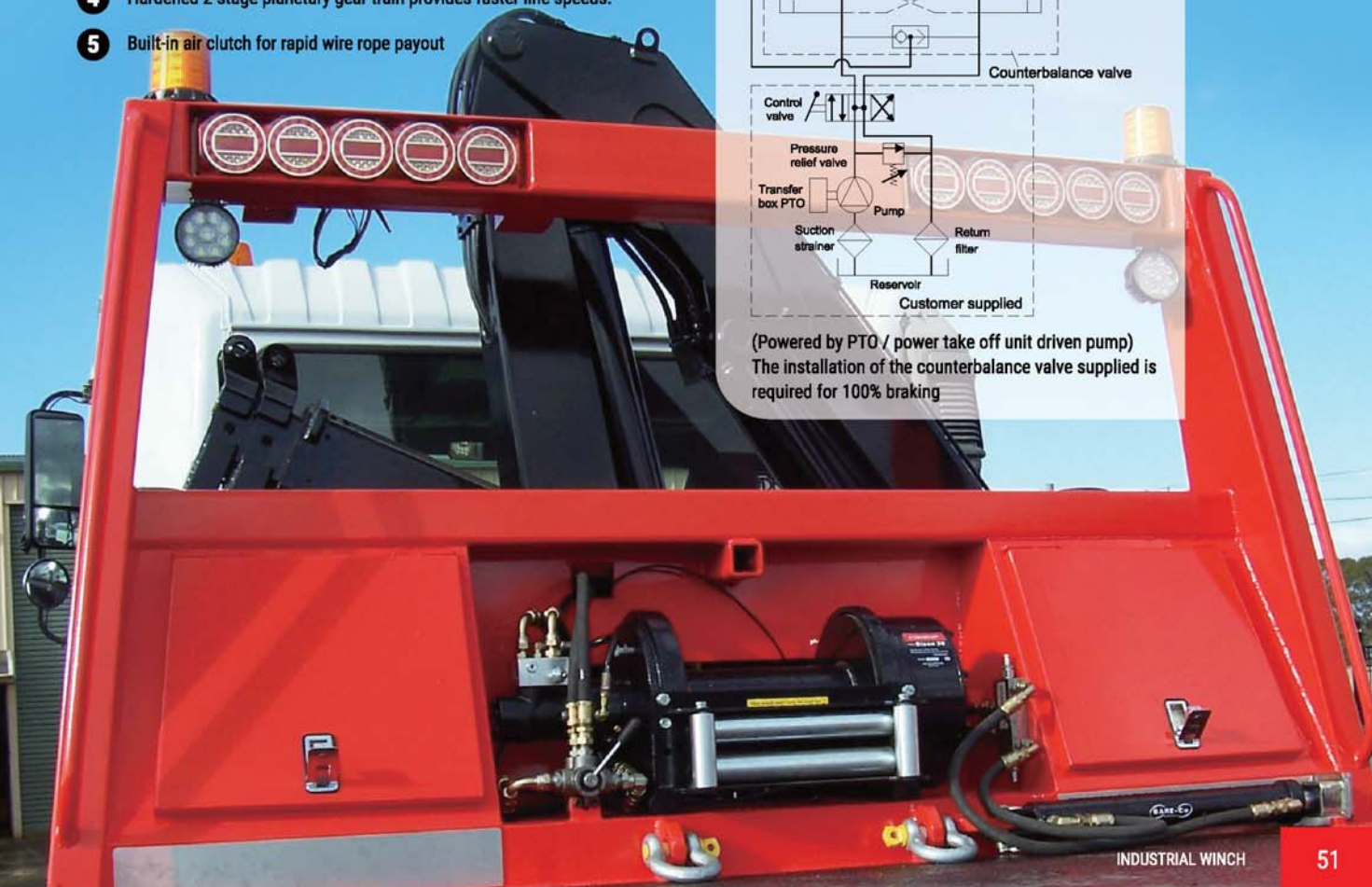
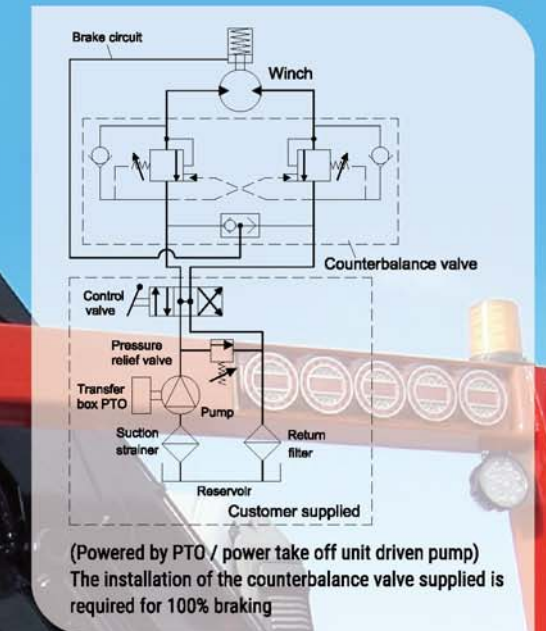
# Bison Series

20,000 - 30,000 - 50,000 lb pulling capacity



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

Remark : Low pressure motor or EN Version available upon request



**Bison 50**

**50,000 LB Hydraulic Recovery Winch**

• Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC  
PN 685010 Std. drum



Note : Roller fairlead does not mount to winch

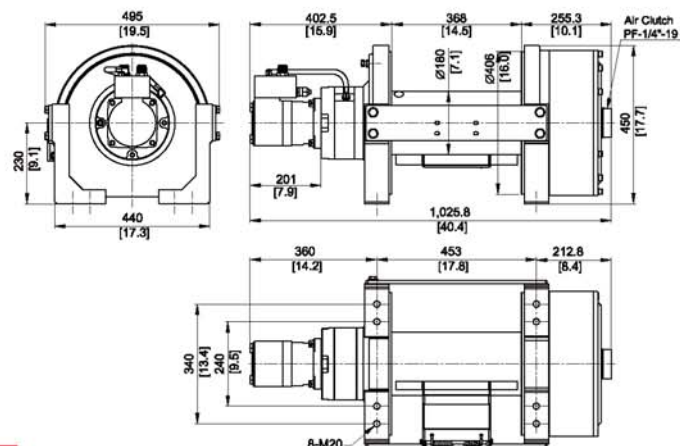
**SPECIFICATIONS :**

**Rated line pull :** 22,680 kg (50,000 lb) SAE J706 ratings  
**Operation pressure :** 200 bar / 2,900 psi  
**Max oil flow :** 100 l/min (26.5 g/min)  
**Hydraulic motor :** 251.8 cm<sup>3</sup> / rev (15.4 in<sup>3</sup> / rev)  
**Gear train & ratio :** 2-stage planetary gear 44:1  
**Winch construction :** Cast housings with steel drum  
**Clutch (Freespooling) :** Output shaft disengaged  
**Brake :** Multi-Disc Brake (MDB) patented and counterbalance valve supplied  
**Rotation of winch :** Wire rope shall be under-wound orientation only  
**Drum barrel diameter :** 180 mm (7.1")  
**Drum flange diameter :** 406 mm (16")  
**Distance between flanges :** 368 mm (14.5")  
**Mounting bolt pattern :** 240 x 453 mm (9.5" x 17.8"); 340 x 453 mm (13.4" x 17.8")  
**Wire rope recommended :** 22.4 mm x 48 m (7/8" x 157') 1,770 N/mm<sup>2</sup> (EIPS) breaking strength of 305 kN (68,566 lbf) required for SAE J706 ratings.  
**Winch weight :** 375 kg / 827 lb  
**Gross weight :** 410 kg / 904 lb  
**Box dimension, (L x D x H) :** 1,170 x 630 x 670 mm (46" x 24.8" x 26.4")

**PERFORMANCE DATA :**

Layer of Wire Rope	Line Pull and Rope Capacity		Line Speed at 100 l/min (26.5 g/min), mpm / fpm
	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
1 <sup>st</sup>	22,680 / 50,000	10 / 33	5.7 / 19
2 <sup>nd</sup>	18,570 / 40,940	22 / 72	7.0 / 23
3 <sup>rd</sup>	15,720 / 34,660	36 / 118	8.3 / 27
4 <sup>th</sup>	13,630 / 30,050	48 / 157	9.6 / 31

**DIMENSION mm/in :**



**Bison 30**

**30,000 LB Hydraulic Recovery Winch**

• Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC  
PN 683030 Std. drum | PN 683352 Long drum



Note : Roller fairlead does not mount to winch

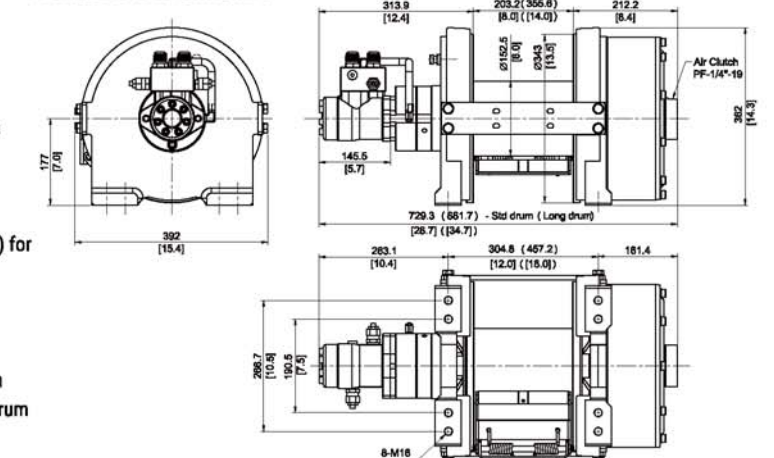
**SPECIFICATIONS :**

**Rated line pull :** 13,600 kg (30,000 lb) SAE J706 ratings  
**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 train & ratio :** 2-stage planetary gear 41:1  
**Winch construction :** Cast housings with steel drum  
**Clutch (Freespooling) :** Output shaft disengaged  
**Brake :** Multi-Disc Brake (MDB) patented and counterbalance valve supplied  
**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 bolt 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) required for SAE J706 ratings.  
**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, (L x D x H) :** 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 at 60 l/min (15.9 g/min), mpm / fpm
	Pull by Layer, kg / lb	Total Rope on the Drum, m / ft	
1 <sup>st</sup>	13,600 / 30,000	6 / 20	5.0 / 16
2 <sup>nd</sup>	11,438 / 25,216	14 / 44	5.9 / 19
3 <sup>rd</sup>	9,864 / 21,745	22 / 73	6.9 / 23
4 <sup>th</sup>	8,670 / 19,115	32 / 104	7.8 / 26
5 <sup>th</sup>	7,735 / 17,052	43 / 141	8.8 / 29

**DIMENSION mm/in :**



**Bison 20**

**20,000 LB Hydraulic Recovery Winch**

• Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC and EN 14492-1:2006 Power Driven Winches  
PN 682030 Std. drum | PN 682169 Long drum

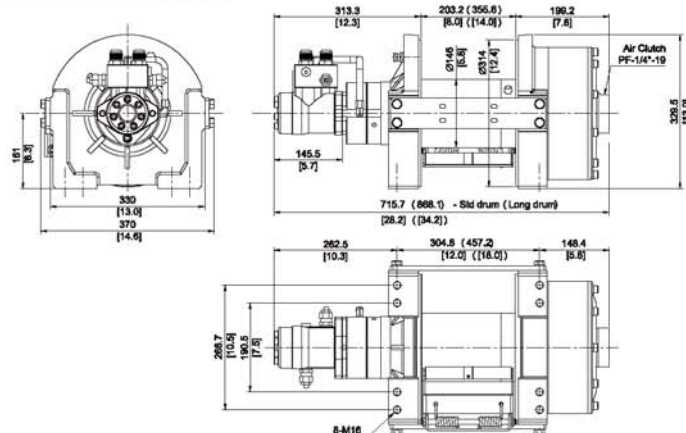


Note : Roller fairlead does not mount to winch

**PERFORMANCE DATA :**

Layer of Wire Rope	Pull by Layer, kg / lb	Line Pull and Rope Capacity				Line Speed at 60 l/min (15.9 g/min) mpm / fpm
		Total Rope on the Drum, m / ft		Total Rope on the Drum, m / ft		
		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

**DIMENSION mm/in :**



**SPECIFICATIONS :**

**Rated line pull :** 9,070 kg (20,000 lb) EN 14492-1 rating & SAE J706 rating  
**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 train & ratio :** 2-stage planetary gear 30:1  
**Winch construction :** Cast housings with steel drum  
**Clutch (Freespooling) :** Output shaft disengaged  
**Brake :** Multi-Disc Brake (MDB) patented and counterbalance valve supplied  
**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 bolt 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 30 m for Std. drum and 55 m for Long drum, 1,960 N/mm<sup>2</sup> grade with a minimum breaking strength of 179 kN required for EN 14492-1 rating.  
 \* 9/16" x 141' for Std. drum and 262' for Long drum, EIPS grade with a minimum breaking strength of 30,472 lbf required for SAE J706 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, (L x D x H) :** 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

**HV Series**

8,000 - 10,000 - 12,000 - 15,000 lb pulling capacity

• Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC, and EN 14492-1:2006 Power Driven Winches.

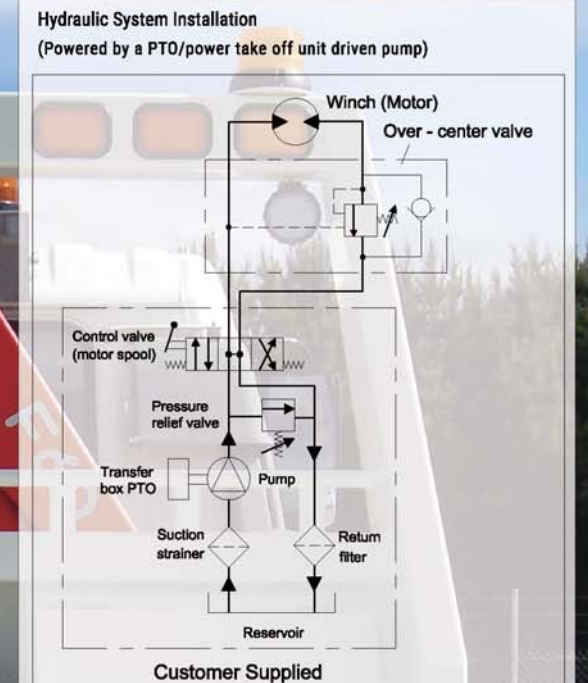


- 1 Powered by a PTO Device**  
Adjustable oil flow and pressure allow variable line pull and speed.
- 2 Extreme Motor**  
Highly efficient and constant operating torque output.
- 3 Doubled Failsafe Brakes**  
Mechanical drag brake and over-center valve provided for holding full load.
- 4 Outstanding 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.

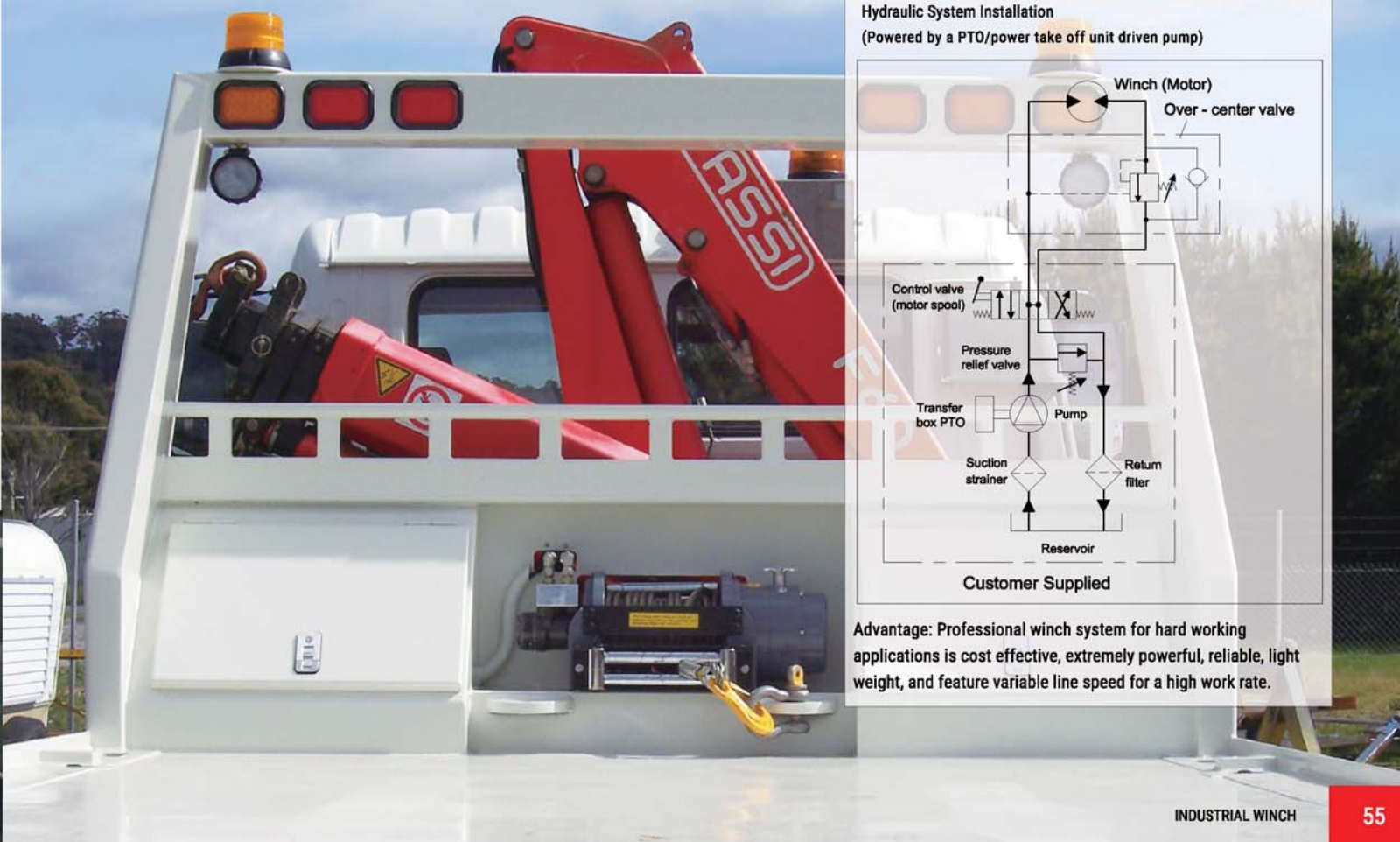


Note : Roller fairlead does not mount to winch. Clutch in left side.

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.



Advantage: Professional winch system for hard working applications is cost effective, extremely powerful, reliable, light weight, and feature variable line speed for a high work rate.



## HV-15

### 15,000 LB Hydraulic Recovery Winch

• Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC and EN 14492-1: 2006 Power Driven Winches  
PN 686732 Std. drum | PN 687548 Std. drum, Clutch in left side



Note : Roller fairlead does not mount to winch

#### SPECIFICATIONS :

Rated line pull : 6,800 kg (15,000 lb) EN 14492-1 rating & SAE J706 rating

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 train & ratio : 2-stage planetary 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")

Drum between flanges : 255 mm (10.0")

Mounting bolt 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 :

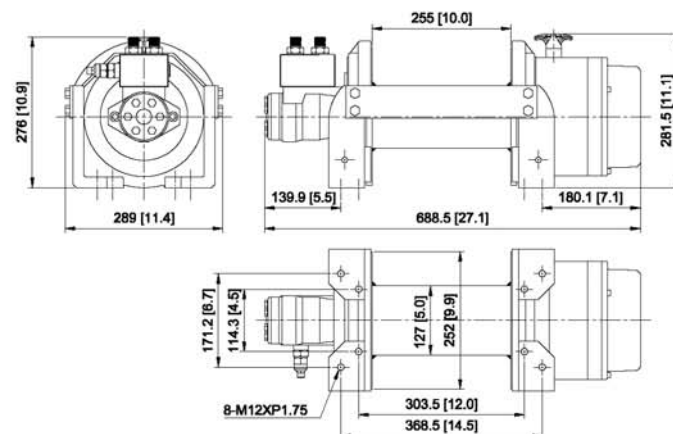
14 mm x 27 m (9/16" x 89'), 1,960 N/mm<sup>2</sup> (EIPS) grade with a minimum breaking strength of 137 KN (30,742 lbf) required for SAE J706 and EN 14492-1 ratings

Winch weight : 72 kg / 158.7 lb

Gross weight : 88 kg / 194 lb

Box dimension, (L x D x H) : 735 x 430 x 335 mm (29" x 16.9" x 13.2")

#### DIMENSION mm/in :



#### 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
1 <sup>st</sup>	6,800 / 15,000	7.8 / 25.6	9.0 / 30.0
2 <sup>nd</sup>	5,637 / 12,507	17.3 / 56.8	10.5 / 34.4
3 <sup>rd</sup>	4,867 / 10,507	27.0 / 89.0	12.3 / 40.4



## HV-12

### 12,000 LB Hydraulic Recovery Winch

• Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC and EN 14492-1: 2006 Power Driven Winches  
PN 684311 Std. drum | PN 685433 Std. drum, Clutch in left side



Note : Roller fairlead does not mount to winch

#### SPECIFICATIONS :

Rated line pull : 5,440 kg (12,000 lb) SAE J706 rating

5,100 kg EN 14492-1 rating

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 train & ratio : 2-stage planetary 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 : 114.3 mm (4.5")

Drum flange diameter : 252 mm (9.9")

Drum between flanges : 255 mm (10.0")

Mounting bolt 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 :

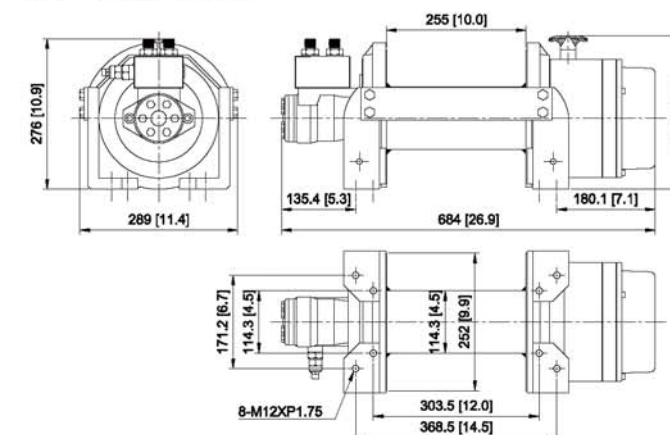
12 mm x 39 m (1/2" x 128'), 1,960 N/mm<sup>2</sup> (EIPS) grade with a minimum breaking strength of 100.5 KN (22,552 lbf) required for SAE J706 and EN 14492-1 ratings

Winch weight : 71 kg / 156.5 lb

Gross weight : 87 kg / 191.8 lb

Box dimension, (L x D x H) : 735 x 430 x 335 mm (29" x 16.9" x 13.2")

#### DIMENSION mm/in :



#### 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
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

### 10,000 LB Hydraulic Recovery Winch

- Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC and EN 14492-1: 2006 Power Driven Winches  
PN 682546 Std. drum | PN 683129 Std. drum, Clutch in left side

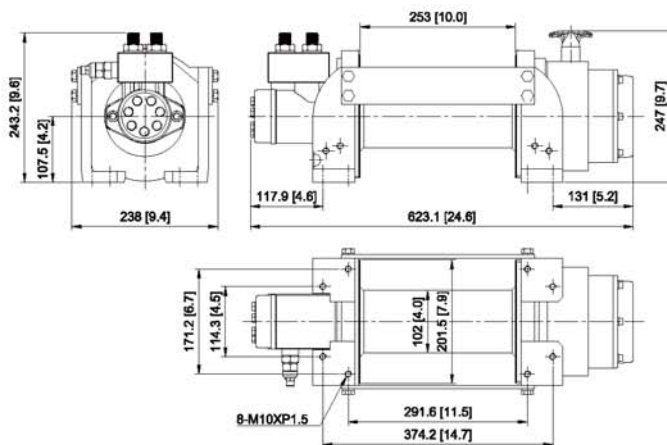


Note : Roller fairlead does not mount to winch

#### SPECIFICATIONS :

- Rated line pull : 4,535 kg (10,000 lb) SAE J706 rating  
4,300 kg EN 14492-1 rating
- 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 train & ratio : 2-stage planetary 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")
- Drum between flanges : 253 mm (10")
- Mounting bolt 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> (EIPS) grade with a minimum breaking strength of 84.4 KN (18,939 lb) 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, (L x D x H) : 680 x 380 x 300 mm (26.8" x 15" x 11.8")

#### DIMENSION mm/in :



#### 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
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



## HV-8

### 8,000 LB Hydraulic Recovery Winch

- Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC and EN 14492-1: 2006 Power Driven Winches  
PN 680816 (Std. drum) | PN 681091 (Long drum)  
PN 681123 (Std. drum, Clutch in left side) | PN 681347 (Long drum, Clutch in left side)



Note : Roller fairlead does not mount to winch

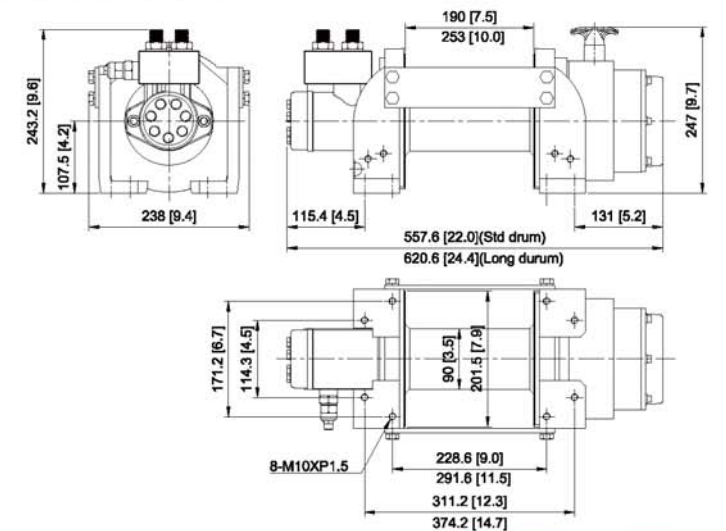
#### SPECIFICATIONS :

- Rated line pull : 3,630 kg (8,000 lb) SAE J706 rating  
3,560 kg EN 14492-1 rating
- 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 train & ratio : 2-stage planetary 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")
- Drum between flanges : 190 mm (7.5") - Std. drum ; 253 mm (10") - Long drum
- Mounting bolt 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 30.5 m (3/8" x 100') for Std. drum and 40 m (131') for long drum, 1,960 N/mm<sup>2</sup> (EIPS) grade with a minimum breaking strength of 69.8 KN (15,663 lb) 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, (L x D x H) : 615 x 380 x 300 mm (24.2" x 15" x 11.8") -Std. drum  
680 x 380 x 300 mm (26.8" x 15" x 11.8") - 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 60 l/min (15.9 g/min), mpm / fpm
1 <sup>st</sup>	3,630 / 8,000	5.8 / 19.0	7.8 / 25.6	15.0 / 49.0
2 <sup>nd</sup>	3,025 / 6,669	12.8 / 42.0	17.1 / 56.1	18.2 / 59.7
3 <sup>rd</sup>	2,593 / 5,717	20.9 / 68.6	28.0 / 91.9	21.2 / 69.6
4 <sup>th</sup>	2,269 / 5,002	30.5 / 100	40 / 131	24.2 / 79.4

#### DIMENSION mm/in :



# HYDRAULIC WORM GEAR WINCH

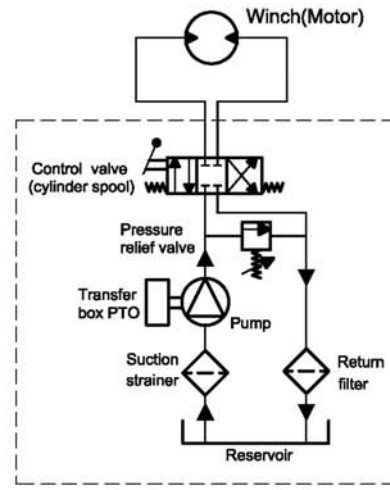
- Powered by an onboard hydraulic pump or PTO
- Fast and variable recovery speeds for high working rate
- High efficient and constant-operating torque motor
- Irreversible single stage worm gear provides instant braking and slip free operation
- An ergonomic T-handle for rapid wire rope payout
- Heavy 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.



### Hydraulic System



Customer supplied

## Yak 7

### 7,000 LB Hydraulic Worm Gear Winch

- Meets SAE J706 revised AUG2003, CE Machinery Directive 2006/42/EC and EN 14492-1:2006 Power Driven Winches
- PN 681260 Std. dum | PN 681266 Long dum



Note : Roller fairlead does not mount to winch

### SPECIFICATIONS :

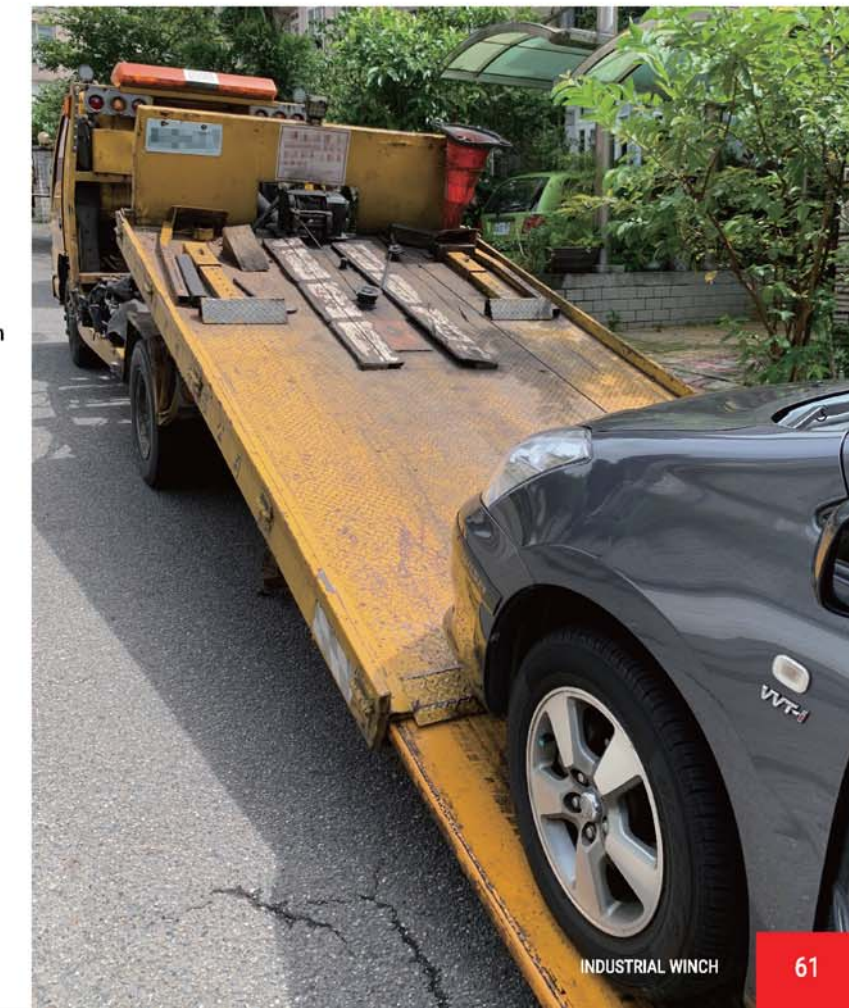
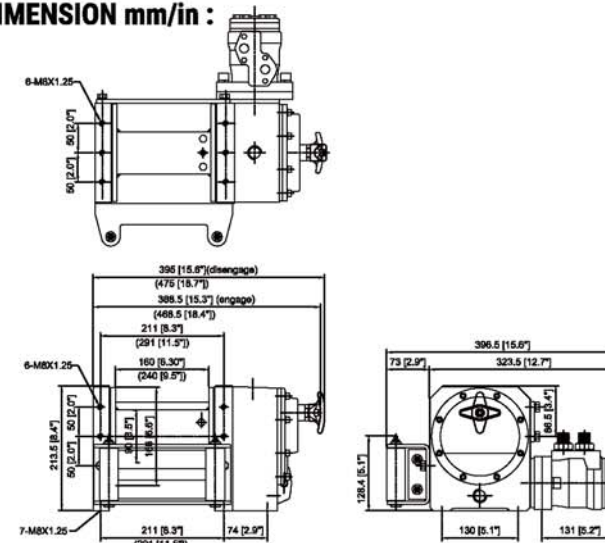
- Rated line pull** : 3,175 kg (7,000 lb) SAE J706 rating  
3,200 kg EN 14492-rating
- Operation pressure** : 120 bar / 1,740 psi
- Max oil flow** : 40 l/min (10.6 g/min)
- Hydraulic motor** : 48.6 cm<sup>3</sup> / rev (3.0 in<sup>3</sup> / rev)
- Gear train & ratio** : 1-stage worm gear 50:1
- Winch 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 bolt 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 10.7 m 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, (L x D x H)** : 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
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



### DIMENSION mm/in :







## Rhino 12 /12 Pro

### 12,000 LB Electric Recovery Winch

• Meets SAE J706, CE Machinery Directive 2006/42/EC, CE Electromagnetic Compatibility 2014/30/EU, and EN 14492-1:2006 Power Driven Winches.

Rhino 12 PN 851212 12V | PN 851224 24V  
Rhino 12 Pro PN 851105 12V | PN 851324 24V



Note : Roller fairlead does not mount to winch



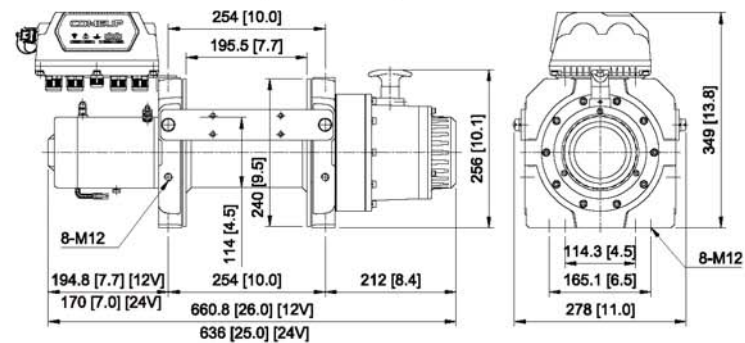
#### PERFORMANCE DATA : Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Line Speed, mpm / fpm	Total Rope on the Drum, m / ft
1 <sup>st</sup>	5,440 / 12,000	1.3 / 4.3	5.9 / 19.4
2 <sup>nd</sup>	4,534 / 9,996	1.5 / 12.1	13 / 42.7
3 <sup>rd</sup>	3,885 / 8,565	1.8 / 14.3	21.4 / 70.2
4 <sup>th</sup>	3,399 / 7,494	2.0 / 16.4	30.5 / 100

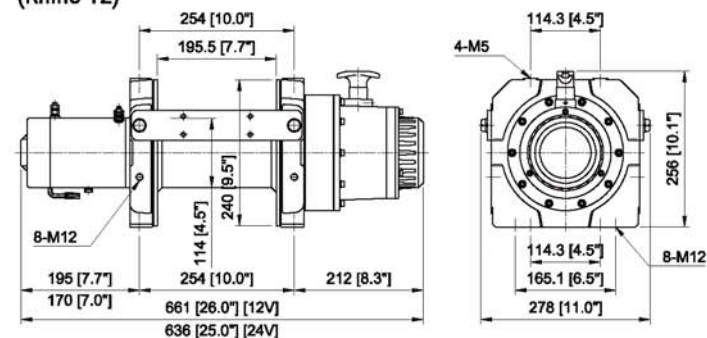
#### Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)

Line Pull kg / lb	Line Speed, mpm / fpm	Amp. Draw, A	
		12V	24V
No Load	10 / 32.8	40	35
1,814 / 4,000	4.4 / 14.4	140	110
3,629 / 8,000	3.5 / 11.5	280	210
4,536 / 10,000	1.5 / 5.0	350	260
5,440 / 12,000	1.3 / 4.3	420	310

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



#### (Rhino 12)



#### SPECIFICATIONS :

Rated line pull : 5,440 kg (12,000 lb) single line, SAE J706 rating  
5,100 kg single line, EN 14492-1 rating

Motor : 4,180 w / 5.6 hp, 12V series wound  
2,690 w / 3.6 hp, 24V series wound

Gear train & 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 bolt pattern : 254 x 114.3 mm (10" x 4.5"); 254 x 165.1 mm (10" x 6.5")

Wire rope recommended :

\* 12 mm x 21.4 m, 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 : Rhino 12 : 61 kg / 134 lb

Rhino 12 Pro : 62 kg / 137 lb

Box dimension, (L x D x H) : Rhino 12 : 693 x 313 x 473 mm (27.3" x 12.3" x 18.6")

Rhino 12 Pro : 693 x 313 x 508 mm (27.3" x 12.3" x 20")

## Rhino 8/8 Pro

### 8,000 LB Electric Recovery Winch

• Meets SAE J706, CE Machinery Directive 2006/42/EC, CE Electromagnetic Compatibility 2014/30/EU, and EN 14492-1:2006 Power Driven Winches.

Rhino 8 PN 850812 12V | PN 850824 24V  
Rhino 8 Pro PN 850318 12V | PN 850326 24V



Note : Roller fairlead does not mount to winch

#### SPECIFICATIONS :

Rated line pull : 3,630 kg (8,000 lb) single line, SAE J706 rating  
3,560 kg single line, EN 14492-1 rating

Motor : 3,430 w / 4.6 hp, 12V series wound  
1,940 w / 2.6 hp, 24V series wound

Gear train & 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 bolt pattern : 254 x 114 mm (10" x 4.5"); 254 x 165.1 mm (10" x 6.5")

Wire rope recommended :

\* 10 mm x 22.6 m, 1,960 N/mm<sup>2</sup> 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 : Rhino 8 : 47 kg / 104 lb

Rhino 8 Pro : 48 kg / 106 lb

Box dimension, (L x D x H) : 650 x 260 x 440 mm (25.6" x 10.2" x 17.3")

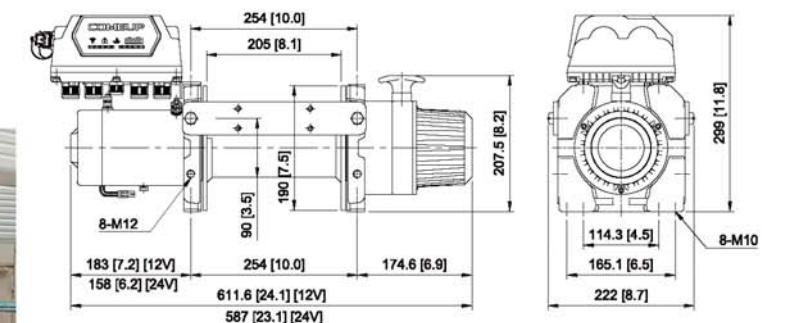
#### PERFORMANCE DATA : Line Pull and Rope Capacity

Layer of Rope	Pull by Layer, kg / lb	Line Speed, mpm / fpm	Total Rope on the Drum, m / ft
1 <sup>st</sup>	3,630 / 8,000	0.7 / 2.3	6.3 / 20.7
2 <sup>nd</sup>	3,025 / 6,669	0.9 / 3.0	13.8 / 45.3
3 <sup>rd</sup>	2,593 / 5,717	1.0 / 3.3	22.6 / 74.1
4 <sup>th</sup>	2,269 / 5,002	1.2 / 4.0	30.5 / 100

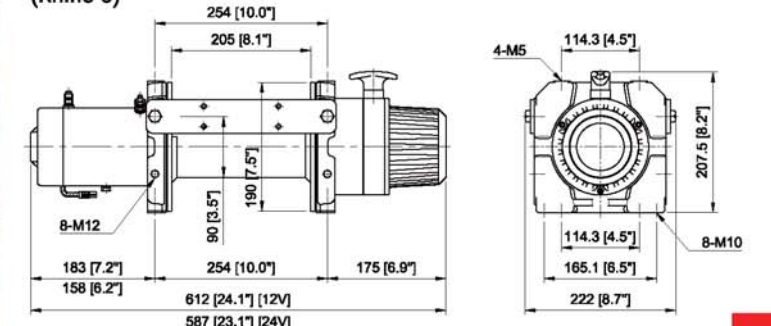
#### Line Speed and Amp. Draw (1<sup>st</sup> layer of rope on the drum)

Line Pull kg / lb	Line Speed, mpm / fpm	Amp. Draw, A	
		12V	24V
No Load	9.0 / 29.5	45	30
907 / 2,000	3.0 / 10	90	60
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

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



#### (Rhino 8)



## Wolf 12.0/8.5

### 12,000/8,500 LB Electric Worm Gear Winch

• Meets SAE J706, CE Machinery Directive 2006/42/EC, and REMSA Standards

Wolf 12.0 PN 782478 12V | PN 783415 24V (with wire rope, roller fairlead, remote control, cable tensioner)

Wolf 8.5 PN 780254 12V | PN 780988 24V (with wire rope, roller fairlead, remote control, cable tensioner)



Note : Roller fairlead does not mount to winch

#### SPECIFICATIONS :

##### Rated line pull :

Wolf 12.0 : 5,443 kg (12,000 lb) single line (SAE J706 rating)

Wolf 8.5 : 3,856 kg (8,500 lb) single line (SAE J706 rating)

##### Motor :

Wolf 12.0/8.5 : 3,430 w / 4.6 hp, 12V series wound

Wolf 12.0 : 2,240 w / 3.0 hp, 24V series wound

Wolf 8.5 : 1,940 w / 2.6 hp, 24V series wound

##### Gear train & ratio :

Wolf 12.0 : 2-stage spur gears PLUS worm gear 424:1

Wolf 8.5 : 2-stage spur gears PLUS worm gear 228.9:1

##### Clutch (freespooling) : Mechanism lever

Brake : Irreversible worm gear brake PLUS mechanism ratchet wheel brake

Drum size : Wolf 12.0 : 89 mm x 229 mm (3.5" x 9")

Wolf 8.5 : 82 mm x 229 mm (3.2" x 9")

Control : Waterproof remote control w/5 m (17') cord

Rope : Wolf 12.0 : Galvanized aircraft A7 x 19, 9.5 mm x 30.5 m (3/8" x 100')

Wolf 8.5 : Galvanized aircraft A7 x 19, 8.0 mm x 45 m (5/16" x 150')

Mounting bolt pattern : 273 x 110 mm (10.7" x 4.3"); 257 x 172 mm (10.1" x 6.8")

Winch weight : Wolf 12.0 : 41 kg / 90.4 lb

Wolf 8.5 : 40 kg / 88.2 lb

Gross weight : Wolf 12.0 : 65 kg / 143.3 lb

Wolf 8.5 : 63.4 kg / 139.7 lb

Box dimension, (L x D x H) : 610 x 427 x 350 mm (24" x 16.8" x 13.8")

#### PERFORMANCE DATA :

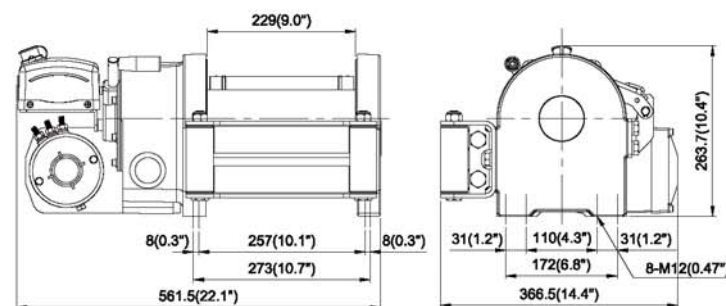
##### Line Pull and Rope Capacity

Model Name	Wolf 12.0		Wolf 8.5	
	Layer of Rope	Pull by Layer, Total Rope on the Drum, kg / lb	Layer of Rope	Pull by Layer, Total Rope on the Drum, kg / lb
1 <sup>st</sup>	5,443 / 12,000	7.3 / 24.0	3,856 / 8,500	8.0 / 26.4
2 <sup>nd</sup>	4,563 / 10,060	16.0 / 52.6	3,279 / 7,229	17.5 / 57.4
3 <sup>rd</sup>	3,928 / 8,659	26.1 / 85.8	2,853 / 6,289	28.4 / 93.1
4 <sup>th</sup>	3,448 / 7,601	30.5 / 100	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 rope on the drum)

Line Pull kg / lb	Line Speed, mpm / fpm				Amp. Draw, A			
	Wolf 12.0		Wolf 8.5		Wolf 12.0		Wolf 8.5	
	12V	24V	12V	24V	12V	24V	12V	24V
No Load	3.5 / 10.1	5.0 / 16.4	7.0 / 23.0	9.5 / 31.2	70	50	60	50
907 / 2,000	-	-	3.0 / 9.8	5.0 / 16.4	-	-	160	130
1,814 / 4,000	-	-	2.2 / 7.2	3.0 / 9.8	-	-	220	190
2,722 / 6,000	1.1 / 3.6	1.8 / 5.9	1.5 / 4.9	2.3 / 7.5	180	150	300	250
3,630 / 8,000	0.8 / 2.6	1.3 / 4.3	1.1 / 3.6	1.3 / 4.3	270	190	390	320
3,856 / 8,500	-	-	1.0 / 3.3	1.2 / 3.9	-	-	430	360
4,535 / 10,000	0.6 / 2.0	1.1 / 3.6	-	-	310	230	-	-
5,443 / 12,000	0.3 / 1.0	0.7 / 2.3	-	-	350	270	-	-

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



## HEAVY DUTY DC HOIST

The GTD Series of heavy duty hoists are designed and built for use in the most demanding environments today's work trucks encounter. Through rigorous testing and validation processes these hoists are proven to meet global industry safety and durability standards.

Built using high efficiency, low amp draw permanent magnet motors the GTD Series hoists are extremely efficient while offering category leading safety. Our full metal 3-stage planetary gear sets offer greater lifting force and provide many years of reliable component service. COMEUP's submersible sealed contactor easily handles the high amperage demands of load lifting and allows a higher duty cycle for reliable all-day use.

All GTD Series Hoists comply with CE Machinery Directive 2006/42/EC, CE EMC Directive 2014/30/EU and ASME B30.5

- Provides an answer to the health and safety recommendations for manual lifting
- High efficiency low amp. draw and sealed permanent magnet motor
- Lightweight and compact design is ideal for easy installation
- Mechanical cone brake and permanent magnet motor dynamic braking work together for safe, controlled load handling
- 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 ASME B30.5 for D/d ≥ 18 and rope safety factor ≥ 3.5
- Meets CE Machinery Directive 2006/42/EC, CE EMC Directive 2014/30/EU and ASME B30.5

▲ GTD Series 650 ~ 2,800 lb



**GTD-2800**

**2,800 LB Heavy Duty Hoist**

PN 753022 12V | PN 753033 24V  
PN 753002 12V w/o controls and rope assembly  
PN 753003 24V w/o controls and rope assembly



**SPECIFICATIONS :**

**Rated load :** 1,270 kg (2,800 lb)  
**Motor :** 2,830 w / 3.8 hp, 12V permanent magnet  
1,940 w / 2.6 hp, 24V permanent magnet  
**Gear train & ratio :** 3-stage planetary 261:1  
**Brake (outside the drum) :** Mechanical cone brake and permanent motor dynamic brakes together  
**Winch construction :** Aluminum die cast housings and steel drum  
**Drum size :** 135 x 114.6 mm (5.3" x 4.5")  
**Control :** Remote control with 5 m (17') lead  
**Rope :** Galvanized aircraft A7 x 19, 7.9 mm x 28 m (5/16" x 92')  
**Mounting bolt pattern :** 114.3 x 171 mm (4.5" x 6.8"); 165.1 x 171 mm (6.5" x 6.8")  
**Hoist weight (including rope & hook) :** 48.1 kg / 106 lb  
**Gross weight :** 54.8 kg / 120.8 lb  
**Box dimension, (L x D x H) :** 620 x 360 x 260 mm (24.4" x 14.2" x 10.2")

**PERFORMANCE DATA :**

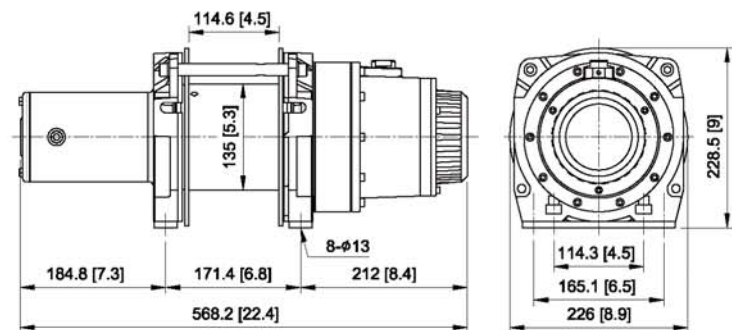
**Line Pull and Rope Capacity**

Layer of Wire Rope	Load by Layer, kg / lb	Line Speed mpm / fpm		Total Rope on the Drum, m / ft
		12V	24V	
1 <sup>st</sup>	1,270 / 2,800	4.0 / 13.1	4.4 / 14.4	6.3 / 20.7
2 <sup>nd</sup>	1,144 / 2,522	4.4 / 14.4	4.9 / 16.1	13.3 / 43.6
3 <sup>rd</sup>	1,040 / 2,292	4.8 / 15.7	5.4 / 17.7	21 / 68.6
4 <sup>th</sup>	954 / 2,103	5.3 / 17.4	5.8 / 19.0	28 / 92

**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		Percentage Duty Cycle Min / 10 min
	12V	24V	12V	24V	
No Load	5.8 / 19	6.0 / 19.7	30	22	Cont.
227 / 500	5.5 / 18	5.7 / 18.7	45	30	7.0
454 / 1,000	5.1 / 16.7	5.5 / 18.0	70	45	4.5
680 / 1,500	4.6 / 15.1	5.3 / 17.4	95	60	3.0
907 / 2,000	4.3 / 14.1	4.6 / 15.1	135	80	2.5
1,270 / 2,800	4.0 / 13.1	4.4 / 14.4	160	100	2.0

**DIMENSION mm/in :**



**GTD-2200**

**2,200 LB Heavy Duty Hoist**

PN 752103 12V | PN 752104 24V  
PN 752003 12V w/o controls and rope assembly  
PN 752004 24V w/o controls and rope assembly



**SPECIFICATIONS :**

**Rated load :** 998 kg (2,200 lb)  
907 kg (2,000 lb) ASME B30.5 rating  
**Motor :** 2,830 w / 3.8 hp, 12V permanent magnet  
1,940 w / 2.6 hp, 24V permanent magnet  
**Gear train & ratio :** 3-stage planetary 211:1  
**Brake (outside the drum) :** Mechanical cone brake and permanent motor dynamic brakes together  
**Winch construction :** Aluminum die cast housings and steel drum  
**Drum size :** 108 x 105 mm (4.3" x 4.1")  
**Control :** Remote control with 5 m (17') lead  
**Rope :** Galvanized aircraft A7 x 19, 6.3 mm x 30.5 m (1/4" x 100')  
**Mounting bolt pattern :** 114.3 x 152 mm (4.5" x 6"); 165.1 x 152 mm (6.5" x 6")  
**Hoist weight (including rope) :** 33.9 kg / 74.7 lb  
**Gross weight :** 39.5 kg / 87.1 lb  
**Box dimension, (L x D x H) :** 518 x 341 x 240 mm (20.4" x 13.4" x 9.4")

**PERFORMANCE DATA :**

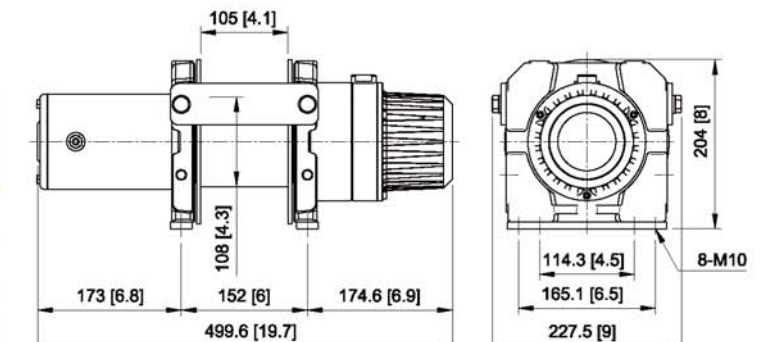
**Line Pull and Rope Capacity**

Layer of Wire Rope	Load by Layer, kg / lb	Line Speed, mpm / fpm		Total Rope on the Drum, m / ft
		12V	24V	
1 <sup>st</sup>	998 / 2,200	4.2 / 13.8	5.0 / 16.4	5.6 / 18.4
2 <sup>nd</sup>	898 / 1,980	4.6 / 15.1	5.5 / 18.0	11.8 / 38.7
3 <sup>rd</sup>	816 / 1,799	5.1 / 16.7	6.1 / 20.0	18.7 / 61.4
4 <sup>th</sup>	747 / 1,647	5.6 / 18.4	6.6 / 21.6	26.2 / 86
5 <sup>th</sup>	689 / 1,519	6.0 / 19.7	7.2 / 23.6	30 / 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		Percentage Duty Cycle Min / 10 min
	12V	24V	12V	24V	
No Load	5.3 / 17.4	5.8 / 19.0	25	18	Cont.
181 / 400	5.2 / 17.1	5.7 / 18.7	50	25	8.0
362 / 800	5.1 / 16.7	5.6 / 18.4	75	35	6.0
544 / 1,200	4.8 / 15.7	5.5 / 18	95	55	4.0
771 / 1,700	4.6 / 15.1	5.3 / 17.4	115	70	3.0
998 / 2,200	4.2 / 13.8	5.0 / 16.4	135	90	2.0

**DIMENSION mm/in :**



**GTD-1200**

**1,200 LB Heavy Duty Hoist**

PN 751321 12V | PN 751375 24V  
PN 751220 12V w/o controls and rope assembly  
PN 751265 24V w/o controls and rope assembly



**SPECIFICATIONS :**

**Rated load :** 544 kg (1,200 lb)  
**Motor :** 900 w / 1.2 hp, 12/24V permanent magnet  
**Gear train & ratio :** 3-stage planetary 216:1  
**Brake (outside the drum) :**  
Mechanical cone brake and permanent motor dynamic brakes together  
**Winch construction :** Aluminum die cast housing with cast iron drum  
**Drum size :** 89 x 73 mm (3.5" x 2.9")  
**Control :** Remote control with 5 m (17') lead  
**Rope :** Galvanized aircraft A7 x 19, 4.8 mm x 18.3 m (3/16" x 60")  
**Mounting bolt 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, (L x D x H) :** 504 x 214 x 363 mm (19.8" x 8.4" x 14.3")

**PERFORMANCE DATA :**

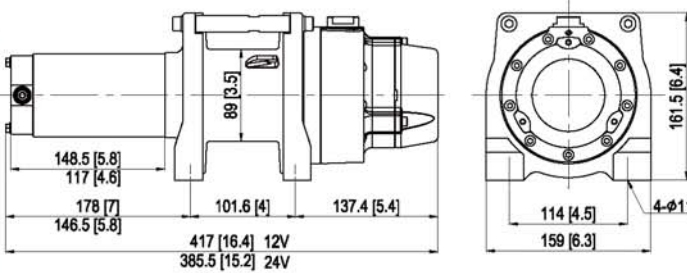
**Line Pull and Rope Capacity**

Layer of Wire Rope	Load 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 rope on the drum)**

Line Pull kg / lb	Line Speed, mpm / fpm		Amp. Draw, A		Percentage Duty Cycle Min / 10 min
	12V	24V	12V	24V	
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
272 / 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-800/650**

**800/650 LB Heavy Duty Hoist**

GTD-800  
PN 750925 12V | PN 750955 24V  
PN 750888 12V w/o controls and rope assembly  
PN 750898 24V w/o controls and rope assembly

**SPECIFICATIONS :**

**Rated load :** 362 kg (800 lb)  
**Motor :** 800 w / 1.0 hp, 12/24V permanent magnet  
**Gear train & ratio :** 3-stage planetary 191:1  
**Brake :** Mechanical spring applied and permanent motor dynamic brakes together  
**Winch construction :** Aluminum die cast housings and drum  
**Drum size :** 68 x 119 mm (2.7" x 4.7")  
**Control :** Remote control with 5 m (17') lead  
**Rope :** Galvanized aircraft A7 x 19, 4.0 mm x 18.3 m (5/32" x 60")  
**Mounting bolt 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, (L x D x H) :** 430 x 170 x 300 mm (16.9" x 6.7" x 11.8")

**PERFORMANCE DATA :**

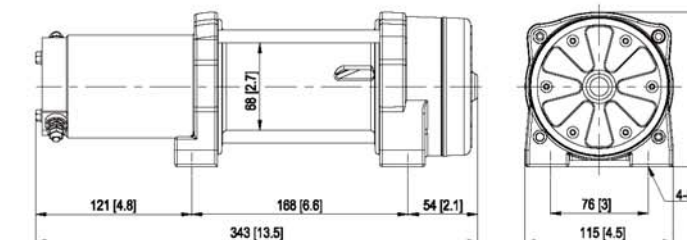
**Line Pull and Rope Capacity**

Layer of Wire Rope	Load 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	6.6 / 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 rope on the drum)**

Line Pull 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  
PN 750265 12V | PN 750280 24V  
PN 750160 12V w/o controls and rope assembly  
PN 750188 24V w/o controls and rope assembly

**SPECIFICATIONS :**

**Rated load :** 295 kg (650 lb)  
**Motor :** 800 w / 1.0 hp, 12/24V permanent magnet  
**Gear train & ratio :** 3-stage planetary 138.5:1  
**Brake :** Mechanical spring applied and permanent motor dynamic brakes together  
**Winch construction :** Aluminum die cast housings and drum  
**Drum size :** 61.2 x 75 mm (2.4" x 3.0")  
**Control :** Remote control with 5 m (17') lead  
**Rope :** Galvanized aircraft A7 x 19, 3.6 mm x 18.3 m (9/64" x 60")  
**Mounting bolt 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 :**

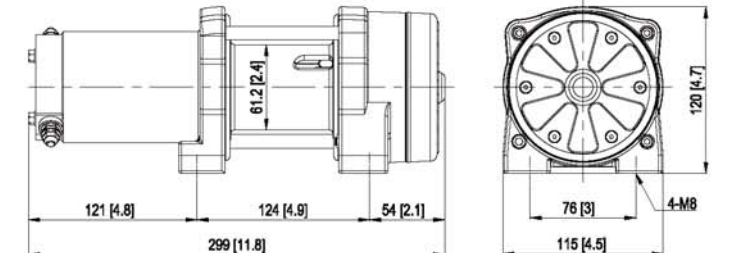
**Line Pull and Rope Capacity**

Layer of Wire Rope	Load 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 rope on the drum)**

Line Pull 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 :**



## Industrial Winch Accessories

### Wireless Remote Control

2.4 GHz within 27 m (90'), complete set including wireless transmitter, wireless receiver, switch cord with plug, battery and handle strap

PN 883870 RF-24DP-A w/3 ping plug for GTD-650/800/1200/2200/2800, Wolf 8.5/12.0

PN 883872 RF-24DP-C w/6 pin plug for Rhino 8/12



### Remote Control

PN 880025 for GTD-650/800/1200/2200/2800, Wolf 8.5/12.0

PN 880126 for Rhino 8/12/15 (comes with protective thermal sensor LED)

PN 883509 for Rhino 8 Pro/12 Pro/15 Pro (comes with protective thermal sensor LED)



### Sealed Contactor

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

400 A, for Rhino 8/8 Pro/12/12 Pro/15/15 Pro, Wolf 8.5/12.0

PN 882083 (12V) / PN 882084 (24V) 250A contactor w/lead for GTD-650/800/1200/2200/2800



### Control Box

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

PN 881645 (12V) / PN 881646 (24V) for Rhino 12/15, w/built-in over-load protector

PN 883406 (12V) / PN 883521 (24V) ICB for Rhino 8 Pro/12 Pro/15 Pro

PN 882313 (12V) / PN 882314 (24V) for GTD-650/800/1200

PN 882360 (12V) / PN 882361 (24V) for GTD-2200/2800

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



### Roller Fairlead

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

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

PN 883400 245 mm throat, SUS (steel special use stainless), for HV-8 Long drum, HV-10/12/15

PN 882481 179 mm throat for Rhino 8/8 Pro/12/12 Pro/15/15 Pro

PN 881479 149 mm throat for Yak 7 Std. drum

PN 881480 229 mm throat for Yak 7 Long drum

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

PN 882797 330 mm throat for Bison 50

PN 880023 210 mm throat for Wolf 8.5/12.0



### Snatch Block

PN 881079 Max. load 10,000 kg / 22,000 lb

PN 881082 Max. load 13,610 kg / 30,000 lb

PN 883866 Max. load 22,680 kg / 50,000 lb

PN 883621 Max. load 31,752 kg / 70,000 lb



### Wire Rope with Hook

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



### Wire Rope w/o Hook

PN 882413 3.6 mm x 18.3 m (9/64" x 60') for GTD-650

PN 882411 4.0 mm x 18.3 m (5/32" x 60') for GTD-800

PN 882410 4.8 mm x 18.3 m (3/16" x 60') for GTD-1200

PN 882484 6.3 mm x 30.5 m (1/4" x 100') for GTD-2200

PN 882487 7.9 mm x 28 m (5/16" x 92') for GTD-2800



### Clevis Hook

PN 881997 5/16" for GTD-650/800

PN 881995 3/8" for GTD-1200/2200

PN 881996 1/2" for GTD-2800



### Cable Tensioner

PN 882796 345 mm for Bison 50

PN 881983 193 mm for Bison 20/30 Std. drum

PN 882195 345 mm for Bison 20/30 Long drum

PN 881238 184 mm for HV-8 Std. drum

PN 880179 249 mm for HV-8 Long drum, HV-10/12/15

PN 881236 153 mm for Yak 7 Std. drum

PN 881237 233 mm for Yak 7 Long drum

PN 881667 204 mm for Rhino 8

PN 883552 193 mm for Rhino 12/15

PN 880358 222 mm for Wolf 8.5/12.0



### Air Clutch

PN 883226 for HV-8/10

PN 883227 for HV-12/15



### Extended Clutch Kit

PN 881314 for HV-8/10

PN 883386 for HV-12/15



### Over Center Valve

PN 883314 70-210 bar setting for HV-8/10/12/15



### Winch Accessory Kit

Heavy Duty Kit PN 883438

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') tow strap rated to 9,800 kg/21,600 lb, PN 881090
- Bow shackle, 33 mm (3/4") pin diameter, PN 883440
- 3 m of 8 mm (10' of 5/16") grade 70 choker chain with hooks, PN 881096
- Gloves, PN 883437
- Bag, PN 883439



### Base Plate Bracket

PN 883830 for Bison 50

PN 883831 for Bison 30

PN 883832 for Bison 30 Long drum

PN 883833 for Bison 20

PN 883834 for Bison 20 Long drum



### Battery Isolation Switch PN 881097

2 Position Off-On 12V 500 Amp for Rhino 8/12, GTD-650/800/1200/2200/2800, Wolf 8.5/12.0



Emergency Stop Switch, PN 881668 400A

## Industrial Winch Accessories

### Bison/HV/Yak

Series	Hydraulic Winch								
	Bison 50	Bison 30	Bison 20	HV-15	HV-12	HV-10	HV-8	Yak 7	
Model Number									
Gear train	Planetary gears							Worm gears	
Rated line pull	SAE J706 rating	22,680 kg / 50,000	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
	EN 14492-1rating	-	-	9,070 kg	6,800 kg	5,100 kg	4,300 kg	3,560 kg	3,200 kg
Counterbalance or over-center valve	●	●	●	●	●	●	●	●	
Roller fairlead for Std. drum	●	●	●	●	●	●	●	●	
for Long drum	-	●	●	-	-	-	●	●	
Cable tensioner for Std. drum	●	●	●	○	○	○	○	○	
for Long drum	-	●	●	-	-	-	○	○	
Air clutch	built-in	built-in	built-in	○	○	○	○	-	
Snatch block	○	○	○	○	○	○	○	○	

### Rhino/Wolf/GTD

Series	Electric recovery Winch						Heavy Duty Hoist						
	Rhino 15 Pro	Rhino 15	Rhino 12 Pro	Rhino 12	Rhino 8 Pro	Rhino 8	Wolf 12.0	Wolf 8.5	GTD-2800	GTD-2200	GTD-1200	GTD-800	GTD-650
Model Number													
Gear train	Planetary gears						Worm gears		Planetary gears				
Rated line pull or lift	6,800 kg / 15,000 lb		5,440 kg / 12,000 lb		3,630 kg / 8,000 lb		5,443 kg / 3,856 kg / 12,000 lb 8,500 lb		1,270 kg / 2,800 lb	998 kg / 2,200 lb	544 kg / 1,200 lb	362 kg / 800 lb	295 kg / 650 lb
Remote control	●	●	●	●	●	●	●	●	●	●	●	●	●
Control box 12V	-	-	●	●	●	●	●	●	●	●	●	●	●
24V	●	●	●	●	●	●	●	●	●	●	●	●	●
Wire rope w/hook	○	○	○	○	○	○	●	●	●	●	●	●	●
Roller fairlead	●	●	●	●	●	●	●	●	-	-	-	-	-
Battery lead	●	●	●	●	●	●	●	●	●	●	●	●	●
Cable tensioner	○	○	○	○	○	○	●	●	-	-	-	-	-
Snatch block	○	○	○	○	○	○	○	○	○	○	○	○	○
ICB (Intelligent Control Box)	●	-	●	-	●	-	-	-	-	-	-	-	-

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



# HYDRAULIC HOIST for Mobile Crane Vehicle

APE Series / 900 - 1,200 - 1,600 - 1,900 kg lifting capacity

- Internally lubricated for reliable power and an exceptionally long service life.
- Compact, hardened and high efficiency gear trains reduce power loss and placed inside the drum.
- Multi-Disc Brake (MDB) patented and two way counter-balance valve together for holding full load.
- The normal lifting capacity is rated at the top layer of wire rope. It always lifts its rated load no matter what layer of wire rope it is.
- The drum is dimensioned to obtain a minimum D/d ratio of 18:1 with a 5:1 minimum safety factor at the rated load.
- The hoist meets the requirement of FEM9.511 covering rating and classification and FEM 1001 standard for the calculation of lifting equipment.
- Compliance with international standards such as ASME B30.7 and, CE Machinery Directive 2006/42/EC and EN 14492-2 : 2006 Power Driven Hoists.



## APE 19/16

1,900/1,600 KG Hydraulic Hoist for Mobile Crane

- Meets ASME B30.7 and, CE Machinery Directive 2006/42/EC standards
- APE 19 PN 681930 Std. drum | PN 681940 Long drum
- APE 16 PN 681920



### SPECIFICATIONS :

**Rated line lift :**

APE 19 : 1,900 kg (4,190 lb) single line at the top layer of rope  
 APE 16 : 1,600 kg (3,527 lb) single line at the top layer of rope

**Motor :**

APE 19 : 200 cm<sup>3</sup>/rev (12.2 in<sup>3</sup>/rev)  
 APE 16 : 159.7 cm<sup>3</sup>/rev (9.7 in<sup>3</sup>/rev)

**Operation pressure :** 205 bar (2,973 psi) with maximum back pressure on return line of 5 bar

**Max-Min pump flow :**

APE 19 : 60 - 20 l/min (15.9 - 5.3 g/min)  
 APE 16 : 45 - 15 l/min (11.9 - 4.0 g/min)

**Gear train & ratio :** 1-stage planetary 5.8:1

**Brake :** Multi-Disc Brake (MDB) patented and counter-balance valve together

**Hoist construction :** Steel housings with steel drum

**Hoist Rotation :** Counter clockwise rotation of the drum

**Drum size (dxDxL) :**

APE 19 (Std. drum) / 16 : 210 x 344 x 191 mm (8.3" x 13.5" x 7.5")  
 APE 19 (Long drum) : 210 x 344 x 320 mm (8.3" x 13.5" x 12.6")

**Recommended wire rope :**

APE 19 : 12 mm x 48 m for std. drum and 12 mm x 82 m for long drum with 1,960 N/mm<sup>2</sup> grade with minimum breaking strength of 100 kN for EN 14492-2 rating

1/2" x 157' for std. drum and 1/2" x 269' for long drum with EIPS grade with minimum breaking strength of 22,487 lbf for ASME B30.7 rating

APE 16 : 10 mm x 57 m with 2,160 N/mm<sup>2</sup> grade with minimum breaking strength of 78.2 kN for EN 14492-2 rating

3/8" x 187' with EIPS grade with minimum breaking strength of 17,593 lbf for ASME B30.7 rating

**Mounting bolt pattern :**

APE 19 (Std. drum) / 16 : 290 x 196 mm (11.4" x 7.7")  
 APE 19 (Long drum) : 290 x 325 mm (11.4" x 12.8")

**Hoist weight :** APE 19 (Std. drum) : 88 kg / 194 lb  
 APE 19 (Long drum) : 101 kg / 223 lb  
 APE 16 : 87 kg / 192 lb

**Gross weight :** APE 19 (Std. drum) : 106 kg / 234 lb  
 APE 19 (Long drum) : 123 kg / 271 lb  
 APE 16 : 105 kg / 232 lb

**Box dimension, (L x D x H) :**

APE 19 (Std. drum) / 16 : 490 x 490 x 600 mm (19.3" x 19.3" x 23.6")  
 APE 19 (Long drum) : 620 x 510 x 600 mm (24.4" x 20.1" x 23.6")

### PERFORMANCE DATA : Line Lift and Rope Capacity

#### APE 19

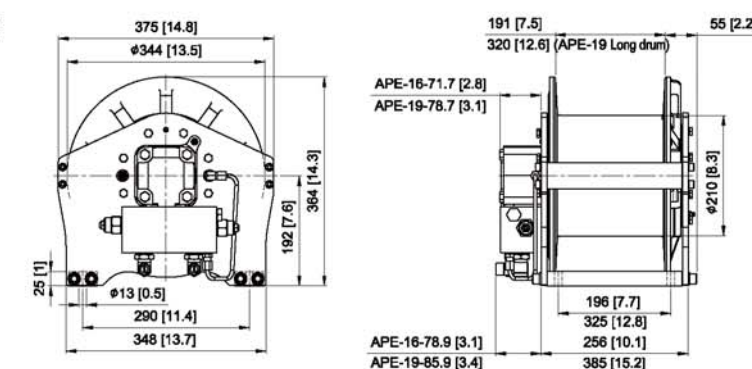
Layer of Wire Rope	Lift by Layer, kg / lb	Line Speed, mpm / fpm	Total Rope on the Drum, m / ft	
			Std. drum	Long drum
1 <sup>st</sup>	2,515 / 5,545	35.0 / 115	10.4 / 34	18 / 59
2 <sup>nd</sup>	2,270 / 5,004	38.8 / 127	22 / 72	38 / 124
3 <sup>rd</sup>	2,068 / 4,559	42.6 / 140	35 / 114	60 / 195
4 <sup>th</sup>	1,900 / 4,190	46.4 / 153	48 / 157	82 / 269

#### APE 16

Layer of Wire Rope	Lift by Layer, kg / lb	Line Speed, mpm / fpm	Total Rope on the Drum, m / ft	
			Std. drum	Long drum
1 <sup>st</sup>	2,036 / 4,489	33.8 / 111	12.5 / 41	
2 <sup>nd</sup>	1,866 / 4,114	36.8 / 121	26.2 / 86	
3 <sup>rd</sup>	1,723 / 3,796	40 / 131	41 / 134	
4 <sup>th</sup>	1,600 / 3,527	43 / 141	57 / 187	

The total rope on the drum may vary from figures stated elsewhere

### DIMENSION mm/in :



- Option Accessories
- Cable tensioner
  - Wire rope with hook
  - Up and Down limit protection device

## APE 12/9

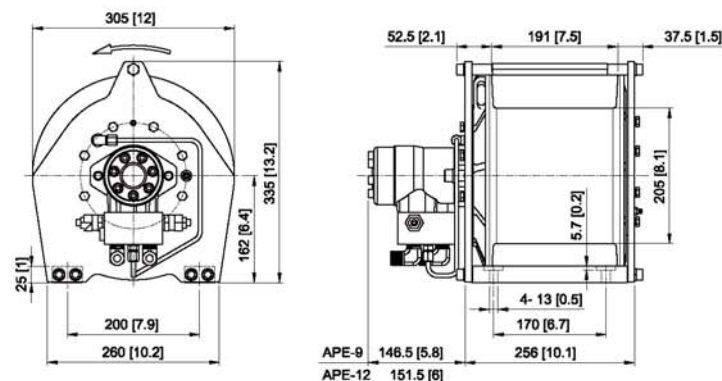
### 1,200/900 KG Hydraulic Hoist for Mobile Crane

• Meets ASME B30.7 and, CE Machinery Directive 2006/42/EC standards

APE 12 PN 681910 | APE 9 PN 681900



#### DIMENSION mm/in :



#### PERFORMANCE DATA :

##### Line Lift and Rope Capacity

###### APE 12

Layer of Wire Rope	Lift by Layer, kg / lb	Line Speed, mpm / fpm	Total Rope on the Drum, m / ft
1 <sup>st</sup>	1,535 / 3,384	27.8 / 91	12.2 / 40
2 <sup>nd</sup>	1,404 / 3,094	30.4 / 100	25.6 / 84
3 <sup>rd</sup>	1,294 / 2,853	33 / 108	40 / 131
4 <sup>th</sup>	1,200 / 2,645	35.5 / 116	55 / 180

###### APE 9

Layer of Wire Rope	Lift by Layer, kg / lb	Line Speed, mpm / fpm	Total Rope on the Drum, m / ft
1 <sup>st</sup>	1,100 / 2,425	30.1 / 99	15 / 50
2 <sup>nd</sup>	1,023 / 2,255	32.3 / 106	31.8 / 104
3 <sup>rd</sup>	956 / 2,108	34.6 / 114	49.4 / 162
4 <sup>th</sup>	900 / 1,984	37 / 121	68 / 223

The total rope on the drum may vary from figures stated elsewhere



#### SPECIFICATIONS :

##### Rated line lift :

APE 12 : 1,200 kg (2,640 lb) single line at the top layer of rope

APE 9 : 900 kg (1,984 lb) single line at the top layer of rope

##### Motor :

APE 12 : 194.6 cm<sup>3</sup>/rev (11.9 in<sup>3</sup>/rev)

APE 9 : 155.7 cm<sup>3</sup>/rev (9.5 in<sup>3</sup>/rev)

##### Operation pressure :

APE 12 : 150 bar (2,176 psi) with maximum back pressure on return line of 5 bar

APE 9 : 140 bar (2,031 psi) with maximum back pressure on return line of 5 bar

##### Max-Min pump flow :

APE 12 : 40 - 20 l/min (10.6 - 5.3 g/min)

APE 9 : 35 - 15 l/min (9.2 - 4.0 g/min)

##### Gear train & ratio : 1-stage planetary 5:1

**Brake :** Multi-Disc Brake (MDB) patented and counter-balance valve together

**Hoist construction :** Steel housings with steel drum

**Hoist Rotation :** Counter clockwise rotation of the drum

**Drum size (dXDxL) :** 205 x 305 x 191 mm (8.1" x 12.0" x 7.5")

##### Recommended wire rope :

APE 12 : 10 mm x 55 m with 1,960 N/mm<sup>2</sup> grade with minimum breaking strength of 69.8 kN for EN 14492-2 rating

3/8" x 180' with EIPS grade with minimum breaking strength of 15,663 lbf for ASME B30.7 rating

APE 9 : 8 mm x 68 m with 1,960 N/mm<sup>2</sup> grade with minimum breaking strength of 44.7 kN or EN 14492-2 rating

5/16" x 223' with EIPS grade with minimum breaking strength of 10,003 lbf for ASME B30.7 rating

**Mounting bolt pattern :** 200 x 170 mm (7.9" x 6.7")

**Hoist weight :** APE 12 : 64 kg / 141 lb

APE 9 : 63 kg / 140 lb

**Gross weight :** APE 12 : 81 kg / 179 lb

APE 9 : 80 kg / 176 lb

**Box dimension, (L x D x H) :** 550 x 440 x 570 mm (21.7" x 17.3" x 22.4")

##### Option Accessories

- Cable tensioner
- Wire rope with hook
- Up and Down limit protection device

#### 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.

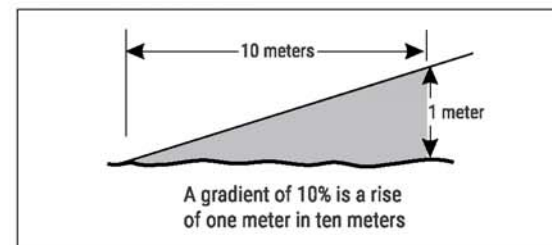
**1. Gross Vehicle Weight (Wt):** Contains the vehicle weight and the weight of the supplies and equipments carried.

**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.)	30	60	110	170	26%	35%	45%
Gradient (G)	0.06	0.11	0.2	0.3	0.44	0.58	0.7



Rolling Pull Effect Required = (Wt x S) + (Wt x 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 x S ) + ( Wt x G ) = ( 3,000 kg x 0.52 ) + ( 3,000 kg x 0.71 )

= 1,560 kg + 2,130 kg = 3,690 kg of effect required to recover the vehicle

##### Winch / Load Rated

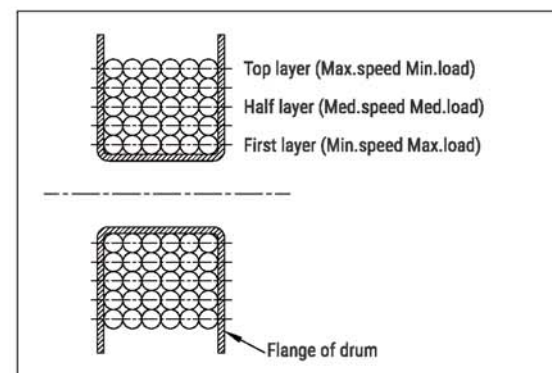
• Load and speed varies according to how much wire rope is on the drum. The first layer of rope on the drum delivers the slowest speed and the maximum load. The top layer of rope on the drum delivers the maximum speed and the minimum load. For this reason, all AUTOMOTIVE, POWERSPORTS and INDUSTRIAL winches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

##### Hydraulic Hoist / Load Rated

• 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 hoists are rated at their top layer capacities.

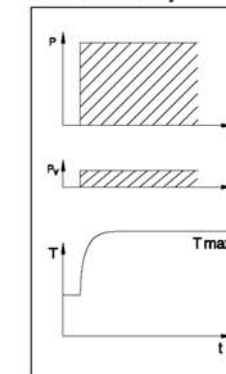
• Leave two free layers below the top of the drum flanges to meet European lifting rules

• Leave a minimum of ½ inch (13 mm) below the tope of the drum flange to meet ASME 30.7



#### DUTY CYCLE RATINGS

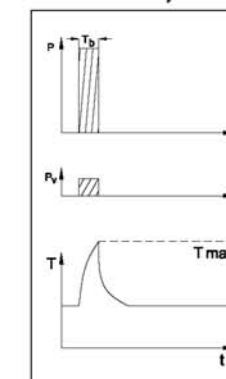
##### S1 Continuous Duty



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

P load  
Pv electrical losses  
T temperature

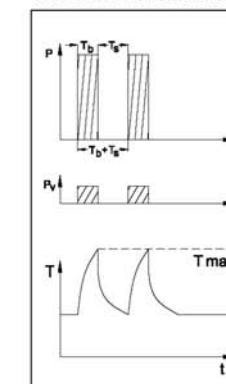
##### S2 Short Time Duty



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 poeration  
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  
Walrus/Seal Gen2/Seal Slim Series Winches a three (3) years 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
- Hydraulic hoist : One (1) year warranty for any components.

WIRE/SYNTHETIC ROPES ARE NOT INCLUDED UNDER WARRANTY.